Numbers preliminary

Version: 16 Nov. 2015

Potential historical data mismatch

INDC FactSheet

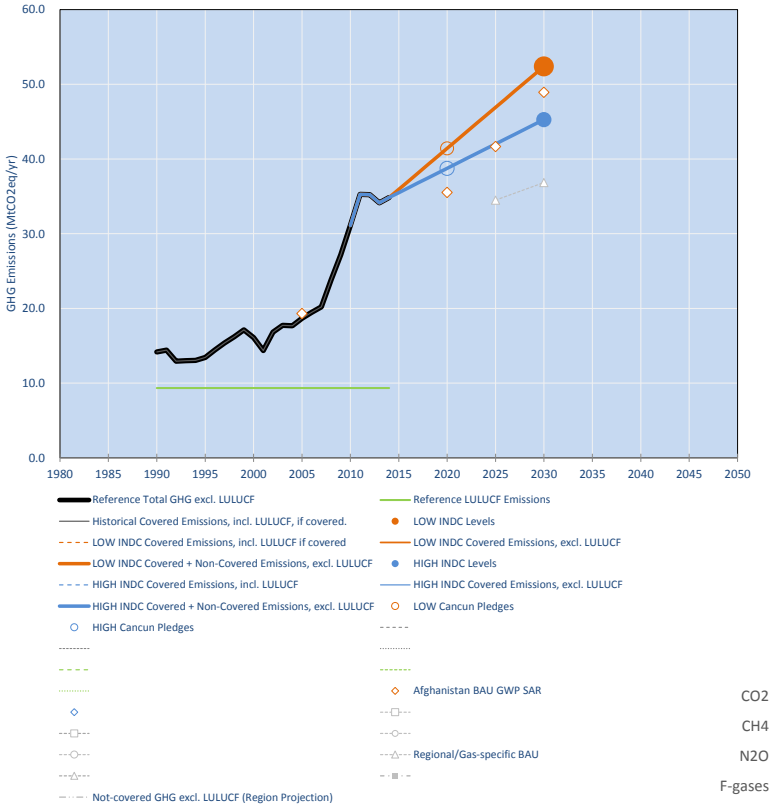
Afghanistan

Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

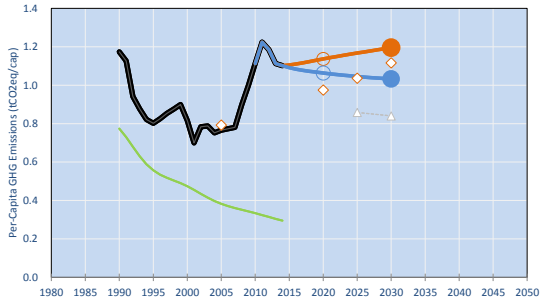
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+0%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 49 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #99	0.1% #95	0.1% #93
		-14% rel. BAU of 49 Mt	Per-Capita Emissions (tCO2eq/cap)	1.1t #181	1.1t #180	1.1t #180

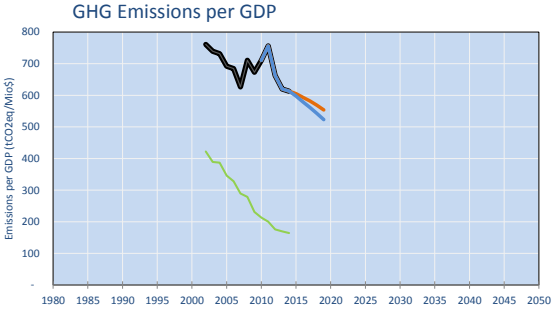
GHG Emissions



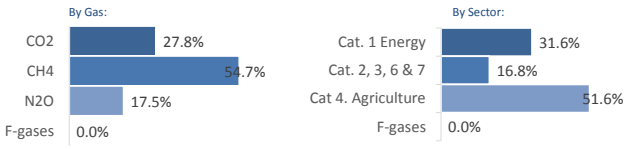
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	14	16	19	31	41	39	47	42	52	45
Total GHG excl. LULUCF	14	16	19	31	41	39	47	42	52	45
Total GHG incl. LULUCF	24	25	28	40	51	48	56	51	62	55

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	114%	132%	220%	293%	274%	331%	297%	370%	320%
Relative 2000	88%	100%	116%	193%	257%	241%	292%	261%	326%	281%
Relative 2005	76%	86%	100%	166%	222%	207%	251%	225%	280%	242%
Relative 2010	46%	52%	60%	100%	133%	125%	151%	135%	168%	146%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	12	20	24	28	36	36	40	40	44	44
Per-Capita Emissions (tCO2eq/cap)	1.2	0.8	0.8	1.1	1.1	1.1	1.2	1.0	1.2	1.0
Relative 1990	100%	70%	65%	95%	97%	91%	99%	89%	102%	88%
Relative 2000	144%	100%	94%	136%	139%	130%	143%	128%	146%	126%
Relative 2005	153%	107%	100%	145%	148%	139%	152%	137%	156%	135%
Relative 2010	106%	73%	69%	100%	102%	96%	105%	94%	107%	93%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

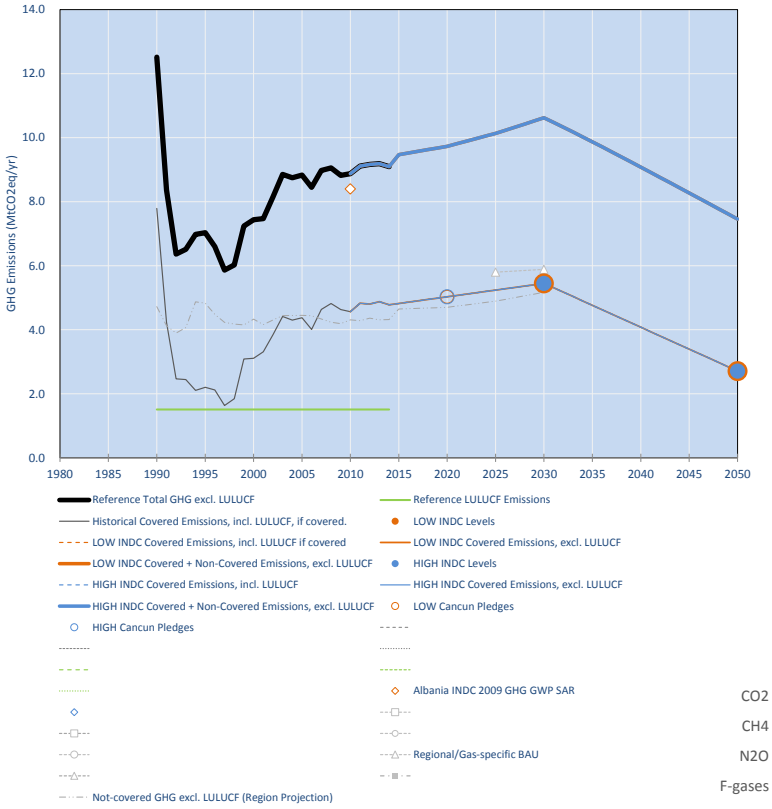
Albania

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +18%

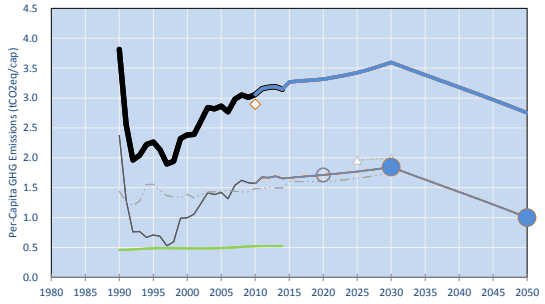
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-12% rel. BAU of 6 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #145	0.0% #146	0.0% #144
			Per-Capita Emissions (tCO2eq/cap)	3.1t #125	3.4t #116	3.6t #115

INDC: Committed to reduce CO2 emissions by 11.5% compared to BAU. (GWP SAR)

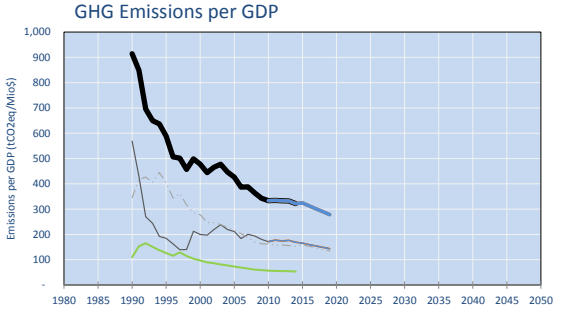
GHG Emissions



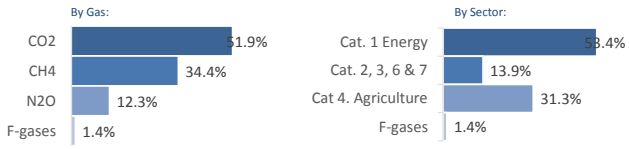
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	12%	17%
INDC LOW	12%	17%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	8	3	4	5	5	5	5	5	5	5
Total GHG excl. LULUCF	13	7	9	9	10	10	10	10	11	11
Total GHG incl. LULUCF	14	9	10	10	11	11	12	12	12	12

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	59%	71%	71%	78%	78%	81%	81%	85%	85%
Relative 2000	168%	100%	119%	119%	131%	131%	136%	136%	143%	143%
Relative 2005	142%	84%	100%	101%	110%	110%	115%	115%	120%	120%
Relative 2010	141%	84%	99%	100%	110%	110%	114%	114%	120%	120%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	3	3	3	3	3	3	3	3	3
Per-Capita Emissions (tCO2eq/cap)	3.8	2.4	2.9	3.1	3.3	3.3	3.4	3.4	3.6	3.6
Relative 1990	100%	62%	75%	80%	87%	87%	90%	90%	94%	94%
Relative 2000	160%	100%	120%	128%	139%	139%	144%	144%	151%	151%
Relative 2005	133%	83%	100%	107%	116%	116%	120%	120%	126%	126%
Relative 2010	125%	78%	94%	100%	108%	108%	112%	112%	118%	118%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
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a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

No BAU level provided. Reference assumed.

INDC FactSheet

Algeria

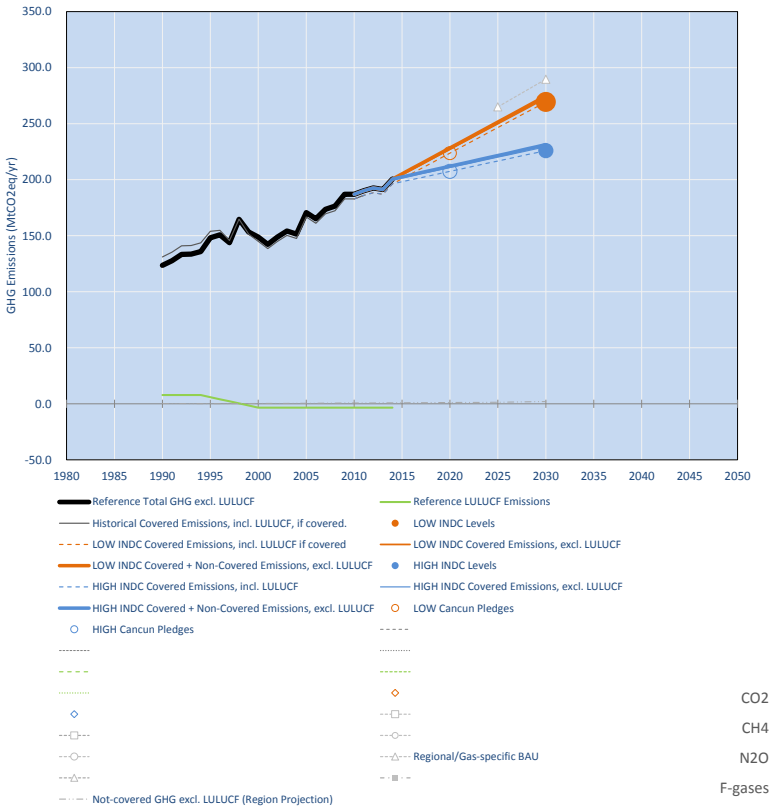
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+1%**

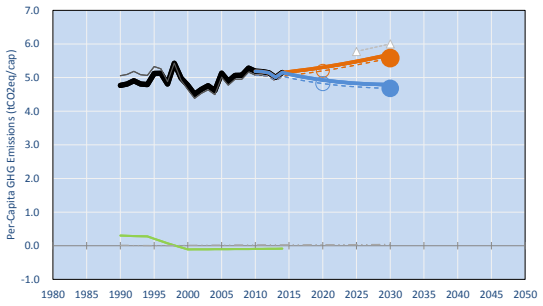
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-7% rel. BAU of 0 Mt	Share of World Emissions excl. LULUCF (Rank):	0.4% #39	0.4% #38	0.5% #40
		-22% rel. BAU of 0 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	5.2t #87	5.2t #93	5.2t #89

INDC: Reduction of GHG emissions by 7% by 2030 compared to BAU. Conditional: up to 22% subject to support for external financing, development and technology transfer and capacity building. (GWP AR4)

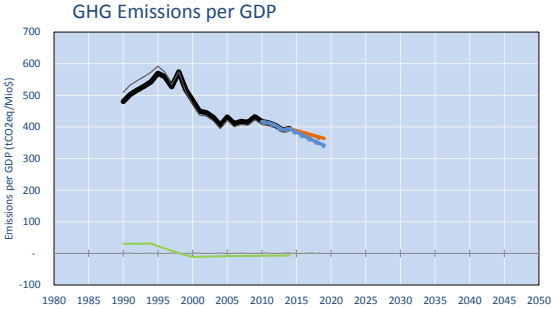
GHG Emissions



Per-Capita Emissions



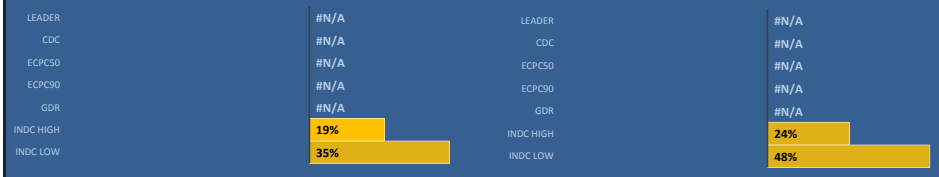
GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	8	3	3	3	3	3	3	3	3	3
INDC covered Emissions excl. LULUCF	123	148	170	186	227	211	250	220	273	229
Total GHG excl. LULUCF	124	149	171	187	228	212	251	222	275	231
Total GHG incl. LULUCF	131	145	167	184	225	209	248	218	271	228

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	120%	138%	151%	185%	172%	204%	179%	222%	187%
Relative 2000	83%	100%	115%	126%	153%	142%	169%	149%	185%	155%
Relative 2005	72%	87%	100%	110%	134%	124%	147%	130%	161%	136%
Relative 2010	66%	80%	91%	100%	122%	113%	134%	118%	147%	124%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	26	31	33	36	43	43	46	46	48	48
Per-Capita Emissions (tCO2eq/cap)	4.8	4.8	5.1	5.2	5.3	4.9	5.5	4.8	5.7	4.8
Relative 1990	100%	100%	108%	109%	111%	103%	115%	101%	119%	101%
Relative 2000	100%	100%	107%	109%	111%	103%	115%	101%	119%	100%
Relative 2005	93%	93%	100%	101%	103%	96%	107%	94%	111%	93%
Relative 2010	92%	92%	99%	100%	102%	95%	106%	93%	110%	92%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Metric	GWP AR4

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a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | Missing Emission Data for CH4, N2O etc.

INDC FactSheet

Andorra

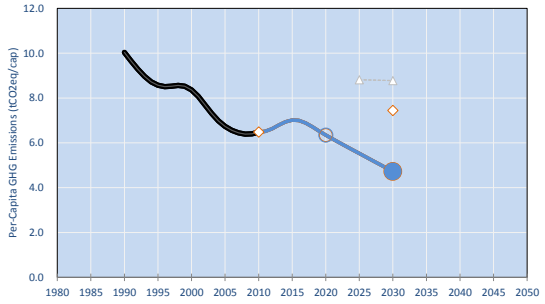
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-27%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-37% rel. BAU of 1 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #178	0.0% #180	0.0% #181
			Per-Capita Emissions (tCO2eq/cap)	6.5t #75	5.5t #83	4.7t #99

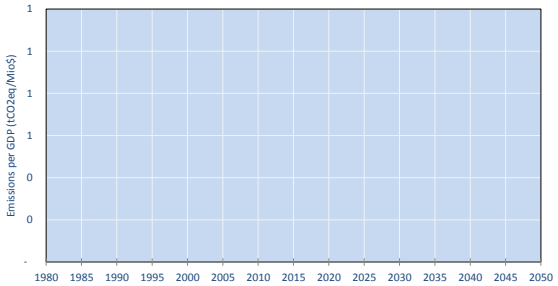
INDC: 37% reduction below BAU (530,55 Gg CO2 eq) by 2030. (GWP SAR)

GHG Emissions

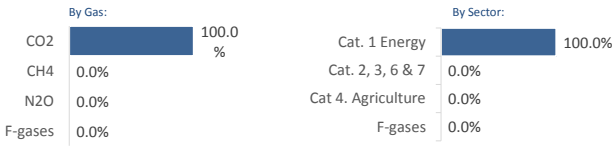
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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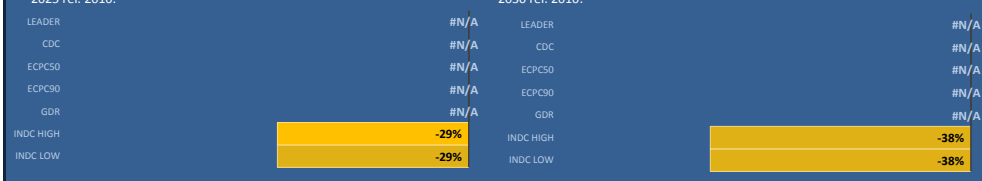

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(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	1	1	1	1	0	0	0	0	0	0
Total GHG excl. LULUCF	1	1	1	1	0	0	0	0	0	0
Total GHG incl. LULUCF	1	1	1	1	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	100%	100%	100%	81%	81%	71%	71%	62%	62%
Relative 2000	100%	100%	100%	100%	81%	81%	71%	71%	62%	62%
Relative 2005	100%	100%	100%	100%	81%	81%	71%	71%	62%	62%
Relative 2010	100%	100%	100%	100%	81%	81%	71%	71%	62%	62%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	10.0	8.4	6.7	6.5	6.3	6.3	5.5	5.5	4.7	4.7
Relative 1990	100%	83%	67%	65%	63%	63%	55%	55%	47%	47%
Relative 2000	120%	100%	81%	77%	76%	76%	66%	66%	56%	56%
Relative 2005	149%	124%	100%	96%	94%	94%	82%	82%	70%	70%
Relative 2010	155%	129%	104%	100%	98%	98%	85%	85%	73%	73%

Data Sources:

Cat1_CO2	COUNTRY-SPECIFIC USER DATA	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Policies and Measures not quantified. BAU plotted instead.
Strong mismatch of hist. emissions.

INDC FactSheet

Antigua and Barbuda

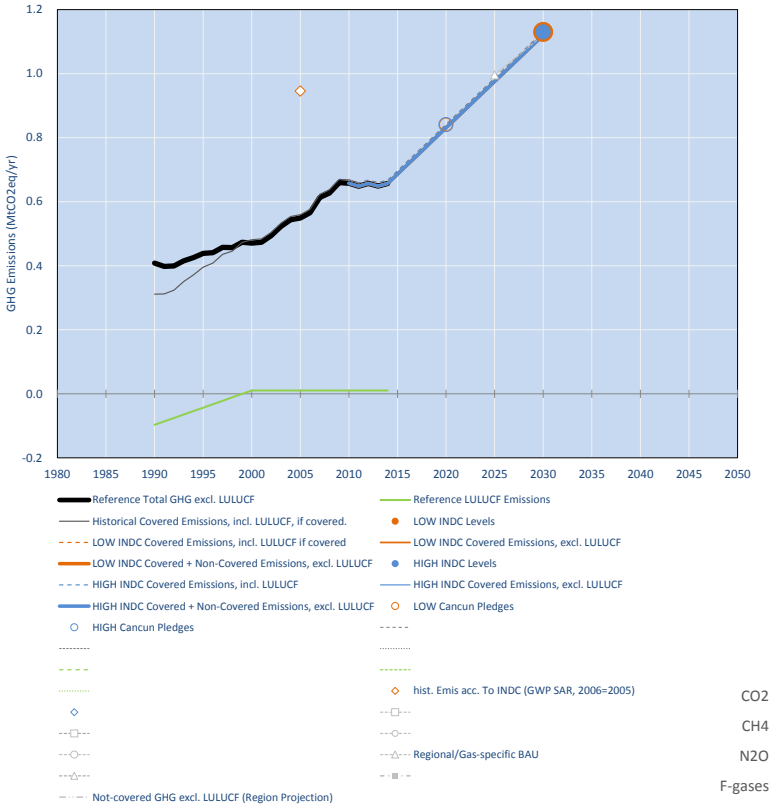
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+42%**

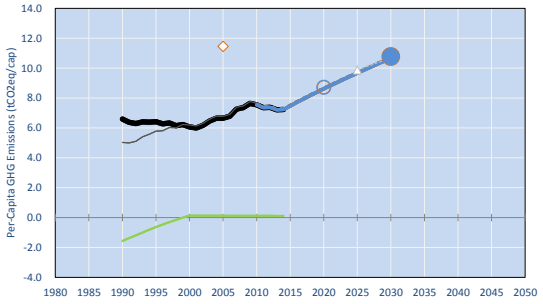
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		1.1 Mt (Polices and Measures)	Share of World Emissions excl. LULUCF (Rank):	0.0% #175	0.0% #174	0.0% #173
		1.1 Mt (Policies and measures)	Per-Capita Emissions (tCO2eq/cap)	7.5t #62	9.7t #37	10.7t #30

INDC: A set of policies and measures for GHG reductions by 2030. . (GWP SAR)

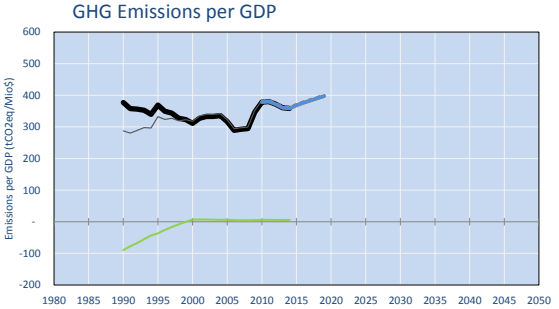
GHG Emissions



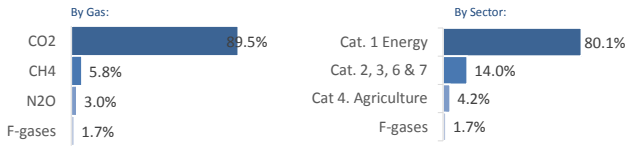
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	48%	69%
INDC LOW	48%	69%

"Fair" contributions for a global 'least-cost' 2°C track:
- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	0	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF		0	0	1	1	1	1	1	1	1
Total GHG excl. LULUCF		0	0	1	1	1	1	1	1	1
Total GHG incl. LULUCF		0	0	1	1	1	1	1	1	1

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	115%	135%	161%	204%	204%	239%	239%	275%	275%
Relative 2000	87%	100%	117%	140%	176%	176%	207%	207%	238%	238%
Relative 2005	74%	86%	100%	120%	151%	151%	178%	178%	204%	204%
Relative 2010	62%	72%	83%	100%	126%	126%	148%	148%	170%	170%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	6.6	6.1	6.7	7.5	8.6	8.6	9.7	9.7	10.7	10.7
Relative 1990	100%	92%	101%	114%	131%	131%	147%	147%	162%	162%
Relative 2000	109%	100%	110%	124%	142%	142%	159%	159%	176%	176%
Relative 2005	99%	91%	100%	113%	130%	130%	145%	145%	161%	161%
Relative 2010	87%	80%	88%	100%	114%	114%	128%	128%	142%	142%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Major difference of historical emissions. Targets here are scaled.

INDC FactSheet

Argentina

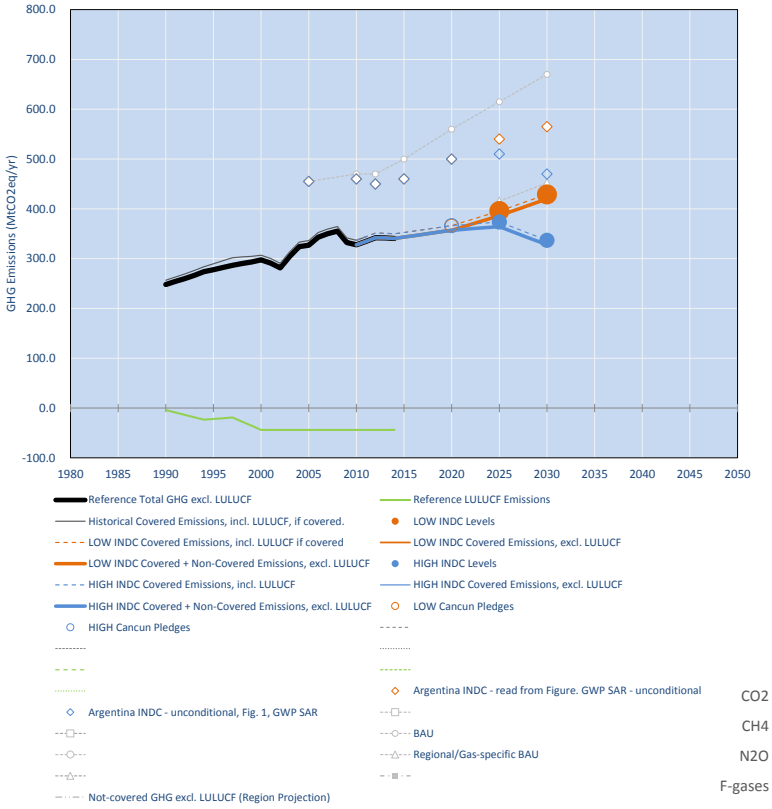
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-5%**

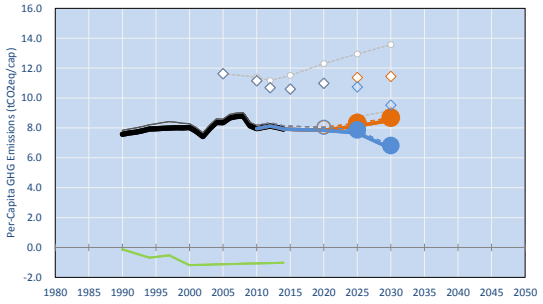
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-15% rel. BAU of 491 Mt	Share of World Emissions excl. LULUCF (Rank):	0.7% #28	0.7% #30	0.7% #30
		0% rel.2010(cond.)	Per-Capita Emissions (tCO2eq/cap)	7.9t #57	7.9t #55	7.6t #54

INDC: Reduction of GHG emissions by 15% compared to BAU levels by 2030Conditional target: 30% reduction subject to international support. (GWP SAR)

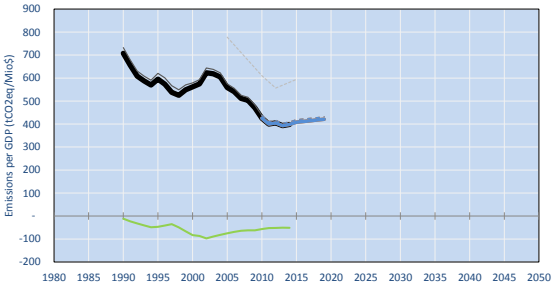
GHG Emissions



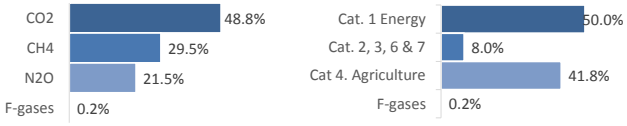
Per-Capita Emissions



GHG Emissions per GDP

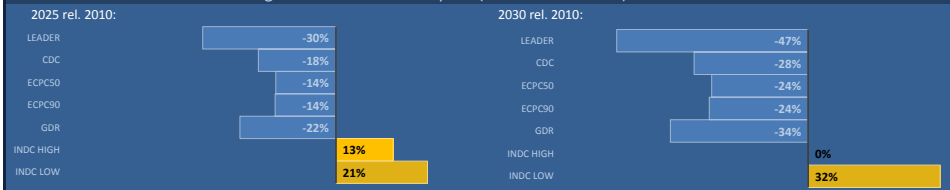


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2010 INDC: 21 to 13%; Leader:-30%; CDC:-18%; ECPC50:-14%; ECPC90:-14%; GDR:-22%

2030 rel. 2010 INDC: 32 to 0%; Leader:-47%; CDC:-28%; ECPC50:-24%; ECPC90:-24%; GDR:-34%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	9	9	9	9	9	9	9	9	9	9
INDC covered Emissions excl. LULUCF	248	298	327	328	357	357	386	364	420	328
Total GHG excl. LULUCF	248	298	327	328	357	357	386	364	420	328
Total GHG incl. LULUCF	244	254	283	284	313	313	342	320	376	284

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	120%	132%	132%	144%	144%	156%	147%	169%	132%
Relative 2000	83%	100%	110%	110%	120%	120%	130%	122%	141%	110%
Relative 2005	76%	91%	100%	100%	109%	109%	118%	111%	128%	100%
Relative 2010	76%	91%	100%	100%	109%	109%	118%	111%	128%	100%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	33	37	39	41	46	46	47	47	49	49
Per-Capita Emissions (tCO2eq/cap)	7.6	8.0	8.4	7.9	7.8	7.8	8.1	7.7	8.5	6.6
Relative 1990	100%	106%	110%	105%	103%	103%	107%	101%	112%	88%
Relative 2000	94%	100%	104%	99%	98%	98%	101%	95%	106%	83%
Relative 2005	91%	96%	100%	95%	94%	94%	97%	92%	102%	79%
Relative 2010	95%	101%	105%	100%	99%	99%	102%	96%	107%	84%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary — Version: 16 Nov. 2015 — INDC FactSheet

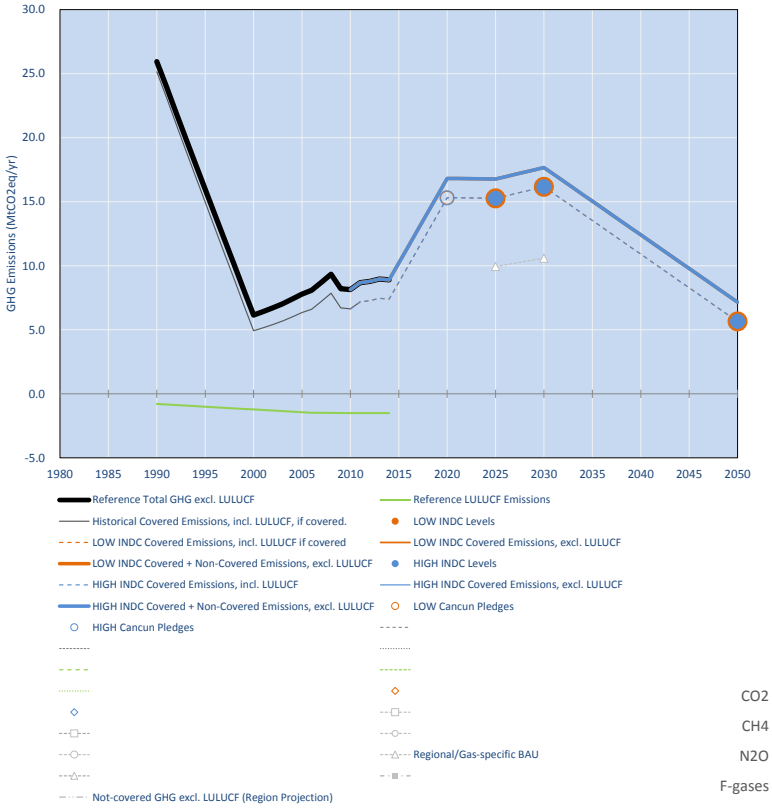
Armenia

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +115%

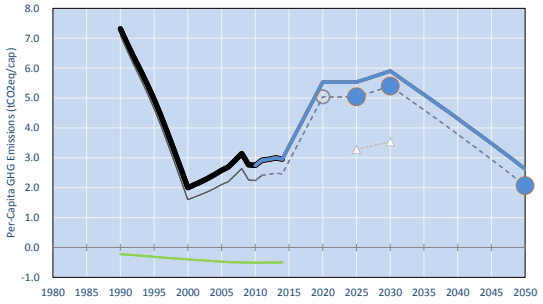
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		16.2 Mt (Per-capita target)	Share of World Emissions excl. LULUCF (Rank):	0.0% #146	0.0% #132	0.0% #132
			Per-Capita Emissions (tCO2eq/cap)	2.7t #130	5.5t #82	5.9t #79

INDC: Strives to achieve ecosystem neutral GHG emissions in 2050 with interim review in 2030 pending on international support. (GWP SAR)

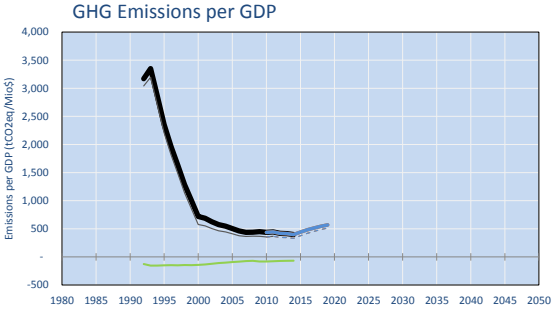
GHG Emissions



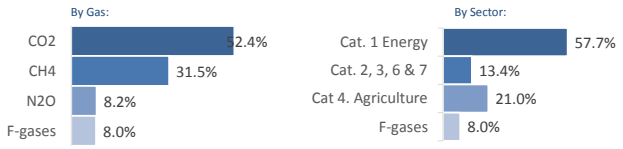
Per-Capita Emissions



GHG Emissions per GDP

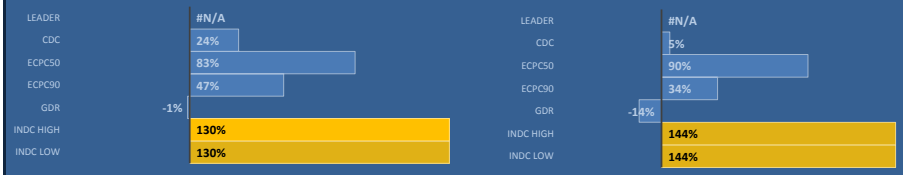


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 1	- 1	- 1	- 2	- 2	- 2	- 2	- 2	- 2	- 2
INDC covered Emissions excl. LULUCF	26	6	8	8	17	17	17	17	18	18
Total GHG excl. LULUCF	26	6	8	8	17	17	17	17	18	18
Total GHG incl. LULUCF	25	5	6	7	15	15	15	15	16	16

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	24%	30%	31%	65%	65%	65%	65%	68%	68%
Relative 2000	422%	100%	127%	132%	274%	274%	273%	273%	287%	287%
Relative 2005	333%	79%	100%	105%	216%	216%	215%	215%	227%	227%
Relative 2010	319%	76%	96%	100%	207%	207%	206%	206%	217%	217%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	3	3	3	3	3	3	3	3	3
Per-Capita Emissions (tCO2eq/cap)	7.3	2.0	2.6	2.7	5.5	5.5	5.5	5.5	5.9	5.9
Relative 1990	100%	27%	35%	38%	76%	76%	76%	76%	81%	81%
Relative 2000	366%	100%	129%	137%	277%	277%	277%	277%	295%	295%
Relative 2005	283%	77%	100%	106%	214%	214%	214%	214%	229%	229%
Relative 2010	267%	73%	94%	100%	202%	202%	202%	202%	215%	215%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Australia

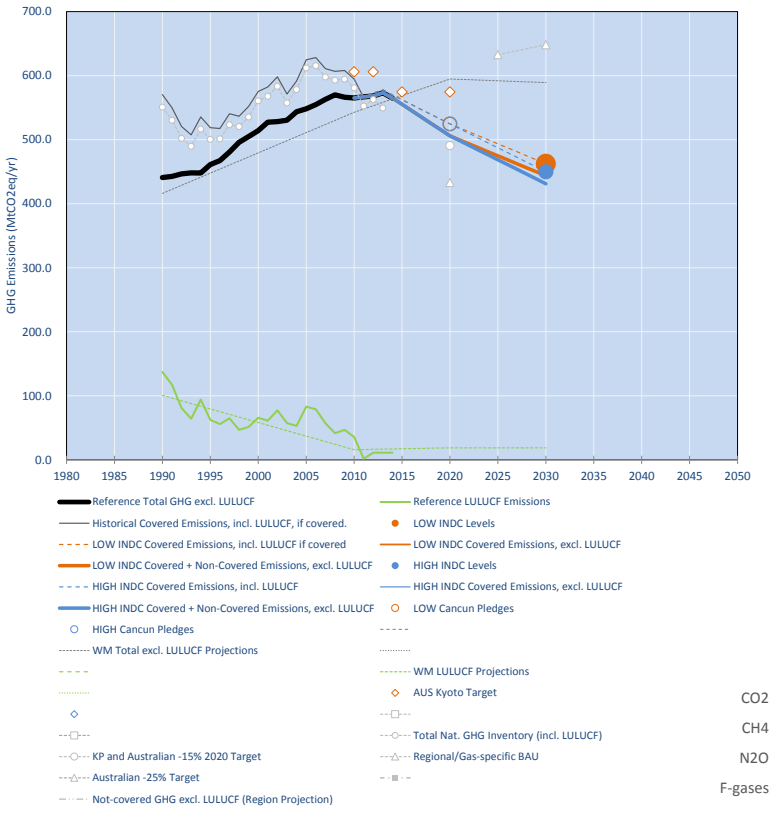
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-40%**

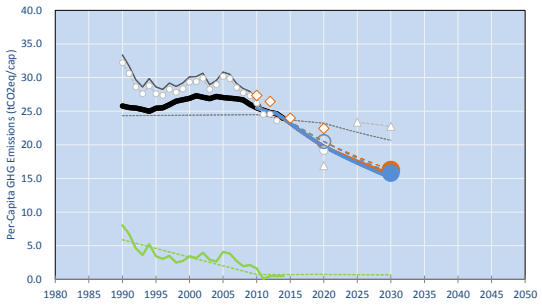
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-5% rel. 2000		-26% rel.2005	Share of World Emissions excl. LULUCF (Rank):	1.2% #17	0.9% #23	0.8% #24
-5% rel. 2000		-28% rel.2005	Per-Capita Emissions (tCO2eq/cap)	25.5t #8	17.4t #14	15.4t #16

INDC: Economy-wide target to reduce greenhouse gas emissions by 26-28% below 2005 levels by 2030. (GWP AR4)

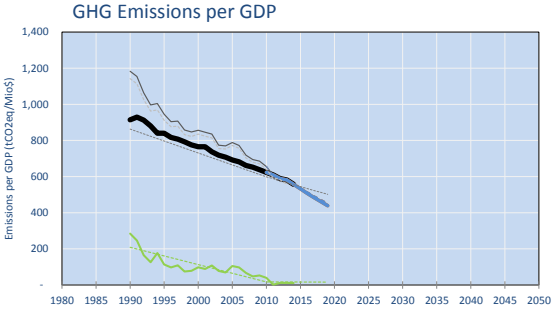
GHG Emissions



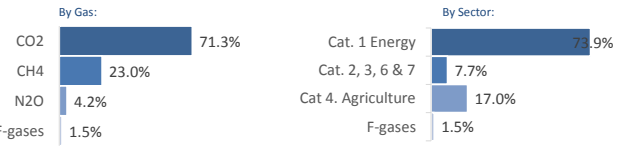
Per-Capita Emissions



GHG Emissions per GDP

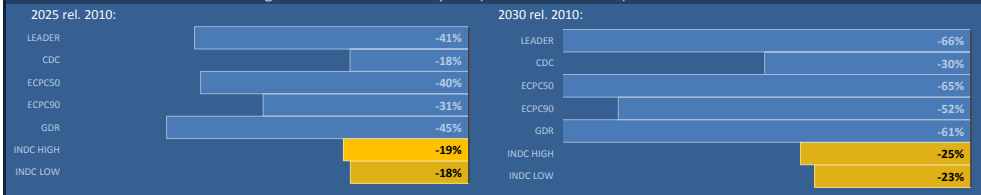


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2005 INDC: -22 to -23%; Leader:-44%; CDC:-22%; ECPC50:-43%; ECPC90:-34%; GDR:-48% 2030 rel. 2005 INDC: -27 to -29%; Leader:-68%; CDC:-34%; ECPC50:-67%; ECPC90:-54%; GDR:-63%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					22	22				
INDC covered LULUCF Emissions	130	61	77	29	19	19	19	19	19	19
INDC covered Emissions excl. LULUCF	441	514	548	565	506	506	475	469	444	431
Total GHG excl. LULUCF	441	514	548	565	506	506	475	469	444	431
Total GHG incl. LULUCF	578	580	631	601	525	525	494	487	462	450

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	117%	124%	128%	115%	115%	108%	106%	101%	98%
Relative 2000	86%	100%	107%	110%	98%	98%	92%	91%	86%	84%
Relative 2005	80%	94%	100%	103%	92%	92%	87%	85%	81%	79%
Relative 2010	78%	91%	97%	100%	90%	90%	84%	83%	79%	76%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	17	19	20	22	26	26	27	27	28	28
Per-Capita Emissions (tCO2eq/cap)	25.8	26.9	27.0	25.5	19.8	19.8	17.5	17.3	15.6	15.1
Relative 1990	100%	104%	105%	99%	77%	77%	68%	67%	60%	59%
Relative 2000	96%	100%	100%	95%	73%	73%	65%	64%	58%	56%
Relative 2005	95%	100%	100%	94%	73%	73%	65%	64%	58%	56%
Relative 2010	101%	106%	106%	100%	78%	78%	69%	68%	61%	59%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	COUNTRY-SPECIFIC USER DATA
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
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Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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PRO_WM_Cat5_G	COUNTRY-SPECIFIC USER DATA
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

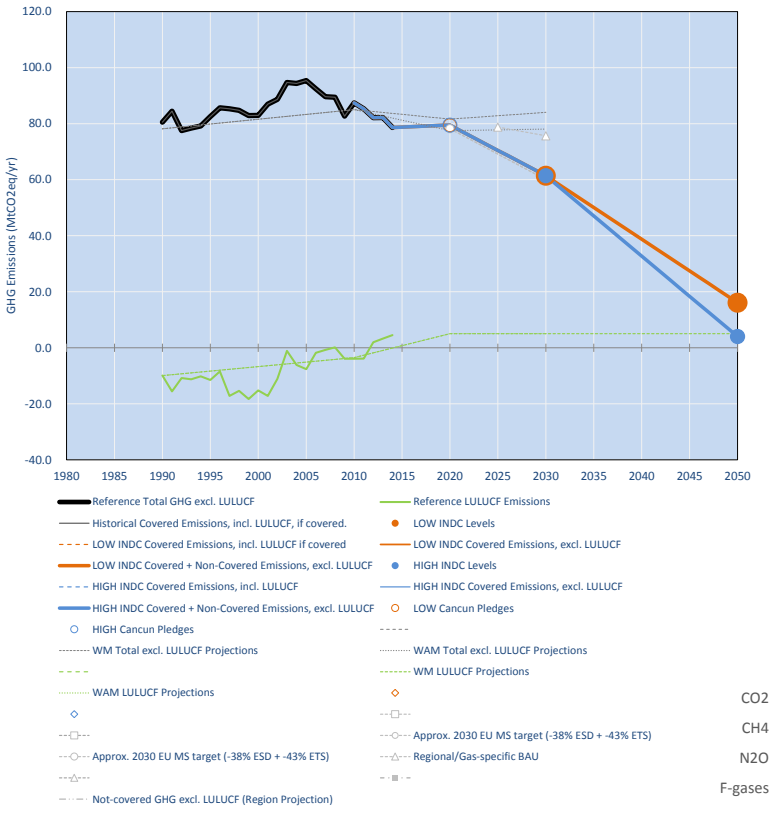
INDC FactSheet

Austria

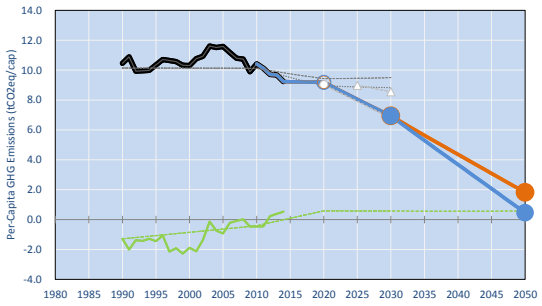
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -33%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.2% #57	0.1% #75	0.1% #82
			Per-Capita Emissions (tCO2eq/cap)	10.4t #35	8t #54	6.9t #62

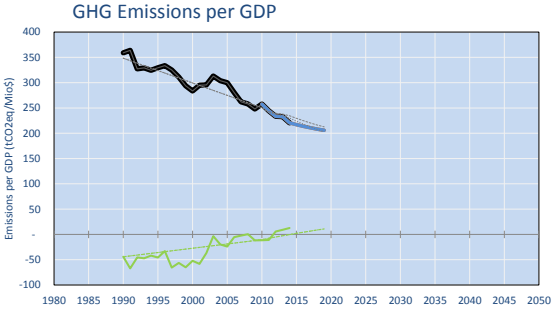
GHG Emissions



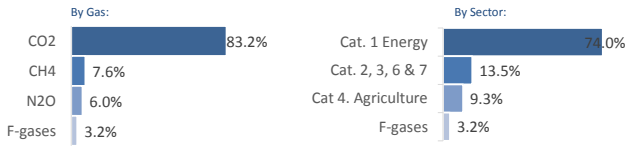
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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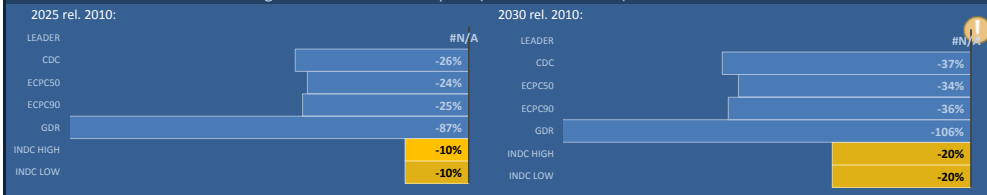

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 1	- 1	- 1	- 1	- 1	- 1
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	81	83	95	87	79	79	70	70	61	61
Total GHG excl. LULUCF	81	83	95	87	79	79	70	70	61	61
Total GHG incl. LULUCF	71	68	88	84	85	85	75	75	66	66

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	103%	118%	109%	99%	99%	87%	87%	76%	76%
Relative 2000	97%	100%	115%	105%	96%	96%	85%	85%	74%	74%
Relative 2005	84%	87%	100%	92%	83%	83%	74%	74%	64%	64%
Relative 2010	92%	95%	109%	100%	91%	91%	81%	81%	70%	70%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	8	8	8	8	9	9	9	9	9	9
Per-Capita Emissions (tCO2eq/cap)	10.5	10.3	11.6	10.4	9.2	9.2	8.0	8.0	6.9	6.9
Relative 1990	100%	99%	111%	100%	88%	88%	77%	77%	66%	66%
Relative 2000	101%	100%	112%	101%	89%	89%	78%	78%	67%	67%
Relative 2005	90%	89%	100%	90%	79%	79%	69%	69%	60%	60%
Relative 2010	100%	99%	111%	100%	88%	88%	77%	77%	67%	67%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Metric	GWP AR4

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

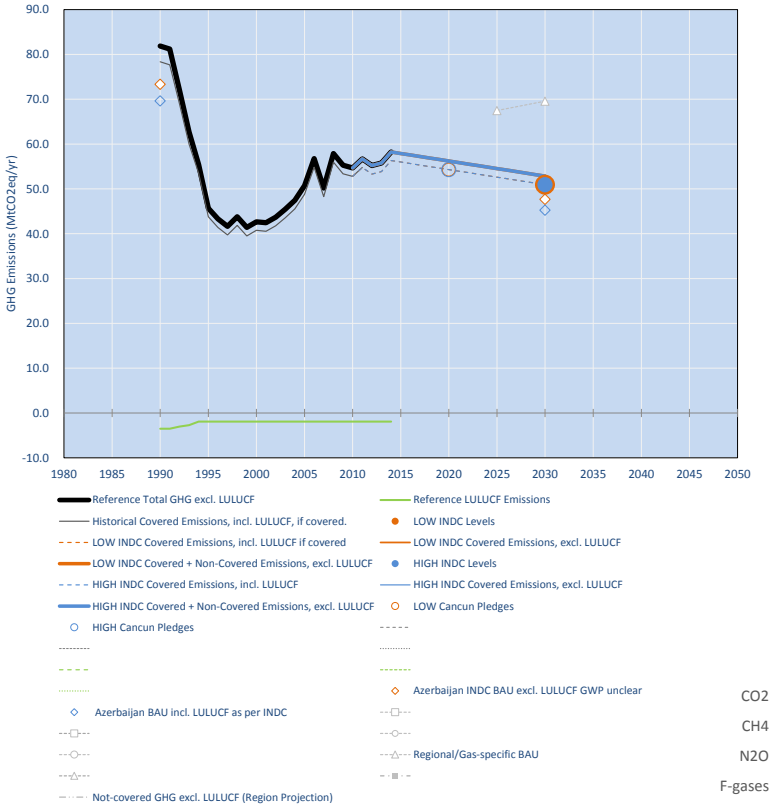
Azerbaijan

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -18%

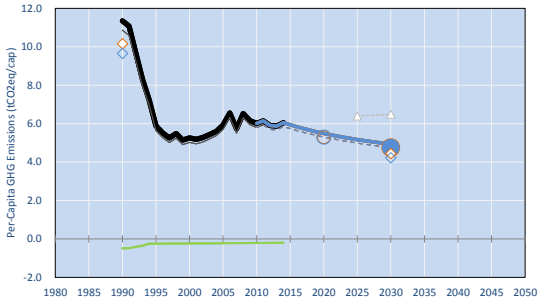
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-35% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.1% #82	0.1% #88	0.1% #86
			Per-Capita Emissions (tCO2eq/cap)	6t #78	5.2t #92	4.9t #95

INDC: 35% reduction of GHG emissions compared to 1990 levels by 2030. (GWP SAR)

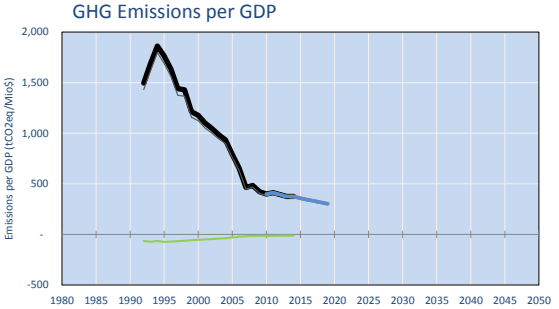
GHG Emissions



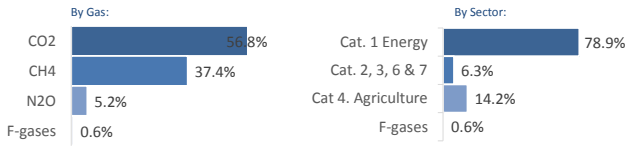
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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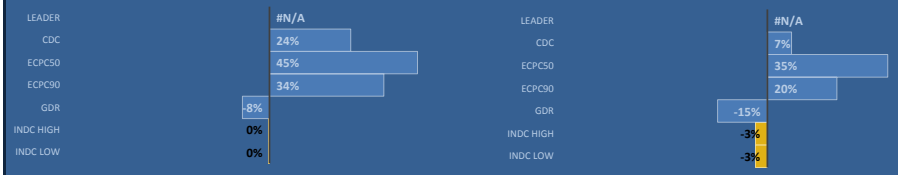

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -33%; CDC:-16%; ECPC50:-3%; ECPC90:-9%; GDR:-38%

2030 rel. 1990 INDC: -35%; CDC:-28%; ECPC50:-9%; ECPC90:-19%; GDR:-43%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 4	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2
INDC covered Emissions excl. LULUCF	82	43	51	55	56	56	55	55	53	53
Total GHG excl. LULUCF	82	43	51	55	56	56	55	55	53	53
Total GHG incl. LULUCF	78	41	49	53	54	54	53	53	51	51

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	52%	62%	67%	69%	69%	67%	67%	65%	65%
Relative 2000	192%	100%	119%	128%	132%	132%	128%	128%	124%	124%
Relative 2005	161%	84%	100%	108%	111%	111%	108%	108%	104%	104%
Relative 2010	150%	78%	93%	100%	103%	103%	100%	100%	97%	97%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	7	8	9	9	10	10	11	11	11	11
Per-Capita Emissions (tCO2eq/cap)	11.3	5.3	5.9	6.0	5.5	5.5	5.2	5.2	4.9	4.9
Relative 1990	100%	46%	52%	53%	48%	48%	46%	46%	43%	43%
Relative 2000	216%	100%	113%	114%	104%	104%	98%	98%	94%	94%
Relative 2005	192%	89%	100%	101%	93%	93%	87%	87%	83%	83%
Relative 2010	189%	87%	99%	100%	91%	91%	86%	86%	82%	82%

Data Sources:

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PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Bangladesh

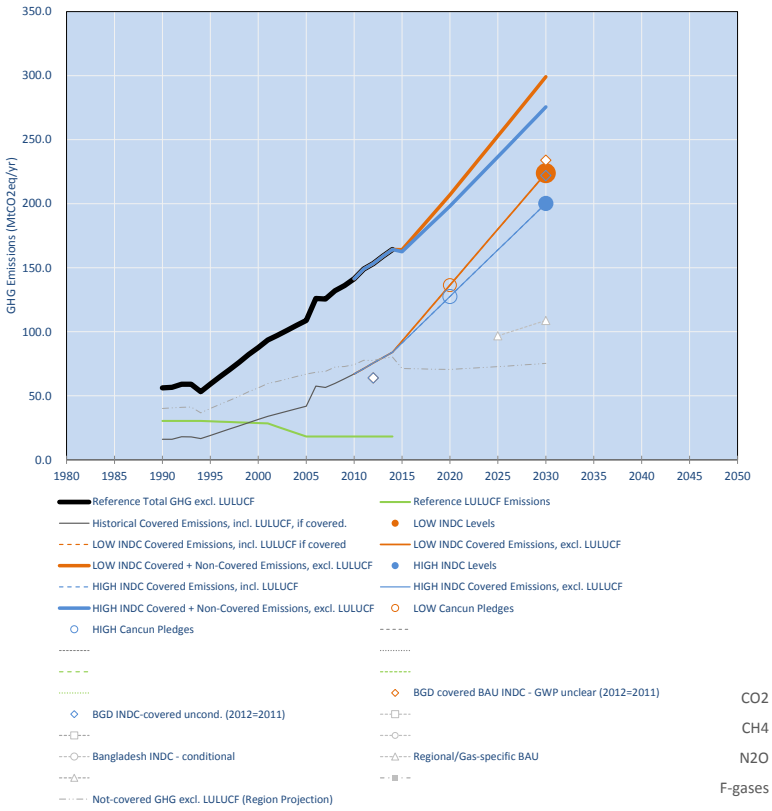
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+65%**

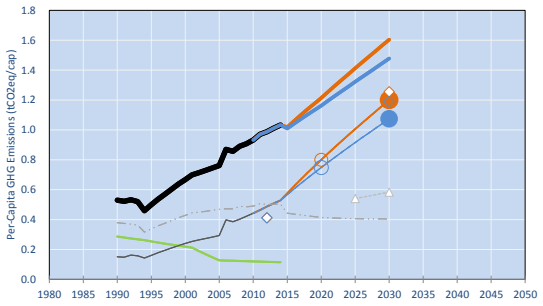
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-5% rel. BAU of 234 Mt -15% rel. BAU of 234 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.3% #43	0.5% #37	0.5% #36
			Per-Capita Emissions (tCO2eq/cap)	0.9t #186	1.4t #174	1.5t #168

INDC: 5% emission reduction from BAU by 2030 in power, transport and industry sectors; conditional target: 15% reduction from BAU levels by 2030 subject to international support. (GWP SAR)

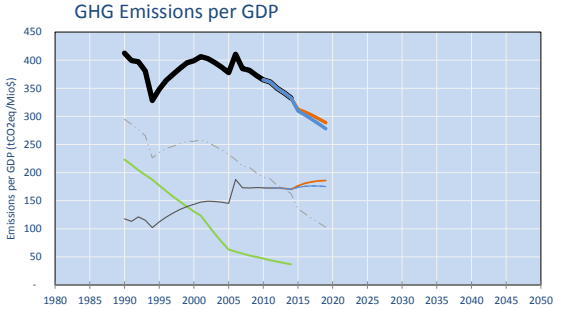
GHG Emissions



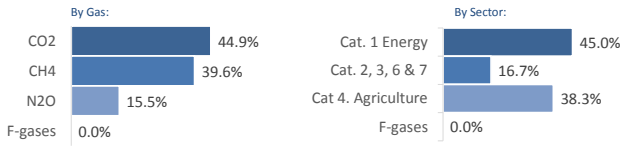
Per-Capita Emissions



GHG Emissions per GDP

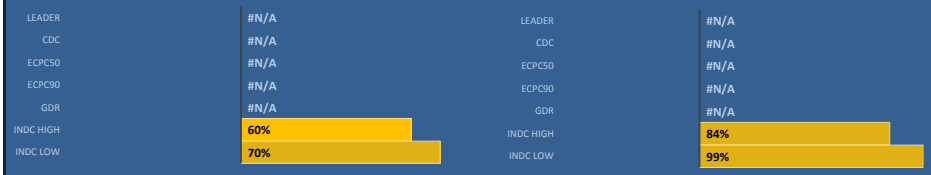


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	16	32	42	67	136	128	180	164	224	200
Total GHG excl. LULUCF	56	88	109	141	207	198	253	237	299	276
Total GHG incl. LULUCF	87	116	127	160	225	216	271	255	317	294

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	156%	194%	252%	368%	353%	450%	421%	533%	491%
Relative 2000	64%	100%	124%	161%	236%	226%	289%	270%	341%	314%
Relative 2005	52%	81%	100%	130%	190%	182%	232%	218%	275%	253%
Relative 2010	40%	62%	77%	100%	146%	140%	179%	167%	212%	195%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	106	131	143	152	170	170	179	179	186	186
Per-Capita Emissions (tCO2eq/cap)	0.5	0.7	0.8	0.9	1.2	1.2	1.4	1.3	1.6	1.5
Relative 1990	100%	126%	144%	176%	229%	219%	266%	249%	303%	279%
Relative 2000	79%	100%	114%	140%	182%	174%	212%	198%	240%	221%
Relative 2005	70%	88%	100%	122%	160%	153%	186%	174%	211%	194%
Relative 2010	57%	72%	82%	100%	130%	125%	151%	142%	172%	159%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

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INDC FactSheet

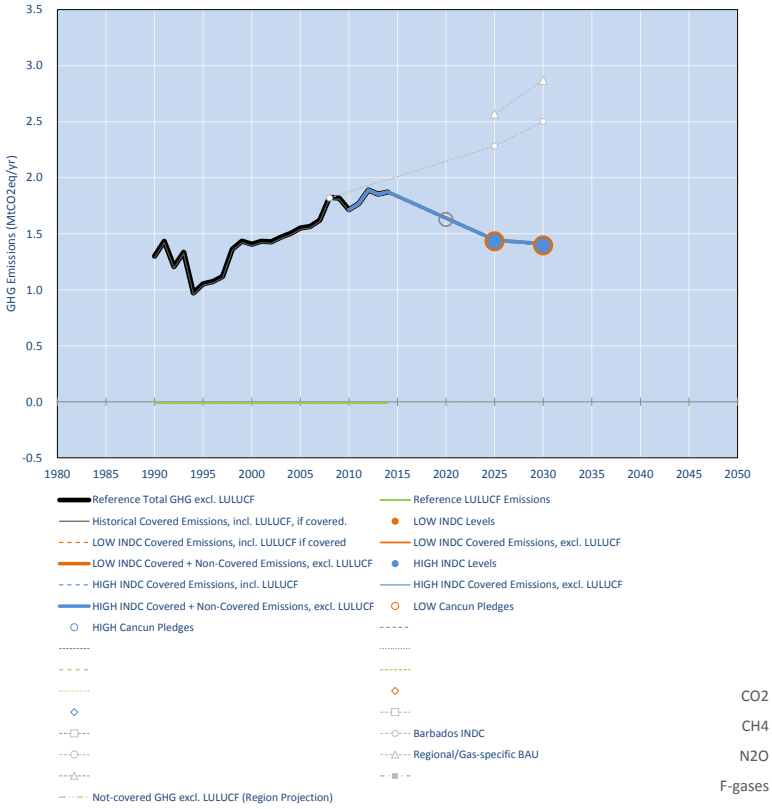
Barbados

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-21%**

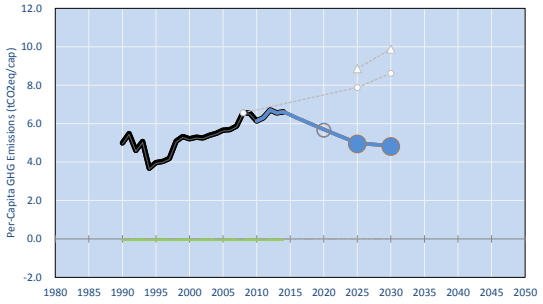
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	-21% rel.2008	-23% rel.2008	Share of World Emissions excl. LULUCF (Rank):	0.0% #169	0.0% #171	0.0% #172
			Per-Capita Emissions (tCO2eq/cap)	6.1t #77	5t #96	4.9t #97

INDC: Reduction of GHG emissions of 44% compared to BAU by 2030 which translates to 23% reduction from 2008 levels. (2006 IPCC Guidelines)

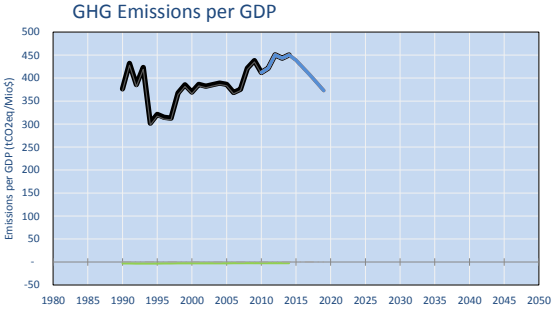
GHG Emissions



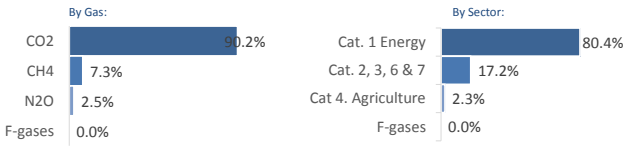
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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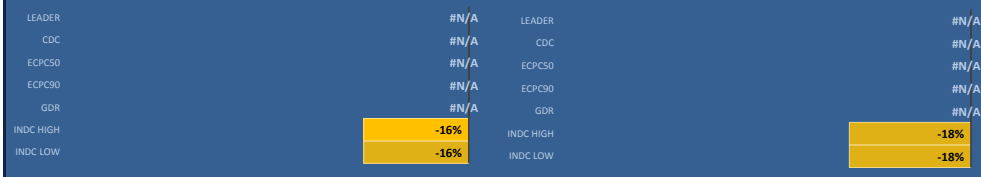

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2008 INDC: -21%; CDC:-46%; ECPC50:-46%; ECPC90:-46%; GDR:-33% — 2030 rel. 2008 INDC: -23%; CDC:-50%; ECPC50:-50%; ECPC90:-50%; GDR:-39%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	0	0	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF	1	1	2	2	2	2	1	1	1	1
Total GHG excl. LULUCF	1	1	2	2	2	2	1	1	1	1
Total GHG incl. LULUCF	1	1	2	2	2	2	1	1	1	1

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	108%	119%	132%	126%	126%	111%	111%	108%	108%
Relative 2000	92%	100%	110%	122%	117%	117%	103%	103%	100%	100%
Relative 2005	84%	91%	100%	111%	106%	106%	93%	93%	91%	91%
Relative 2010	76%	82%	90%	100%	96%	96%	84%	84%	82%	82%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	5.0	5.2	5.7	6.1	5.7	5.7	5.0	5.0	4.9	4.9
Relative 1990	100%	104%	113%	123%	114%	114%	100%	100%	97%	97%
Relative 2000	96%	100%	109%	118%	109%	109%	96%	96%	93%	93%
Relative 2005	88%	92%	100%	108%	101%	101%	88%	88%	86%	86%
Relative 2010	81%	85%	92%	100%	93%	93%	81%	81%	79%	79%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

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INDC FactSheet

Belarus

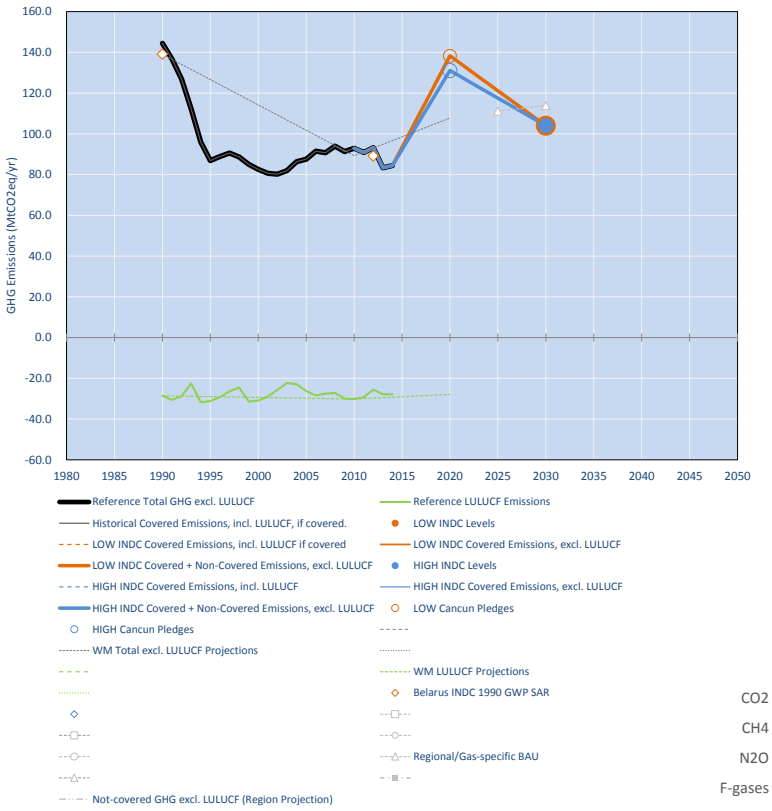
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +18%

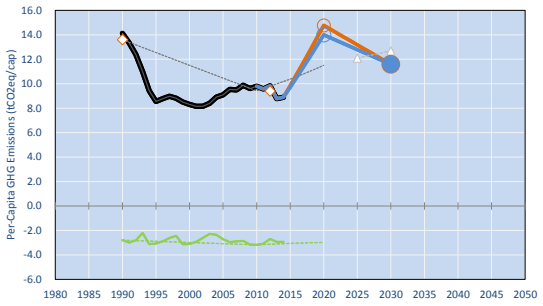
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-5% rel. 1990		-28% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.2% #55	0.2% #56	0.2% #58
-10% rel. 1990		-28% rel.1990	Per-Capita Emissions (tCO2eq/cap)	9.8t #43	13t #23	11.6t #27

INDC: Reduce greenhouse gas emissions by at least 28% of 1990 levels by 2030. (GWP SAR)

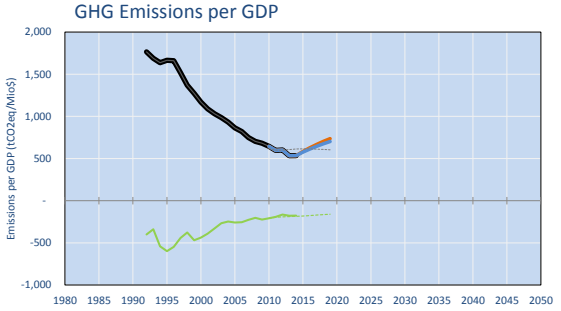
GHG Emissions



Per-Capita Emissions



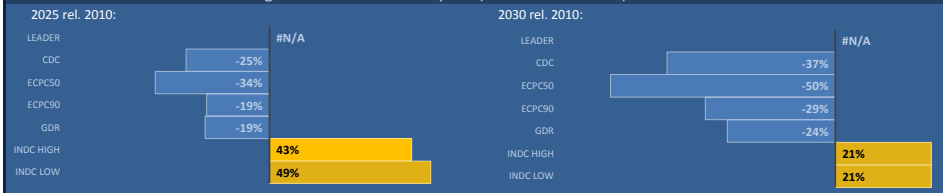
GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -19 to -23%; CDC:-59%; ECPC50:-64%; ECPC90:-56%; GDR:-56%

2030 rel. 1990 INDC: -34%; CDC:-66%; ECPC50:-73%; ECPC90:-61%; GDR:-59%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-	1	-	1		
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	144	83	88	93	138	131	121	118	104	104
Total GHG excl. LULUCF	144	83	88	93	138	131	121	118	104	104
Total GHG incl. LULUCF	116	52	61	63	110	103	93	90	76	76

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	57%	61%	64%	96%	91%	84%	81%	72%	72%
Relative 2000	175%	100%	106%	113%	167%	159%	147%	142%	126%	126%
Relative 2005	165%	94%	100%	106%	158%	150%	138%	134%	119%	119%
Relative 2010	155%	89%	94%	100%	149%	141%	130%	126%	112%	112%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	10	10	9	9	9	9	9	9	9
Per-Capita Emissions (tCO2eq/cap)	14.1	8.3	9.1	9.8	14.8	14.0	13.2	12.8	11.6	11.6
Relative 1990	100%	59%	64%	69%	105%	99%	93%	91%	82%	82%
Relative 2000	170%	100%	109%	118%	178%	169%	159%	154%	140%	140%
Relative 2005	155%	91%	100%	108%	163%	154%	145%	141%	128%	128%
Relative 2010	144%	85%	93%	100%	151%	143%	135%	131%	118%	118%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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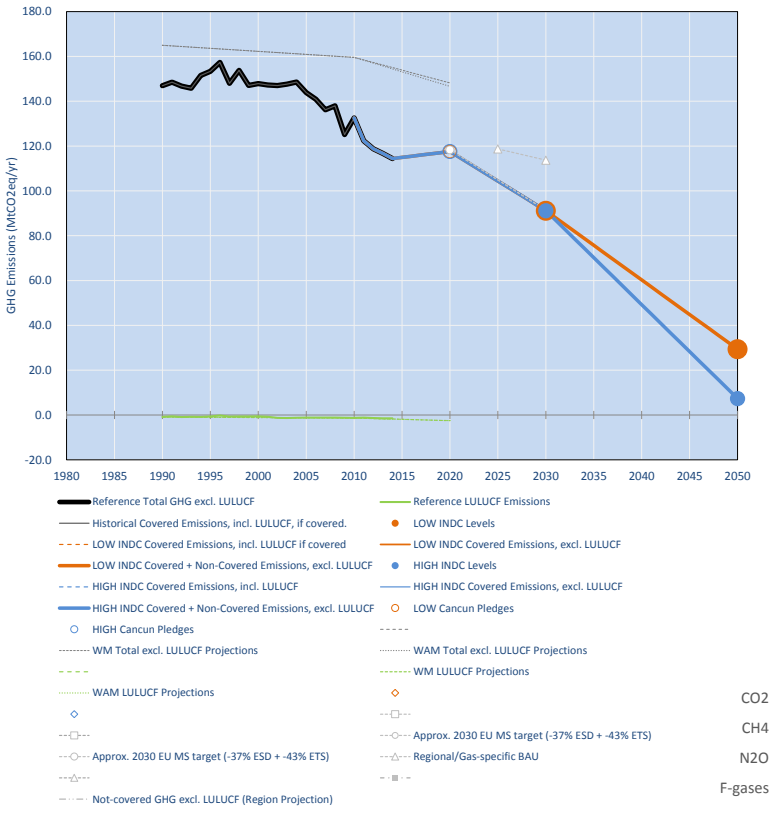
INDC FactSheet

Belgium

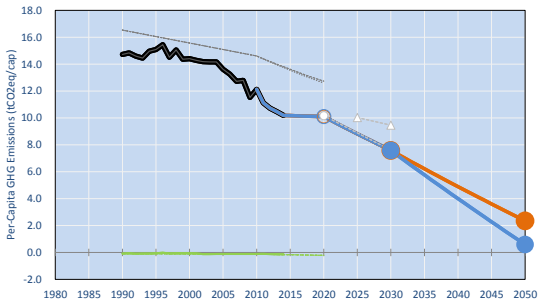
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -37%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.3% #45	0.2% #61	0.2% #66
			Per-Capita Emissions (tCO2eq/cap)	12.1t #26	8.8t #43	7.6t #53

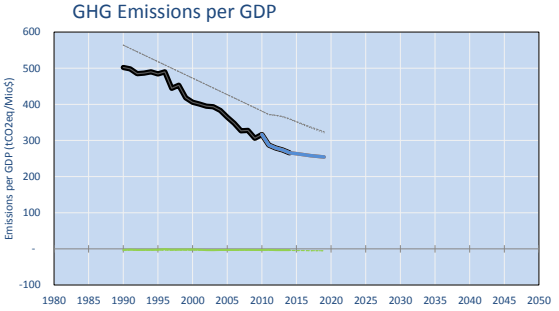
GHG Emissions



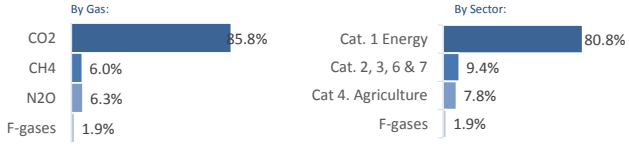
Per-Capita Emissions



GHG Emissions per GDP

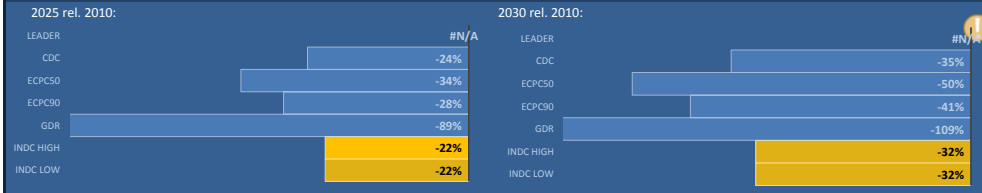


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					1	1	0			
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	147	148	144	133	118	118	104	104	91	91
Total GHG excl. LULUCF	147	148	144	133	118	118	104	104	91	91
Total GHG incl. LULUCF	146	147	143	131	115	115	103	103	90	90

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	101%	98%	90%	80%	80%	71%	71%	62%	62%
Relative 2000	99%	100%	97%	90%	80%	80%	71%	71%	62%	62%
Relative 2005	102%	103%	100%	92%	82%	82%	73%	73%	63%	63%
Relative 2010	111%	112%	109%	100%	89%	89%	79%	79%	69%	69%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	10	11	11	12	12	12	12	12	12
Per-Capita Emissions (tCO2eq/cap)	14.7	14.4	13.6	12.1	10.1	10.1	8.8	8.8	7.6	7.6
Relative 1990	100%	98%	93%	82%	69%	69%	60%	60%	52%	52%
Relative 2000	102%	100%	95%	84%	70%	70%	61%	61%	53%	53%
Relative 2005	108%	106%	100%	89%	74%	74%	65%	65%	56%	56%
Relative 2010	121%	119%	112%	100%	83%	83%	73%	73%	63%	63%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al.; www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Policies and Measures. Not quantified.

INDC FactSheet

Belize

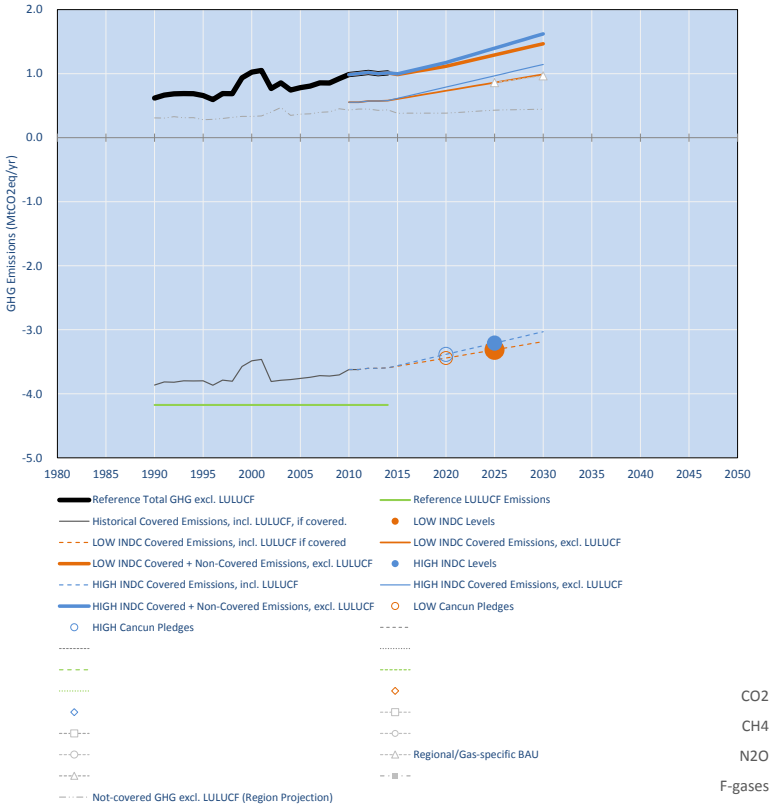
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +7%

Cancun 2020 | INDC 2025 | INDC 2030

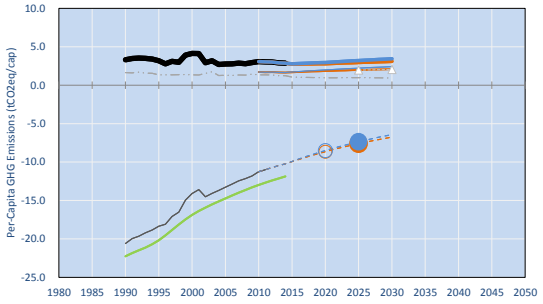
	2010	World Rank	2025	World Rank	2030	World Rank
Share of World Emissions excl. LULUCF (Rank):	0.0%	#172	0.0%	#172	0.0%	#171
Per-Capita Emissions (tCO2eq/cap)	3.1t	#124	3.1t	#125	3.3t	#122

INDC: Action-based approach such national REDD+ strategy, reductions of GHG emissions in transport sector and others pending on support. (n/a (only CO2))

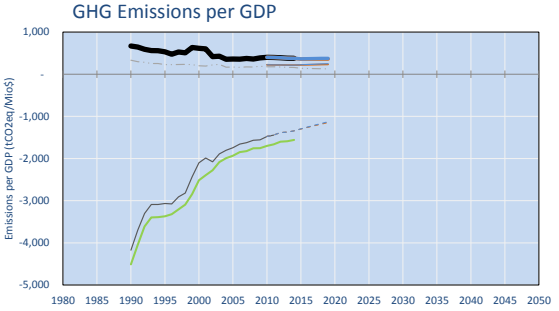
GHG Emissions



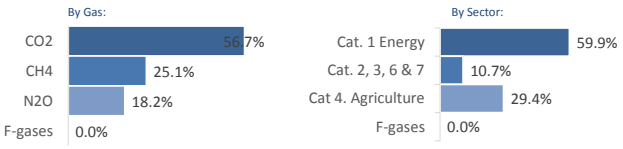
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-4	-4	-4	-4	-4	-4	-4	-4	-4	-4
INDC covered Emissions excl. LULUCF	0	1	0	1	1	1	1	1	1	1
Total GHG excl. LULUCF	1	1	1	1	1	1	1	1	1	2
Total GHG incl. LULUCF	-4	-3	-3	-3	-3	-3	-3	-3	-3	-3

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	165%	126%	159%	180%	189%	208%	226%	237%	262%
Relative 2000	61%	100%	77%	96%	109%	115%	126%	137%	143%	159%
Relative 2005	79%	131%	100%	126%	143%	150%	165%	179%	187%	207%
Relative 2010	63%	104%	79%	100%	113%	119%	131%	142%	149%	164%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	3.3	4.1	2.8	3.1	2.8	2.9	3.0	3.2	3.1	3.4
Relative 1990	100%	125%	84%	93%	85%	89%	90%	97%	94%	104%
Relative 2000	80%	100%	67%	74%	68%	71%	72%	78%	75%	83%
Relative 2005	120%	150%	100%	111%	102%	107%	107%	116%	113%	124%
Relative 2010	108%	135%	90%	100%	91%	96%	97%	105%	101%	112%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

historical emission differences

INDC FactSheet

Benin

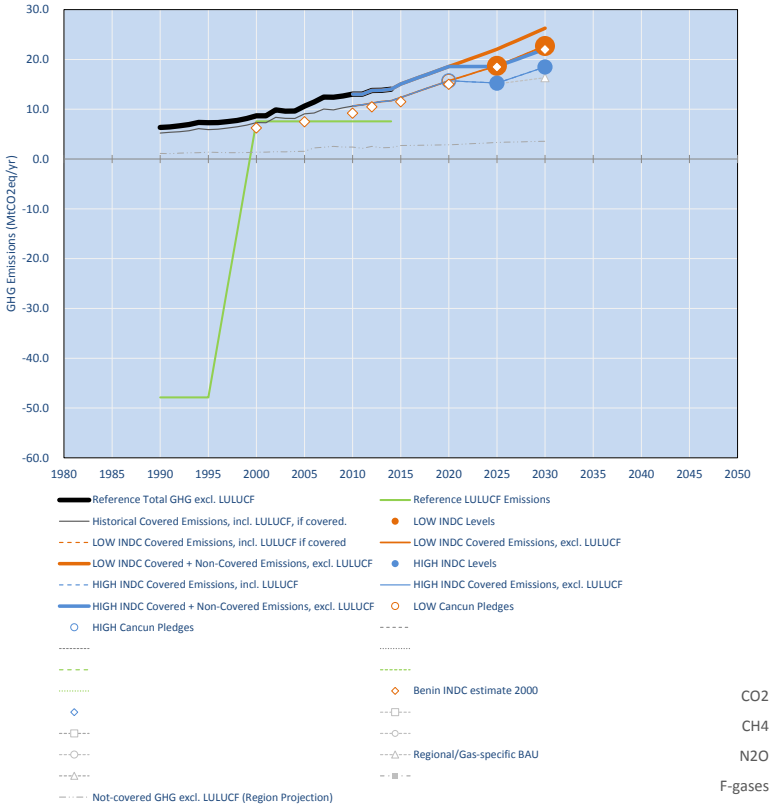
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+13%**

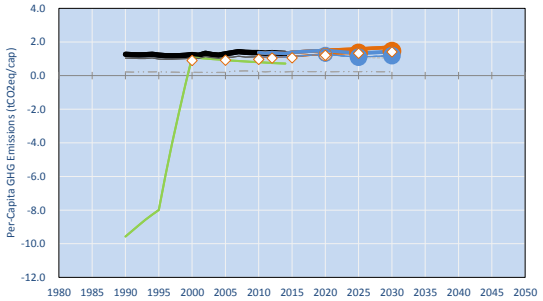
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
0% rel. BAU of 15	-4% rel. BAU of 18.5 Mt -21% rel. BAU of 18.5 Mt(cond.)	-4% rel. BAU of 23 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #130	0.0% #123	0.0% #122
0% rel. BAU of 15		-21% rel. BAU of 23 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.4t #171	1.5t #169	1.5t #167

INDC: Benin puts forward a series of mitigation policies and efforts. . (GWP SAR)

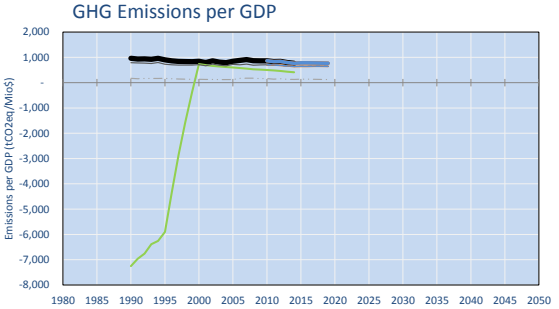
GHG Emissions



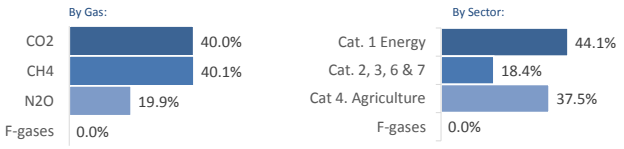
Per-Capita Emissions



GHG Emissions per GDP

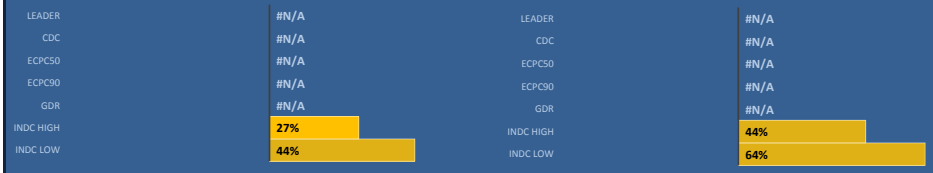


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	5	7	9	11	16	16	19	15	23	18
Total GHG excl. LULUCF	6	9	11	13	19	19	22	19	26	22
Total GHG incl. LULUCF	- 42	16	18	21	26	26	30	26	34	30

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	137%	168%	206%	293%	293%	348%	293%	415%	348%
Relative 2000	73%	100%	122%	150%	214%	214%	254%	214%	303%	254%
Relative 2005	60%	82%	100%	123%	175%	175%	208%	175%	247%	208%
Relative 2010	49%	67%	81%	100%	142%	142%	169%	142%	202%	169%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	5	7	8	10	12	12	14	14	16	16
Per-Capita Emissions (tCO2eq/cap)	1.3	1.2	1.3	1.4	1.5	1.5	1.6	1.3	1.7	1.4
Relative 1990	100%	99%	102%	108%	119%	119%	125%	105%	133%	112%
Relative 2000	101%	100%	104%	110%	120%	120%	127%	107%	135%	113%
Relative 2005	98%	96%	100%	106%	116%	116%	122%	103%	130%	109%
Relative 2010	92%	91%	95%	100%	110%	110%	115%	97%	123%	103%

Data Sources:

Cat1_CO2	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Strong historical emission difference.

INDC FactSheet

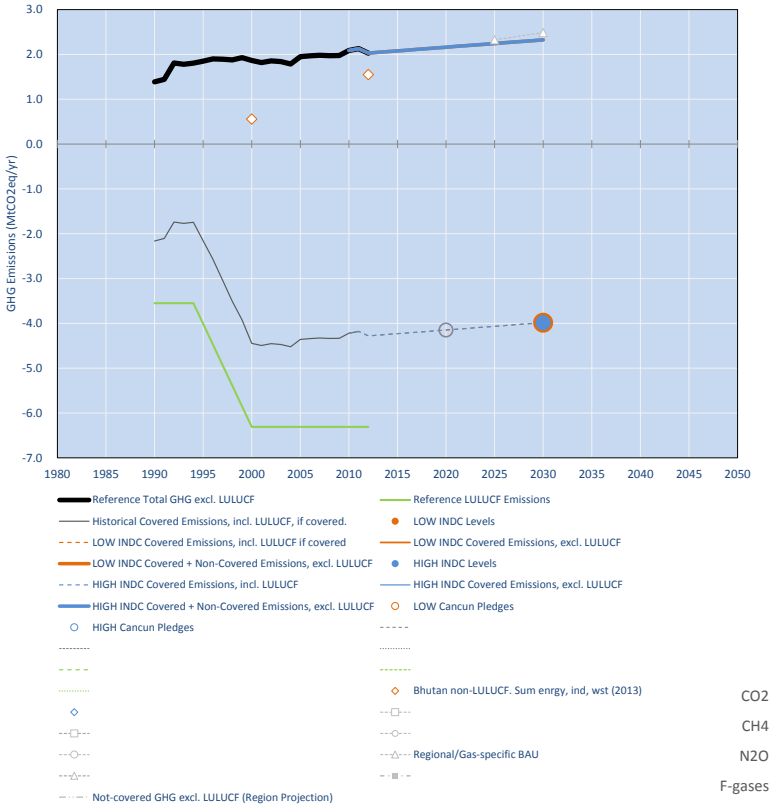
Bhutan

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-10%**

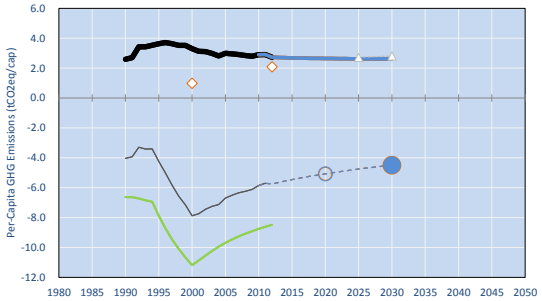
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-4 Mt (Remain Carbon Neutral)	Share of World Emissions excl. LULUCF (Rank):	0.0% #168	0.0% #170	0.0% #168
			Per-Capita Emissions (tCO2eq/cap)	2.9t #127	2.6t #132	2.6t #135

INDC: Commits to developing priority strategies, plans and actions for mitigation to support low emissions development pathway across all sectors to remain carbon neutral. (GWP unclear)

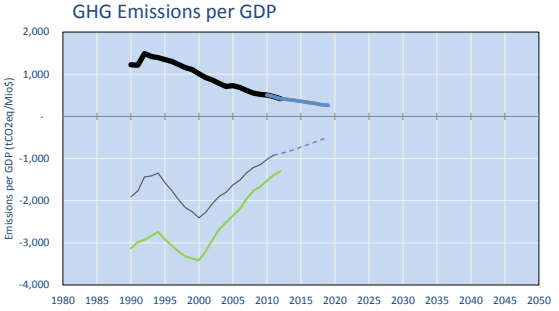
GHG Emissions



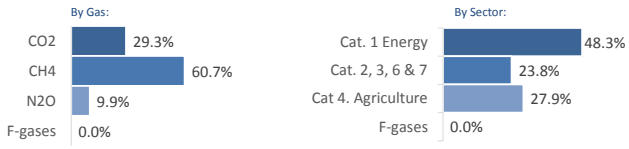
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-4	-6	-6	-6	-6	-6	-6	-6	-6	-6
INDC covered Emissions excl. LULUCF	1	2	2	2	2	2	2	2	2	2
Total GHG excl. LULUCF	1	2	2	2	2	2	2	2	2	2
Total GHG incl. LULUCF	-2	-4	-4	-4	-4	-4	-4	-4	-4	-4

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	134%	141%	151%	156%	156%	162%	162%	168%	168%
Relative 2000	74%	100%	105%	112%	116%	116%	120%	120%	125%	125%
Relative 2005	71%	96%	100%	107%	111%	111%	115%	115%	119%	119%
Relative 2010	66%	89%	93%	100%	103%	103%	107%	107%	111%	111%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	2.6	3.3	3.0	2.9	2.6	2.6	2.6	2.6	2.6	2.6
Relative 1990	100%	128%	116%	112%	102%	102%	101%	101%	101%	101%
Relative 2000	78%	100%	91%	88%	80%	80%	79%	79%	79%	79%
Relative 2005	87%	110%	100%	97%	88%	88%	88%	88%	88%	88%
Relative 2010	89%	114%	103%	100%	91%	91%	90%	90%	90%	90%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | Policies and Measures not quantified. BAU plotted instead. | INDC FactSheet

Bolivia (Plurinational State of)

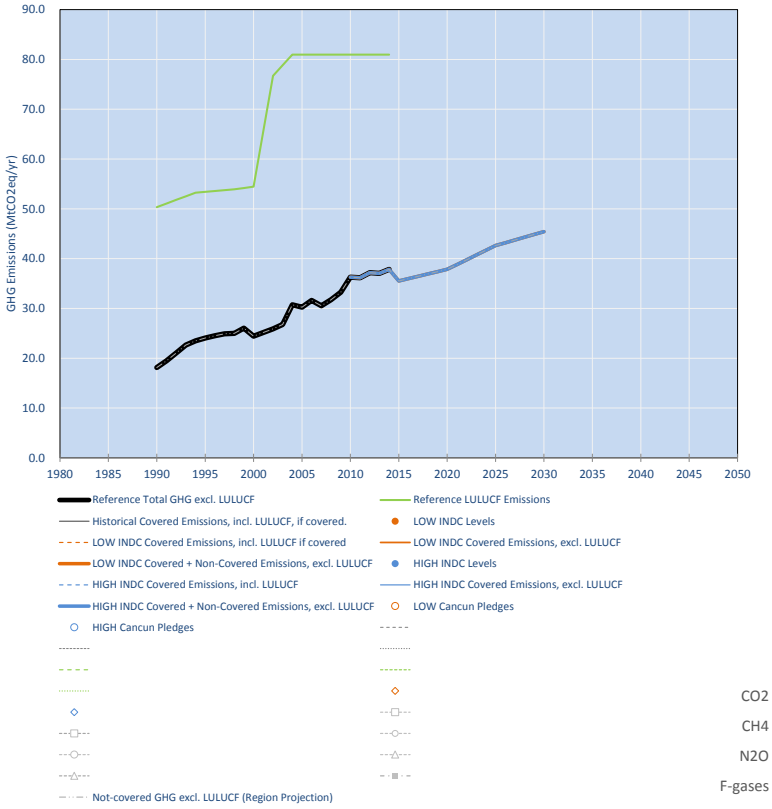
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -6%

Cancun 2020 | INDC 2025 | INDC 2030

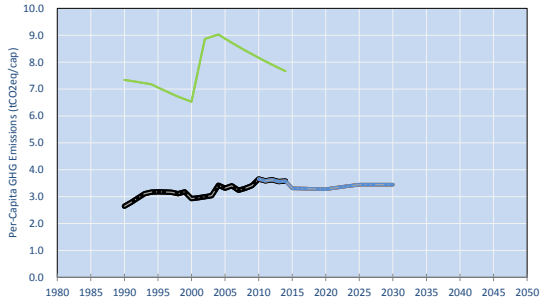
	2010 World Rank	2025 World Rank	2030 World Rank
Share of World Emissions excl. LULUCF (Rank):	0.1% #91	0.1% #98	0.1% #99
Per-Capita Emissions (tCO2eq/cap)	3.7t #109	3.4t #115	3.4t #118

INDC: Policies and measures in the water, energy and forestry sectors. Conditional. Proposed framework for climate justice. . (GWP unclear)

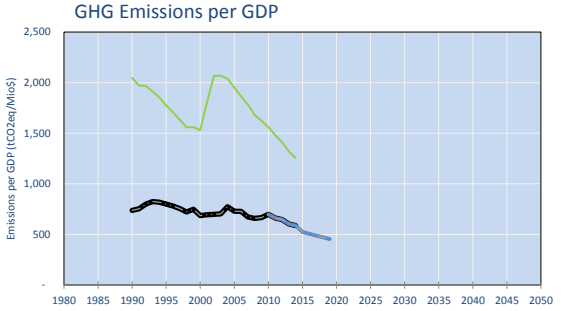
GHG Emissions



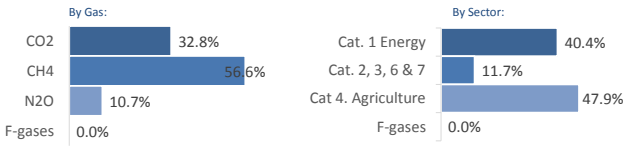
Per-Capita Emissions



GHG Emissions per GDP

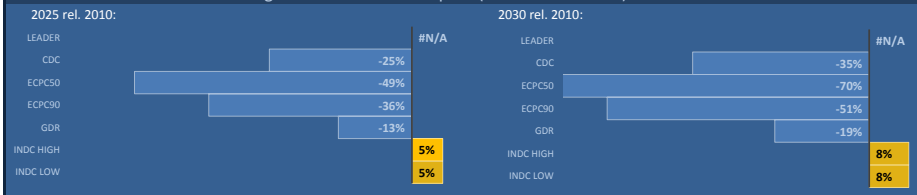


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	-	-	-	-	-	-	-	-	-	-
Total GHG excl. LULUCF	18	24	30	36	38	38	43	43	45	45
Total GHG incl. LULUCF	68	79	111	117	119	119	124	124	126	126

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	135%	167%	200%	209%	209%	235%	235%	250%	250%
Relative 2000	74%	100%	124%	149%	155%	155%	175%	175%	186%	186%
Relative 2005	60%	81%	100%	120%	125%	125%	141%	141%	150%	150%
Relative 2010	50%	67%	83%	100%	104%	104%	118%	118%	125%	125%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	7	8	9	10	12	12	12	12	13	13
Per-Capita Emissions (tCO2eq/cap)	2.6	2.9	3.3	3.7	3.3	3.3	3.4	3.4	3.4	3.4
Relative 1990	100%	111%	125%	138%	124%	124%	130%	130%	130%	130%
Relative 2000	90%	100%	113%	125%	112%	112%	118%	118%	118%	118%
Relative 2005	80%	88%	100%	110%	99%	99%	104%	104%	104%	104%
Relative 2010	72%	80%	91%	100%	90%	90%	94%	94%	94%	94%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Mismatch historical emissions data.

INDC FactSheet

Bosnia and Herzegovina

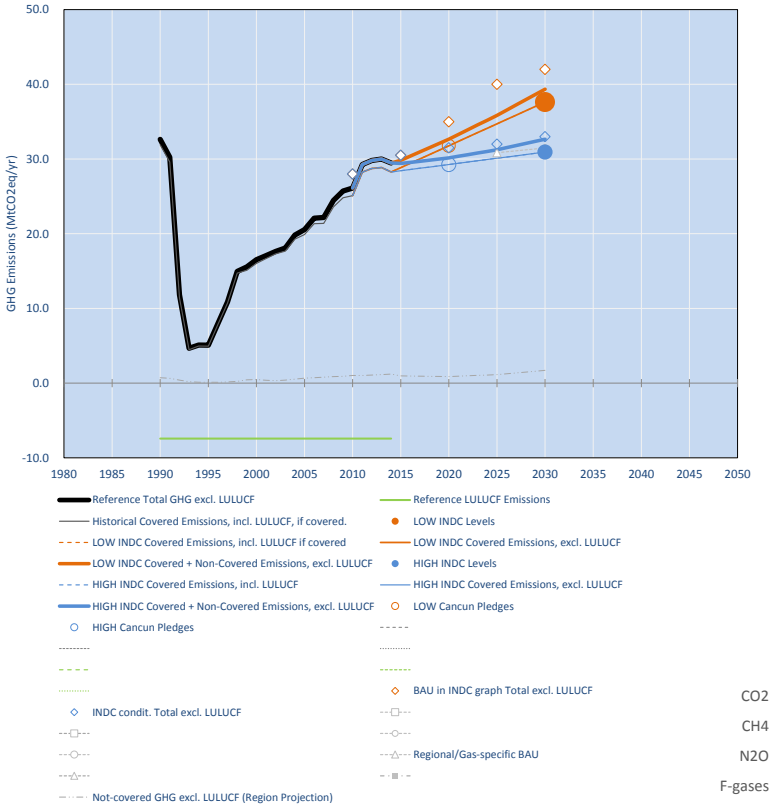
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+48%**

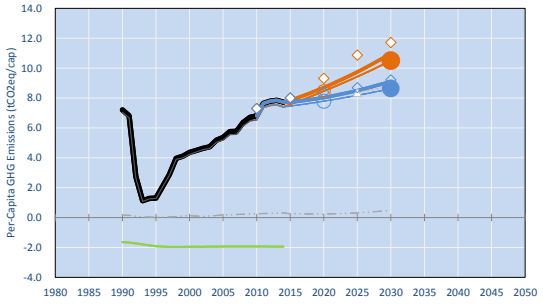
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		18% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.1% #109	0.1% #109	0.1% #107
		-3% rel.1990(cond.)	Per-Capita Emissions (tCO2eq/cap)	6.8t #71	9.1t #40	10t #32

INDC: 18% above 1990 levels unconditional vs. 20% above 1990 BAU. Conditionally: -3% reduction by 2030 below 1990. . ()

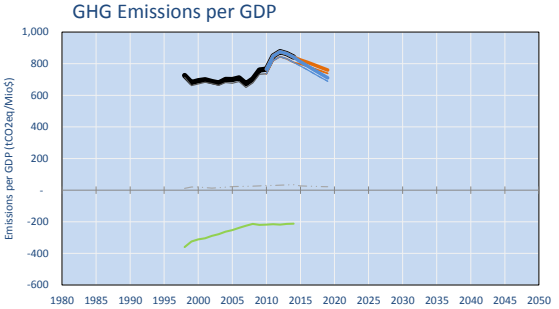
GHG Emissions



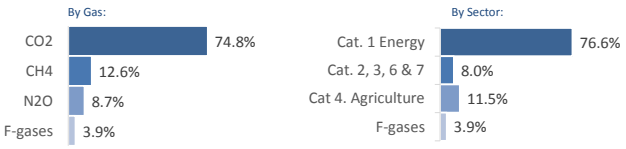
Per-Capita Emissions



GHG Emissions per GDP

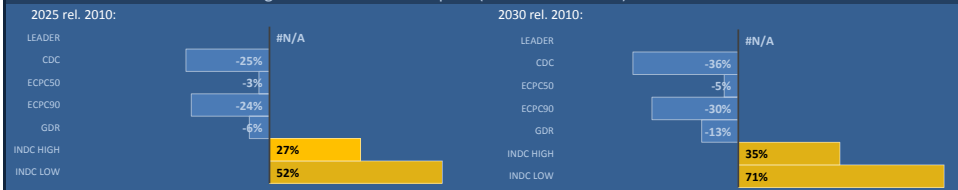


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: 13 to -6%; CDC:-44%; ECPC50:-28%; ECPC90:-43%; GDR:-30%

2030 rel. 1990 INDC: 27 to 0%; CDC:-53%; ECPC50:-29%; ECPC90:-48%; GDR:-35%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	32	16	20	25	32	29	35	30	38	31
Total GHG excl. LULUCF	33	17	21	26	33	30	36	31	39	33
Total GHG incl. LULUCF	25	9	13	19	25	23	28	24	32	25

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	51%	63%	80%	100%	92%	110%	96%	121%	100%
Relative 2000	198%	100%	124%	158%	198%	183%	217%	189%	238%	198%
Relative 2005	159%	80%	100%	127%	159%	147%	174%	152%	191%	159%
Relative 2010	125%	63%	79%	100%	125%	115%	137%	120%	151%	125%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	4	4	4	4	4	4	4	4	4
Per-Capita Emissions (tCO2eq/cap)	7.2	4.4	5.4	6.8	8.7	8.0	9.7	8.5	11.0	9.1
Relative 1990	100%	60%	74%	94%	121%	111%	135%	118%	152%	126%
Relative 2000	165%	100%	123%	156%	200%	184%	224%	195%	252%	209%
Relative 2005	134%	81%	100%	127%	162%	150%	182%	158%	205%	170%
Relative 2010	106%	64%	79%	100%	128%	118%	143%	125%	161%	134%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
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PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Slight difference in historical emissions

INDC FactSheet

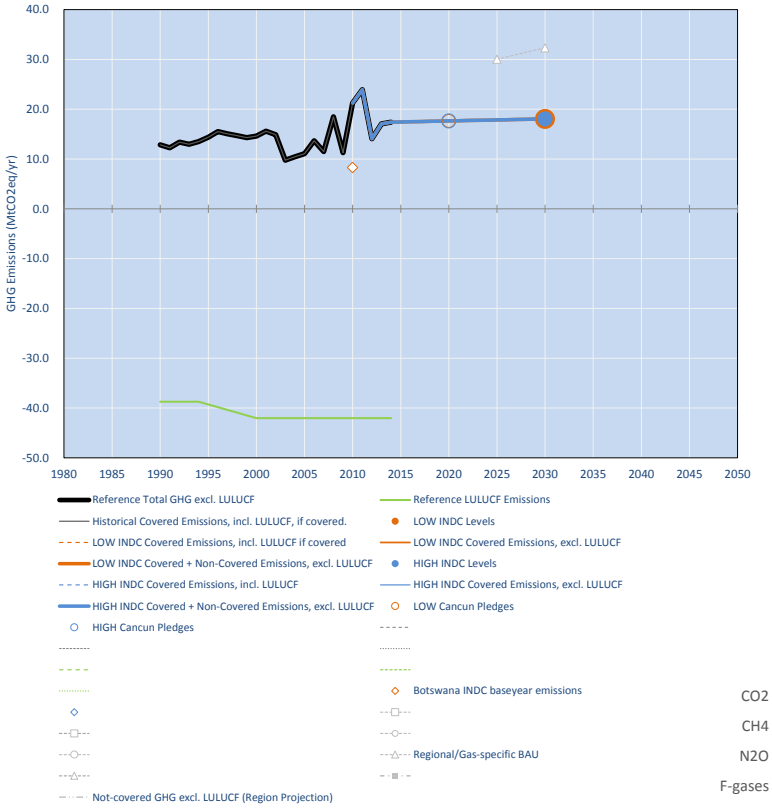
Botswana

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -38%

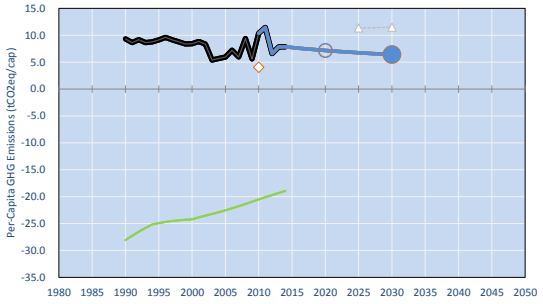
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-15% rel.2010	Share of World Emissions excl. LULUCF (Rank):	0.0% #116	0.0% #131	0.0% #131
			Per-Capita Emissions (tCO2eq/cap)	10.4t #36	6.7t #68	6.4t #70

INDC: 10% GHG emission reduction compared to BAU levels by 2030Conditional target: additional 10% reduction pending on international support. (GWP unclear)

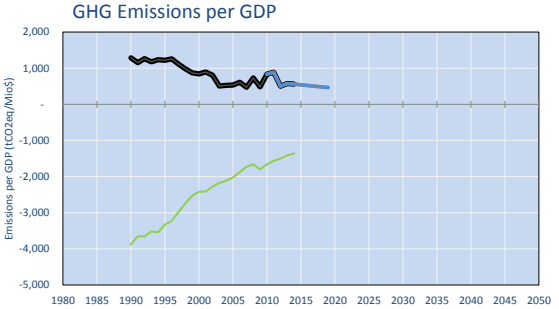
GHG Emissions



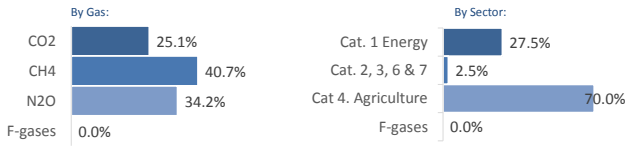
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

Total incl. LULUCF: 2025 rel. 2010 INDC: 16%; CDC:14%; ECPC50:-42%; ECPC90:-3%; GDR:-5%

2030 rel. 2010 INDC: 15%; CDC:2%; ECPC50:-64%; ECPC90:-6%; GDR:-21%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	13	15	11	21	18	18	18	18	18	18
Total GHG excl. LULUCF	13	15	11	21	18	18	18	18	18	18
Total GHG incl. LULUCF	- 26	- 27	- 31	- 21	- 24	- 24	- 24	- 24	- 24	- 24

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	114%	86%	165%	137%	137%	139%	139%	140%	140%
Relative 2000	88%	100%	76%	145%	121%	121%	122%	122%	124%	124%
Relative 2005	116%	132%	100%	192%	159%	159%	161%	161%	163%	163%
Relative 2010	61%	69%	52%	100%	83%	83%	84%	84%	85%	85%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	2	2	2	2	2	3	3	3	3
Per-Capita Emissions (tCO2eq/cap)	9.3	8.4	5.9	10.4	7.2	7.2	6.7	6.7	6.4	6.4
Relative 1990	100%	90%	64%	111%	77%	77%	72%	72%	69%	69%
Relative 2000	111%	100%	71%	123%	85%	85%	80%	80%	76%	76%
Relative 2005	157%	142%	100%	175%	121%	121%	114%	114%	108%	108%
Relative 2010	90%	81%	57%	100%	69%	69%	65%	65%	62%	62%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Brazil

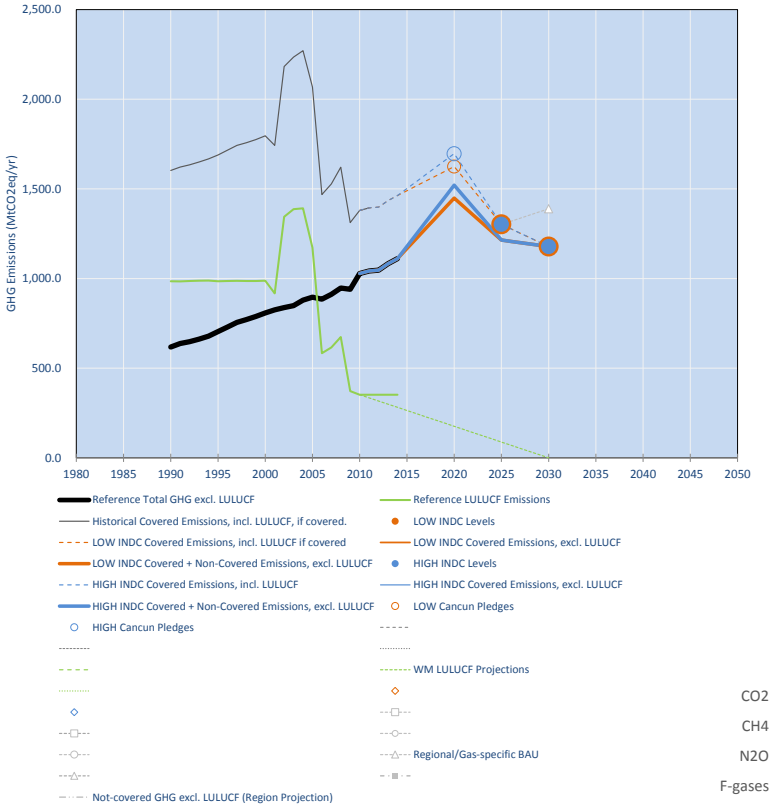
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-0%**

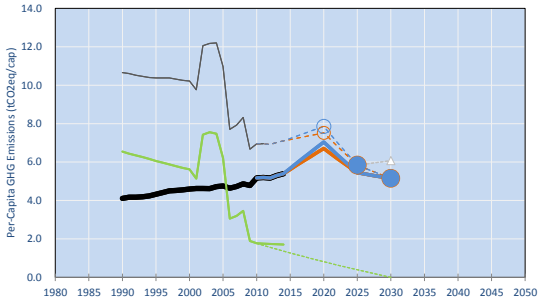
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-39% rel. BAU of 2701.8	-37% rel.2005	-43% rel.2005	Share of World Emissions excl. LULUCF (Rank):	2.2% #7	2.2% #6	2.1% #8
-36% rel. BAU of 2698.1	-37% rel.2005	-43% rel.2005	Per-Capita Emissions (tCO2eq/cap)	5.2t #88	5.4t #85	5.2t #91

INDC: Committed to reduce GHG emissions by 36% below 2005 levels in 2025Indicative target for 2030 43% reduction below 2005 levels. (GWP AR5)

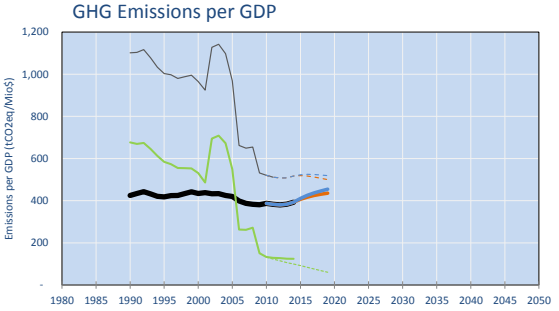
GHG Emissions



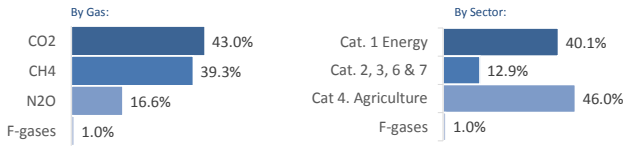
Per-Capita Emissions



GHG Emissions per GDP

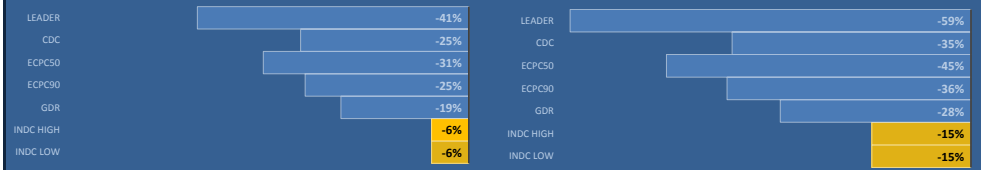


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2005 INDC: -37%; Leader:-61%; CDC:-50%; ECPC50:-54%; ECPC90:-50%; GDR:-46% | 2030 rel. 2005 INDC: -43%; Leader:-73%; CDC:-57%; ECPC50:-63%; ECPC90:-57%; GDR:-52%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	985	988	1,171	352	176	176	88	88	0	0
INDC covered Emissions excl. LULUCF	618	808	896	1,028	1,449	1,521	1,215	1,215	1,179	1,179
Total GHG excl. LULUCF	618	808	896	1,028	1,449	1,521	1,215	1,215	1,179	1,179
Total GHG incl. LULUCF	1,603	1,796	2,068	1,380	1,625	1,697	1,303	1,303	1,179	1,179

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	131%	145%	166%	234%	246%	197%	197%	191%	191%
Relative 2000	77%	100%	111%	127%	179%	188%	150%	150%	146%	146%
Relative 2005	69%	90%	100%	115%	162%	170%	136%	136%	131%	131%
Relative 2010	60%	79%	87%	100%	141%	148%	118%	118%	115%	115%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	150	176	188	199	216	216	223	223	229	229
Per-Capita Emissions (tCO2eq/cap)	4.1	4.6	4.8	5.2	6.7	7.0	5.4	5.4	5.2	5.2
Relative 1990	100%	112%	116%	126%	163%	171%	133%	133%	125%	125%
Relative 2000	89%	100%	103%	113%	146%	153%	119%	119%	112%	112%
Relative 2005	86%	97%	100%	109%	141%	148%	115%	115%	108%	108%
Relative 2010	79%	89%	92%	100%	130%	136%	105%	105%	100%	100%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisB_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	COUNTRY-SPECIFIC USER DATA
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

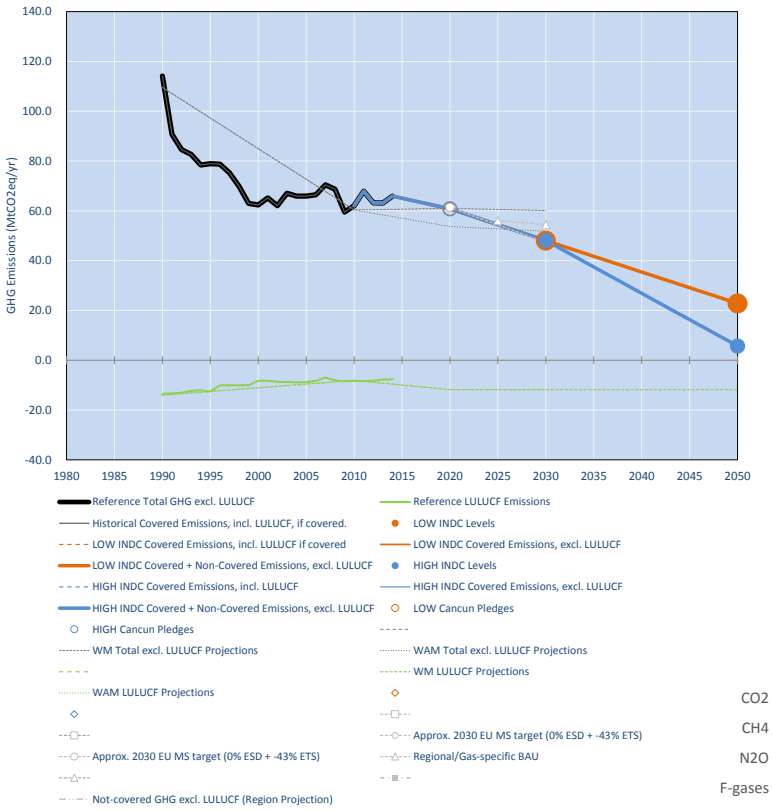
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Bulgaria

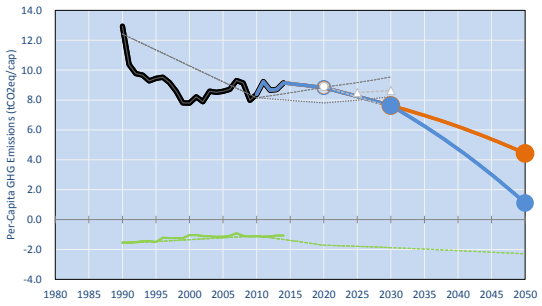
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-9%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.1% #75	0.1% #89	0.1% #96
			Per-Capita Emissions (tCO2eq/cap)	8.4t #55	8.2t #50	7.6t #52

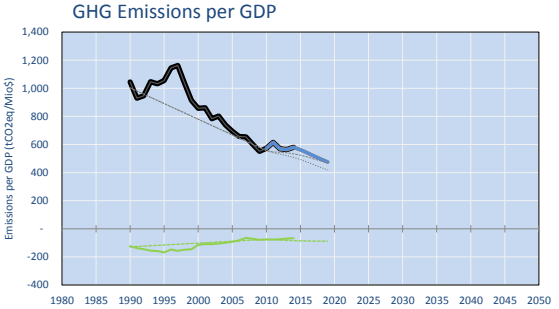
GHG Emissions



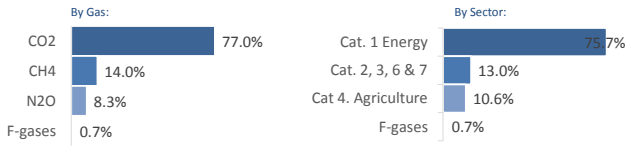
Per-Capita Emissions



GHG Emissions per GDP

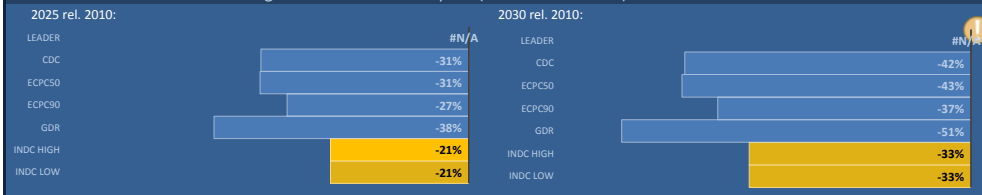


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					1	1	1	1	1	1
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	114	62	66	62	61	61	54	54	48	48
Total GHG excl. LULUCF	114	62	66	62	61	61	54	54	48	48
Total GHG incl. LULUCF	101	54	57	54	49	49	43	43	36	36

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	55%	58%	54%	53%	53%	48%	48%	42%	42%
Relative 2000	183%	100%	106%	100%	98%	98%	87%	87%	77%	77%
Relative 2005	173%	95%	100%	94%	92%	92%	83%	83%	73%	73%
Relative 2010	184%	100%	106%	100%	98%	98%	88%	88%	77%	77%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	9	8	8	7	7	7	7	7	6	6
Per-Capita Emissions (tCO2eq/cap)	12.9	7.8	8.6	8.4	8.8	8.8	8.2	8.2	7.6	7.6
Relative 1990	100%	60%	66%	65%	68%	68%	64%	64%	59%	59%
Relative 2000	166%	100%	110%	108%	113%	113%	106%	106%	98%	98%
Relative 2005	151%	91%	100%	98%	103%	103%	96%	96%	89%	89%
Relative 2010	154%	93%	102%	100%	105%	105%	98%	98%	91%	91%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Burkina Faso

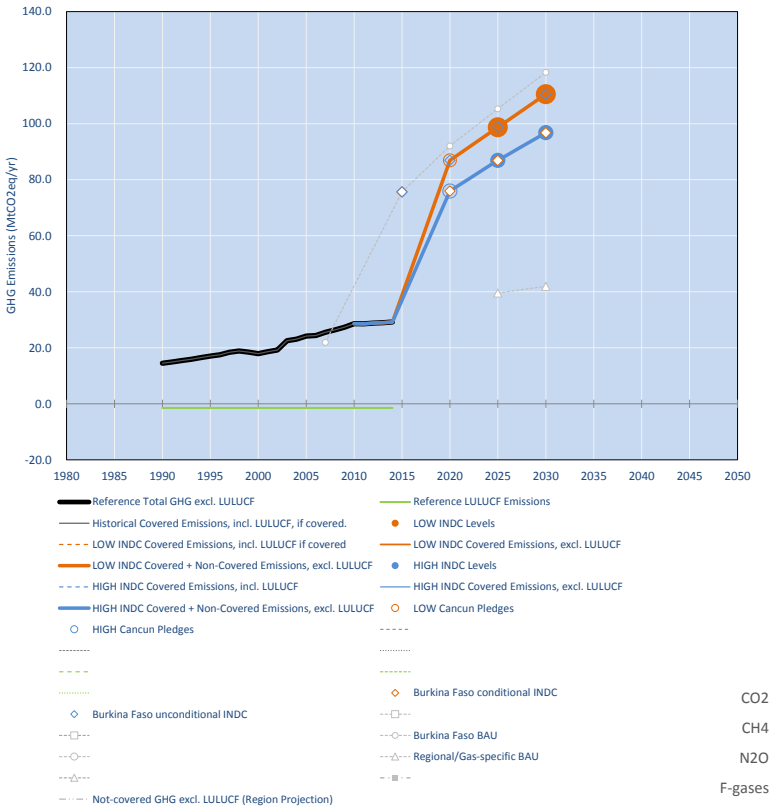
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+108%**

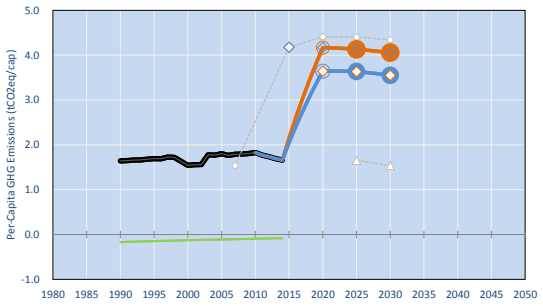
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-6% rel. BAU of 92.1	-6% rel. BAU of 105.3 Mt	-7% rel. BAU of 118 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #103	0.2% #63	0.2% #60
-17% rel. BAU of 92.1	-17% rel. BAU of 105.3 Mt	-18% rel. BAU of 118 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.8t #155	3.9t #113	3.8t #112

INDC: 6.6% emission reduction compared to BAU by 2030Conditional target: 11.6% subject to international support. (GWP unclear)

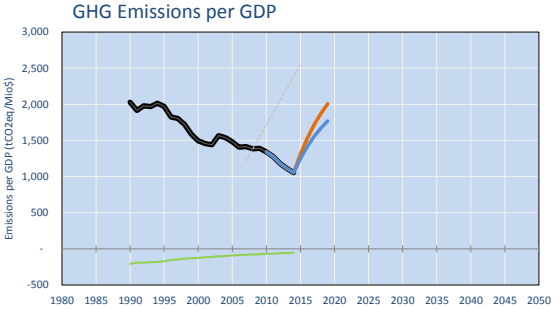
GHG Emissions



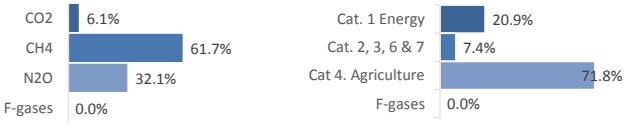
Per-Capita Emissions



GHG Emissions per GDP

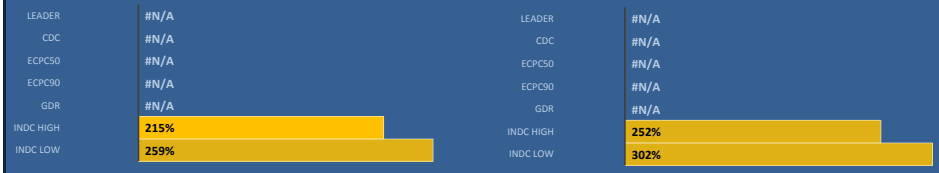


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	14	18	24	29	87	76	99	87	111	97
Total GHG excl. LULUCF	14	18	24	29	87	76	99	87	111	97
Total GHG incl. LULUCF	13	16	23	27	85	74	97	85	109	95

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	124%	167%	198%	601%	525%	682%	601%	764%	669%
Relative 2000	81%	100%	135%	160%	486%	424%	551%	486%	617%	541%
Relative 2005	60%	74%	100%	118%	360%	314%	408%	360%	457%	400%
Relative 2010	51%	63%	85%	100%	304%	266%	345%	304%	387%	339%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	9	12	13	16	21	21	24	24	27	27
Per-Capita Emissions (tCO2eq/cap)	1.6	1.5	1.8	1.8	4.2	3.6	4.1	3.6	4.1	3.6
Relative 1990	100%	94%	110%	111%	254%	222%	251%	221%	247%	216%
Relative 2000	107%	100%	117%	119%	270%	236%	268%	236%	263%	230%
Relative 2005	91%	86%	100%	102%	231%	202%	229%	202%	225%	197%
Relative 2010	90%	84%	98%	100%	228%	199%	226%	199%	222%	194%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
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Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
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Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Strong historical emission difference, if LULUCF included as in INDC.

INDC FactSheet

Burundi

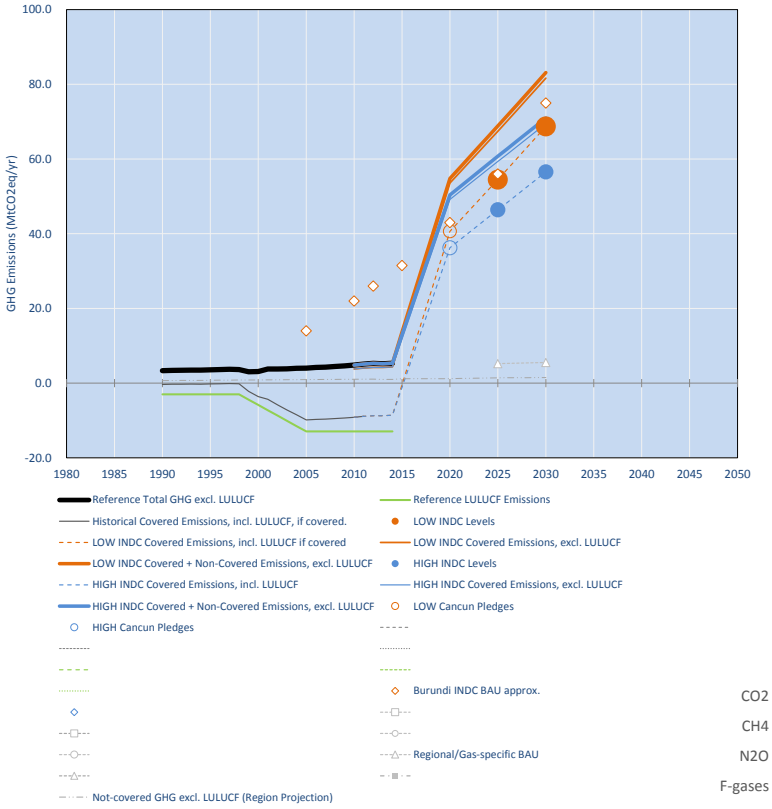
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +769%

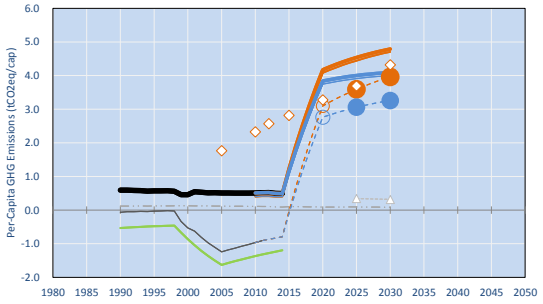
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-1% rel. BAU of 43	-2% rel. BAU of 59 Mt	-3% rel. BAU of 75 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #154	0.1% #80	0.1% #73
-12% rel. BAU of 43	-17% rel. BAU of 59 Mt	-20% rel. BAU of 75 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	0.5t #195	4.3t #105	4.4t #103

INDC: 3% GHG emission sreduction compared to BAU by 2030Conditional targete: 20% emission reduction subject to international support. (GWP SAR)

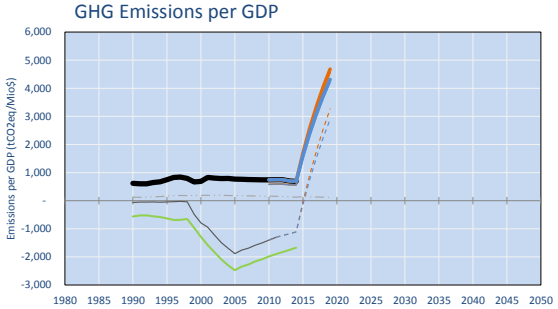
GHG Emissions



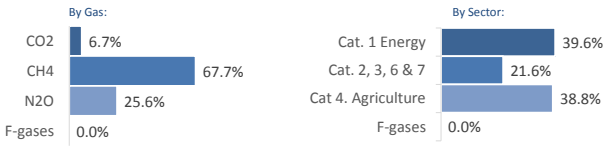
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 3	- 6	- 13	- 13	- 13	- 13	- 13	- 13	- 13	- 13
INDC covered Emissions excl. LULUCF	3	2	3	4	54	49	67	59	82	69
Total GHG excl. LULUCF	3	3	4	5	55	50	69	61	83	71
Total GHG incl. LULUCF	0	- 3	- 9	- 8	42	37	56	48	70	58

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	93%	121%	145%	1647%	1515%	2070%	1827%	2500%	2134%
Relative 2000	107%	100%	130%	156%	1766%	1625%	2220%	1959%	2681%	2288%
Relative 2005	83%	77%	100%	120%	1361%	1252%	1710%	1509%	2066%	1763%
Relative 2010	69%	64%	83%	100%	1134%	1043%	1425%	1257%	1721%	1469%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	6	7	8	9	13	13	15	15	17	17
Per-Capita Emissions (tCO2eq/cap)	0.6	0.5	0.5	0.5	4.2	3.8	4.5	4.0	4.8	4.1
Relative 1990	100%	77%	86%	86%	704%	648%	766%	676%	808%	690%
Relative 2000	129%	100%	111%	111%	911%	838%	990%	873%	1045%	892%
Relative 2005	117%	90%	100%	101%	823%	757%	894%	789%	944%	806%
Relative 2010	116%	90%	99%	100%	817%	752%	888%	784%	938%	801%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Policies and Measures. Not quantified.

INDC FactSheet

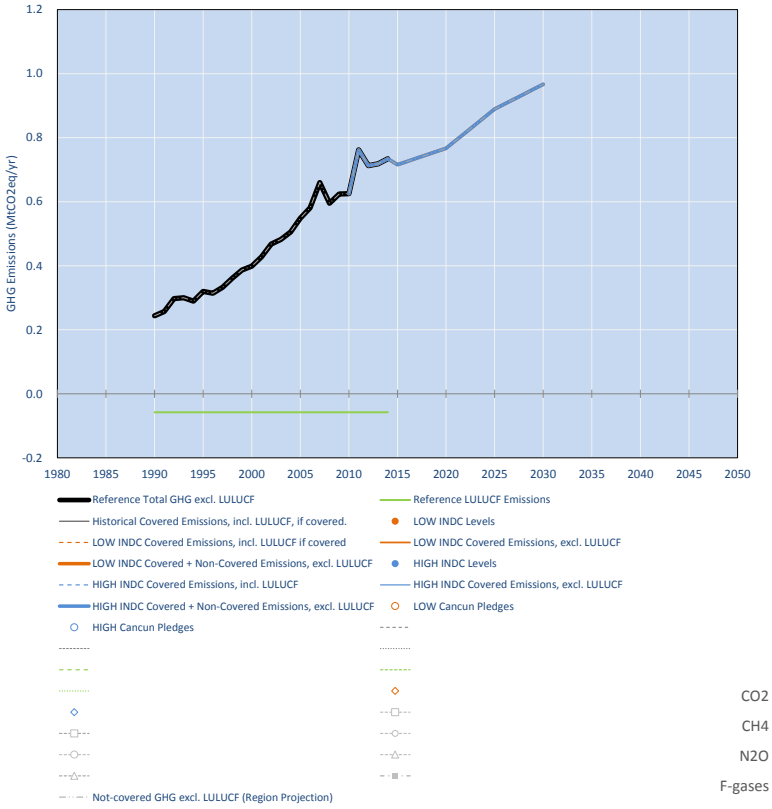
Cabo Verde

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +23%

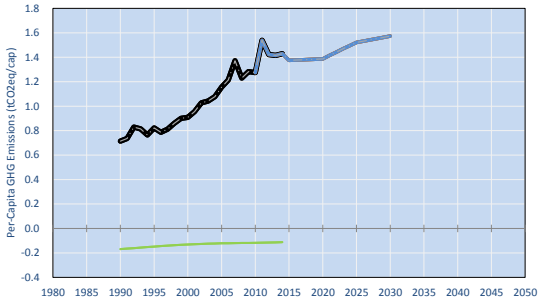
Cancun 2020 | INDC 2025 | INDC 2030

	2010 World Rank	2025 World Rank	2030 World Rank
Share of World Emissions excl. LULUCF (Rank):	0.0% #176	0.0% #175	0.0% #175
Per-Capita Emissions (tCO2eq/cap)	1.3t #176	1.5t #168	1.6t #166

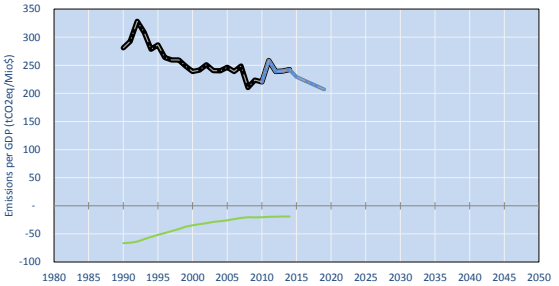
GHG Emissions



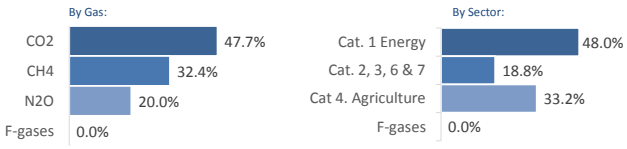
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	47%	60%
INDC LOW	47%	60%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	-	-	-	-	-	-	-	-	-	-
Total GHG excl. LULUCF	0	0	1	1	1	1	1	1	1	1
Total GHG incl. LULUCF	0	0	0	1	1	1	1	1	1	1

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	164%	225%	256%	315%	315%	365%	365%	397%	397%
Relative 2000	61%	100%	138%	157%	192%	192%	223%	223%	242%	242%
Relative 2005	44%	73%	100%	114%	140%	140%	162%	162%	176%	176%
Relative 2010	39%	64%	88%	100%	123%	123%	142%	142%	155%	155%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	0.7	0.9	1.2	1.3	1.4	1.4	1.5	1.5	1.6	1.6
Relative 1990	100%	127%	162%	178%	194%	194%	213%	213%	220%	220%
Relative 2000	79%	100%	127%	140%	153%	153%	167%	167%	173%	173%
Relative 2005	62%	79%	100%	110%	120%	120%	132%	132%	136%	136%
Relative 2010	56%	71%	91%	100%	109%	109%	119%	119%	123%	123%

a project with PRIMAP at PIK:

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Cambodia

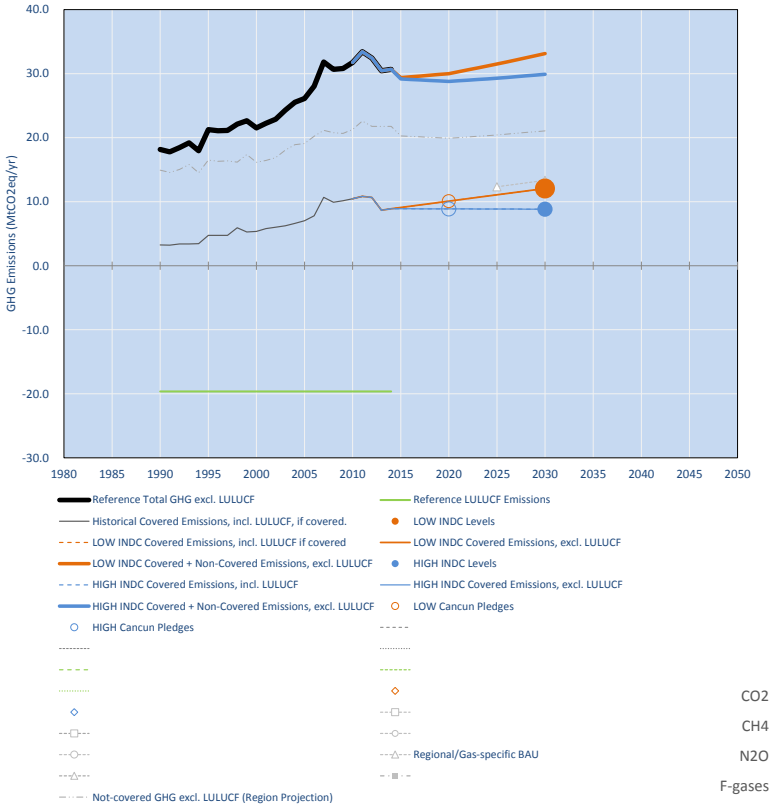
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -25%

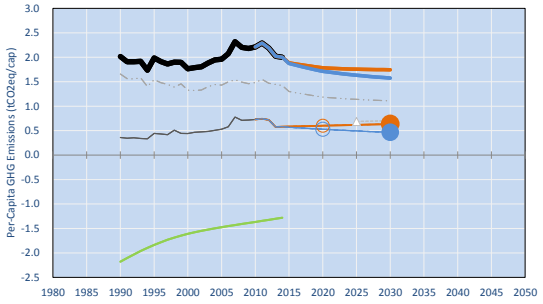
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 12 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #98	0.1% #114	0.1% #112
		-27% rel. BAU of 12 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.2t #145	1.7t #163	1.7t #163

INDC: Implementing mitigation actions in accordance with sustainable development needs across sectors. (GWP SAR)

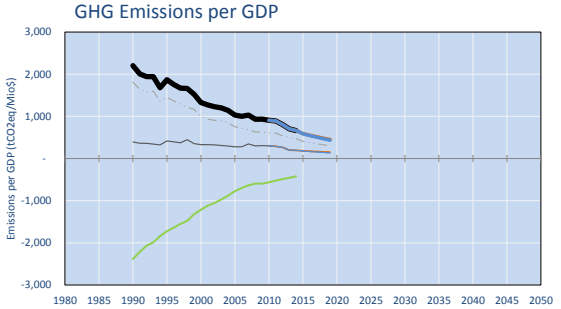
GHG Emissions



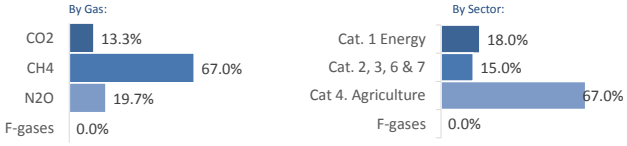
Per-Capita Emissions



GHG Emissions per GDP

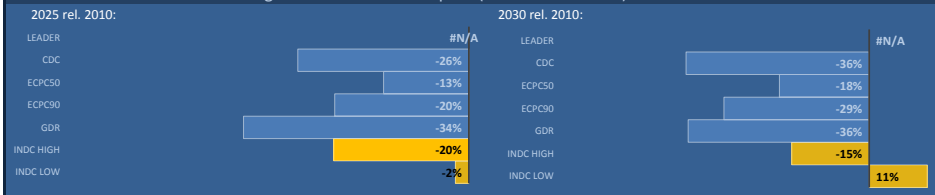


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	3	5	7	10	10	9	11	9	12	9
Total GHG excl. LULUCF	18	22	26	32	30	29	31	29	33	30
Total GHG incl. LULUCF	- 1	2	6	12	10	9	12	10	13	10

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	118%	144%	175%	165%	158%	173%	161%	182%	165%
Relative 2000	84%	100%	121%	148%	139%	134%	146%	136%	154%	139%
Relative 2005	70%	82%	100%	122%	115%	110%	121%	112%	127%	115%
Relative 2010	57%	68%	82%	100%	94%	91%	99%	92%	104%	94%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	9	12	13	14	17	17	18	18	19	19
Per-Capita Emissions (tCO2eq/cap)	2.0	1.8	2.0	2.2	1.8	1.7	1.8	1.6	1.7	1.6
Relative 1990	100%	87%	97%	110%	89%	85%	87%	81%	87%	78%
Relative 2000	114%	100%	111%	125%	101%	97%	99%	92%	99%	89%
Relative 2005	103%	90%	100%	113%	91%	87%	90%	83%	89%	80%
Relative 2010	91%	80%	89%	100%	81%	77%	79%	74%	79%	71%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Cameroon

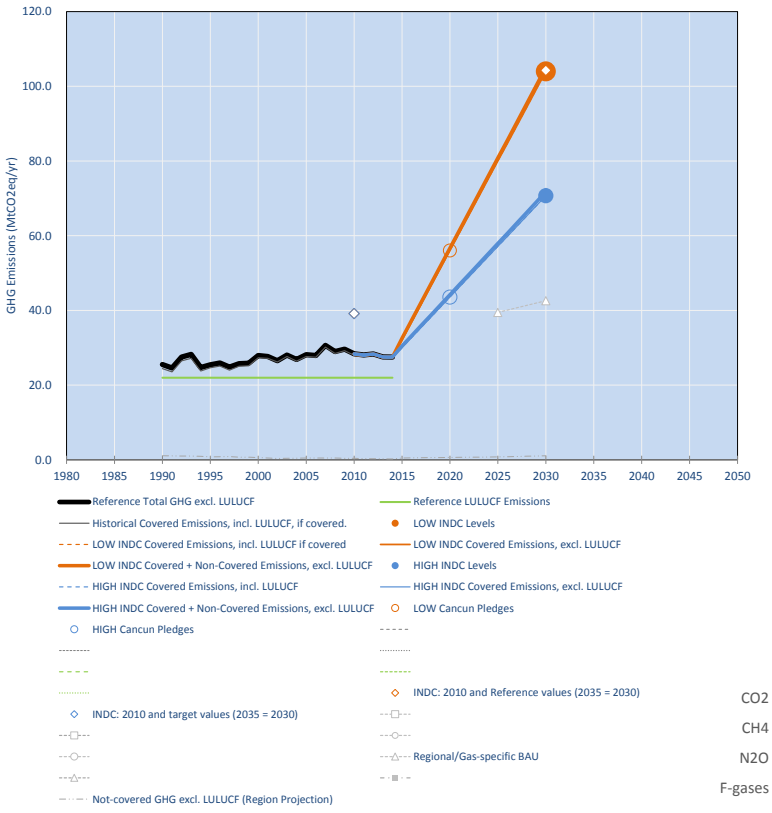
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+95%**

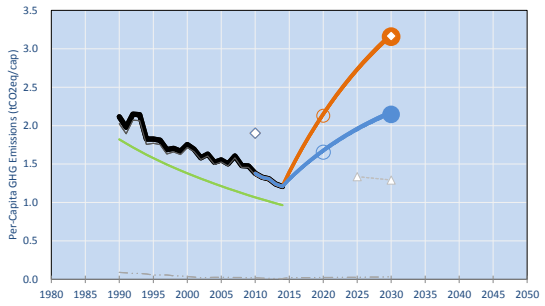
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 104 Mt -32% rel. BAU of 104 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.1% #104	0.1% #76	0.2% #67
			Per-Capita Emissions (tCO2eq/cap)	1.4t #170	2.3t #141	2.7t #133

INDC: Reduction of GHG emissions by 32% compared to 2010 levels by 2035 conditional to international support. (GWP AR4)

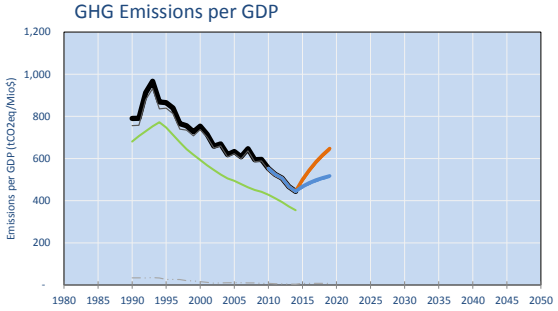
GHG Emissions



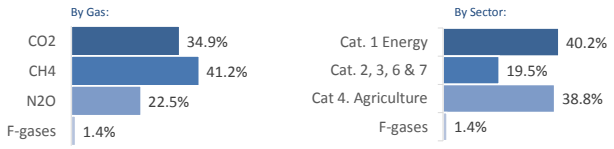
Per-Capita Emissions



GHG Emissions per GDP

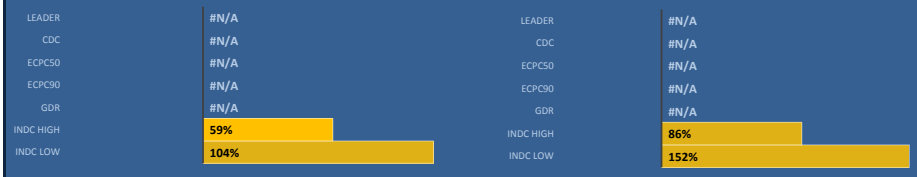


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	24	27	28	28	56	44	80	57	104	71
Total GHG excl. LULUCF	26	28	28	28	57	44	81	58	105	72
Total GHG incl. LULUCF	48	50	50	50	79	66	103	80	127	94

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	109%	110%	111%	222%	173%	317%	227%	412%	281%
Relative 2000	91%	100%	101%	102%	203%	158%	289%	207%	376%	257%
Relative 2005	91%	99%	100%	101%	201%	157%	287%	206%	373%	255%
Relative 2010	90%	98%	99%	100%	200%	156%	285%	204%	370%	253%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	12	16	18	21	26	26	30	30	33	33
Per-Capita Emissions (tCO2eq/cap)	2.1	1.8	1.6	1.4	2.2	1.7	2.7	2.0	3.2	2.2
Relative 1990	100%	83%	73%	65%	102%	79%	129%	93%	151%	103%
Relative 2000	121%	100%	89%	79%	123%	96%	156%	112%	182%	124%
Relative 2005	136%	113%	100%	89%	139%	108%	176%	126%	205%	140%
Relative 2010	153%	127%	113%	100%	156%	122%	198%	142%	231%	158%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
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Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

2020 baseyear unclear; with (orange) and w/o (blue) LULUCF.
2030 BY once with wildfires (61Mt) removed, once 2x to account for insects (blue).

INDC FactSheet

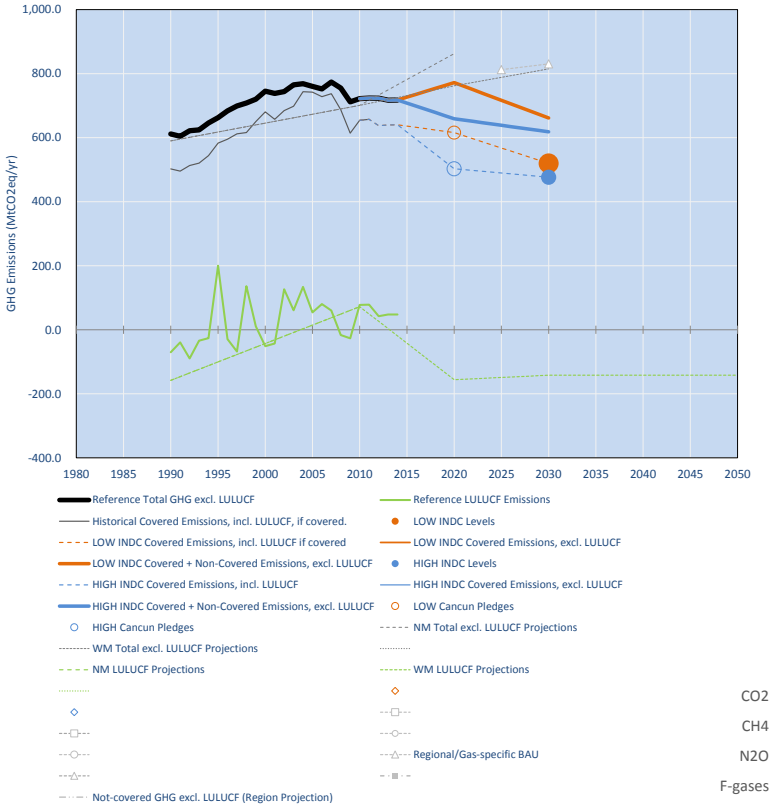
Canada

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-25%**

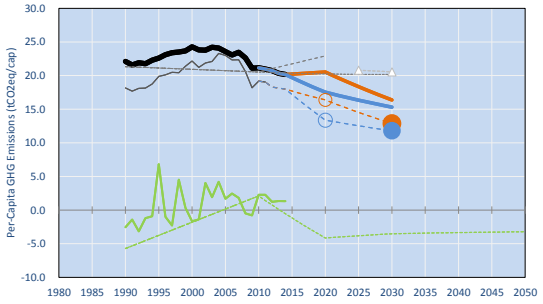
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-17% rel. 2005		-30% rel.2005	Share of World Emissions excl. LULUCF (Rank):	1.6% #11	1.3% #15	1.1% #14
			Per-Capita Emissions (tCO2eq/cap)	21.2t #13	17.3t #15	15.8t #14

INDC: Canada intends to achieve an economy-wide target to reduce its greenhouse gas emissions by 30% below 2005 levels by 2030. (GWP AR4)

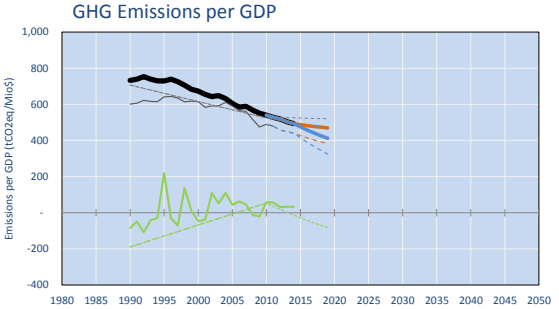
GHG Emissions



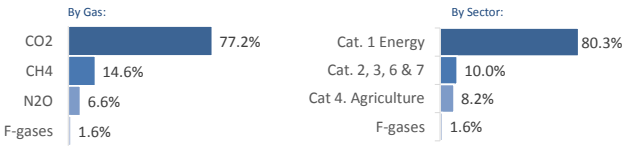
Per-Capita Emissions



GHG Emissions per GDP

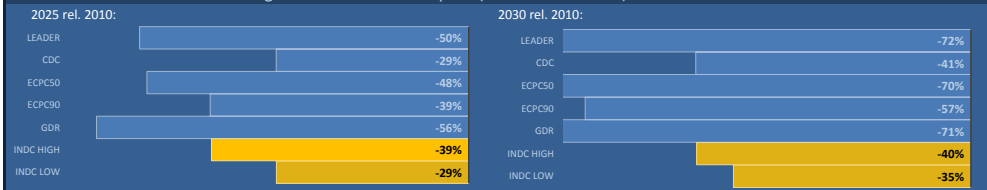


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2005 INDC: -30 to -40%; Leader:-50%; CDC:-30%; ECPC50:-49%; ECPC90:-40%; GDR:-57% — 2030 rel. 2005 INDC: -36 to -42%; Leader:-73%; CDC:-42%; ECPC50:-71%; ECPC90:-58%; GDR:-71%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-	28				
INDC covered LULUCF Emissions	109	65	18	67	156	156	149	149	142	142
INDC covered Emissions excl. LULUCF	611	745	760	722	772	659	717	639	662	618
Total GHG excl. LULUCF	611	745	760	722	772	659	717	639	662	618
Total GHG incl. LULUCF	541	694	815	799	616	503	568	490	520	476

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	122%	124%	118%	126%	108%	117%	104%	108%	101%
Relative 2000	82%	100%	102%	97%	104%	88%	96%	86%	89%	83%
Relative 2005	80%	98%	100%	95%	102%	87%	94%	84%	87%	81%
Relative 2010	85%	103%	105%	100%	107%	91%	99%	88%	92%	86%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	28	31	32	34	38	38	39	39	40	40
Per-Capita Emissions (tCO2eq/cap)	22.1	24.3	23.6	21.2	20.5	17.5	18.3	16.4	16.4	15.3
Relative 1990	100%	110%	107%	96%	93%	79%	83%	74%	74%	69%
Relative 2000	91%	100%	97%	87%	85%	72%	76%	67%	67%	63%
Relative 2005	94%	103%	100%	90%	87%	74%	78%	69%	69%	65%
Relative 2010	104%	115%	111%	100%	97%	83%	87%	77%	77%	72%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Central African Republic

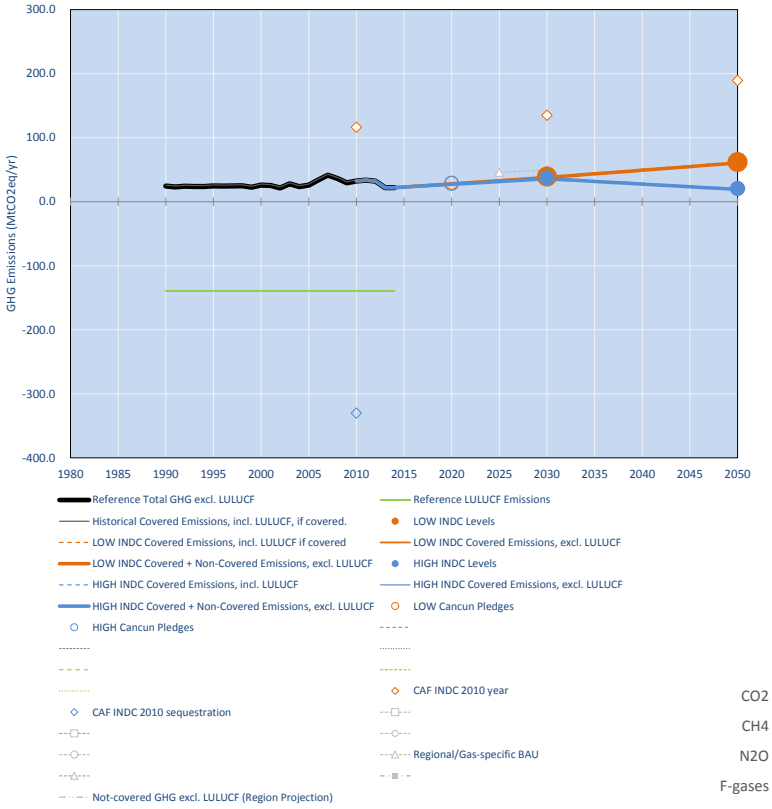
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-22%**

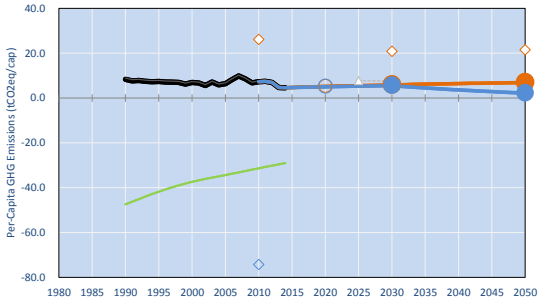
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 39 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #96	0.1% #112	0.1% #105
		-5% rel. BAU of 39 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	7.3t #64	5.4t #86	5.7t #81

INDC: Conditional target of 5% below BAU by 2030. . (GWP unclear)

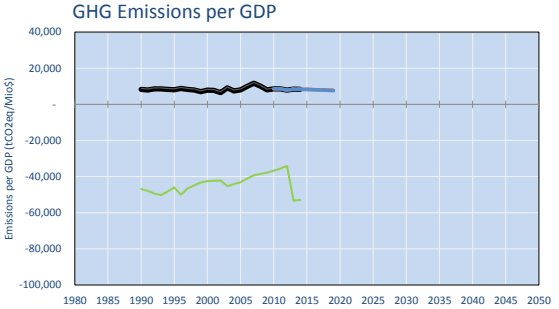
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	2	2	2	2	2	2	2	2	2	2
INDC covered Emissions excl. LULUCF	25	26	26	32	28	27	33	32	38	36
Total GHG excl. LULUCF	25	26	26	32	28	27	33	32	38	36
Total GHG incl. LULUCF	- 115	- 113	- 113	- 107	- 111	- 112	- 106	- 108	- 102	- 103

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	105%	106%	132%	114%	111%	134%	129%	154%	146%
Relative 2000	95%	100%	100%	125%	108%	105%	127%	122%	146%	139%
Relative 2005	95%	100%	100%	125%	108%	105%	127%	122%	146%	139%
Relative 2010	76%	80%	80%	100%	86%	84%	102%	97%	117%	111%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	4	4	4	5	5	6	6	6	6
Per-Capita Emissions (tCO2eq/cap)	8.3	6.9	6.4	7.3	5.2	5.0	5.5	5.3	5.8	5.5
Relative 1990	100%	83%	76%	87%	62%	60%	66%	64%	70%	66%
Relative 2000	120%	100%	92%	105%	74%	72%	80%	76%	84%	80%
Relative 2005	131%	109%	100%	114%	81%	79%	87%	83%	91%	87%
Relative 2010	115%	95%	88%	100%	71%	69%	76%	73%	80%	76%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	CAIT
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
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Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Chad

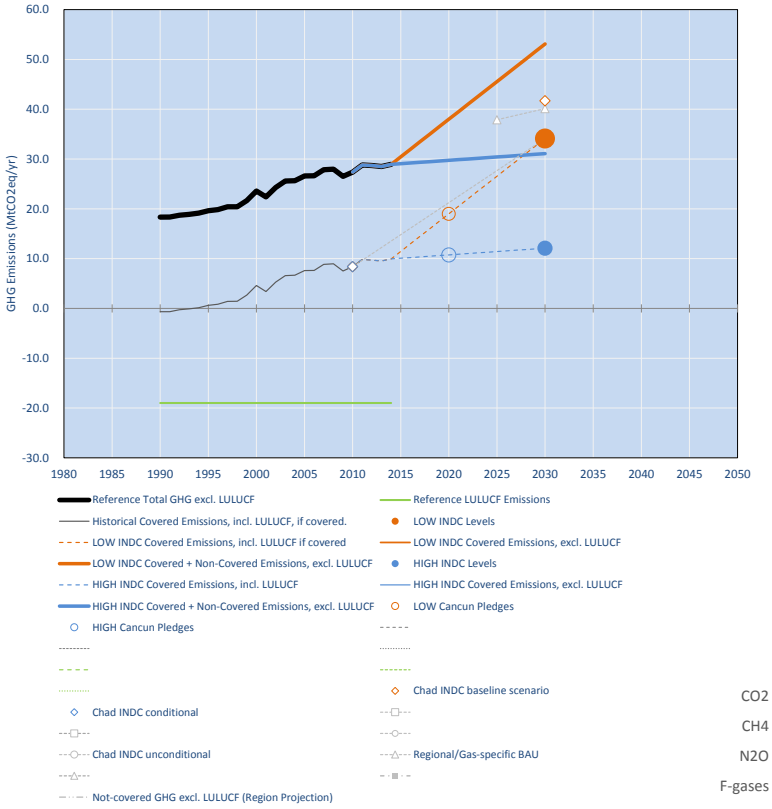
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-17%**

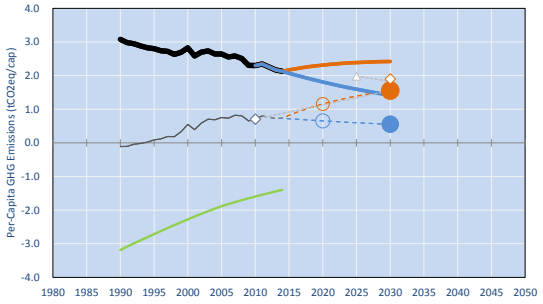
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-18% rel. BAU of 42 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #105	0.1% #103	0.1% #102
		-71% rel. BAU of 42 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.3t #142	2t #153	1.9t #154

INDC: Reduction of 18.2% compared to BAU by 2030 Conditional target: 71% compared to BAU by 2030 subject to international support. (GWP AR4)

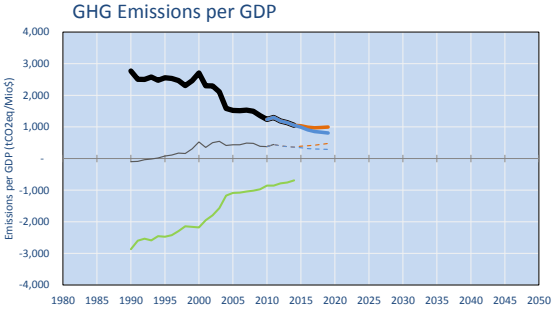
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

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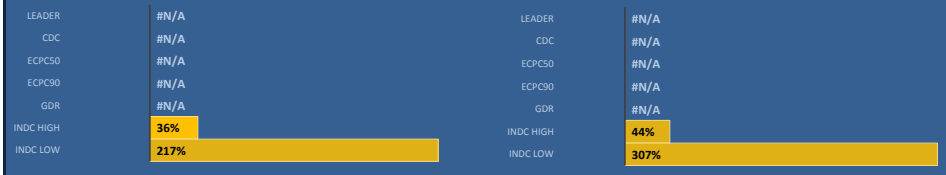
More info on www.mitigation-contributions.org



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GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 19	- 19	- 19	- 19	- 19	- 19	- 19	- 19	- 19	- 19
INDC covered Emissions excl. LULUCF	18	24	27	27	38	30	46	30	53	31
Total GHG excl. LULUCF	18	24	27	27	38	30	46	30	53	31
Total GHG incl. LULUCF	- 1	5	8	8	19	11	27	11	34	12

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	129%	145%	149%	207%	162%	248%	166%	290%	170%
Relative 2000	78%	100%	113%	116%	161%	126%	193%	129%	225%	132%
Relative 2005	69%	89%	100%	103%	143%	112%	171%	114%	200%	117%
Relative 2010	67%	86%	97%	100%	139%	109%	166%	111%	194%	114%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	6	8	10	12	16	16	19	19	22	22
Per-Capita Emissions (tCO2eq/cap)	3.1	2.8	2.6	2.3	2.3	1.8	2.4	1.6	2.4	1.4
Relative 1990	100%	92%	86%	75%	75%	59%	78%	52%	79%	46%
Relative 2000	109%	100%	93%	81%	82%	64%	84%	56%	86%	50%
Relative 2005	116%	107%	100%	87%	88%	69%	90%	60%	92%	54%
Relative 2010	134%	123%	115%	100%	101%	79%	104%	69%	105%	62%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	COUNTRY-SPECIFIC USER DATA
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Chile

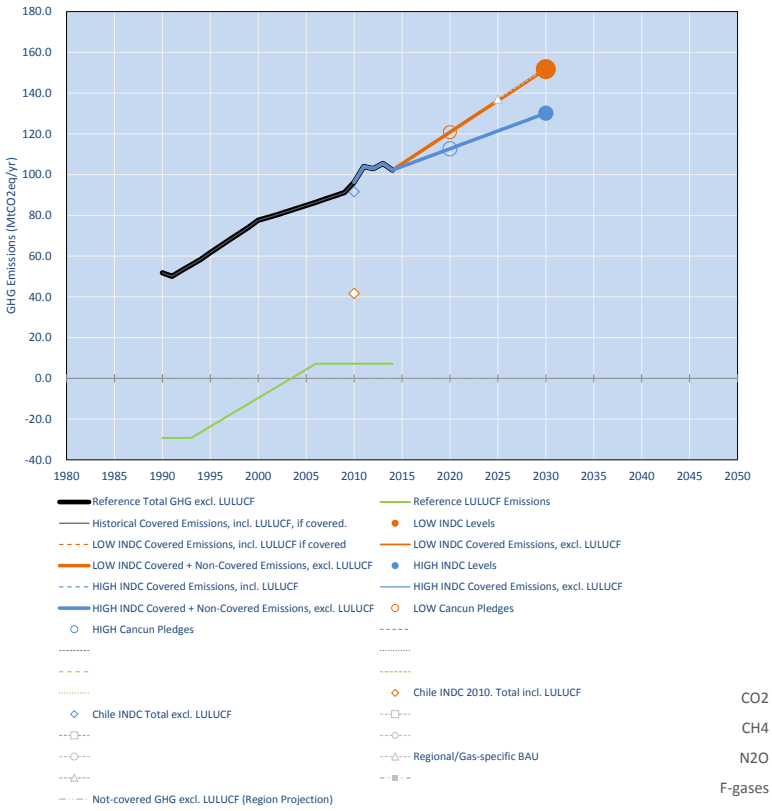
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+23%**

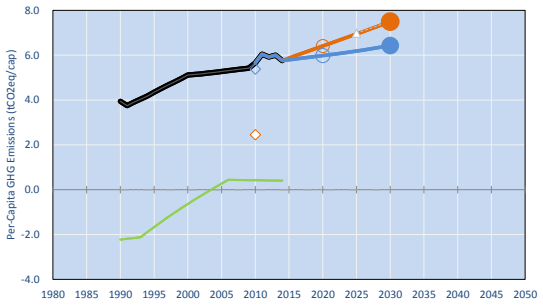
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-30% Intensity Target rel. 2007	Share of World Emissions excl. LULUCF (Rank):	0.2% #53	0.2% #52	0.3% #50
		-40% Intensity Target rel. 2007(cond.)	Per-Capita Emissions (tCO2eq/cap)	5.7t #83	6.6t #70	7t #61

INDC: Reduction of CO2 emissions per unit of GDP of 30% compared to 2007 levels. Conditional target: 35-45% compared to 2007 levels subject to international support. Commits to sustainable forest management and restauration of 100,000ha and reforestation of 100,000ha. (2006 IPCC Gui

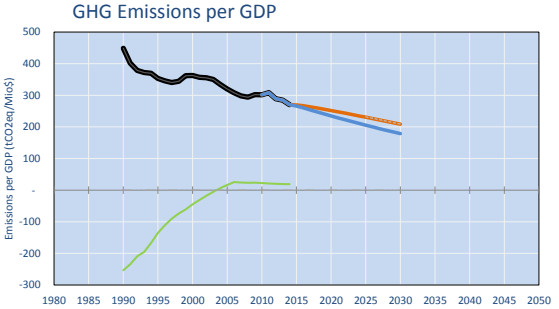
GHG Emissions



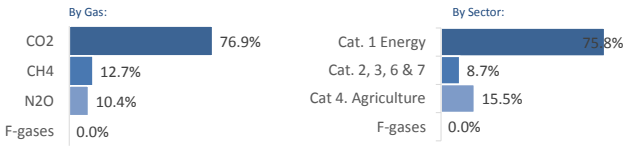
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	52	78	85	96	121	113	136	121	152	130
Total GHG excl. LULUCF	52	78	85	96	121	113	136	121	152	130
Total GHG incl. LULUCF	23	68	89	103	128	120	143	129	159	137

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	150%	164%	186%	233%	218%	263%	234%	293%	251%
Relative 2000	67%	100%	109%	124%	156%	145%	176%	156%	196%	168%
Relative 2005	61%	91%	100%	113%	142%	133%	161%	143%	179%	153%
Relative 2010	54%	81%	88%	100%	125%	117%	142%	126%	158%	135%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	13	15	16	17	19	19	20	20	20	20
Per-Capita Emissions (tCO2eq/cap)	3.9	5.1	5.3	5.7	6.4	6.0	6.9	6.2	7.5	6.4
Relative 1990	100%	130%	134%	144%	163%	152%	176%	157%	190%	163%
Relative 2000	77%	100%	103%	111%	125%	117%	136%	121%	147%	126%
Relative 2005	75%	97%	100%	107%	122%	113%	132%	117%	142%	122%
Relative 2010	70%	90%	93%	100%	113%	106%	123%	109%	133%	114%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	COUNTRY-SPECIFIC USER DATA		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Updated towards the new 2014 coal consumption data with emission factors according to Liu et al.

INDC FactSheet

China

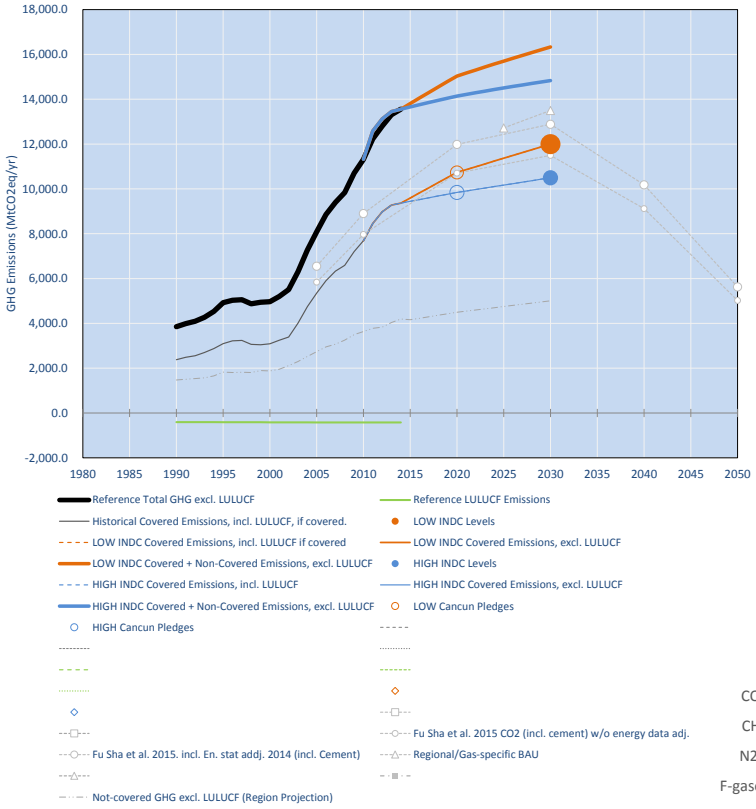
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+30%**

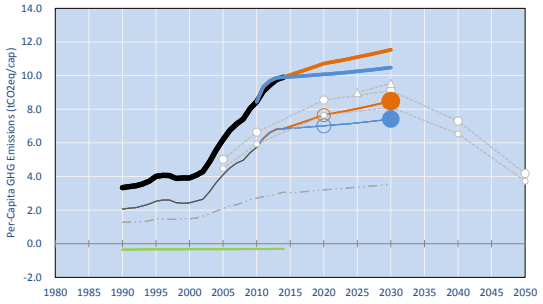
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-40% Intensity Target rel. 2005 -45% Intensity Target rel. 2005		-60% Intensity Target rel. 2005 -65% Intensity Target rel. 2005	Share of World Emissions excl. LULUCF (Rank):	24.6% #1	27.9% #1	27.9% #1
			Per-Capita Emissions (tCO2eq/cap)	8.4t #54	10.7t #31	11t #29

INDC: Achieve peaking of carbon dioxide emissions around 2030 and making the best effort to peak early;Lower carbon dioxide emissions per unit of GDP by 60-65% from 2005 level;Increase share of non-fossil fuel in primary energy consumption to around 20%;Increase forest stock volume by

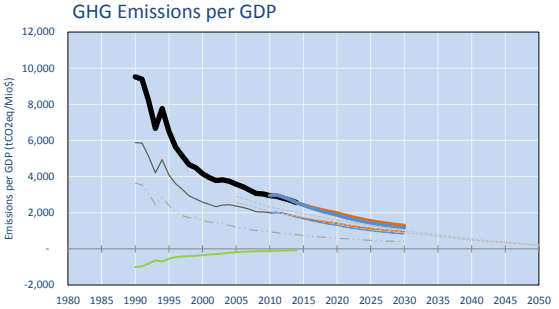
GHG Emissions



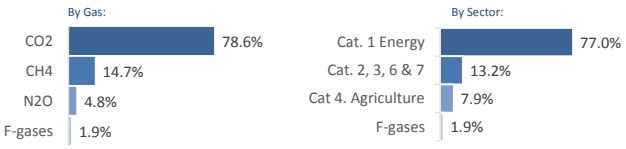
Per-Capita Emissions



GHG Emissions per GDP

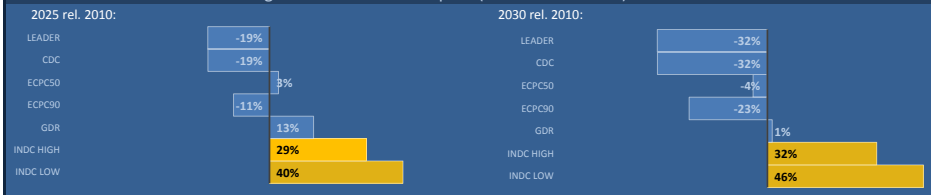


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2010 INDC: 40 to 29%; Leader:-19%; CDC:-19%; ECPC50:3%; ECPC90:-11%; GDR:13% — 2030 rel. 2010 INDC: 46 to 32%; Leader:-32%; CDC:-32%; ECPC50:-4%; ECPC90:-23%; GDR:1%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	2,378	3,089	5,348	7,685	10,738	9,843	11,368	10,170	11,998	10,498
Total GHG excl. LULUCF	3,851	4,967	8,083	11,321	15,034	14,139	15,701	14,504	16,333	14,834
Total GHG incl. LULUCF	3,444	4,552	7,661	10,900	14,613	13,718	15,280	14,082	15,912	14,412

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	129%	210%	294%	390%	367%	408%	377%	424%	385%
Relative 2000	78%	100%	163%	228%	303%	285%	316%	292%	329%	299%
Relative 2005	48%	61%	100%	140%	186%	175%	194%	179%	202%	184%
Relative 2010	34%	44%	71%	100%	133%	125%	139%	128%	144%	131%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1,155	1,270	1,306	1,341	1,403	1,403	1,415	1,415	1,416	1,416
Per-Capita Emissions (tCO2eq/cap)	3.3	3.9	6.2	8.4	10.7	10.1	11.1	10.3	11.5	10.5
Relative 1990	100%	117%	186%	253%	321%	302%	333%	307%	346%	314%
Relative 2000	85%	100%	158%	216%	274%	258%	284%	262%	295%	268%
Relative 2005	54%	63%	100%	136%	173%	163%	179%	166%	186%	169%
Relative 2010	40%	46%	73%	100%	127%	119%	131%	121%	137%	124%

Data Sources:

Cat1_CO2	COUNTRY-SPECIFIC USER DATA
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	COUNTRY-SPECIFIC USER DATA
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Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
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Metric	GWP AR4

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Mismatch of historical data..

INDC FactSheet

Colombia

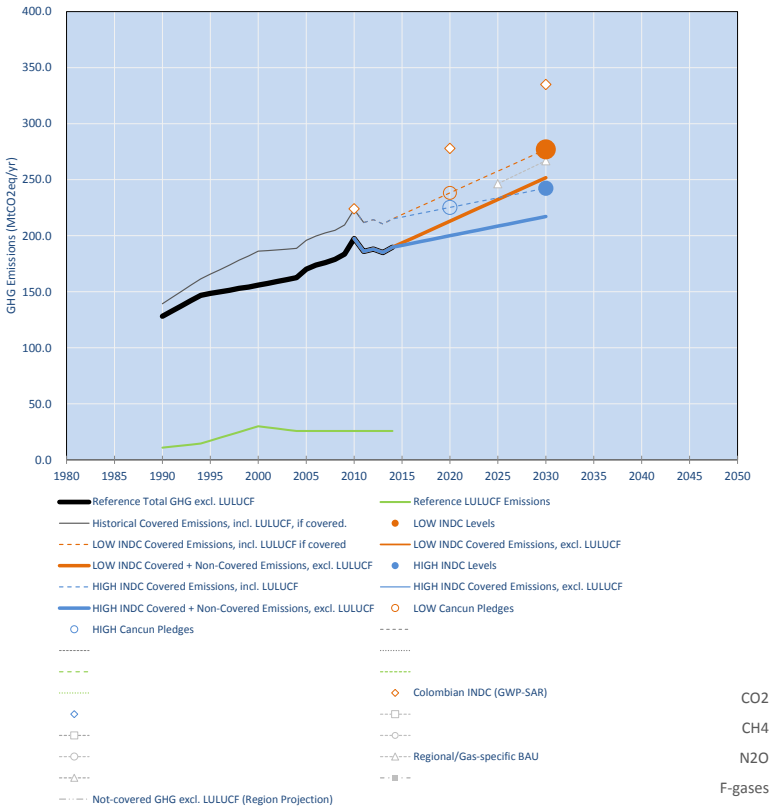
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+2%**

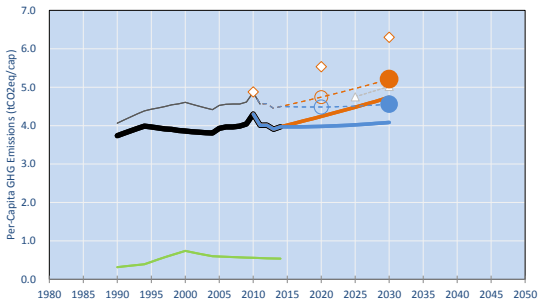
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-20% rel. BAU of 335 Mt -30% rel. BAU of 335 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.4% #38	0.4% #40	0.4% #41
			Per-Capita Emissions (tCO2eq/cap)	4.3t #95	4.2t #107	4.4t #104

INDC: Reduction of GHG emissions by 20% by 2030 compared to BAU. Conditional: up to 30% subject to international support. (GWP SAR)

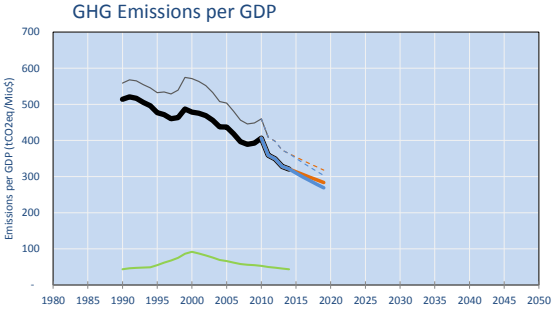
GHG Emissions



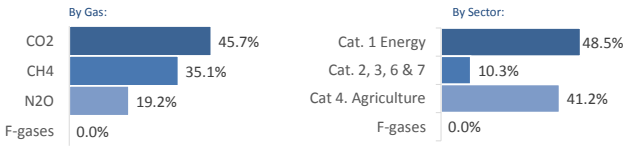
Per-Capita Emissions



GHG Emissions per GDP

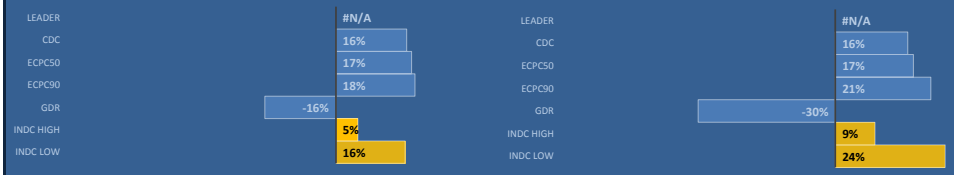


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	11	30	26	26	25	25	25	25	25	25
INDC covered Emissions excl. LULUCF	128	156	170	198	213	200	232	209	252	217
Total GHG excl. LULUCF	128	156	170	198	213	200	232	209	252	217
Total GHG incl. LULUCF	139	186	196	223	239	226	258	234	277	243

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	122%	133%	154%	166%	156%	181%	163%	197%	169%
Relative 2000	82%	100%	109%	127%	137%	128%	149%	134%	162%	139%
Relative 2005	75%	92%	100%	116%	125%	118%	137%	123%	148%	128%
Relative 2010	65%	79%	86%	100%	108%	101%	118%	106%	127%	110%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	34	40	43	46	50	50	52	52	53	53
Per-Capita Emissions (tCO2eq/cap)	3.7	3.9	3.9	4.3	4.2	4.0	4.5	4.0	4.7	4.1
Relative 1990	100%	103%	105%	115%	113%	107%	120%	108%	127%	109%
Relative 2000	97%	100%	102%	111%	110%	103%	116%	104%	123%	106%
Relative 2005	95%	98%	100%	109%	108%	101%	114%	102%	120%	104%
Relative 2010	87%	90%	91%	100%	99%	93%	104%	93%	110%	95%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

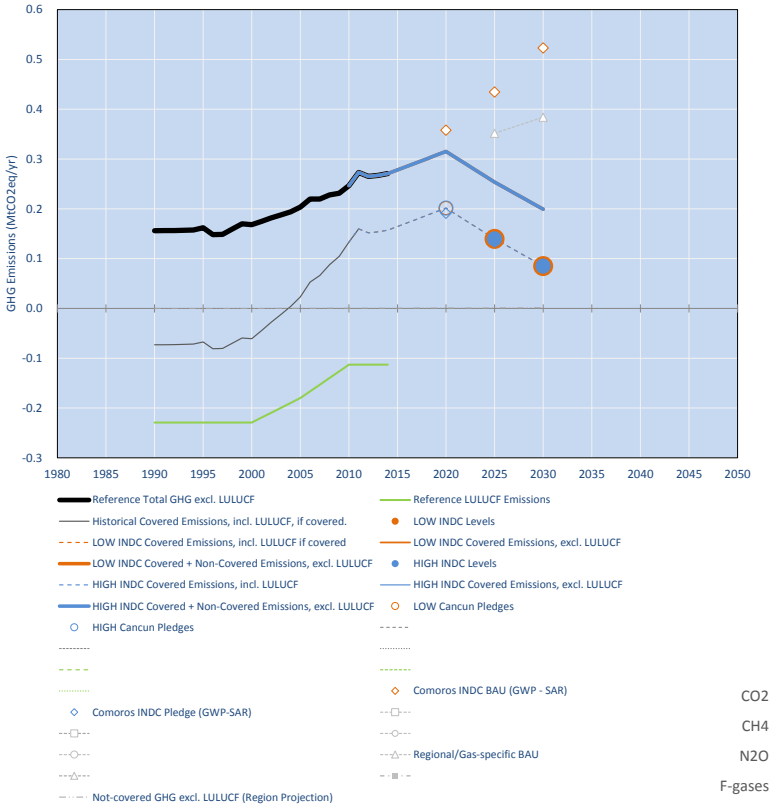
Comoros

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-48%**

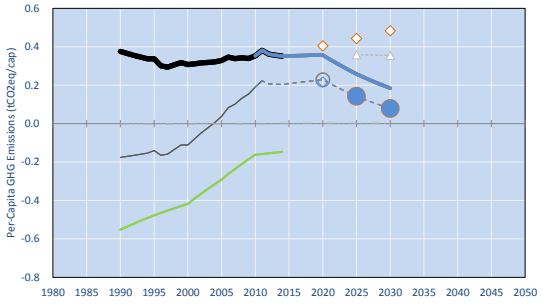
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-47% rel. BAU of 0.4(cond.)	-69% rel. BAU of 0.4 Mt(cond.)	-84% rel. BAU of 1 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.0% #183	0.0% #184	0.0% #187
			Per-Capita Emissions (tCO2eq/cap)	0.4t #196	0.3t #196	0.2t #196

INDC: Reduce GHG emissions in 2030 by about 84% compared to BAU. (GWP SAR)

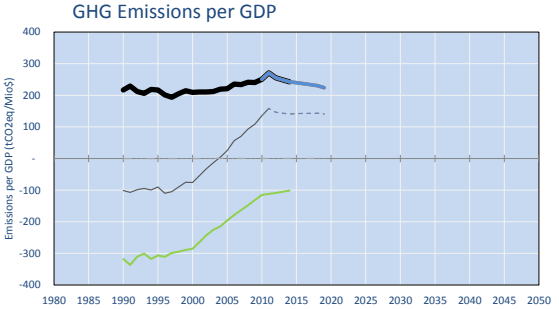
GHG Emissions



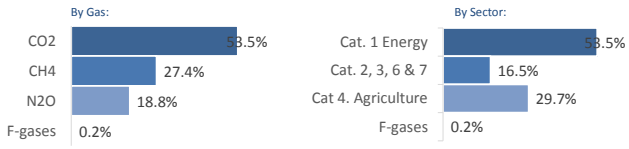
Per-Capita Emissions



GHG Emissions per GDP

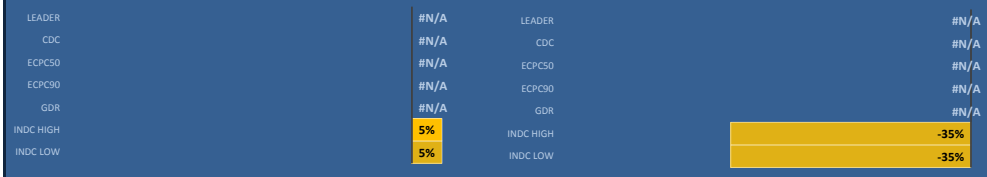


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GW AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	0	0	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	108%	130%	158%	202%	202%	163%	163%	128%	128%
Relative 2000	93%	100%	121%	147%	187%	187%	151%	151%	118%	118%
Relative 2005	77%	83%	100%	121%	155%	155%	125%	125%	98%	98%
Relative 2010	63%	68%	83%	100%	128%	128%	103%	103%	81%	81%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	0.4	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.2	0.2
Relative 1990	100%	82%	87%	94%	95%	95%	69%	69%	49%	49%
Relative 2000	122%	100%	107%	115%	116%	116%	84%	84%	60%	60%
Relative 2005	114%	93%	100%	107%	109%	109%	79%	79%	56%	56%
Relative 2010	107%	87%	93%	100%	101%	101%	73%	73%	52%	52%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	COUNTRY-SPECIFIC USER DATA
Cat4_CO2	COUNTRY-SPECIFIC USER DATA
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	COUNTRY-SPECIFIC USER DATA
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Cat4_CH4	COUNTRY-SPECIFIC USER DATA
Cat5_CH4	PRIMAPHIST15
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Cat5bisC_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisD_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisE_CO2	COUNTRY-SPECIFIC USER DATA
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

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Substantial hist. emission diff; 2035 target and LULUCF not taken into account.

INDC FactSheet

Congo

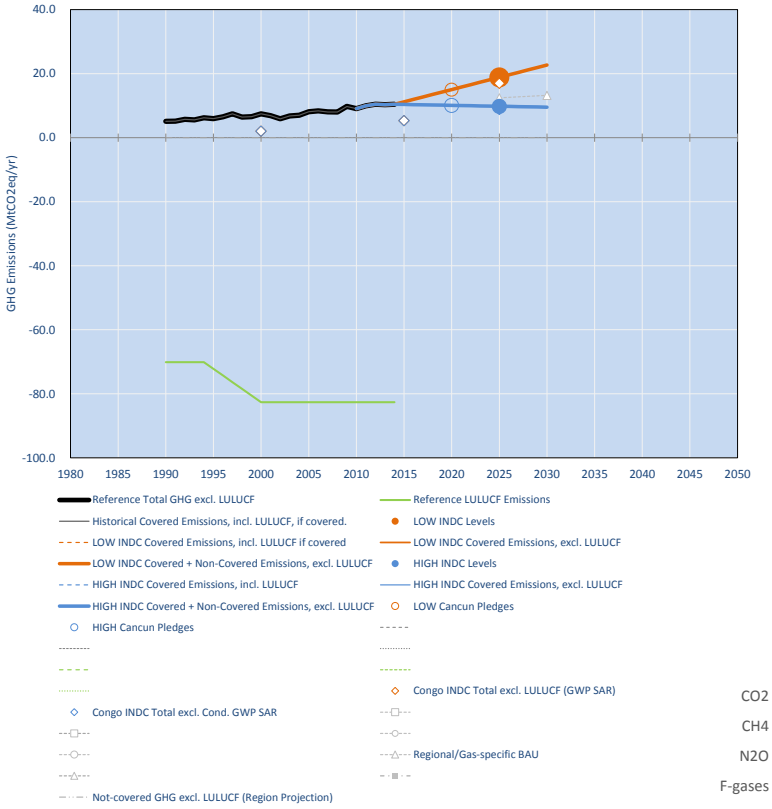
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+6%**

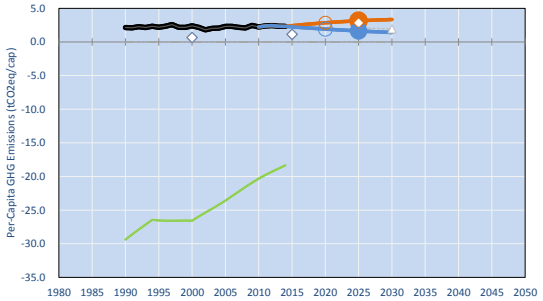
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	0% rel. BAU of 17 Mt		Share of World Emissions excl. LULUCF (Rank):	0.0% #143	0.0% #139	0.0% #137
	-48% rel. BAU of 17 Mt(cond.)		Per-Capita Emissions (tCO2eq/cap)	2.2t #143	2.4t #138	2.4t #139

INDC: At least 48% GHG emission reduction compared to BAU by 2025 and 55% by 2035 subject to international support. (GWP SAR)

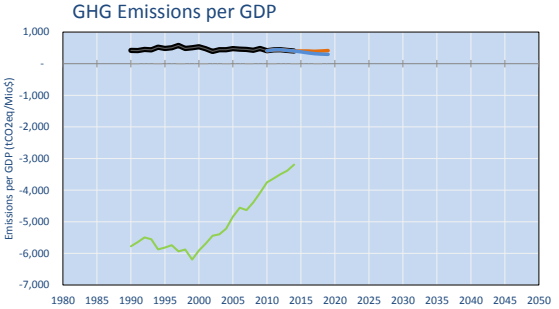
GHG Emissions



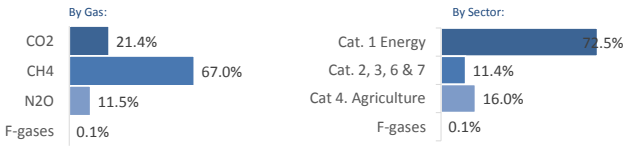
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	5	7	8	9	15	10	19	10	23	10
Total GHG excl. LULUCF	5	7	8	9	15	10	19	10	23	10
Total GHG incl. LULUCF	- 65	- 75	- 75	- 74	- 68	- 73	- 64	- 73	- 60	- 73

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	146%	159%	178%	294%	198%	369%	192%	444%	187%
Relative 2000	69%	100%	109%	122%	202%	135%	253%	132%	304%	128%
Relative 2005	63%	92%	100%	112%	185%	124%	232%	121%	279%	117%
Relative 2010	56%	82%	89%	100%	166%	111%	208%	108%	250%	105%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	3	4	4	5	5	6	6	7	7
Per-Capita Emissions (tCO2eq/cap)	2.1	2.4	2.3	2.2	2.9	1.9	3.2	1.6	3.3	1.4
Relative 1990	100%	112%	108%	104%	133%	90%	147%	77%	156%	66%
Relative 2000	89%	100%	97%	93%	119%	80%	131%	68%	139%	59%
Relative 2005	92%	103%	100%	96%	123%	83%	136%	71%	144%	61%
Relative 2010	96%	107%	104%	100%	128%	86%	141%	73%	150%	63%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
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Cat0_SF6	PRIMAPHIST15
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
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PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Costa Rica

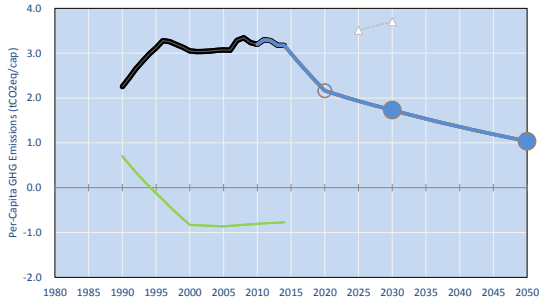
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -46%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		9.4 Mt (Absolute Target)	Share of World Emissions excl. LULUCF (Rank):	0.0% #126	0.0% #145	0.0% #148
			Per-Capita Emissions (tCO2eq/cap)	3.2t #122	1.9t #155	1.7t #162

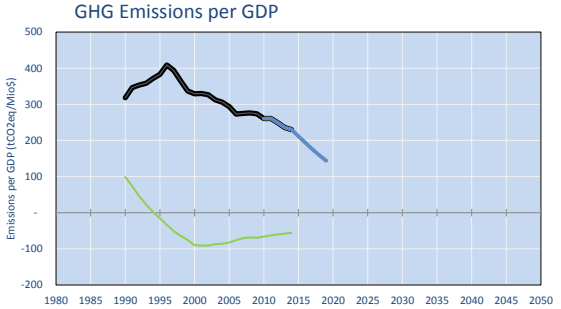
INDC: Maximum net emissions limited to 9.37 Mt CO2eq by 2030In addition Costa Rica is committed to reduce emission reduction of GHG emissions of 44% compared to BAU. (GWP unclear)

GHG Emissions

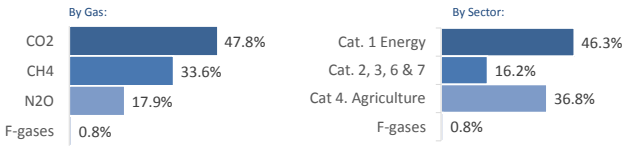
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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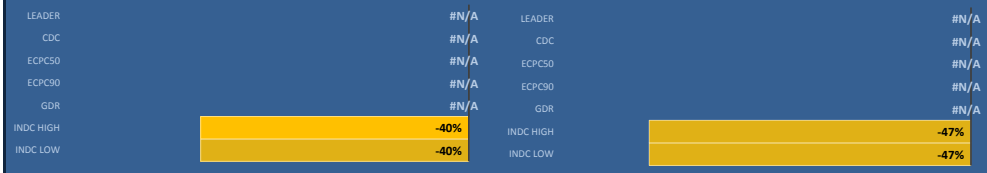

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	7	12	13	15	11	11	10	10	9	9
Total GHG excl. LULUCF	7	12	13	15	11	11	10	10	9	9
Total GHG incl. LULUCF	9	9	9	11	7	7	6	6	6	6

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	172%	187%	208%	156%	156%	145%	145%	134%	134%
Relative 2000	58%	100%	109%	121%	91%	91%	85%	85%	78%	78%
Relative 2005	53%	92%	100%	111%	84%	84%	78%	78%	72%	72%
Relative 2010	48%	82%	90%	100%	75%	75%	70%	70%	65%	65%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	4	4	5	5	5	5	5	5	5
Per-Capita Emissions (tCO2eq/cap)	2.3	3.1	3.1	3.2	2.2	2.2	1.9	1.9	1.7	1.7
Relative 1990	100%	135%	136%	142%	96%	96%	86%	86%	77%	77%
Relative 2000	74%	100%	101%	105%	71%	71%	63%	63%	57%	57%
Relative 2005	73%	99%	100%	104%	70%	70%	63%	63%	56%	56%
Relative 2010	71%	95%	96%	100%	68%	68%	61%	61%	54%	54%

Data Sources:

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Cat4_CO2	PRIMAPHIST15
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Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

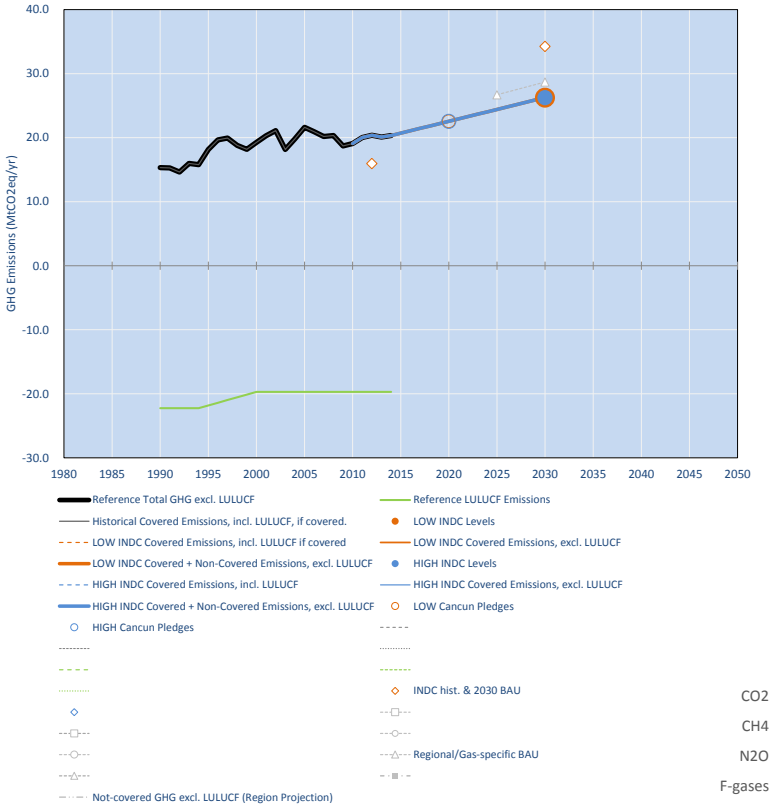
Cote d'Ivoire

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -14%

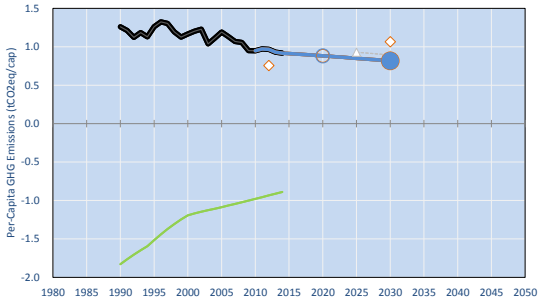
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-28% rel. BAU of 34 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #121	0.0% #120	0.0% #120
			Per-Capita Emissions (tCO2eq/cap)	0.9t #185	0.9t #189	0.8t #188

INDC: 28% reduction of GHG emissions by 2030 compared to BAU. Unconditional target withdrawn 22nd Sept. . (GWP SAR)

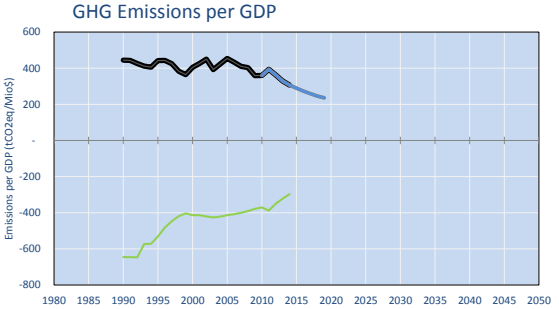
GHG Emissions



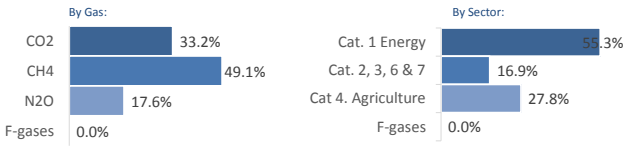
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	15	19	22	19	23	23	24	24	26	26
Total GHG excl. LULUCF	15	19	22	19	23	23	24	24	26	26
Total GHG incl. LULUCF	- 7	- 0	2	- 1	3	3	5	5	7	7

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	126%	141%	125%	147%	147%	159%	159%	171%	171%
Relative 2000	80%	100%	112%	99%	117%	117%	127%	127%	136%	136%
Relative 2005	71%	89%	100%	88%	104%	104%	113%	113%	121%	121%
Relative 2010	80%	101%	113%	100%	118%	118%	128%	128%	138%	138%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	12	17	18	20	26	26	29	29	32	32
Per-Capita Emissions (tCO2eq/cap)	1.3	1.2	1.2	0.9	0.9	0.9	0.9	0.9	0.8	0.8
Relative 1990	100%	93%	95%	75%	70%	70%	68%	68%	65%	65%
Relative 2000	108%	100%	102%	81%	76%	76%	73%	73%	70%	70%
Relative 2005	106%	98%	100%	80%	74%	74%	71%	71%	69%	69%
Relative 2010	133%	123%	126%	100%	93%	93%	90%	90%	86%	86%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

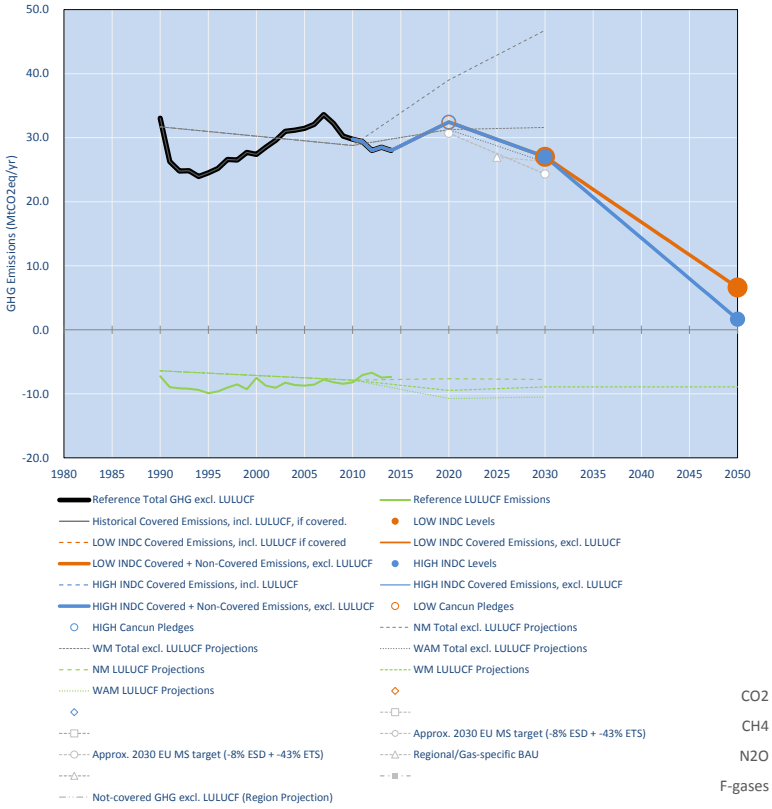
INDC FactSheet

Croatia

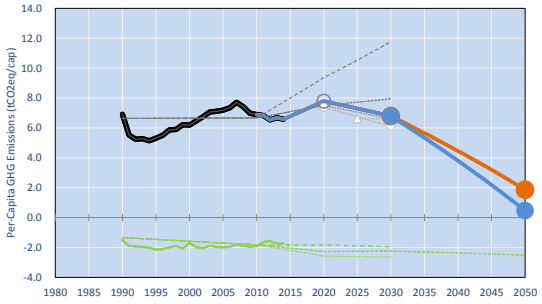
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-1%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.1% #101	0.1% #116	0.0% #118
			Per-Capita Emissions (tCO2eq/cap)	6.9t #70	7.3t #64	6.8t #65

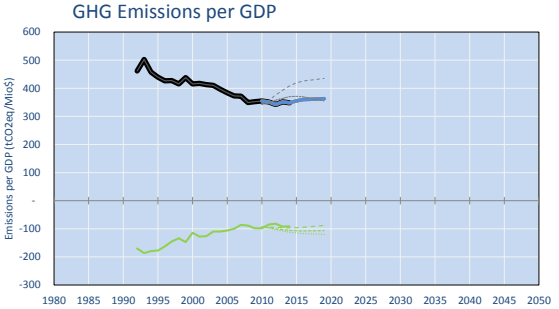
GHG Emissions



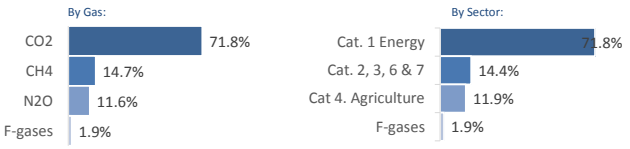
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	-5%	-16%
INDC LOW	-5%	-16%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 2	- 2	- 3	- 3	- 3	- 3
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	33	27	31	30	32	32	30	30	27	27
Total GHG excl. LULUCF	33	27	31	30	32	32	30	30	27	27
Total GHG incl. LULUCF	26	20	23	22	23	23	21	21	18	18

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	83%	95%	90%	98%	98%	90%	90%	82%	82%
Relative 2000	121%	100%	115%	109%	118%	118%	109%	109%	99%	99%
Relative 2005	105%	87%	100%	95%	103%	103%	94%	94%	86%	86%
Relative 2010	111%	92%	106%	100%	109%	109%	100%	100%	91%	91%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	4	4	4	4	4	4	4	4	4
Per-Capita Emissions (tCO2eq/cap)	6.9	6.2	7.2	6.9	7.8	7.8	7.3	7.3	6.8	6.8
Relative 1990	100%	89%	104%	100%	113%	113%	106%	106%	98%	98%
Relative 2000	112%	100%	116%	111%	126%	126%	118%	118%	110%	110%
Relative 2005	96%	86%	100%	96%	108%	108%	102%	102%	95%	95%
Relative 2010	100%	90%	104%	100%	113%	113%	106%	106%	99%	99%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

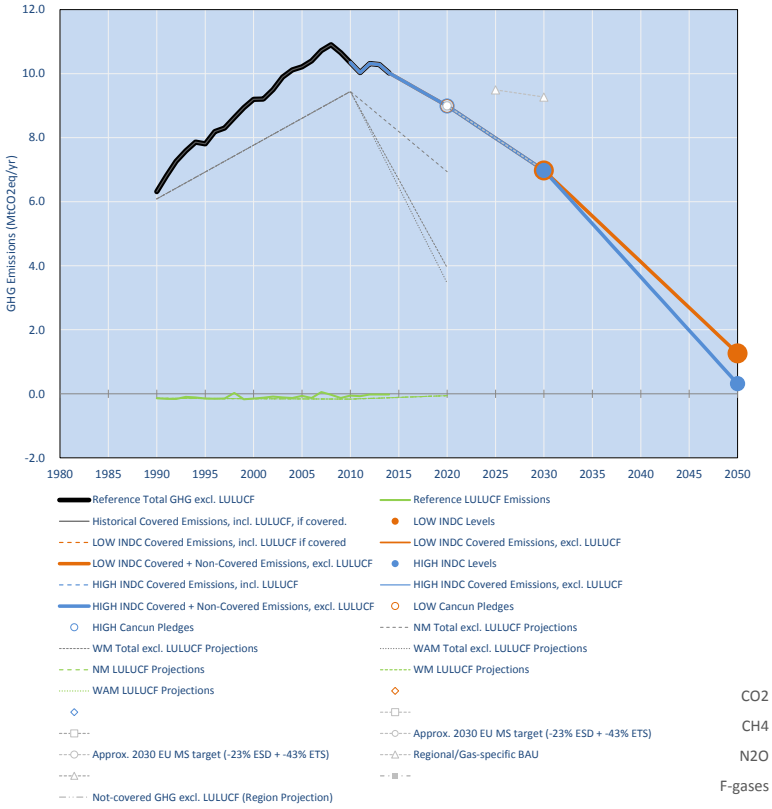
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Cyprus

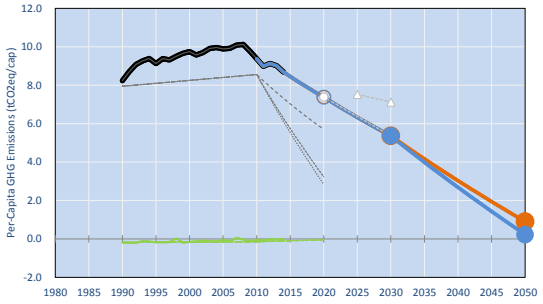
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -43%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.0% #139	0.0% #151	0.0% #153
			Per-Capita Emissions (tCO2eq/cap)	9.4t #47	6.3t #73	5.4t #86

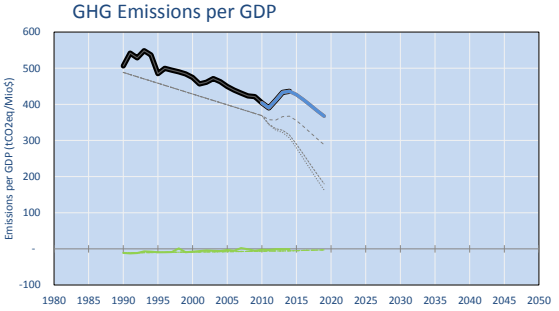
GHG Emissions



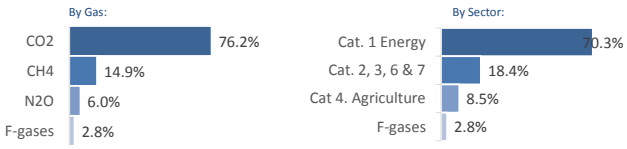
Per-Capita Emissions



GHG Emissions per GDP

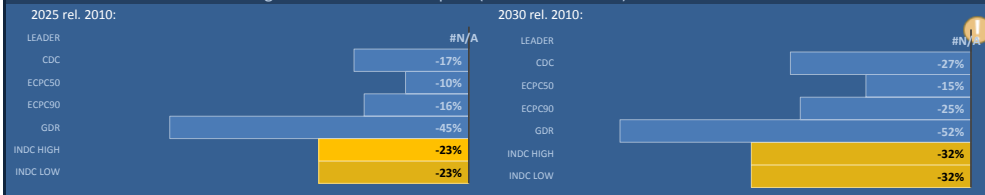


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					0	0				
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	6	9	10	10	9	9	8	8	7	7
Total GHG excl. LULUCF	6	9	10	10	9	9	8	8	7	7
Total GHG incl. LULUCF	6	9	10	10	9	9	8	8	7	7

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	146%	162%	164%	142%	142%	126%	126%	111%	111%
Relative 2000	69%	100%	111%	112%	98%	98%	87%	87%	76%	76%
Relative 2005	62%	90%	100%	101%	88%	88%	78%	78%	68%	68%
Relative 2010	61%	89%	99%	100%	87%	87%	77%	77%	67%	67%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	8.2	9.8	9.9	9.4	7.4	7.4	6.3	6.3	5.4	5.4
Relative 1990	100%	118%	120%	114%	90%	90%	77%	77%	65%	65%
Relative 2000	84%	100%	101%	96%	76%	76%	65%	65%	55%	55%
Relative 2005	83%	99%	100%	95%	75%	75%	64%	64%	54%	54%
Relative 2010	88%	104%	105%	100%	79%	79%	68%	68%	57%	57%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
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PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

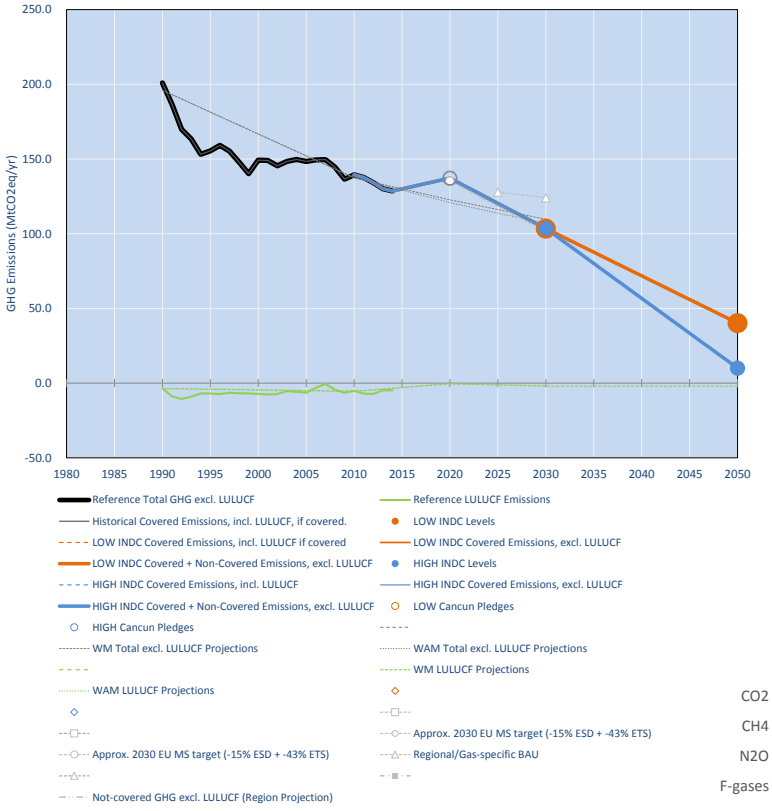
INDC FactSheet

Czech Republic

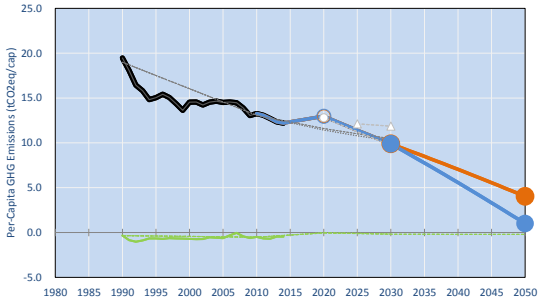
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -25%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.3% #44	0.2% #54	0.2% #59
			Per-Capita Emissions (tCO2eq/cap)	13.3t #23	11.4t #26	9.9t #33

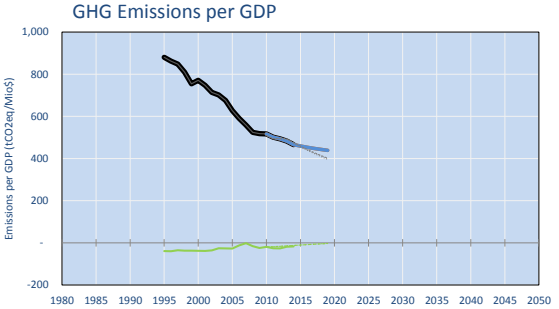
GHG Emissions



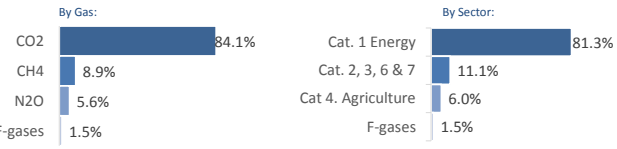
Per-Capita Emissions



GHG Emissions per GDP

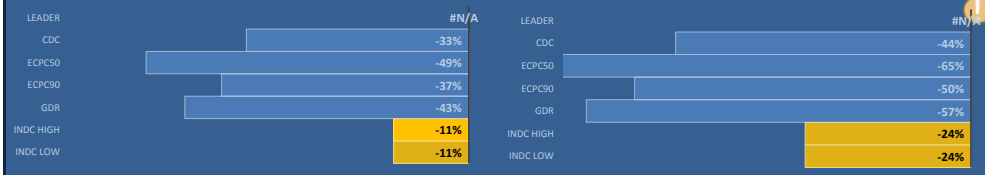


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 2	- 2	- 2	- 2	- 2	- 2
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	201	149	148	139	137	137	120	120	103	103
Total GHG excl. LULUCF	201	149	148	139	137	137	120	120	103	103
Total GHG incl. LULUCF	198	142	142	134	137	137	119	119	101	101

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	74%	74%	69%	68%	68%	60%	60%	51%	51%
Relative 2000	135%	100%	99%	93%	92%	92%	81%	81%	69%	69%
Relative 2005	135%	101%	100%	94%	92%	92%	81%	81%	70%	70%
Relative 2010	144%	107%	106%	100%	98%	98%	86%	86%	74%	74%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	10	10	11	11	11	11	11	10	10
Per-Capita Emissions (tCO2eq/cap)	19.5	14.5	14.5	13.3	13.0	13.0	11.4	11.4	9.9	9.9
Relative 1990	100%	75%	75%	68%	67%	67%	59%	59%	51%	51%
Relative 2000	134%	100%	100%	91%	89%	89%	78%	78%	68%	68%
Relative 2005	134%	100%	100%	91%	89%	89%	79%	79%	68%	68%
Relative 2010	147%	110%	109%	100%	98%	98%	86%	86%	75%	75%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
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Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Odd Non-LULUCF numbers shown in fig. 2 of INDC. LULUCF normally reported as sink.

INDC FactSheet

Democratic Republic of the Congo

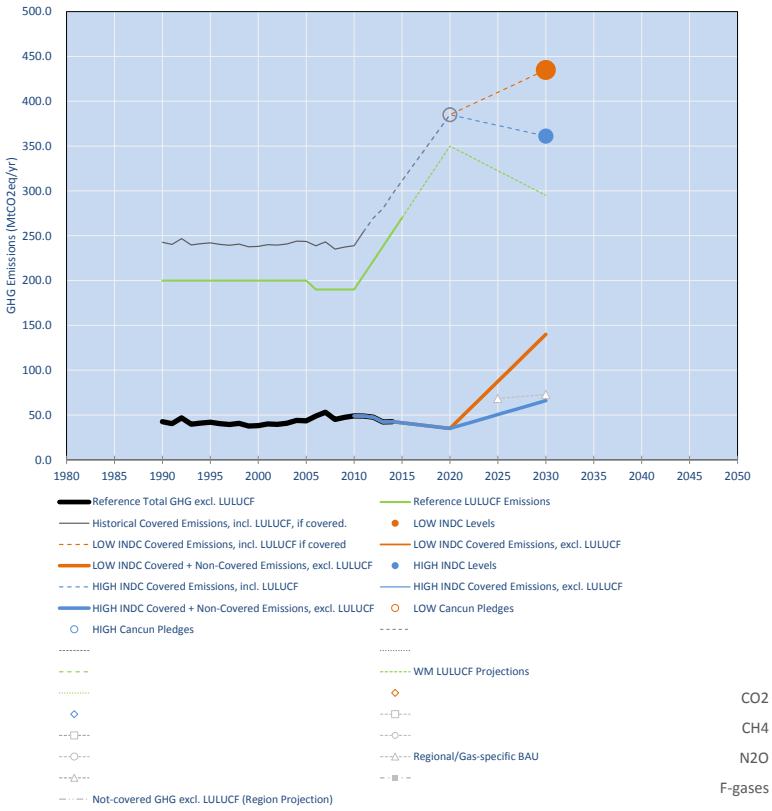
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +15%

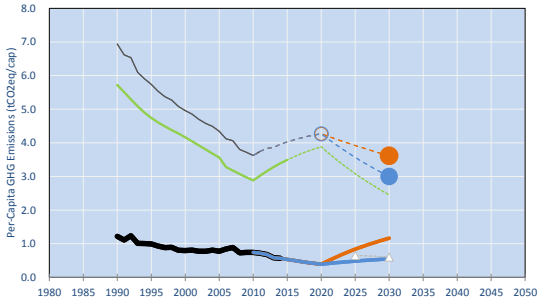
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
0% rel. BAU of 385		0% rel. BAU of 435 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #83	0.1% #77	0.2% #61
0% rel. BAU of 385		-17% rel. BAU of 435 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	0.7t #191	0.7t #192	0.9t #186

INDC: Conditional reduction of GHG emissions by 17% below 2000 by 2030 pending on financial support. (GWP unclear)

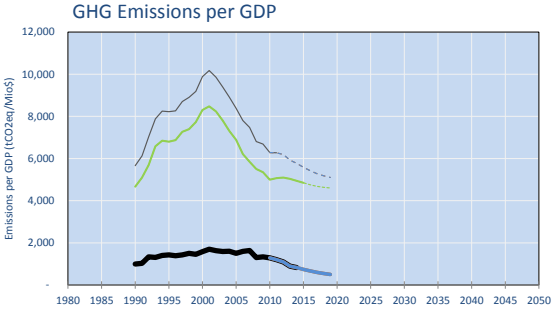
GHG Emissions



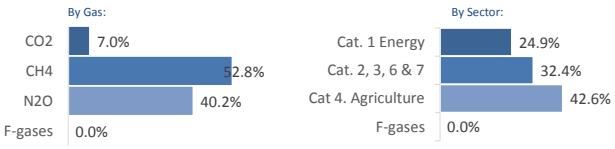
Per-Capita Emissions



GHG Emissions per GDP

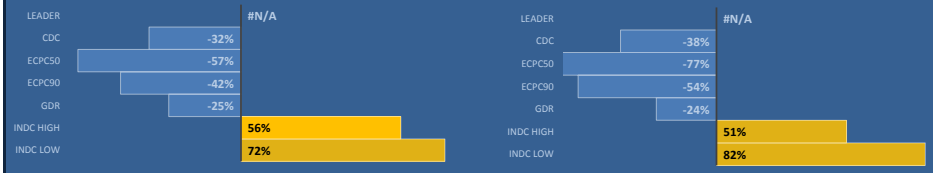


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GW AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	200	200	200	190	350	350	323	323	295	295
INDC covered Emissions excl. LULUCF	43	38	44	49	35	35	88	51	140	66
Total GHG excl. LULUCF	43	38	44	49	35	35	88	51	140	66
Total GHG incl. LULUCF	243	238	244	239	385	385	410	373	435	361

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	90%	102%	115%	82%	82%	205%	119%	329%	155%
Relative 2000	112%	100%	114%	128%	92%	92%	229%	132%	367%	173%
Relative 2005	98%	88%	100%	112%	80%	80%	201%	116%	321%	152%
Relative 2010	87%	78%	89%	100%	72%	72%	179%	103%	286%	135%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	35	48	56	66	90	90	105	105	120	120
Per-Capita Emissions (tCO2eq/cap)	1.2	0.8	0.8	0.7	0.4	0.4	0.8	0.5	1.2	0.5
Relative 1990	100%	65%	64%	61%	32%	32%	69%	40%	96%	45%
Relative 2000	153%	100%	98%	93%	49%	49%	105%	61%	146%	69%
Relative 2005	157%	102%	100%	96%	50%	50%	108%	62%	150%	71%
Relative 2010	164%	107%	105%	100%	52%	52%	113%	65%	157%	74%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	COUNTRY-SPECIFIC USER DATA
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	FAO FRA2015
Cat5A2_CO2	FAO FRA2015
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Cat5GMCMWM_C	UNFCCC CRF
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Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisB_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisC_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisD_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisE_CO2	COUNTRY-SPECIFIC USER DATA
PRO_WM_Cat5_G	COUNTRY-SPECIFIC USER DATA
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

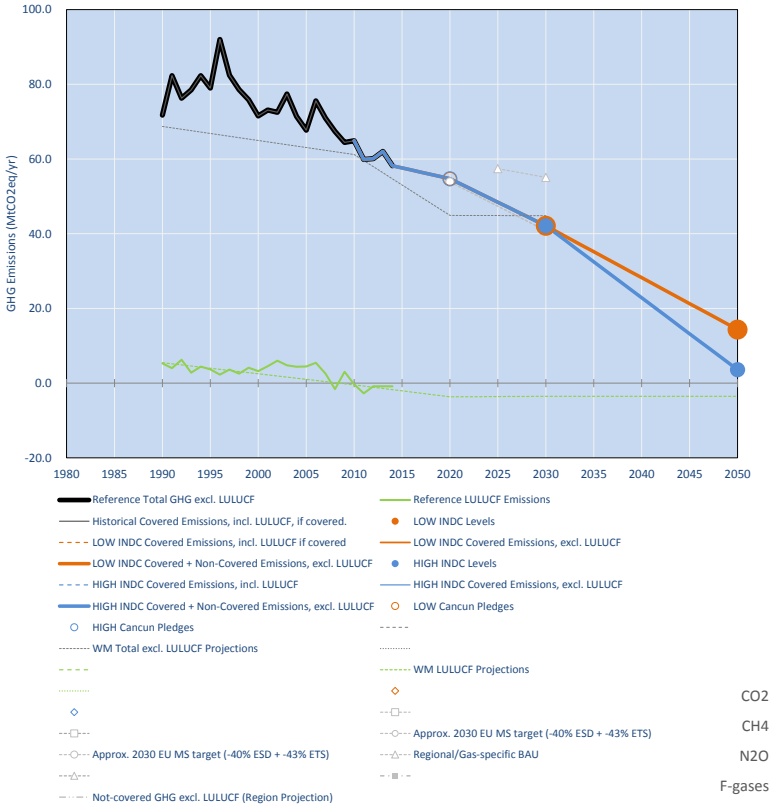
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Denmark

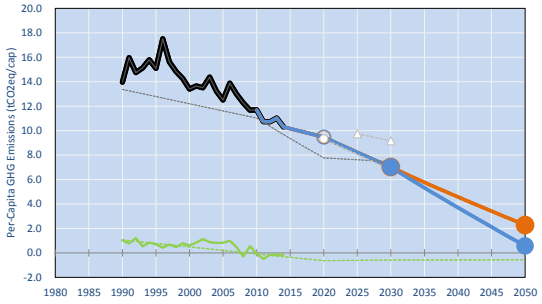
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -40%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.1% #73	0.1% #90	0.1% #101
			Per-Capita Emissions (tCO2eq/cap)	11.7t #29	8.2t #51	7t #60

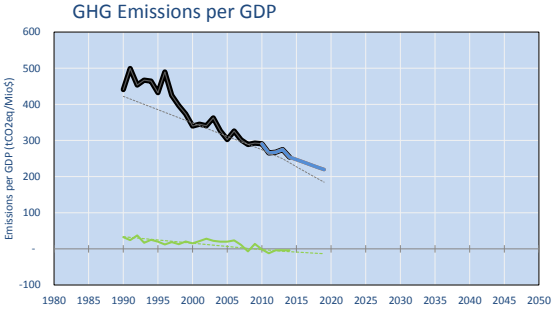
GHG Emissions



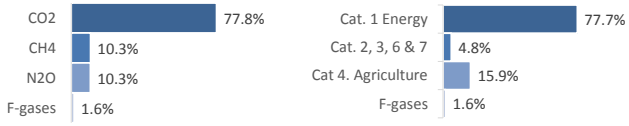
Per-Capita Emissions



GHG Emissions per GDP

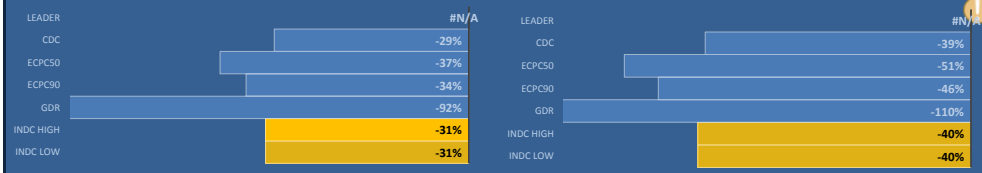


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 1	- 1	- 1	- 1	- 1	- 1
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	72	72	68	65	55	55	48	48	42	42
Total GHG excl. LULUCF	72	72	68	65	55	55	48	48	42	42
Total GHG incl. LULUCF	77	75	72	65	51	51	45	45	39	39

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	100%	94%	90%	76%	76%	67%	67%	59%	59%
Relative 2000	100%	100%	95%	91%	77%	77%	68%	68%	59%	59%
Relative 2005	106%	106%	100%	96%	81%	81%	72%	72%	62%	62%
Relative 2010	111%	110%	104%	100%	84%	84%	75%	75%	65%	65%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	5	5	6	6	6	6	6	6	6
Per-Capita Emissions (tCO2eq/cap)	14.0	13.4	12.5	11.7	9.5	9.5	8.2	8.2	7.0	7.0
Relative 1990	100%	96%	90%	84%	68%	68%	59%	59%	50%	50%
Relative 2000	104%	100%	93%	87%	71%	71%	61%	61%	52%	52%
Relative 2005	112%	107%	100%	94%	76%	76%	66%	66%	56%	56%
Relative 2010	119%	115%	107%	100%	81%	81%	70%	70%	60%	60%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Strong historical emission difference.

INDC FactSheet

Djibouti

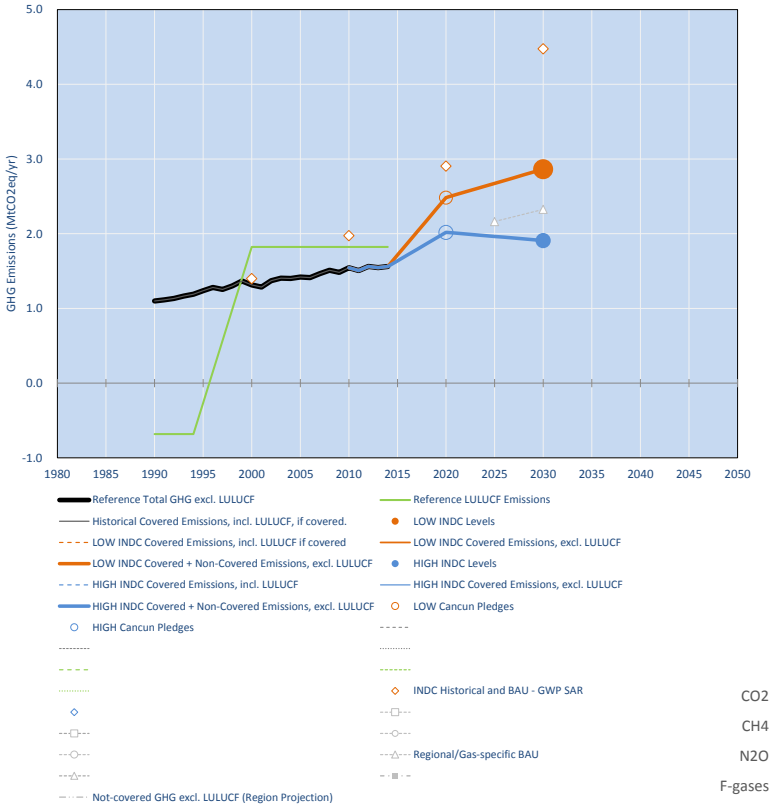
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+22%**

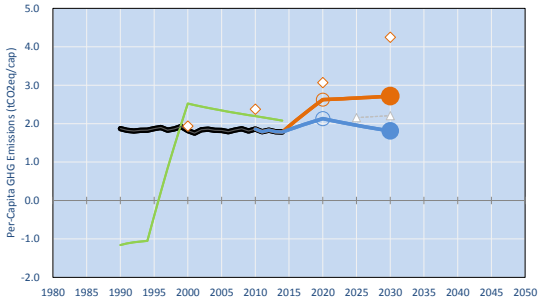
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. BAU of 2.9		-40% rel. BAU of 4 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #170	0.0% #169	0.0% #167
-35% rel. BAU of 2.9(cond.)		-60% rel. BAU of 4 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.9t #154	2.3t #143	2.3t #143

INDC: Reduction of GHG emissions by 40% by 2030 compared to BAUConditional: additional 20% emissions reduction by 2030 if additional funding is available. (GWP SAR)

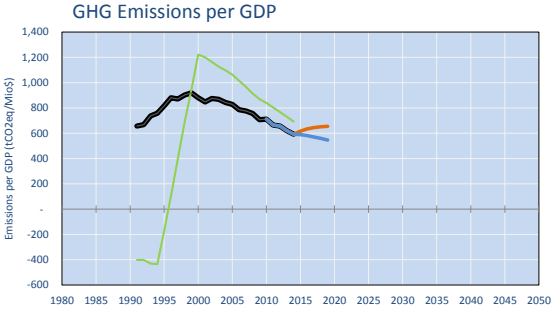
GHG Emissions



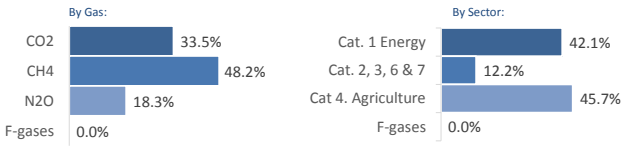
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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GDR	Greenhouse Development Rights
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GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	1	1	1	2	2	2	3	2	3	2
Total GHG excl. LULUCF	1	1	1	2	2	2	3	2	3	2
Total GHG incl. LULUCF	0	3	3	3	4	4	4	4	5	4

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	120%	129%	141%	226%	184%	243%	179%	260%	174%
Relative 2000	84%	100%	108%	117%	189%	153%	203%	149%	218%	145%
Relative 2005	77%	93%	100%	109%	175%	142%	188%	138%	202%	134%
Relative 2010	71%	85%	92%	100%	161%	131%	173%	127%	185%	124%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	1.9	1.8	1.8	1.9	2.6	2.1	2.7	2.0	2.7	1.8
Relative 1990	100%	97%	98%	100%	140%	114%	143%	105%	145%	97%
Relative 2000	103%	100%	100%	102%	144%	117%	146%	108%	149%	100%
Relative 2005	102%	100%	100%	102%	144%	117%	146%	107%	149%	99%
Relative 2010	100%	98%	98%	100%	141%	115%	143%	105%	146%	97%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

No unconditional target. Assumed as 0% of stated 2014 levels.

INDC FactSheet

Dominica

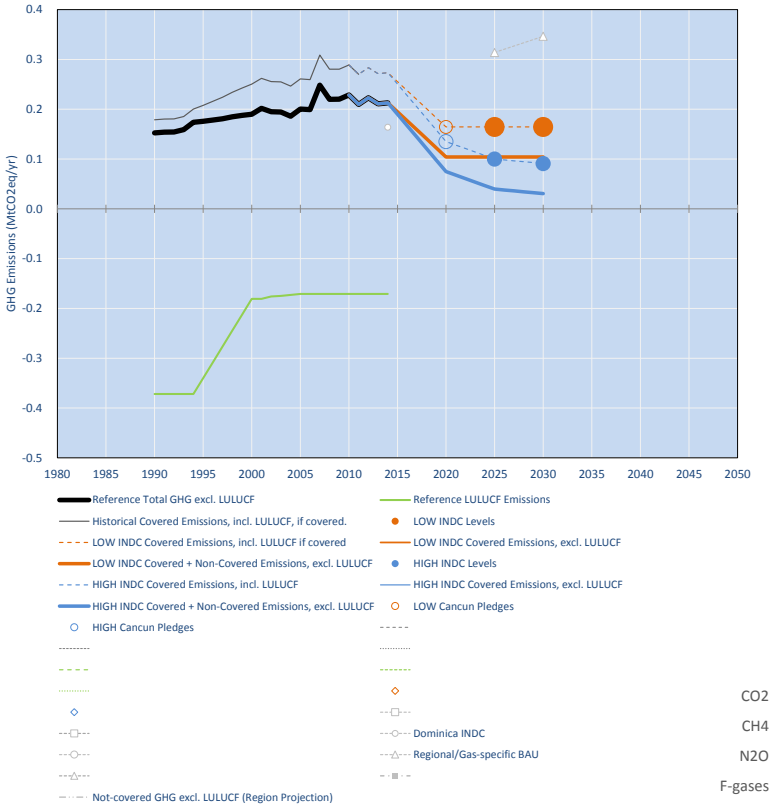
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-73%**

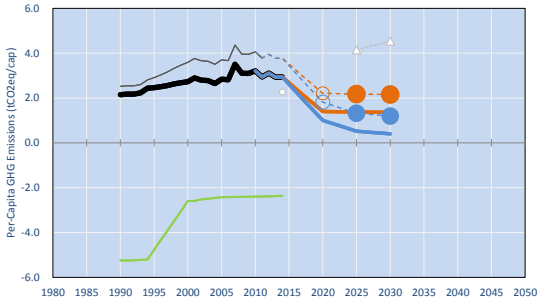
	Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
Share of World Emissions excl. LULUCF (Rank):	0% rel. 2014	0% rel.2014	0% rel.2014		0.0% #186	0.0% #196	0.0% #196
Per-Capita Emissions (tCO2eq/cap)	-18% rel. 2014(cond.)	-39% rel.2014(cond.)	-45% rel.2014(cond.)		3.2t #121	1t #183	0.9t #184

INDC: Commits to progressively reduce total gross greenhouse gas emissions below 2014 levels of 17.9% by 2020, 39.2% by 2025 and 44.7% by 2030. (GWP SAR)

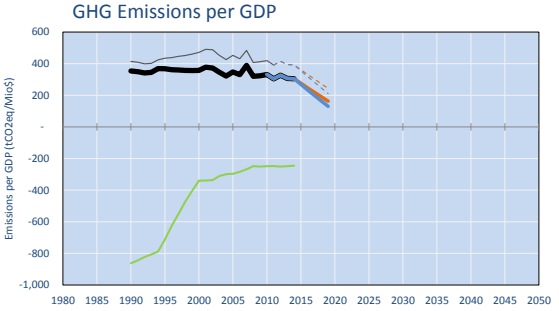
GHG Emissions



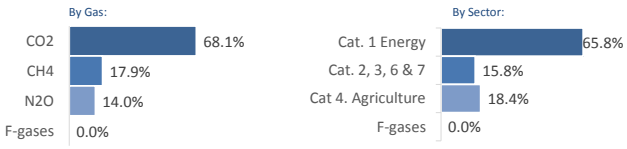
Per-Capita Emissions



GHG Emissions per GDP

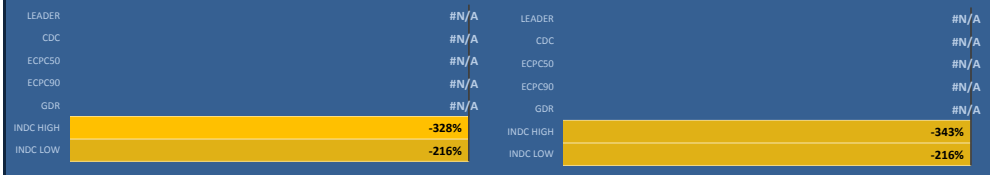


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2014 INDC: -259 to -412%; GDR:66% | 2030 rel. 2014 INDC: -259 to -434%; GDR:79%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	0	0	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	- 0	0	0	0	- 0	- 0	- 0	- 0	- 0	- 0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	125%	132%	150%	68%	49%	68%	26%	68%	20%
Relative 2000	80%	100%	106%	120%	55%	39%	55%	21%	55%	16%
Relative 2005	76%	95%	100%	114%	52%	37%	52%	20%	52%	15%
Relative 2010	67%	83%	88%	100%	46%	33%	46%	17%	46%	13%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	2.1	2.7	2.8	3.2	1.4	1.0	1.4	0.5	1.4	0.4
Relative 1990	100%	127%	132%	149%	65%	47%	64%	24%	64%	19%
Relative 2000	79%	100%	104%	118%	51%	37%	50%	19%	50%	15%
Relative 2005	76%	96%	100%	113%	49%	35%	48%	18%	48%	14%
Relative 2010	67%	85%	88%	100%	44%	31%	43%	16%	42%	12%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Dominican Republic

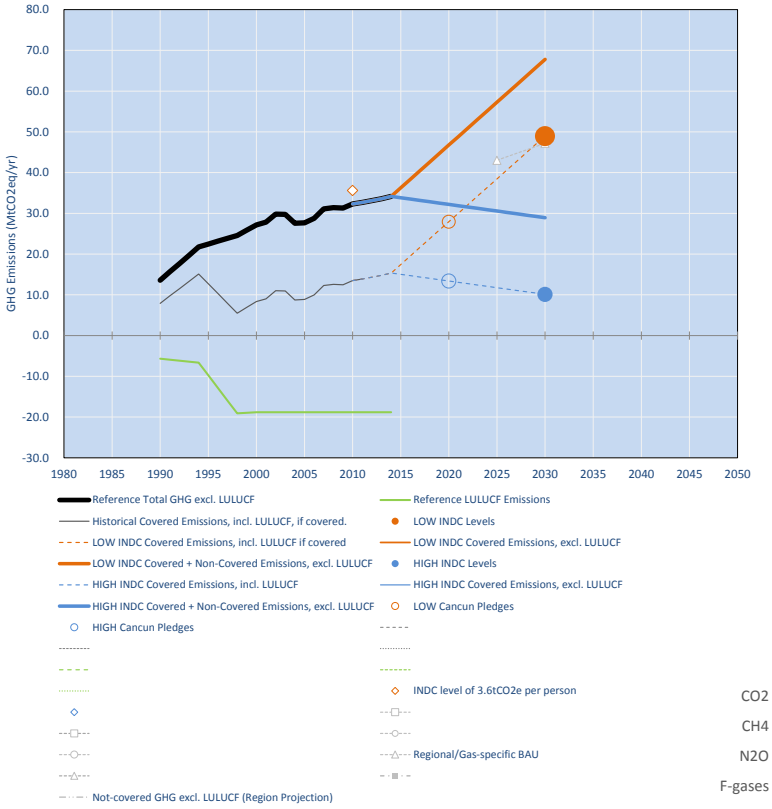
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+23%**

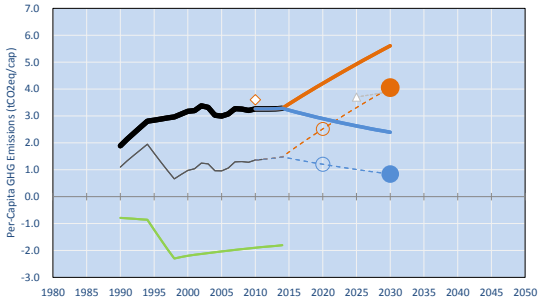
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 47 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #97	0.1% #97	0.1% #98
		-25% rel.2010(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.3t #120	3.8t #114	4t #110

INDC: Reduction of 25% of base year emissions (2010) by 2030, conditional pending on support, climate finance mechanisms and corrections to existing market mechanisms. (GWP SAR)

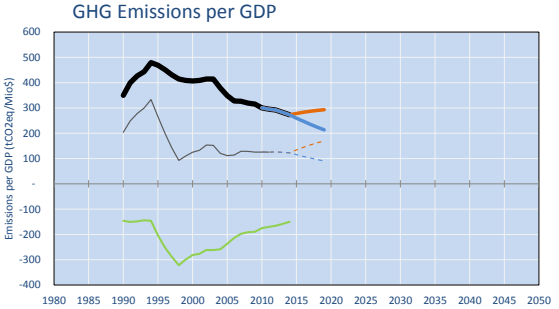
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2010 INDC: 185 to -13%; CDC:15%; ECPC50:15%; ECPC90:15%; GDR:-21%

2030 rel. 2010 INDC: 263 to -25%; CDC:16%; ECPC50:17%; ECPC90:17%; GDR:-32%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 6	- 19	- 19	- 19	- 19	- 19	- 19	- 19	- 19	- 19
INDC covered Emissions excl. LULUCF	14	27	28	32	47	32	57	31	68	29
Total GHG excl. LULUCF	14	27	28	32	47	32	57	31	68	29
Total GHG incl. LULUCF	8	8	9	13	28	13	38	12	49	10

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	200%	204%	238%	344%	237%	422%	225%	499%	213%
Relative 2000	50%	100%	102%	119%	172%	119%	211%	113%	250%	107%
Relative 2005	49%	98%	100%	117%	169%	116%	207%	110%	245%	104%
Relative 2010	42%	84%	86%	100%	145%	100%	177%	95%	210%	90%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	7	9	9	10	11	11	12	12	12	12
Per-Capita Emissions (tCO2eq/cap)	1.9	3.2	3.0	3.3	4.2	2.9	4.9	2.6	5.6	2.4
Relative 1990	100%	168%	159%	173%	223%	153%	261%	139%	297%	127%
Relative 2000	60%	100%	94%	103%	133%	91%	155%	83%	177%	75%
Relative 2005	63%	106%	100%	109%	141%	97%	164%	88%	187%	80%
Relative 2010	58%	97%	92%	100%	129%	89%	151%	81%	172%	73%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

No BAU level provided and hist. Emissions inconsistent, particularly LULUCF.

INDC FactSheet

Ecuador

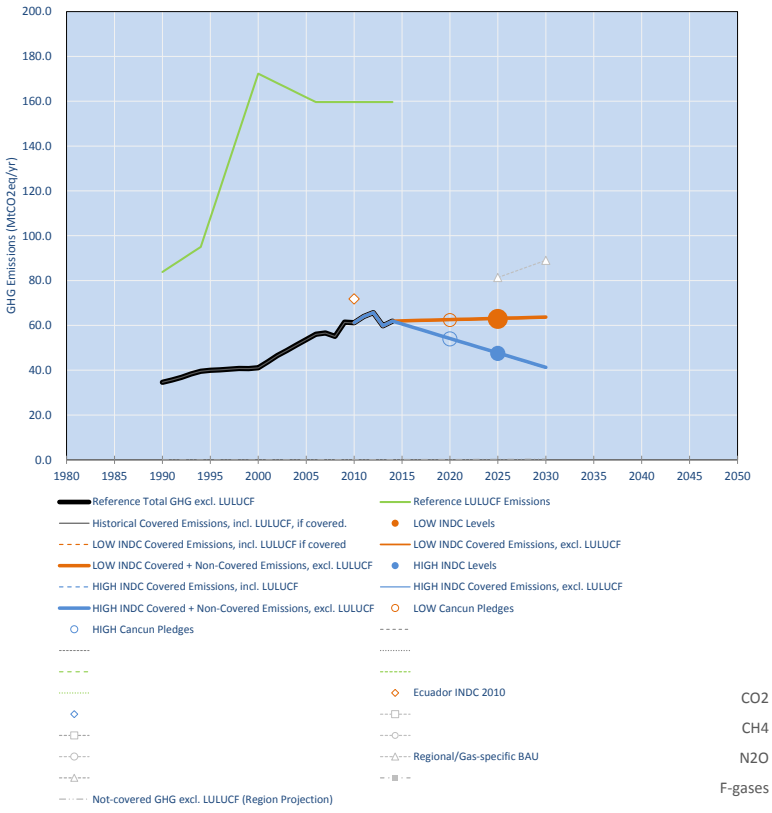
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-35%**

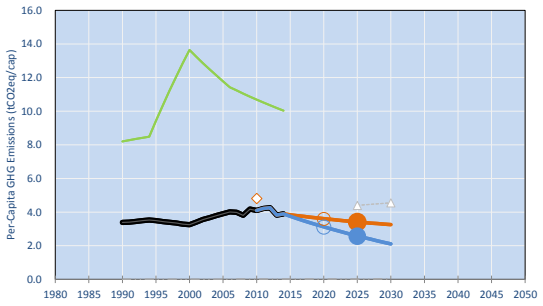
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	-23% rel. BAU of 81.4 Mt		Share of World Emissions excl. LULUCF (Rank):	0.1% #76	0.1% #87	0.1% #89
	-42% rel. BAU of 81.4 Mt(cond.)		Per-Capita Emissions (tCO2eq/cap)	4.1t #97	3t #126	2.7t #134

INDC: Aims to reduce emission in the energy sector by 20.4-25% compared to BAU levels by 2025 Conditional target: 37.5-45.8% compared to BAU levels pending international support. (GWP unclear)

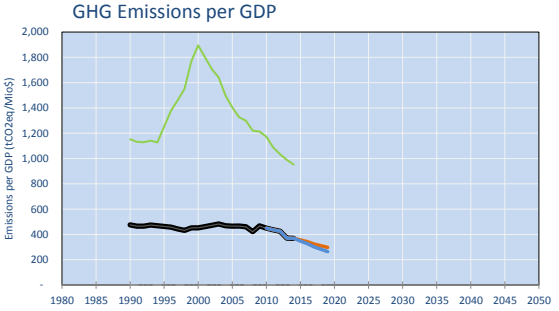
GHG Emissions



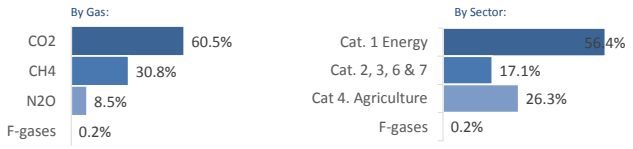
Per-Capita Emissions



GHG Emissions per GDP

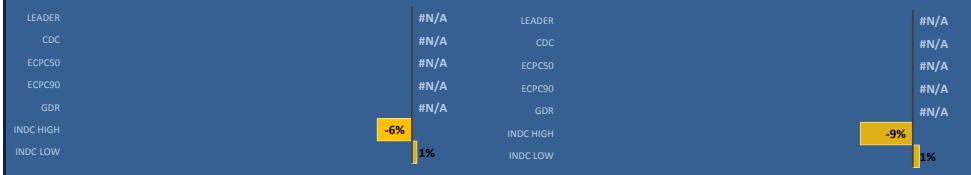


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	35	41	54	61	62	54	63	47	63	41
Total GHG excl. LULUCF	35	41	54	61	63	54	63	48	64	41
Total GHG incl. LULUCF	118	213	215	221	222	214	223	207	223	201

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	119%	155%	177%	181%	157%	183%	138%	184%	119%
Relative 2000	84%	100%	131%	149%	152%	132%	154%	116%	155%	100%
Relative 2005	64%	77%	100%	114%	117%	101%	118%	89%	119%	77%
Relative 2010	57%	67%	88%	100%	102%	88%	103%	78%	104%	67%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	13	14	15	17	17	18	18	20	20
Per-Capita Emissions (tCO2eq/cap)	3.4	3.3	3.9	4.1	3.6	3.1	3.4	2.6	3.3	2.1
Relative 1990	100%	96%	115%	121%	107%	92%	101%	76%	96%	62%
Relative 2000	104%	100%	120%	126%	111%	96%	105%	79%	100%	65%
Relative 2005	87%	83%	100%	105%	92%	80%	87%	66%	83%	54%
Relative 2010	83%	79%	95%	100%	88%	76%	83%	63%	79%	51%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

No quantification of broad set of policies and measures undertaken here.

INDC FactSheet

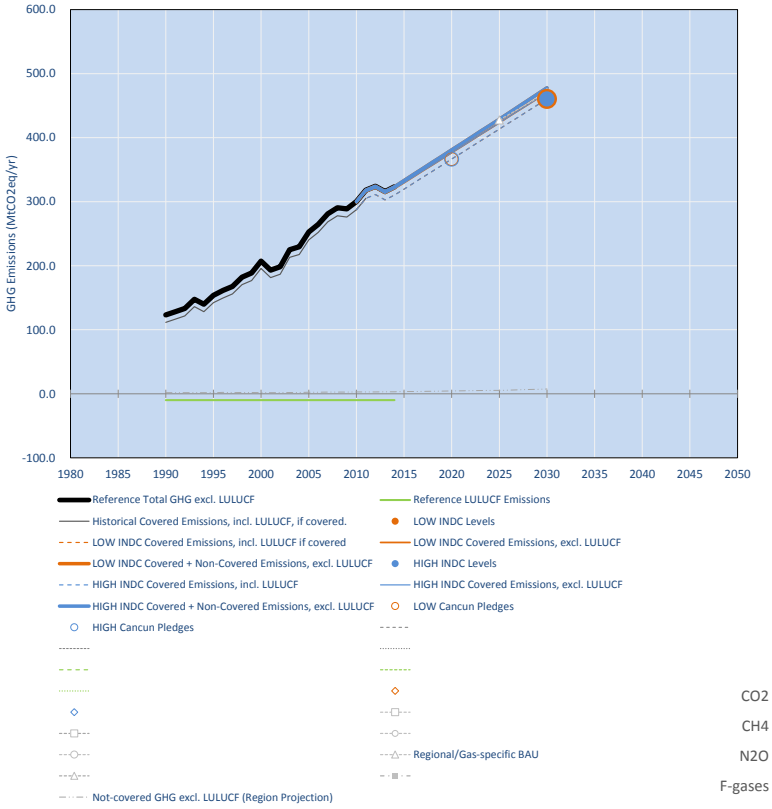
Egypt

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +11%

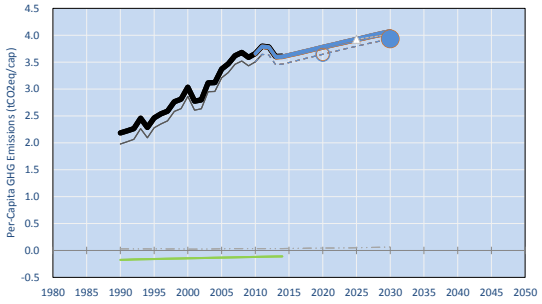
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 460 Mt	Share of World Emissions excl. LULUCF (Rank):	0.7% #29	0.8% #27	0.9% #22
			Per-Capita Emissions (tCO2eq/cap)	3.7t #108	3.9t #110	4.1t #107

INDC: A number of policies and measures, including phase out of energy subsidies in the next 3 to 5 years. But without quantification. . (GWP unclear)

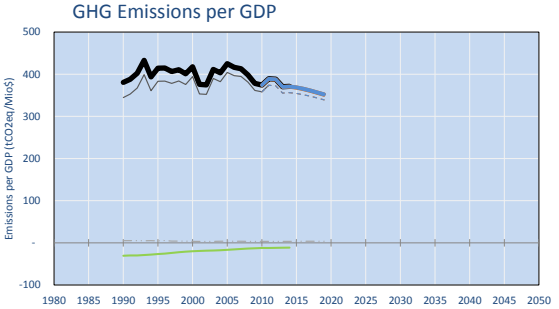
GHG Emissions



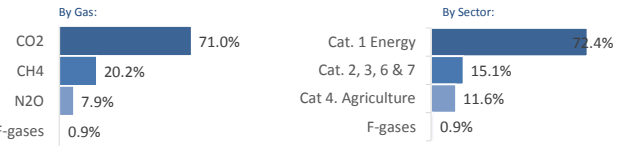
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	44%	61%
INDC LOW	44%	61%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 10	- 10	- 10	- 10	- 10	- 10	- 10	- 10	- 10	- 10
INDC covered Emissions excl. LULUCF	121	206	250	297	376	376	423	423	470	470
Total GHG excl. LULUCF	123	207	253	300	381	381	429	429	478	478
Total GHG incl. LULUCF	113	197	243	290	371	371	419	419	468	468

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	168%	205%	244%	309%	309%	348%	348%	388%	388%
Relative 2000	59%	100%	122%	145%	184%	184%	207%	207%	231%	231%
Relative 2005	49%	82%	100%	119%	151%	151%	170%	170%	189%	189%
Relative 2010	41%	69%	84%	100%	127%	127%	143%	143%	159%	159%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	56	68	75	82	101	101	109	109	117	117
Per-Capita Emissions (tCO2eq/cap)	2.2	3.0	3.4	3.7	3.8	3.8	3.9	3.9	4.1	4.1
Relative 1990	100%	139%	154%	168%	173%	173%	180%	180%	187%	187%
Relative 2000	72%	100%	111%	121%	125%	125%	130%	130%	135%	135%
Relative 2005	65%	90%	100%	109%	112%	112%	117%	117%	121%	121%
Relative 2010	60%	83%	92%	100%	104%	104%	108%	108%	111%	111%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

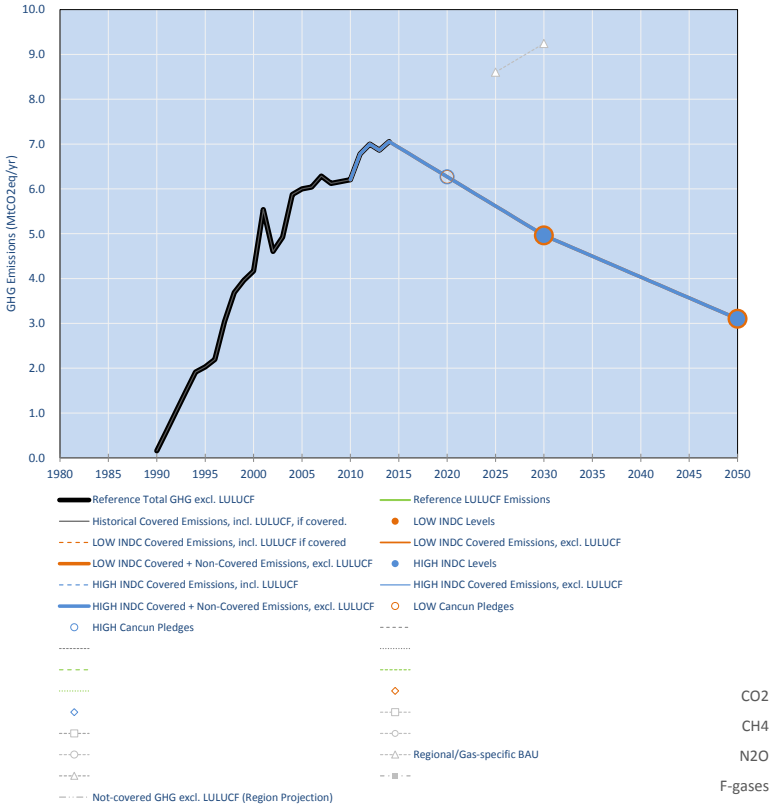
Equatorial Guinea

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-53%**

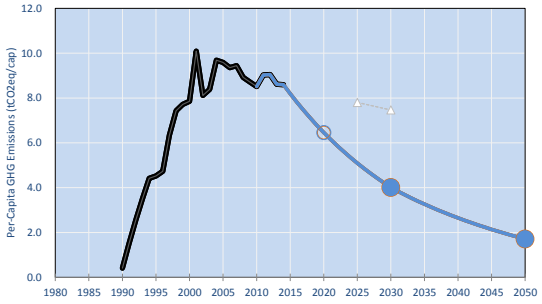
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-20% rel.2010(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.0% #150	0.0% #155	0.0% #160
			Per-Capita Emissions (tCO2eq/cap)	8.5t #53	5.1t #94	4t #109

INDC: Reduce emissions by 20% by 2030 relative to 2010 levels, aims to achieve a redution of 50% by 2050. Conditional on technical and financial support. (GWP unclear)

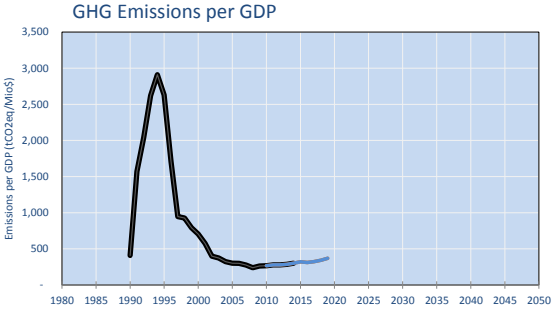
GHG Emissions



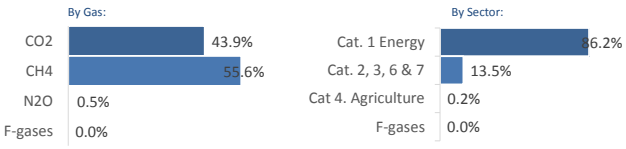
Per-Capita Emissions



GHG Emissions per GDP

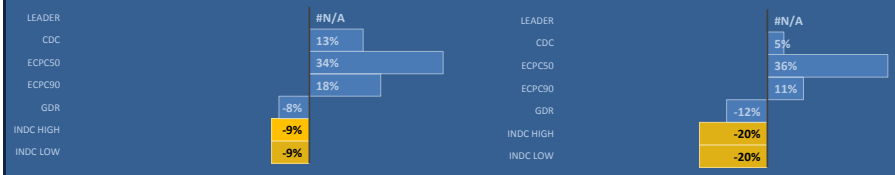


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2010 INDC: -9%; CDC:13%; ECPC50:34%; ECPC90:18%; GDR:-8% | 2030 rel. 2010 INDC: -20%; CDC:5%; ECPC50:36%; ECPC90:11%; GDR:-12%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	4	6	6	6	6	6	6	5	5
Total GHG excl. LULUCF	0	4	6	6	6	6	6	6	5	5
Total GHG incl. LULUCF	0	4	6	6	6	6	6	6	5	5

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	2676%	3853%	3984%	4026%	4026%	3607%	3607%	3187%	3187%
Relative 2000	4%	100%	144%	149%	150%	150%	135%	135%	119%	119%
Relative 2005	3%	69%	100%	103%	104%	104%	94%	94%	83%	83%
Relative 2010	3%	67%	97%	100%	101%	101%	91%	91%	80%	80%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	0.4	7.9	9.6	8.5	6.5	6.5	5.1	5.1	4.0	4.0
Relative 1990	100%	1902%	2323%	2063%	1565%	1565%	1235%	1235%	971%	971%
Relative 2000	5%	100%	122%	108%	82%	82%	65%	65%	51%	51%
Relative 2005	4%	82%	100%	89%	67%	67%	53%	53%	42%	42%
Relative 2010	5%	92%	113%	100%	76%	76%	60%	60%	47%	47%

Data Sources:

Cat1_CO2	COUNTRY-SPECIFIC USER DATA
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Large historical data discrepancy

INDC FactSheet

Eritrea

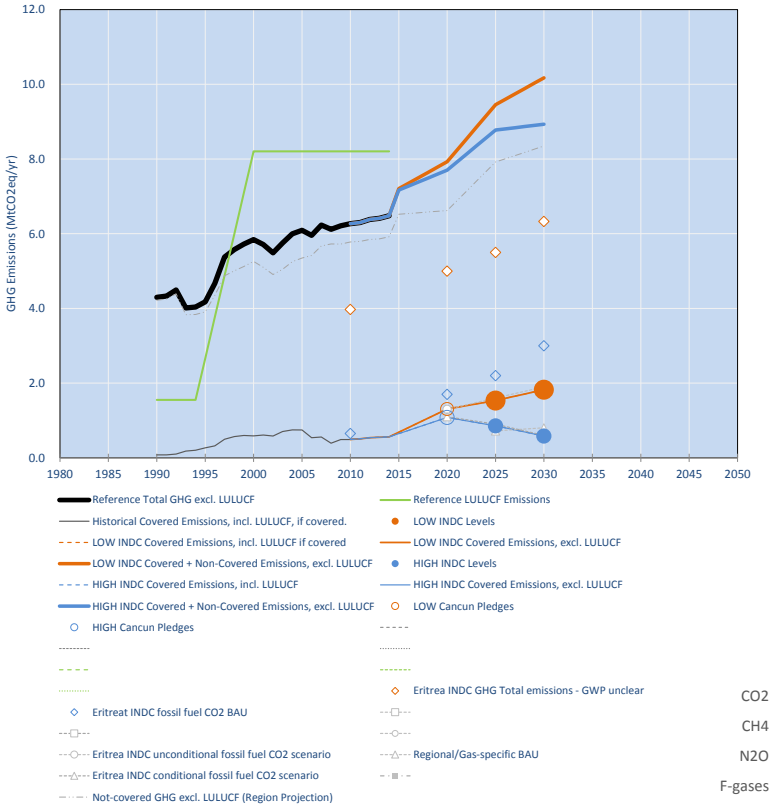
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-2%**

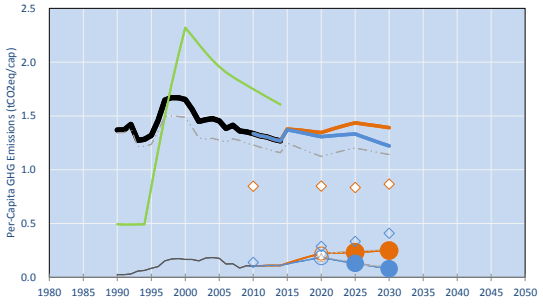
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-23% rel. BAU of 1.7	-30% rel. BAU of 2.2 Mt	-39% rel. BAU of 3 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #149	0.0% #148	0.0% #147
-36% rel. BAU of 1.7(cond.)	-61% rel. BAU of 2.2 Mt(cond.)	-81% rel. BAU of 3 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.3t #174	1.4t #171	1.3t #176

INDC: 5% emission reduction from BAU by 2030 in power, transport and industry sectors; conditional target: 15% reduction from BAU levels by 2030 subject to international support. (2006 IPCC Guidelines)

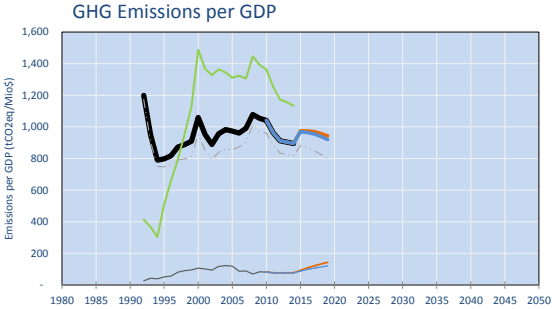
GHG Emissions



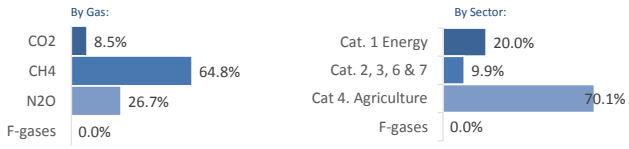
Per-Capita Emissions



GHG Emissions per GDP

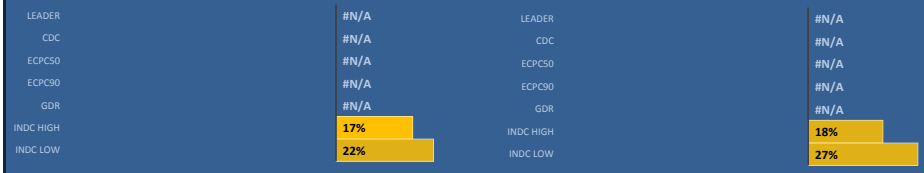


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	1	1	0	1	1	2	1	2	1
Total GHG excl. LULUCF	4	6	6	6	8	8	9	9	10	9
Total GHG incl. LULUCF	6	14	14	14	16	16	18	17	18	17

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	136%	142%	146%	184%	179%	220%	204%	237%	208%
Relative 2000	74%	100%	104%	107%	136%	132%	162%	150%	174%	153%
Relative 2005	71%	96%	100%	103%	130%	126%	155%	144%	167%	147%
Relative 2010	69%	93%	97%	100%	126%	123%	151%	140%	162%	142%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	4	4	5	6	6	7	7	7	7
Per-Capita Emissions (tCO2eq/cap)	1.4	1.7	1.5	1.3	1.3	1.3	1.4	1.3	1.4	1.2
Relative 1990	100%	121%	106%	98%	98%	95%	105%	97%	102%	89%
Relative 2000	83%	100%	88%	81%	81%	79%	87%	81%	84%	74%
Relative 2005	94%	114%	100%	92%	93%	90%	99%	92%	96%	84%
Relative 2010	102%	124%	109%	100%	101%	98%	107%	100%	104%	91%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al.; www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

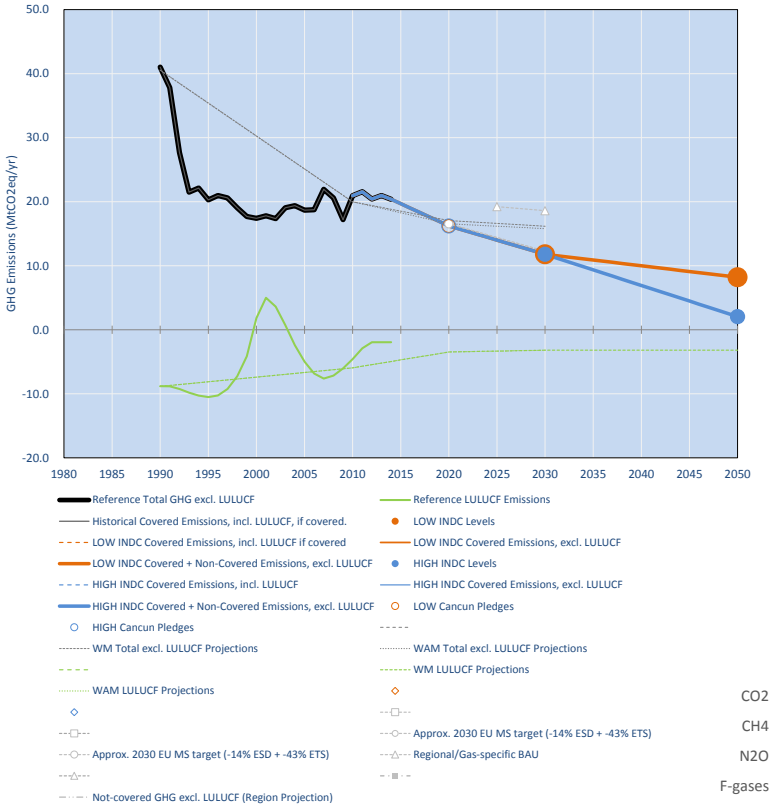
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Estonia

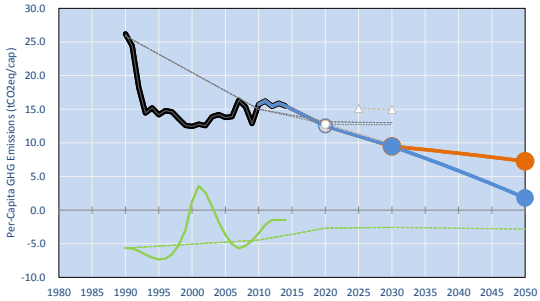
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -40%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.0% #118	0.0% #140	0.0% #143
			Per-Capita Emissions (tCO2eq/cap)	15.7t #17	11t #30	9.5t #36

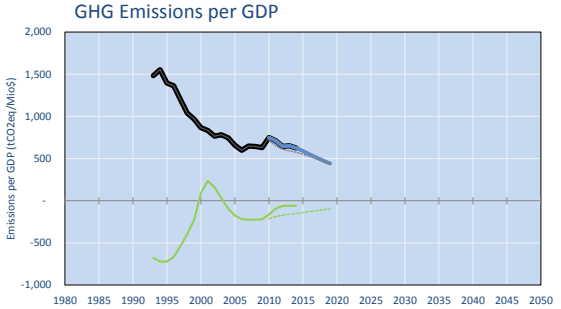
GHG Emissions



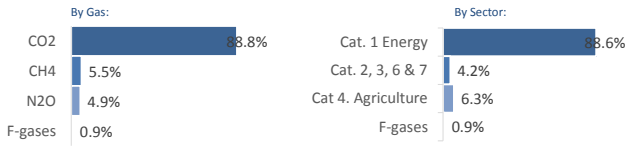
Per-Capita Emissions



GHG Emissions per GDP

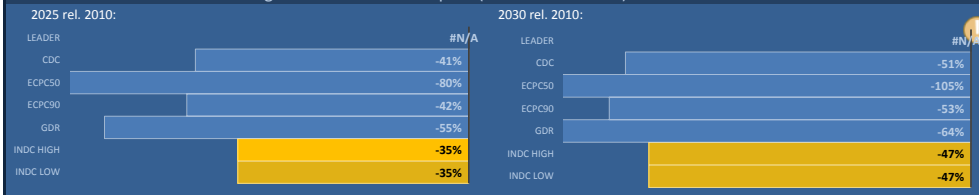


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					0	0	0			
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	41	17	19	21	16	16	14	14	12	12
Total GHG excl. LULUCF	41	17	19	21	16	16	14	14	12	12
Total GHG incl. LULUCF	32	19	14	16	13	13	11	11	9	9

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	42%	46%	51%	40%	40%	34%	34%	29%	29%
Relative 2000	236%	100%	107%	120%	93%	93%	80%	80%	68%	68%
Relative 2005	220%	93%	100%	112%	87%	87%	75%	75%	63%	63%
Relative 2010	196%	83%	89%	100%	77%	77%	67%	67%	56%	56%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	26.2	12.4	13.8	15.7	12.5	12.5	11.0	11.0	9.5	9.5
Relative 1990	100%	47%	53%	60%	48%	48%	42%	42%	36%	36%
Relative 2000	211%	100%	111%	126%	101%	101%	89%	89%	76%	76%
Relative 2005	190%	90%	100%	114%	91%	91%	80%	80%	69%	69%
Relative 2010	167%	79%	88%	100%	80%	80%	70%	70%	60%	60%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Mismatch in historical forestry data. INDC: 55 Mt in 2010.

INDC FactSheet

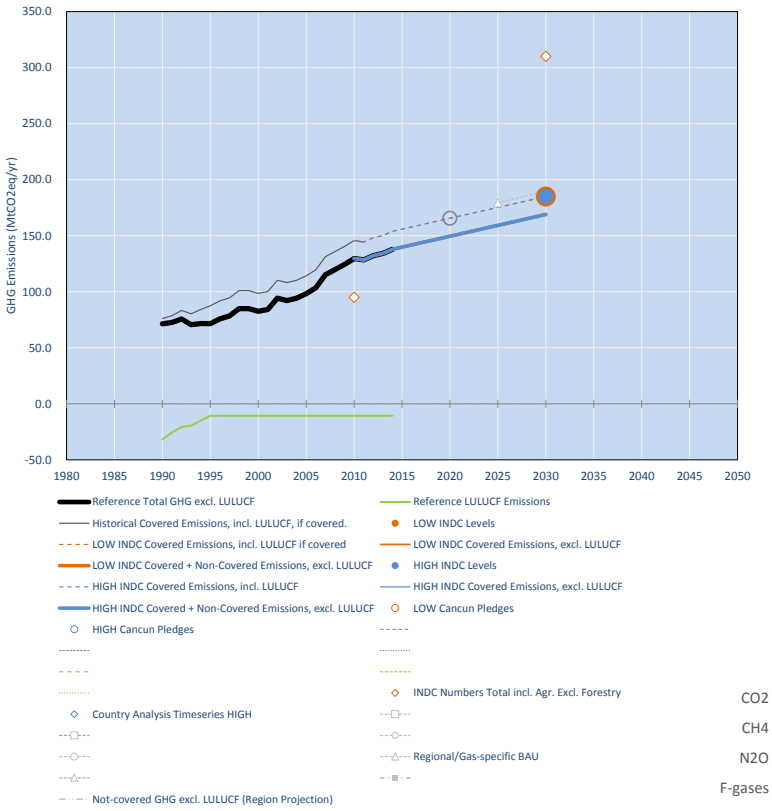
Ethiopia

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-18%**

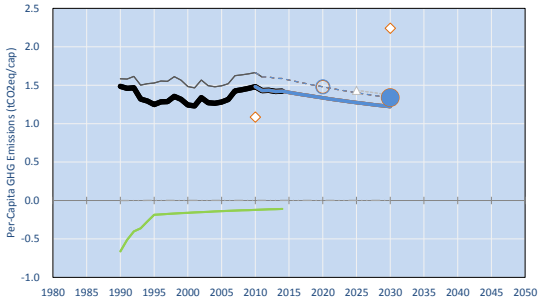
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-40% rel. BAU of 310 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.3% #46	0.3% #46	0.3% #46
			Per-Capita Emissions (tCO2eq/cap)	1.5t #165	1.3t #176	1.2t #178

INDC: 64% reduction of GHG emissions from the BAU scenario in 2030, depending on support in finance, capacity building and technology transfer. (GWP AR4)

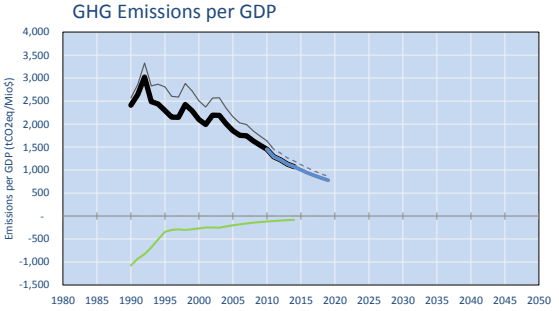
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	25%	33%
INDC LOW	25%	33%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	5	16	16	16	16	16	16	16	16	16
INDC covered Emissions excl. LULUCF	71	83	98	130	150	150	159	159	169	169
Total GHG excl. LULUCF	71	83	98	130	150	150	159	159	169	169
Total GHG incl. LULUCF	40	72	88	119	139	139	149	149	158	158

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	116%	138%	182%	210%	210%	223%	223%	237%	237%
Relative 2000	86%	100%	119%	157%	181%	181%	193%	193%	205%	205%
Relative 2005	73%	84%	100%	132%	152%	152%	162%	162%	172%	172%
Relative 2010	55%	64%	76%	100%	115%	115%	123%	123%	130%	130%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	48	66	77	88	112	112	125	125	138	138
Per-Capita Emissions (tCO2eq/cap)	1.5	1.2	1.3	1.5	1.3	1.3	1.3	1.3	1.2	1.2
Relative 1990	100%	84%	86%	100%	90%	90%	86%	86%	82%	82%
Relative 2000	120%	100%	103%	119%	108%	108%	103%	103%	98%	98%
Relative 2005	116%	97%	100%	116%	104%	104%	99%	99%	95%	95%
Relative 2010	100%	84%	87%	100%	90%	90%	86%	86%	82%	82%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Fiji

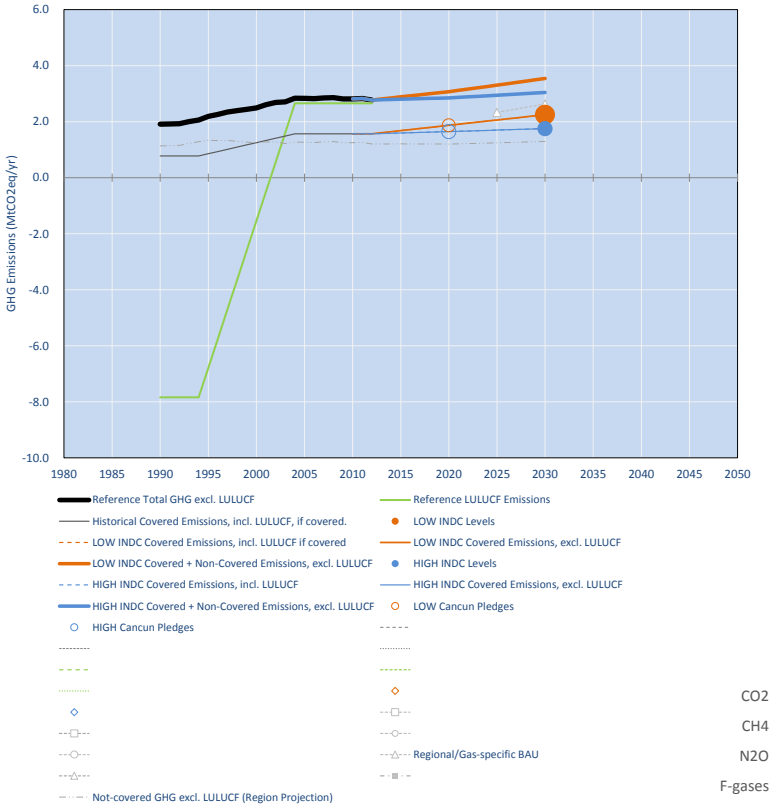
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +7%

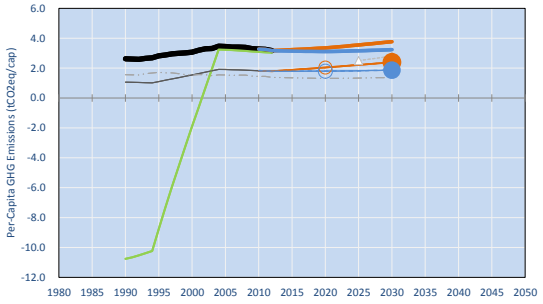
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-10% rel. BAU of 3 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #164	0.0% #164	0.0% #163
		-30% rel. BAU of 3 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.3t #119	3.4t #119	3.5t #117

INDC: 10% unconditional and a total of 30% conditional reduction below BAU (not quantified) by 2030. . ()

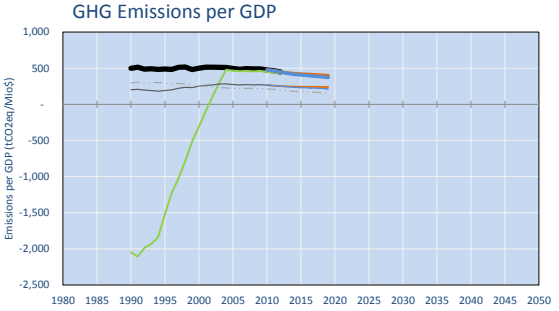
GHG Emissions



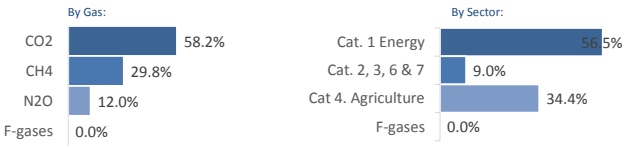
Per-Capita Emissions



GHG Emissions per GDP

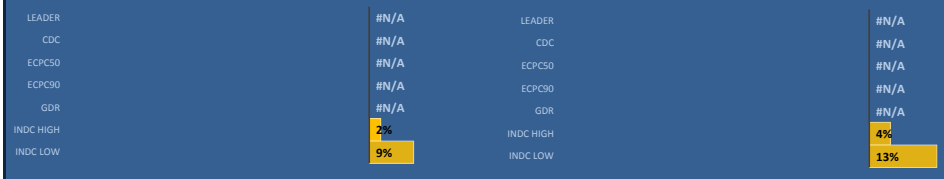


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	1	1	2	2	2	2	2	2	2	2
Total GHG excl. LULUCF	2	2	3	3	3	3	3	3	4	3
Total GHG incl. LULUCF	- 6	1	5	5	6	6	6	6	6	6

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	130%	148%	147%	161%	149%	173%	154%	185%	159%
Relative 2000	77%	100%	114%	113%	123%	114%	133%	118%	142%	122%
Relative 2005	67%	88%	100%	99%	108%	101%	117%	104%	125%	107%
Relative 2010	68%	89%	101%	100%	109%	101%	117%	105%	126%	108%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	2.6	3.1	3.4	3.3	3.4	3.1	3.5	3.2	3.8	3.2
Relative 1990	100%	117%	131%	125%	128%	119%	135%	121%	144%	123%
Relative 2000	85%	100%	112%	107%	109%	101%	116%	103%	123%	105%
Relative 2005	76%	89%	100%	95%	97%	90%	103%	92%	109%	94%
Relative 2010	80%	94%	105%	100%	102%	95%	108%	97%	115%	99%

Data Sources:

Cat1_CO2	UNFCCC CRF & Nat. Comm	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

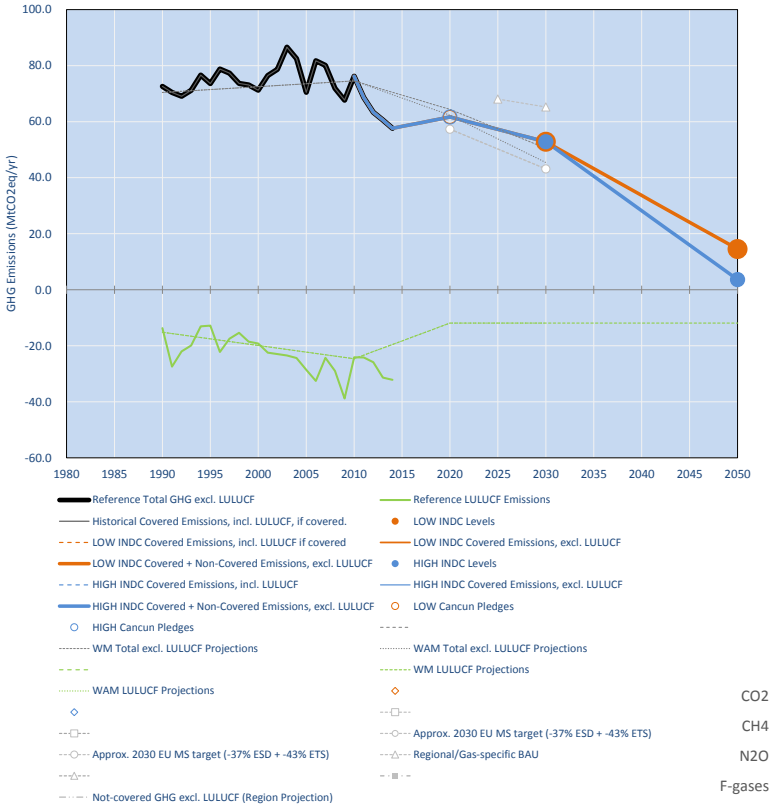
INDC FactSheet

Finland

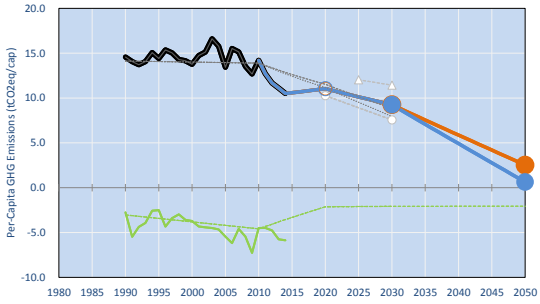
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-35%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.2% #66	0.1% #84	0.1% #87
			Per-Capita Emissions (tCO2eq/cap)	14.2t #21	10.1t #34	9.3t #37

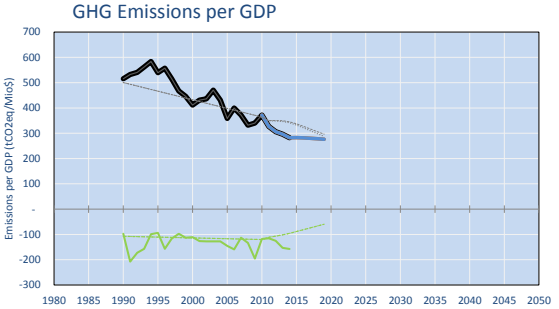
GHG Emissions



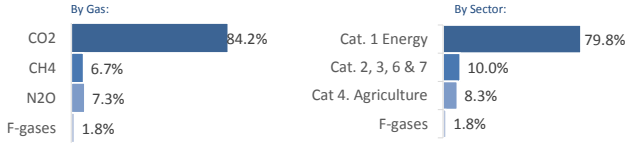
Per-Capita Emissions



GHG Emissions per GDP

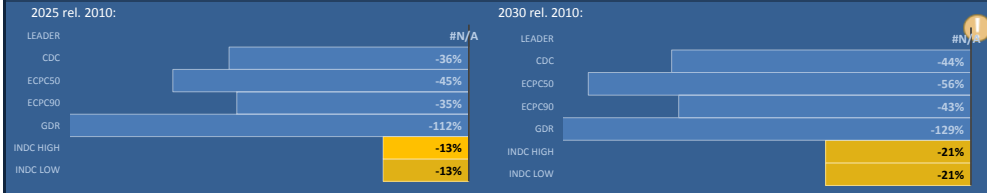


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-4	-4	-10	-10	-10	-10
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	73	71	70	76	62	62	57	57	53	53
Total GHG excl. LULUCF	73	71	70	76	62	62	57	57	53	53
Total GHG incl. LULUCF	59	52	42	52	50	50	45	45	41	41

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	98%	97%	105%	85%	85%	79%	79%	73%	73%
Relative 2000	102%	100%	99%	107%	87%	87%	80%	80%	74%	74%
Relative 2005	103%	101%	100%	108%	87%	87%	81%	81%	75%	75%
Relative 2010	95%	94%	92%	100%	81%	81%	75%	75%	69%	69%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	5	5	5	6	6	6	6	6	6
Per-Capita Emissions (tCO2eq/cap)	14.6	13.8	13.4	14.2	11.0	11.0	10.1	10.1	9.3	9.3
Relative 1990	100%	95%	92%	98%	76%	76%	70%	70%	64%	64%
Relative 2000	106%	100%	98%	103%	80%	80%	74%	74%	67%	67%
Relative 2005	108%	102%	100%	106%	82%	82%	75%	75%	69%	69%
Relative 2010	103%	97%	95%	100%	78%	78%	71%	71%	65%	65%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

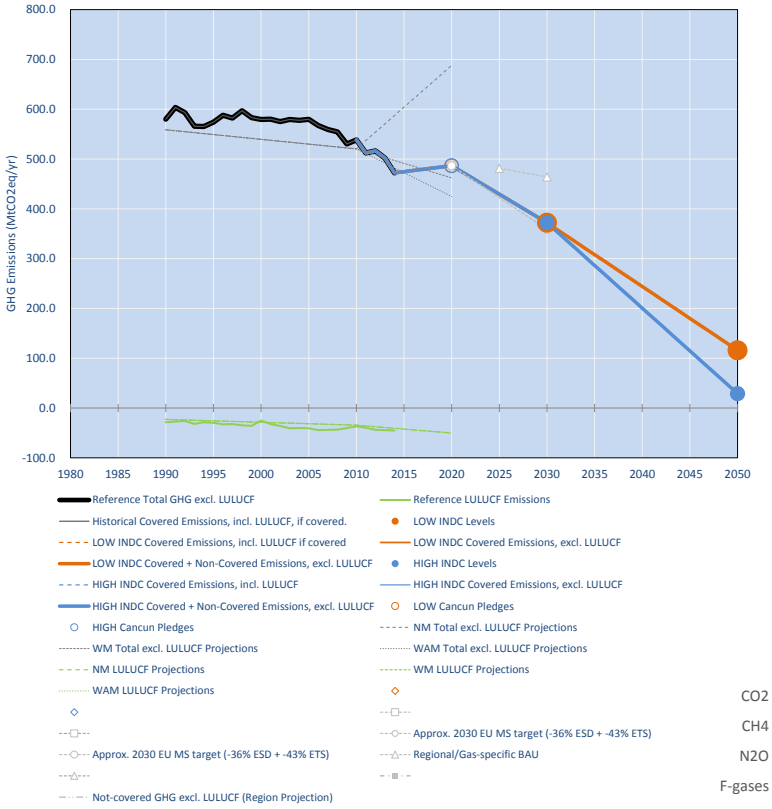
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

France

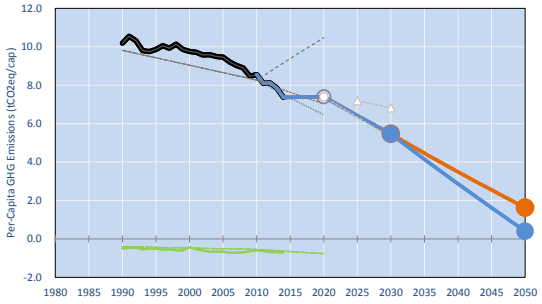
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -36%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	1.2% #18	0.8% #26	0.7% #29
			Per-Capita Emissions (tCO2eq/cap)	8.6t #51	6.4t #71	5.5t #85

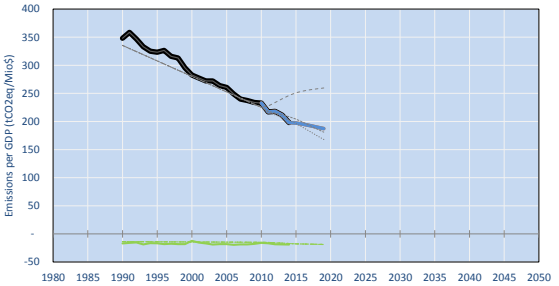
GHG Emissions



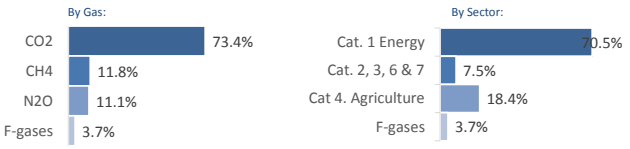
Per-Capita Emissions



GHG Emissions per GDP

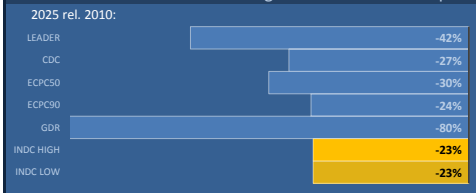


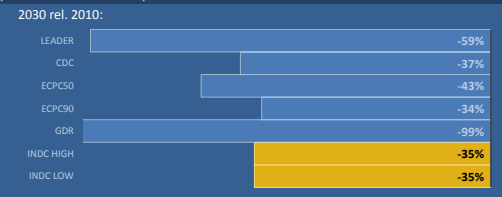
2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org





"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 0	- 0	- 13	- 13	- 13	- 13
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	580	580	580	539	487	487	429	429	372	372
Total GHG excl. LULUCF	580	580	580	539	487	487	429	429	372	372
Total GHG incl. LULUCF	552	554	539	502	436	436	384	384	327	327

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	100%	100%	93%	84%	84%	74%	74%	64%	64%
Relative 2000	100%	100%	100%	93%	84%	84%	74%	74%	64%	64%
Relative 2005	100%	100%	100%	93%	84%	84%	74%	74%	64%	64%
Relative 2010	108%	108%	108%	100%	90%	90%	80%	80%	69%	69%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	57	59	61	63	66	66	67	67	68	68
Per-Capita Emissions (tCO2eq/cap)	10.2	9.8	9.5	8.6	7.4	7.4	6.4	6.4	5.5	5.5
Relative 1990	100%	96%	93%	84%	73%	73%	63%	63%	54%	54%
Relative 2000	104%	100%	97%	88%	76%	76%	66%	66%	56%	56%
Relative 2005	108%	103%	100%	90%	78%	78%	68%	68%	58%	58%
Relative 2010	119%	114%	111%	100%	87%	87%	75%	75%	64%	64%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Quantification unclear. Reference case assumed. Online UNFCCC database point of -500 Mt ignored.

INDC FactSheet

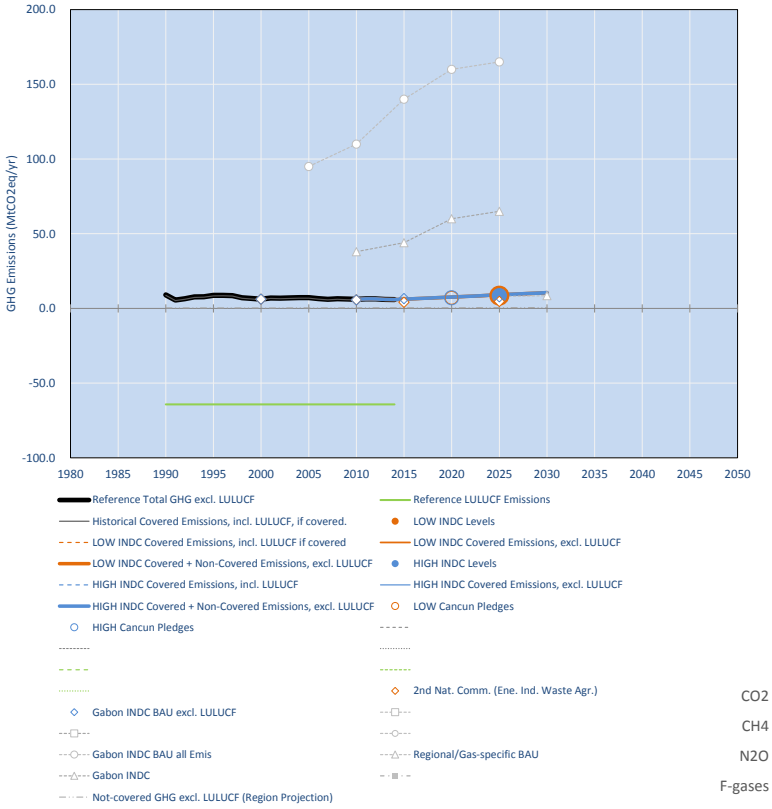
Gabon

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +14%

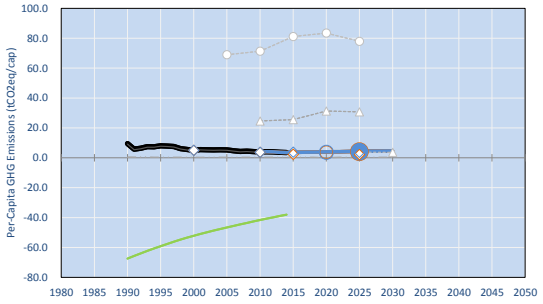
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	0% rel. BAU of 8.5 Mt		Share of World Emissions excl. LULUCF (Rank):	0.0% #151	0.0% #149	0.0% #145
			Per-Capita Emissions (tCO2eq/cap)	4t #99	4.3t #104	4.6t #101

INDC: At least 50 % GHG reduction below BAU by 2025, not including forests. (GWP unclear)

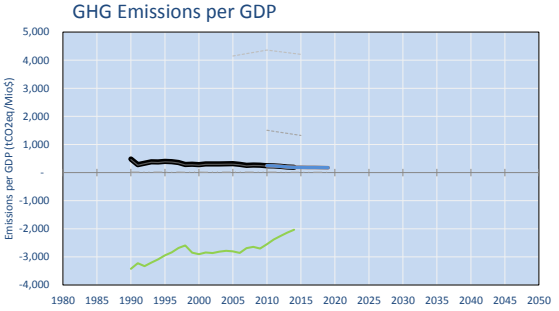
GHG Emissions



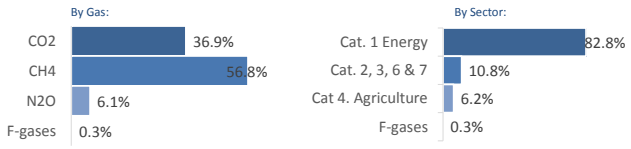
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	9	6	7	6	7	7	9	9	10	10
Total GHG excl. LULUCF	9	6	7	6	8	8	9	9	11	11
Total GHG incl. LULUCF	- 55	- 58	- 57	- 58	- 57	- 57	- 55	- 55	- 54	- 54

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	69%	80%	68%	84%	84%	100%	100%	117%	117%
Relative 2000	146%	100%	116%	99%	122%	122%	146%	146%	170%	170%
Relative 2005	125%	86%	100%	85%	105%	105%	126%	126%	146%	146%
Relative 2010	147%	101%	118%	100%	124%	124%	148%	148%	172%	172%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	2	2	2	2	2	2	2
Per-Capita Emissions (tCO2eq/cap)	9.5	5.1	5.3	4.0	4.0	4.0	4.3	4.3	4.6	4.6
Relative 1990	100%	53%	55%	42%	42%	42%	45%	45%	48%	48%
Relative 2000	188%	100%	104%	79%	79%	79%	85%	85%	90%	90%
Relative 2005	181%	96%	100%	76%	75%	75%	82%	82%	87%	87%
Relative 2010	238%	127%	132%	100%	100%	100%	108%	108%	114%	114%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
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Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

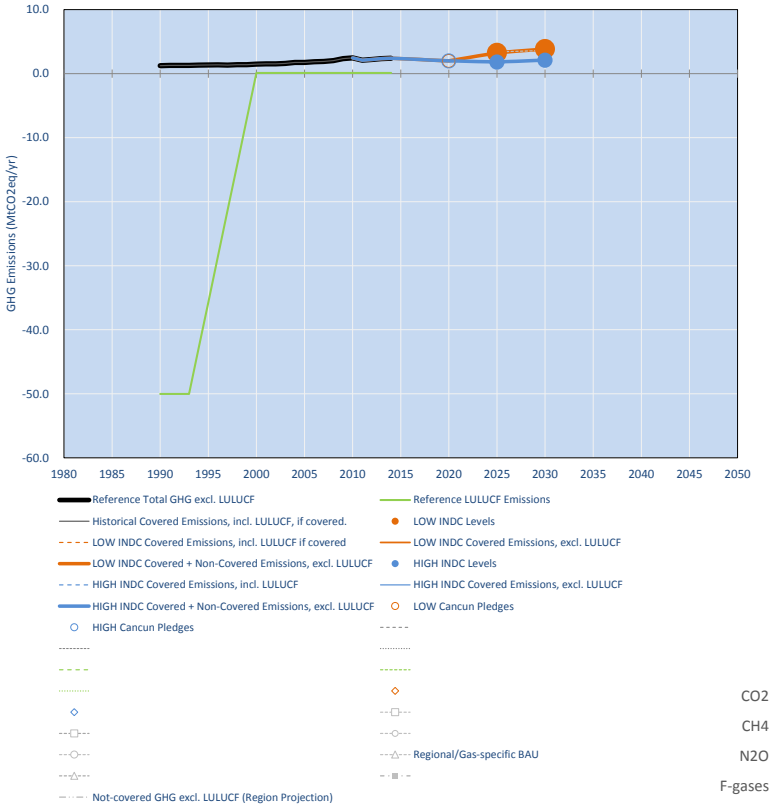
Gambia

Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

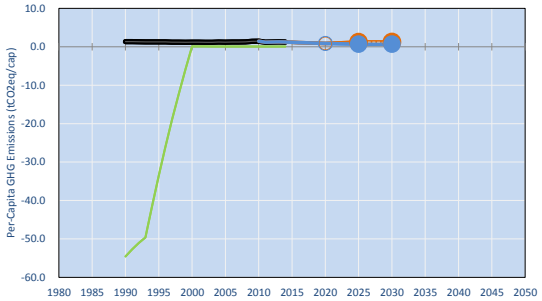
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-34%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	0% rel. BAU of 3.3 Mt -44% rel. BAU of 3.3 Mt(cond.)	0% rel. BAU of 4 Mt -45% rel. BAU of 4 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.0% #166	0.0% #166	0.0% #165
			Per-Capita Emissions (tCO2eq/cap)	1.5t #166	0.9t #184	1t #182

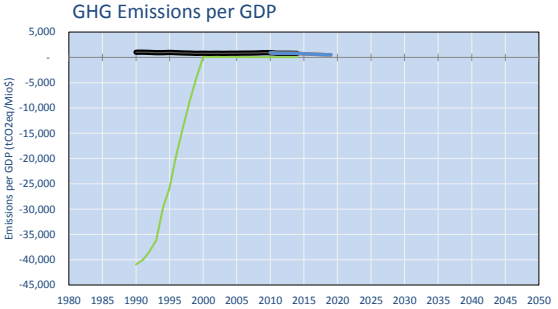
GHG Emissions



Per-Capita Emissions



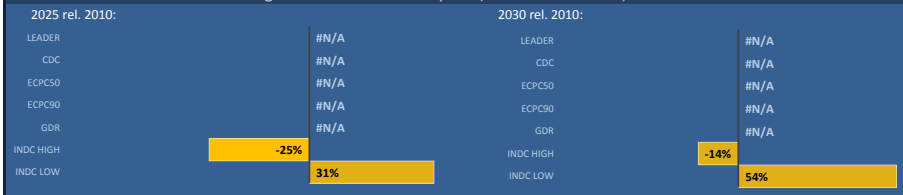
GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

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CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	1	1	2	2	2	2	3	2	4	2
Total GHG excl. LULUCF	1	1	2	2	2	2	3	2	4	2
Total GHG incl. LULUCF	- 49	2	2	3	2	2	3	2	4	2

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	120%	140%	198%	161%	161%	263%	146%	310%	170%
Relative 2000	84%	100%	117%	165%	134%	134%	219%	122%	259%	142%
Relative 2005	71%	85%	100%	141%	115%	115%	187%	104%	221%	121%
Relative 2010	51%	60%	71%	100%	81%	81%	133%	74%	157%	86%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	2	2	2	3	3	3	3
Per-Capita Emissions (tCO2eq/cap)	1.4	1.2	1.2	1.5	0.9	0.9	1.2	0.7	1.2	0.7
Relative 1990	100%	89%	89%	107%	63%	63%	89%	50%	92%	50%
Relative 2000	112%	100%	100%	120%	71%	71%	100%	56%	103%	56%
Relative 2005	112%	100%	100%	120%	71%	71%	100%	56%	103%	56%
Relative 2010	93%	83%	83%	100%	59%	59%	83%	46%	86%	47%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Georgia

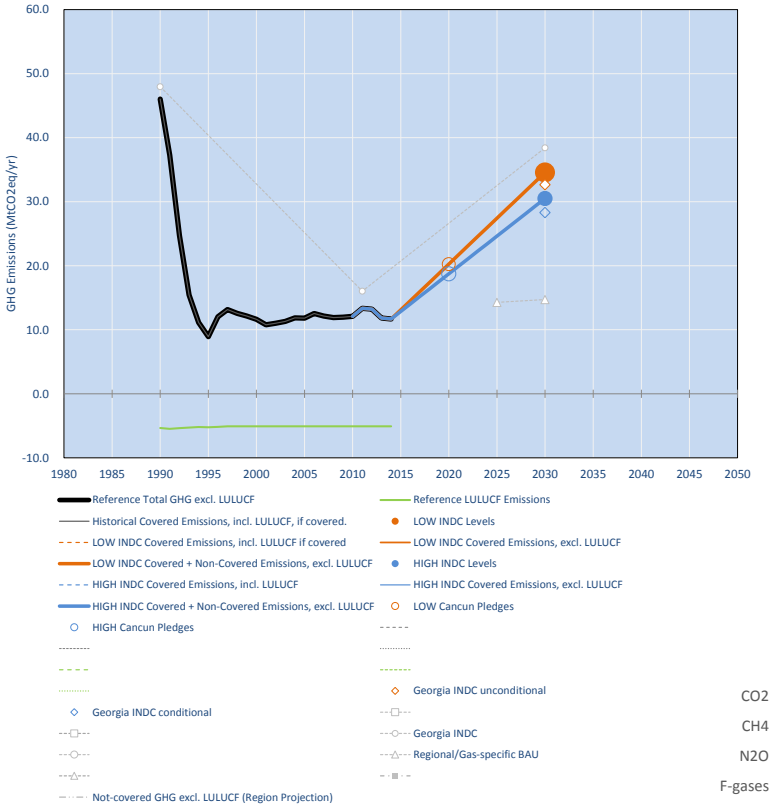
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +195%

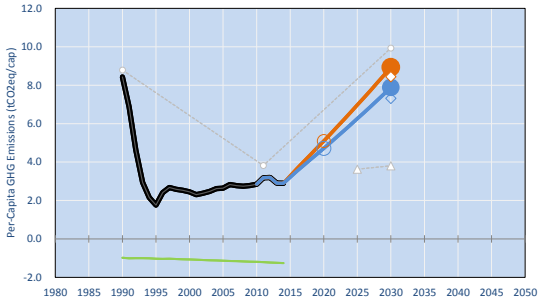
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-15% rel. BAU of 38 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #135	0.0% #118	0.1% #111
		-25% rel. BAU of 38 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.8t #128	6.6t #69	8.4t #43

INDC: 15% emission reduction by 2030 compared to BAU Conditional target: 25% emission reduction by 2030 subject to global agreement adressing technology coorperation, access to low-cost financial resources and technology transfer. (GWP SAR)

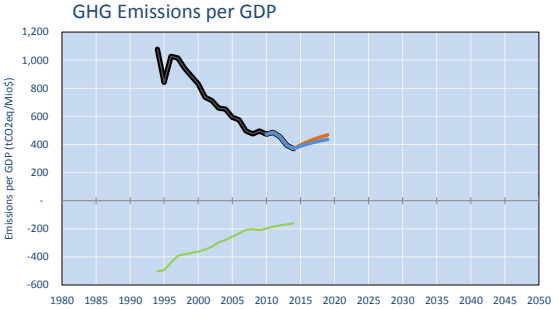
GHG Emissions



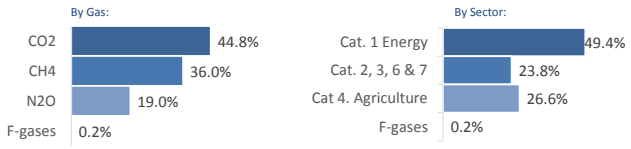
Per-Capita Emissions



GHG Emissions per GDP

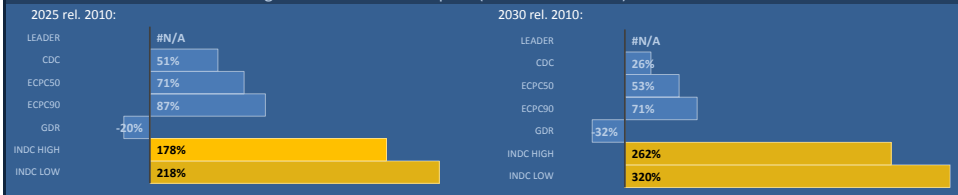


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	46	12	12	12	20	19	27	25	35	31
Total GHG excl. LULUCF	46	12	12	12	20	19	27	25	35	31
Total GHG incl. LULUCF	41	7	7	7	15	14	22	20	29	25

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	25%	26%	26%	44%	41%	60%	54%	75%	66%
Relative 2000	395%	100%	102%	104%	174%	161%	236%	212%	297%	262%
Relative 2005	389%	98%	100%	102%	172%	159%	232%	208%	293%	258%
Relative 2010	380%	96%	98%	100%	167%	155%	226%	203%	286%	252%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	5	4	4	4	4	4	4	4	4
Per-Capita Emissions (tCO2eq/cap)	8.4	2.5	2.6	2.8	5.1	4.7	7.0	6.3	8.9	7.9
Relative 1990	100%	29%	31%	34%	60%	56%	83%	74%	106%	94%
Relative 2000	344%	100%	108%	116%	208%	192%	284%	255%	364%	321%
Relative 2005	319%	93%	100%	108%	193%	178%	264%	237%	338%	299%
Relative 2010	296%	86%	93%	100%	179%	165%	245%	220%	314%	277%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
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Metric	GWP AR4

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

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PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

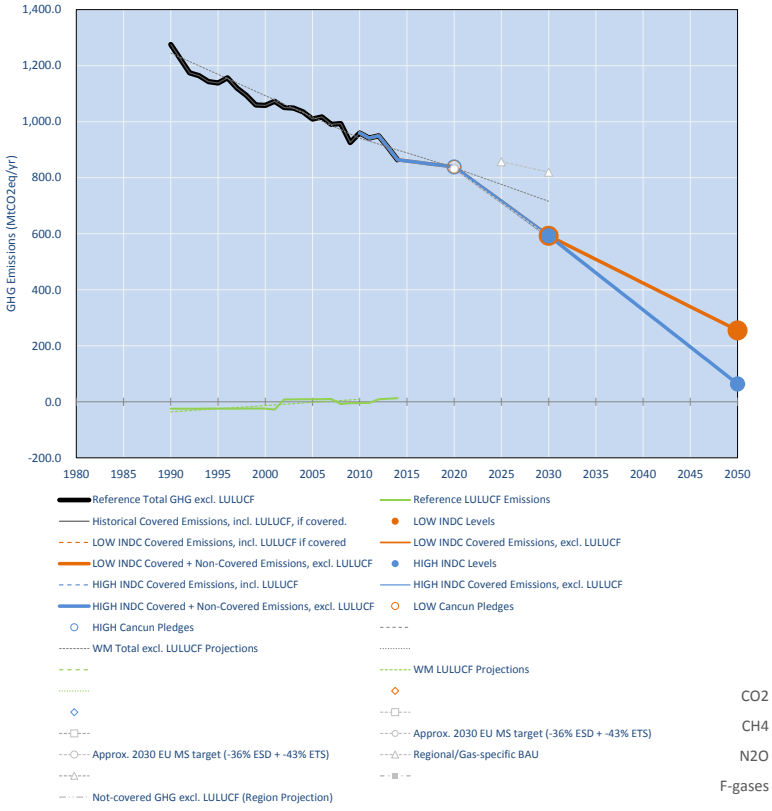
INDC FactSheet

Germany

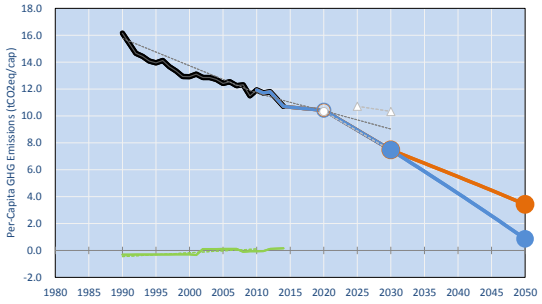
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -37%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		-55% rel.1990	Share of World Emissions excl. LULUCF (Rank):	2.1% #8	1.3% #13	1.1% #17
			Per-Capita Emissions (tCO2eq/cap)	11.9t #28	8.9t #42	7.5t #56

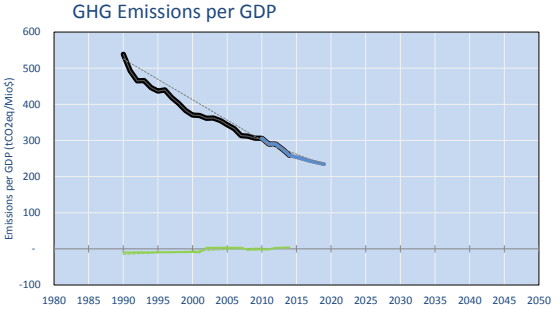
GHG Emissions



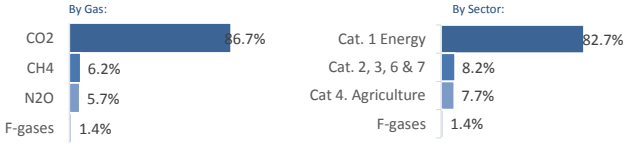
Per-Capita Emissions



GHG Emissions per GDP

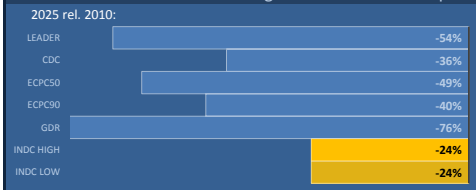


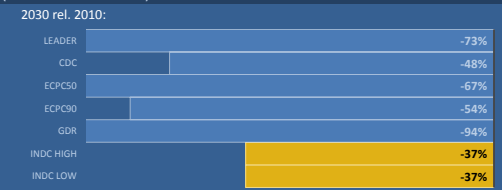
2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org





"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -42%; Leader:-65%; CDC:-51%; ECPC50:-61%; ECPC90:-54%; GDR:-82%

2030 rel. 1990 INDC: -52%; Leader:-79%; CDC:-60%; ECPC50:-75%; ECPC90:-65%; GDR:-95%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 7	- 7	- 19	- 19	- 19	- 19
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	1,275	1,058	1,009	960	838	838	716	716	593	593
Total GHG excl. LULUCF	1,275	1,058	1,009	960	838	838	716	716	593	593
Total GHG incl. LULUCF	1,251	1,034	1,018	955	838	838	729	729	606	606

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	83%	79%	75%	66%	66%	56%	56%	46%	46%
Relative 2000	121%	100%	95%	91%	79%	79%	68%	68%	56%	56%
Relative 2005	126%	105%	100%	95%	83%	83%	71%	71%	59%	59%
Relative 2010	133%	110%	105%	100%	87%	87%	75%	75%	62%	62%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	79	82	81	80	80	80	80	80	79	79
Per-Capita Emissions (tCO2eq/cap)	16.2	12.9	12.4	11.9	10.4	10.4	8.9	8.9	7.5	7.5
Relative 1990	100%	80%	77%	74%	65%	65%	55%	55%	46%	46%
Relative 2000	125%	100%	96%	92%	81%	81%	69%	69%	58%	58%
Relative 2005	130%	104%	100%	96%	84%	84%	72%	72%	60%	60%
Relative 2010	135%	108%	104%	100%	87%	87%	75%	75%	63%	63%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
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Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
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Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Metric	GWP AR4

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Ghana

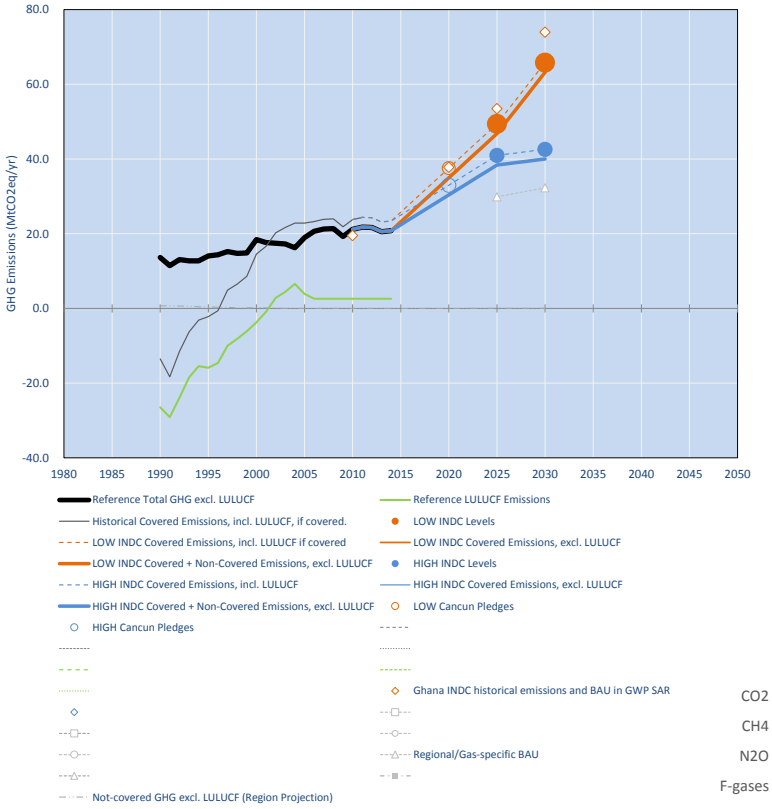
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+61%**

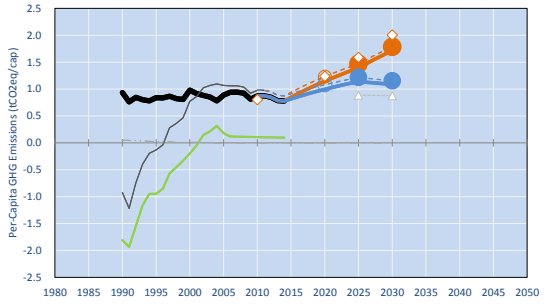
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	-12% rel. BAU of 53.5 Mt	-15% rel. BAU of 74 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #117	0.1% #100	0.1% #90
	-27% rel. BAU of 53.5 Mt	-45% rel. BAU of 74 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	0.9t #189	1.3t #177	1.4t #172

INDC: 14% emission reduction by 2030 compared to BAU. (GWP SAR)

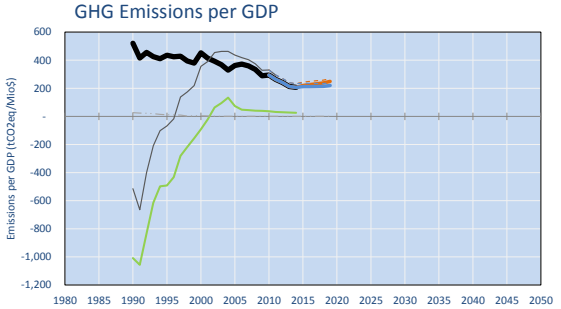
GHG Emissions



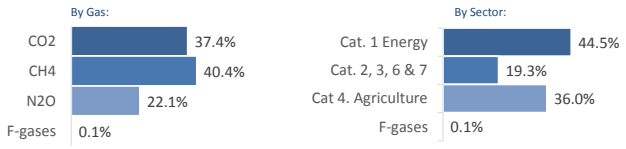
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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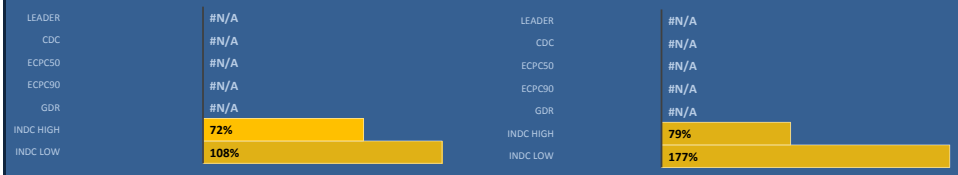

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 26	- 4	4	3	3	3	3	3	3	3
INDC covered Emissions excl. LULUCF	13	18	19	21	35	30	47	38	63	40
Total GHG excl. LULUCF	14	18	19	21	35	30	47	38	63	40
Total GHG incl. LULUCF	- 13	15	23	24	38	33	49	41	66	43

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	135%	139%	155%	256%	223%	343%	281%	463%	293%
Relative 2000	74%	100%	103%	115%	190%	165%	254%	208%	343%	217%
Relative 2005	72%	97%	100%	112%	184%	160%	247%	202%	333%	211%
Relative 2010	65%	87%	90%	100%	165%	144%	221%	181%	299%	189%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	15	19	21	24	31	31	34	34	37	37
Per-Capita Emissions (tCO2eq/cap)	0.9	1.0	0.9	0.9	1.1	1.0	1.4	1.1	1.7	1.1
Relative 1990	100%	105%	95%	93%	123%	107%	149%	122%	184%	116%
Relative 2000	95%	100%	91%	89%	117%	102%	142%	116%	175%	111%
Relative 2005	105%	110%	100%	98%	129%	112%	157%	129%	193%	122%
Relative 2010	107%	113%	102%	100%	132%	114%	160%	131%	197%	125%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
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Cat4_CH4	COUNTRY-SPECIFIC USER DATA	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

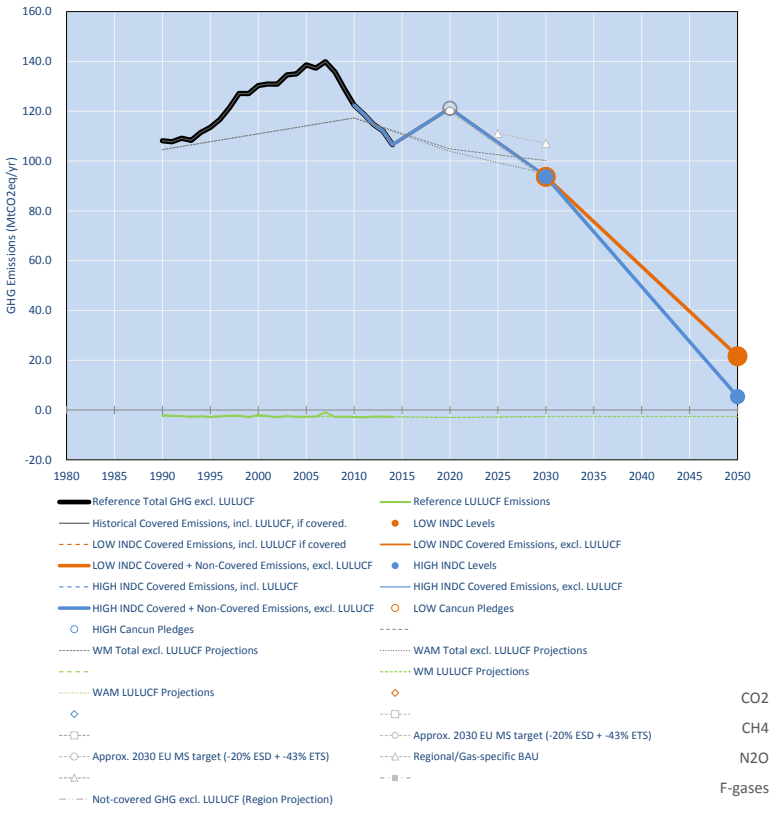
INDC FactSheet

Greece

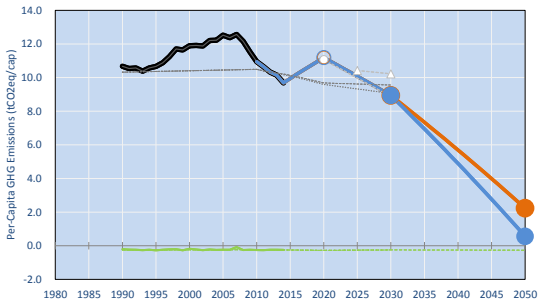
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -18%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.3% #48	0.2% #59	0.2% #64
			Per-Capita Emissions (tCO2eq/cap)	10.9t #32	10.1t #35	8.9t #40

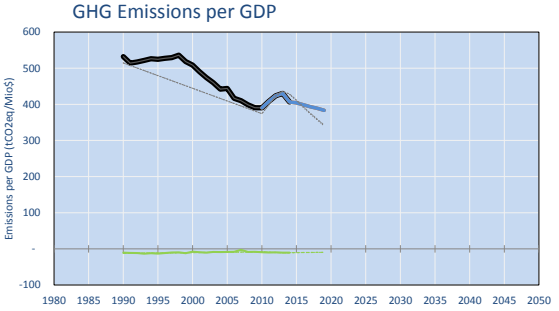
GHG Emissions



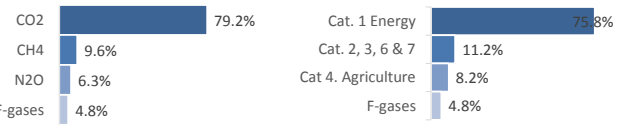
Per-Capita Emissions



GHG Emissions per GDP

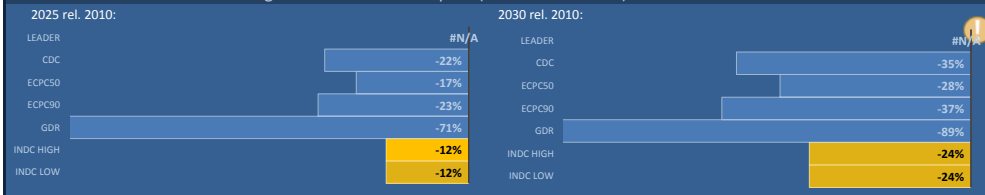


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 1	- 1	- 1	- 1	- 1	- 1
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	108	130	139	122	121	121	107	107	94	94
Total GHG excl. LULUCF	108	130	139	122	121	121	107	107	94	94
Total GHG incl. LULUCF	106	128	136	120	118	118	105	105	91	91

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	121%	128%	113%	112%	112%	99%	99%	87%	87%
Relative 2000	83%	100%	106%	94%	93%	93%	82%	82%	72%	72%
Relative 2005	78%	94%	100%	88%	87%	87%	77%	77%	68%	68%
Relative 2010	88%	106%	113%	100%	99%	99%	88%	88%	77%	77%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	11	11	11	11	11	11	11	10	10
Per-Capita Emissions (tCO2eq/cap)	10.7	11.9	12.5	10.9	11.2	11.2	10.1	10.1	8.9	8.9
Relative 1990	100%	111%	117%	103%	105%	105%	94%	94%	84%	84%
Relative 2000	90%	100%	105%	92%	94%	94%	85%	85%	75%	75%
Relative 2005	85%	95%	100%	87%	89%	89%	80%	80%	71%	71%
Relative 2010	97%	109%	114%	100%	102%	102%	92%	92%	82%	82%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

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Historical Emissions mismatch, likely due to forestry.

INDC FactSheet

Grenada

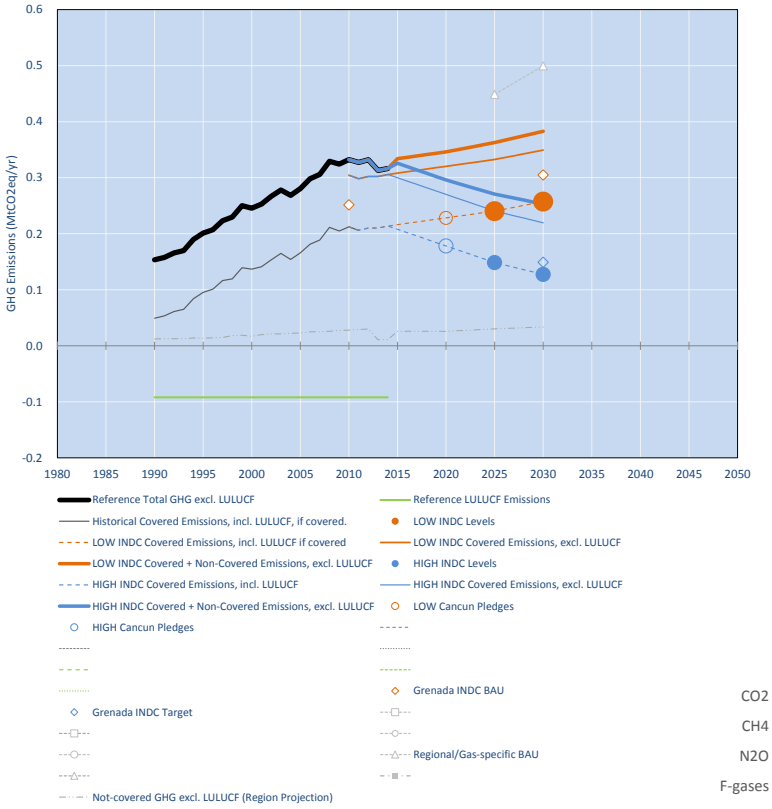
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-11%**

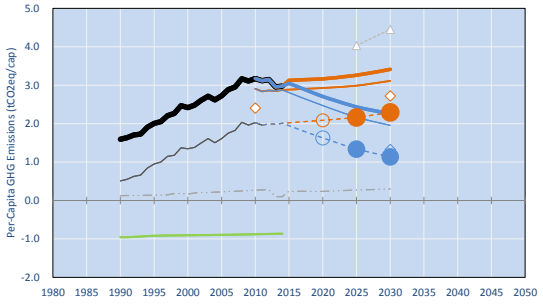
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	0% rel. BAU of 0.2 Mt	0% rel. BAU of 0 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #181	0.0% #182	0.0% #182
	-30% rel.2010(cond.)	-40% rel.2010(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.2t #123	2.8t #127	2.8t #127

INDC: Grenada commits to reducing its GHG emissions by 30% from 2010 levels by 2025, with an indicative reduction of 40% from 2010 levels by 2030. (GWP AR4)

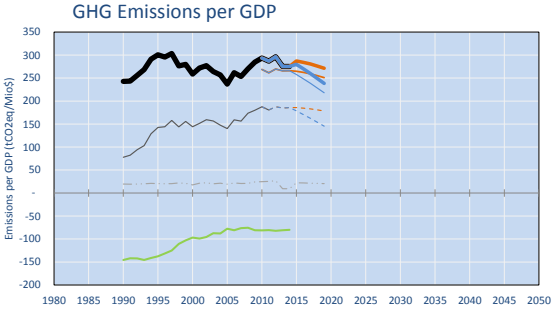
GHG Emissions



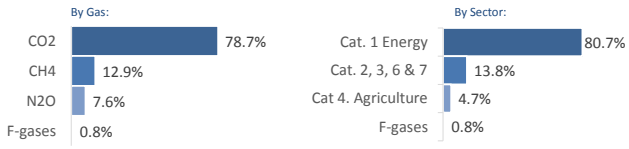
Per-Capita Emissions



GHG Emissions per GDP

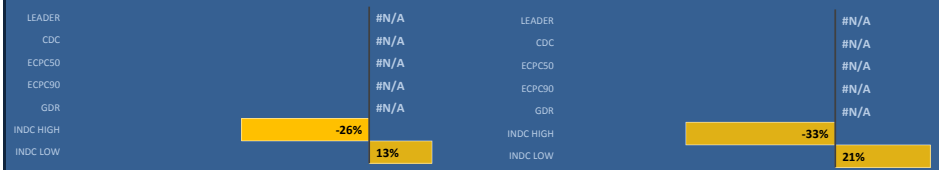


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2010 INDC: 13 to -26%; CDC:-31%; ECPC50:-31%; ECPC90:-31%; GDR:15%

2030 rel. 2010 INDC: 21 to -33%; CDC:-34%; ECPC50:-34%; ECPC90:-34%; GDR:25%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	0	0	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	160%	183%	217%	226%	193%	236%	176%	249%	165%
Relative 2000	62%	100%	114%	135%	141%	121%	148%	110%	156%	103%
Relative 2005	55%	88%	100%	118%	123%	105%	129%	97%	136%	90%
Relative 2010	46%	74%	84%	100%	104%	89%	109%	81%	115%	76%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	1.6	2.4	2.7	3.2	3.2	2.7	3.3	2.4	3.4	2.3
Relative 1990	100%	152%	171%	199%	199%	170%	204%	153%	214%	141%
Relative 2000	66%	100%	113%	131%	131%	112%	135%	101%	141%	93%
Relative 2005	58%	89%	100%	116%	116%	99%	120%	89%	125%	83%
Relative 2010	50%	76%	86%	100%	100%	85%	103%	77%	107%	71%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

2005 historical emission differences in terms of shape.
Assumption: No FL-FL

INDC FactSheet

Guatemala

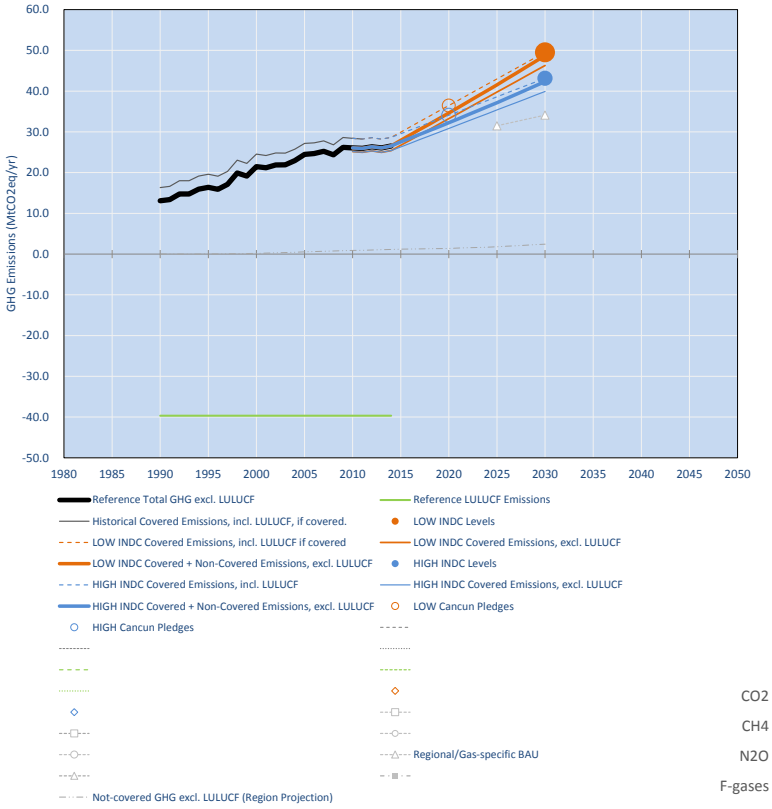
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+20%**

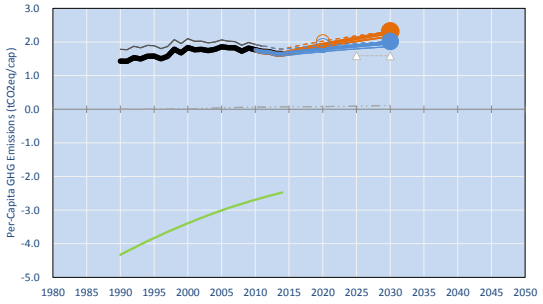
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-11% rel. BAU of 54 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #110	0.1% #102	0.1% #100
		-23% rel. BAU of 54 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.8t #159	2t #152	2.1t #146

INDC: 11.2% GHG emissions reduction compared to BAU by 2030Conditional target: up to 22.6% reduction pending on international and private resources. (GWP SAR)

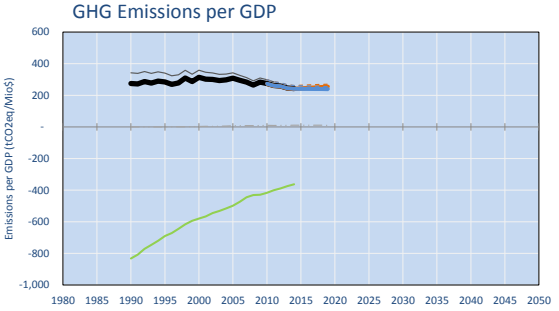
GHG Emissions



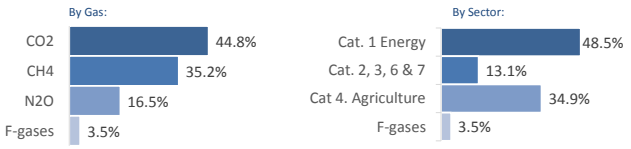
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	3	3	3	3	3	3	3	3	3	3
INDC covered Emissions excl. LULUCF	13	21	24	25	33	31	40	35	46	40
Total GHG excl. LULUCF	13	21	24	26	35	32	42	37	49	42
Total GHG incl. LULUCF	- 27	- 18	- 15	- 14	- 5	- 7	2	- 2	9	3

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	164%	187%	199%	265%	246%	318%	284%	372%	324%
Relative 2000	61%	100%	114%	121%	161%	150%	194%	173%	227%	197%
Relative 2005	53%	88%	100%	107%	141%	132%	170%	152%	199%	173%
Relative 2010	50%	82%	94%	100%	133%	124%	159%	143%	187%	162%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	9	12	13	15	18	18	20	20	21	21
Per-Capita Emissions (tCO2eq/cap)	1.4	1.8	1.9	1.8	1.9	1.8	2.1	1.9	2.3	2.0
Relative 1990	100%	129%	130%	124%	135%	125%	148%	132%	159%	138%
Relative 2000	78%	100%	101%	96%	105%	97%	115%	103%	124%	108%
Relative 2005	77%	99%	100%	95%	104%	96%	113%	102%	123%	106%
Relative 2010	81%	104%	105%	100%	109%	101%	119%	106%	129%	112%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Policies and Measures. Reference assumed - lower than stated BAU.

INDC FactSheet

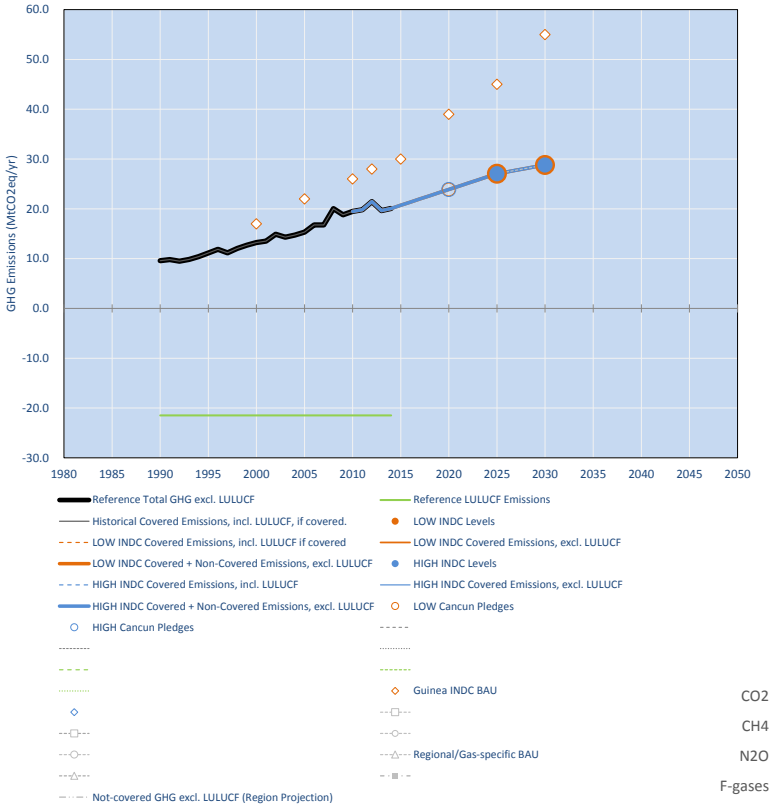
Guinea

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -11%

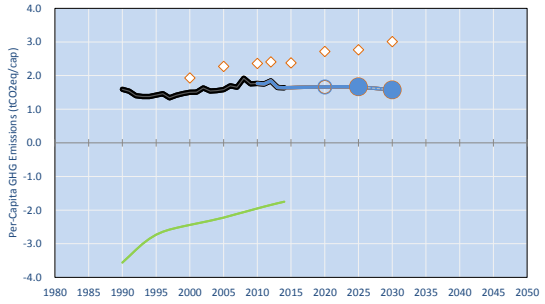
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		28.8 Mt (Policies and Measures)	Share of World Emissions excl. LULUCF (Rank):	0.0% #120	0.1% #117	0.1% #116
			Per-Capita Emissions (tCO2eq/cap)	1.8t #160	1.7t #164	1.6t #165

INDC: 13% of GHG emission reduction compared BAU levels by 2030 subject to international support. (GWP unclear)

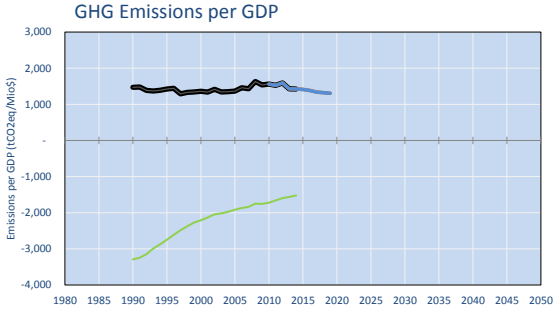
GHG Emissions



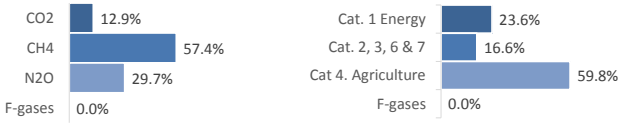
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	10	13	15	19	24	24	27	27	29	29
Total GHG excl. LULUCF	10	13	15	19	24	24	27	27	29	29
Total GHG incl. LULUCF	- 12	- 8	- 6	- 2	2	2	6	6	7	7

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	138%	160%	203%	249%	249%	282%	282%	300%	300%
Relative 2000	72%	100%	116%	147%	180%	180%	204%	204%	218%	218%
Relative 2005	63%	86%	100%	127%	156%	156%	177%	177%	188%	188%
Relative 2010	49%	68%	79%	100%	123%	123%	139%	139%	148%	148%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	6	9	10	11	14	14	16	16	18	18
Per-Capita Emissions (tCO2eq/cap)	1.6	1.5	1.6	1.8	1.7	1.7	1.7	1.7	1.6	1.6
Relative 1990	100%	95%	100%	111%	105%	105%	105%	105%	99%	99%
Relative 2000	106%	100%	105%	118%	111%	111%	111%	111%	105%	105%
Relative 2005	100%	95%	100%	112%	105%	105%	105%	105%	99%	99%
Relative 2010	90%	85%	90%	100%	94%	94%	94%	94%	89%	89%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | Policies and Measures. Not quantified. | **INDC FactSheet**

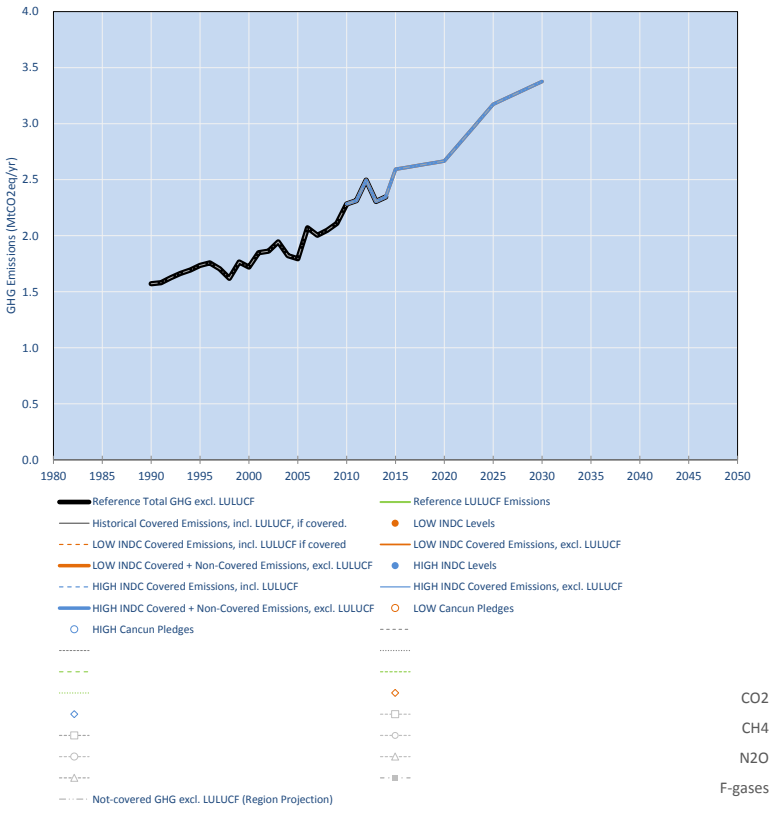
Guinea-Bissau

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-5%**

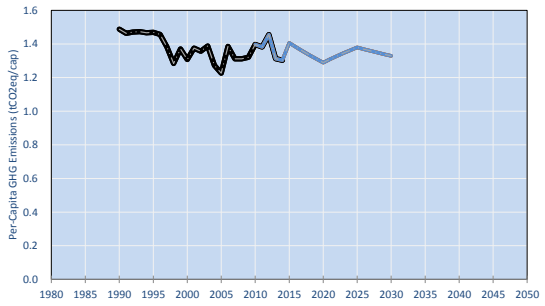
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
			Share of World Emissions excl. LULUCF (Rank):	0.0% #167	0.0% #163	0.0% #162
			Per-Capita Emissions (tCO2eq/cap)	1.4t #169	1.4t #172	1.3t #175

INDC: Implementation of policies and actions in the area of mitigation, especially energy sector, and adaptation, subject to financial, technological and capacity building assistance. (N/A (no quantitative emission target))

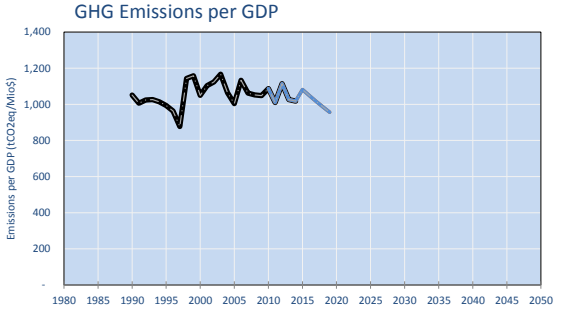
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	39%	48%
INDC LOW	39%	48%

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	-	-	-	-	-	-	-	-	-	-
Total GHG excl. LULUCF	2	2	2	2	3	3	3	3	3	3
Total GHG incl. LULUCF	2	2	2	2	3	3	3	3	3	3

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	109%	114%	145%	170%	170%	202%	202%	215%	215%
Relative 2000	91%	100%	104%	133%	155%	155%	184%	184%	196%	196%
Relative 2005	88%	96%	100%	127%	149%	149%	177%	177%	188%	188%
Relative 2010	69%	75%	79%	100%	117%	117%	139%	139%	148%	148%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	2	2	2	2	2	3	3
Per-Capita Emissions (tCO2eq/cap)	1.5	1.3	1.2	1.4	1.3	1.3	1.4	1.4	1.3	1.3
Relative 1990	100%	88%	82%	94%	87%	87%	93%	93%	89%	89%
Relative 2000	114%	100%	94%	107%	99%	99%	105%	105%	102%	102%
Relative 2005	121%	107%	100%	114%	105%	105%	112%	112%	108%	108%
Relative 2010	106%	94%	88%	100%	92%	92%	99%	99%	95%	95%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	COUNTRY-SPECIFIC USER DATA
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary Version: 16 Nov. 2015

INDC FactSheet

Guyana

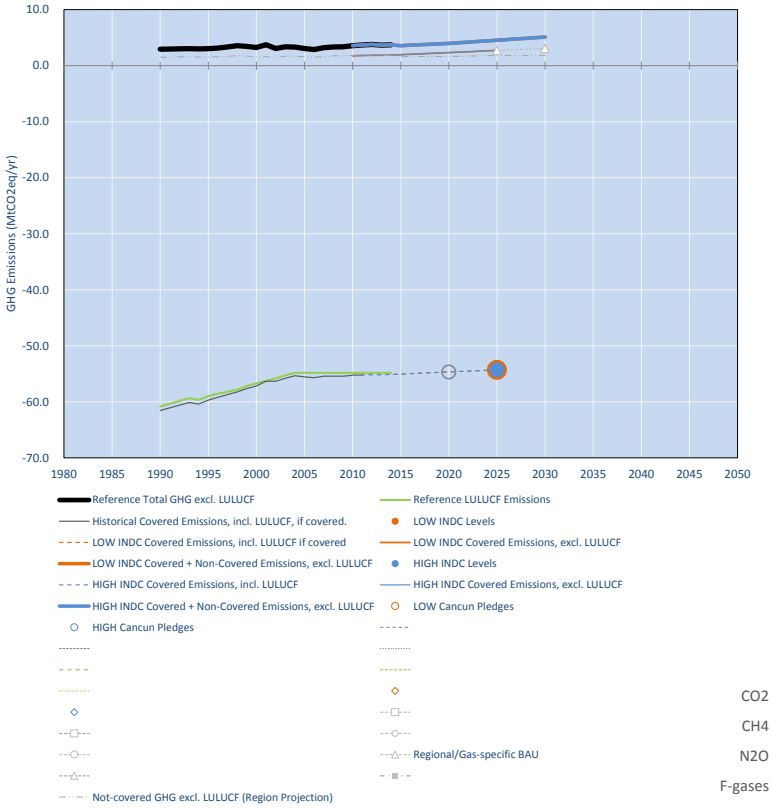
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +31%

Cancun 2020 | INDC 2025 | INDC 2030

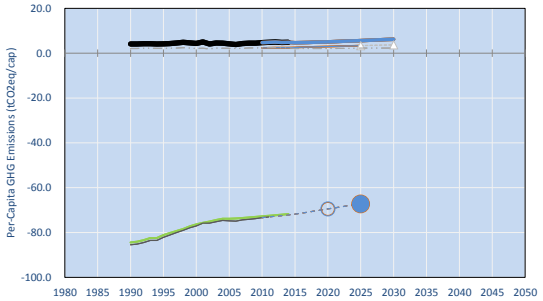
	2010	World Rank	2025	World Rank	2030	World Rank
Share of World Emissions excl. LULUCF (Rank):	0.0%	#159	0.0%	#160	0.0%	#159
Per-Capita Emissions (tCO2eq/cap)	4.7t	#93	5.6t	#80	6.2t	#75

INDC: Policies, measures and actions to reduce emissions across energy and forestry sectors Achieving higher contribution conditional to international support. (n/a (only CO2))

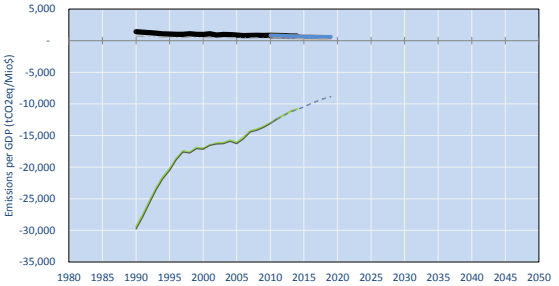
GHG Emissions



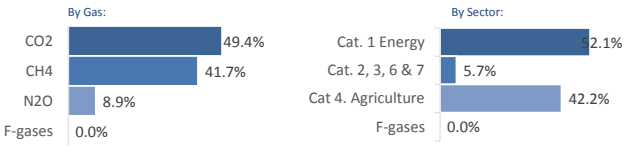
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 63	- 59	- 57	- 57	- 57	- 57	- 57	- 57	- 57	- 57
INDC covered Emissions excl. LULUCF	1	2	1	2	2	2	3	3	-	-
Total GHG excl. LULUCF	3	3	3	4	4	4	5	5	5	5
Total GHG incl. LULUCF	- 58	- 53	- 52	- 51	- 51	- 51	- 50	- 50	- 50	- 50

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	110%	105%	122%	135%	135%	154%	154%	174%	174%
Relative 2000	91%	100%	95%	110%	122%	122%	140%	140%	157%	157%
Relative 2005	96%	106%	100%	116%	129%	129%	148%	148%	166%	166%
Relative 2010	82%	91%	86%	100%	111%	111%	127%	127%	143%	143%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	4.1	4.4	4.1	4.7	5.0	5.0	5.6	5.6	6.2	6.2
Relative 1990	100%	107%	101%	116%	124%	124%	138%	138%	152%	152%
Relative 2000	93%	100%	95%	109%	116%	116%	129%	129%	142%	142%
Relative 2005	99%	106%	100%	115%	122%	122%	136%	136%	150%	150%
Relative 2010	86%	92%	87%	100%	106%	106%	118%	118%	131%	131%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

historical emission differences

INDC FactSheet

Haiti

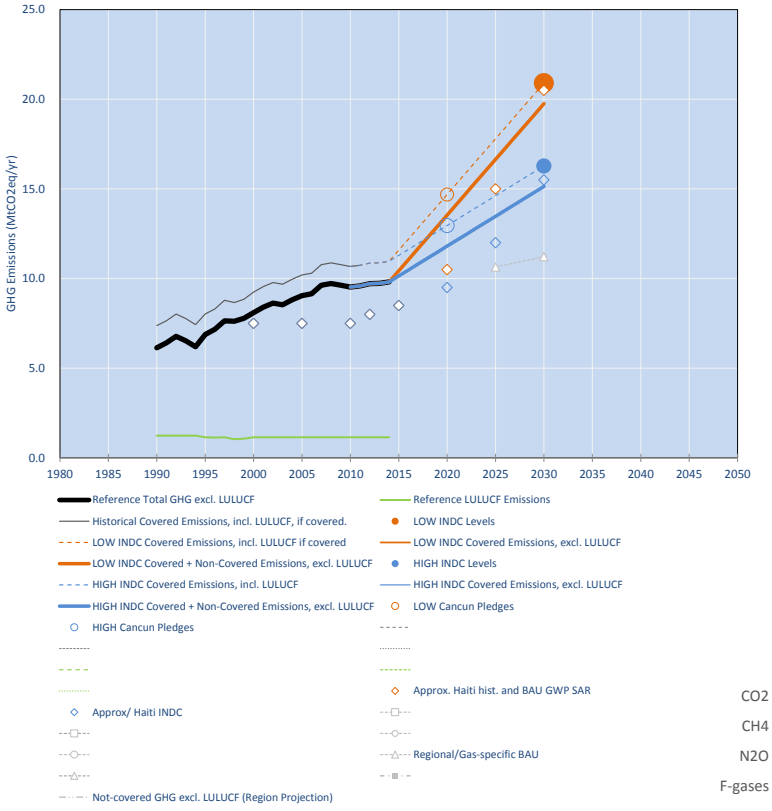
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+46%**

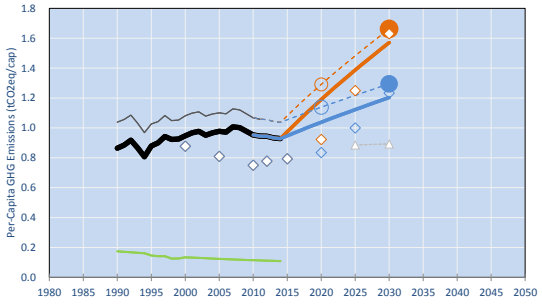
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-5% rel. BAU of 21 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #140	0.0% #136	0.0% #133
		-26% rel. BAU of 21 Mt	Per-Capita Emissions (tCO2eq/cap)	1t #184	1.3t #179	1.4t #173

INDC: Reduction of 5% GHG emissions compared to 2010 levels conditional target: 26% GHG emission reduction pending on international support. (GWP SAR)

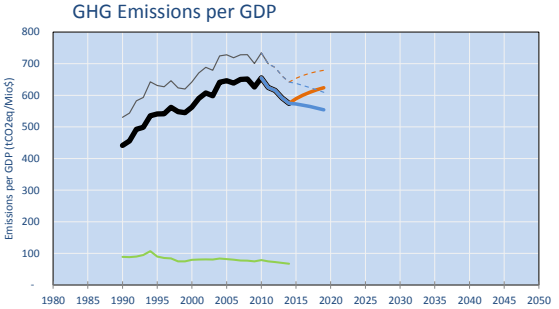
GHG Emissions



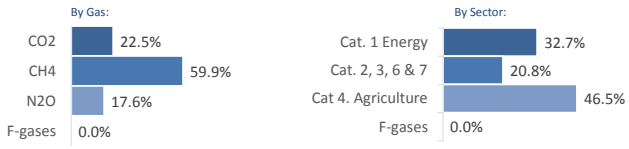
Per-Capita Emissions



GHG Emissions per GDP

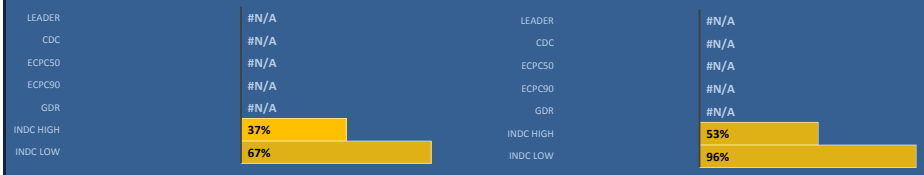


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	1	1	1	1	1	1	1	1	1	1
INDC covered Emissions excl. LULUCF	6	8	9	10	14	12	17	13	20	15
Total GHG excl. LULUCF	6	8	9	10	14	12	17	13	20	15
Total GHG incl. LULUCF	7	9	10	11	15	13	18	15	21	16

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	132%	147%	155%	221%	192%	271%	220%	322%	247%
Relative 2000	76%	100%	112%	118%	167%	146%	206%	166%	244%	187%
Relative 2005	68%	89%	100%	105%	150%	130%	184%	149%	218%	167%
Relative 2010	64%	85%	95%	100%	142%	124%	175%	141%	207%	159%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	7	9	9	10	11	11	12	12	13	13
Per-Capita Emissions (tCO2eq/cap)	0.9	0.9	1.0	1.0	1.2	1.0	1.4	1.1	1.6	1.2
Relative 1990	100%	110%	113%	110%	138%	120%	160%	130%	182%	139%
Relative 2000	91%	100%	103%	101%	126%	110%	146%	119%	166%	127%
Relative 2005	88%	97%	100%	98%	122%	106%	142%	115%	161%	123%
Relative 2010	91%	99%	103%	100%	125%	109%	146%	118%	165%	126%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
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Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al.; www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Honduras

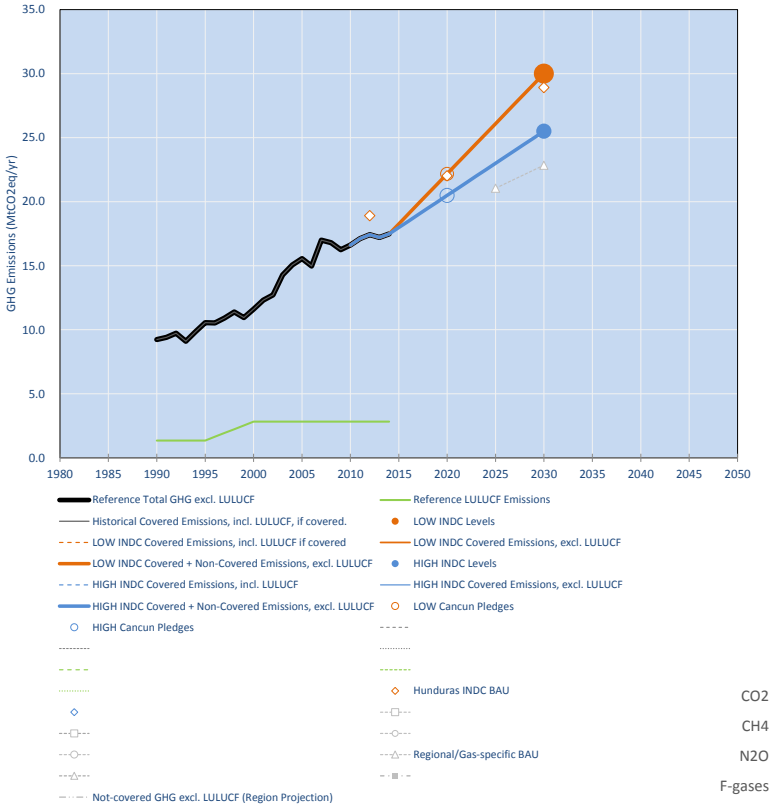
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +29%

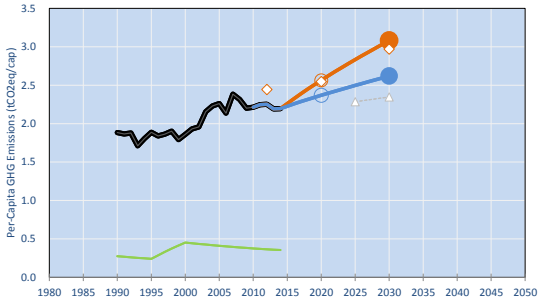
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 29 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #122	0.0% #119	0.0% #117
		-15% rel. BAU of 29 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.2t #144	2.7t #130	2.9t #126

INDC: 15% reduction of GHG emission compared to BAU by 2030 conditional upon support. Sectorial target of afforestation/ reforestation of 1 million hectares forest. (GWP SAR)

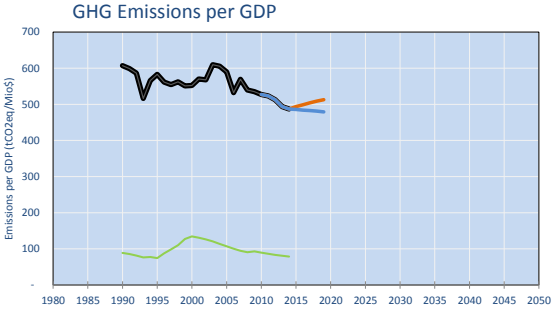
GHG Emissions



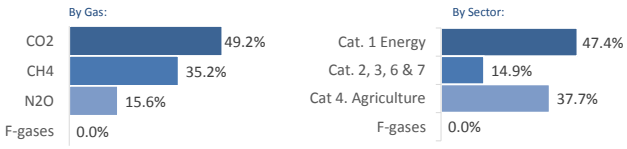
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	9	12	16	17	22	20	26	23	30	26
Total GHG excl. LULUCF	9	12	16	17	22	20	26	23	30	26
Total GHG incl. LULUCF	11	14	18	19	25	23	29	26	33	28

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	126%	168%	180%	240%	222%	282%	249%	325%	276%
Relative 2000	80%	100%	134%	143%	191%	177%	225%	198%	259%	220%
Relative 2005	59%	75%	100%	107%	143%	132%	168%	148%	193%	164%
Relative 2010	56%	70%	94%	100%	134%	123%	157%	138%	181%	154%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	6	7	8	9	9	9	9	10	10
Per-Capita Emissions (tCO2eq/cap)	1.9	1.9	2.3	2.2	2.6	2.4	2.8	2.5	3.1	2.6
Relative 1990	100%	99%	120%	117%	136%	126%	150%	133%	164%	139%
Relative 2000	101%	100%	122%	119%	138%	127%	152%	134%	166%	141%
Relative 2005	83%	82%	100%	98%	113%	105%	125%	110%	136%	116%
Relative 2010	85%	84%	102%	100%	116%	107%	128%	113%	139%	118%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

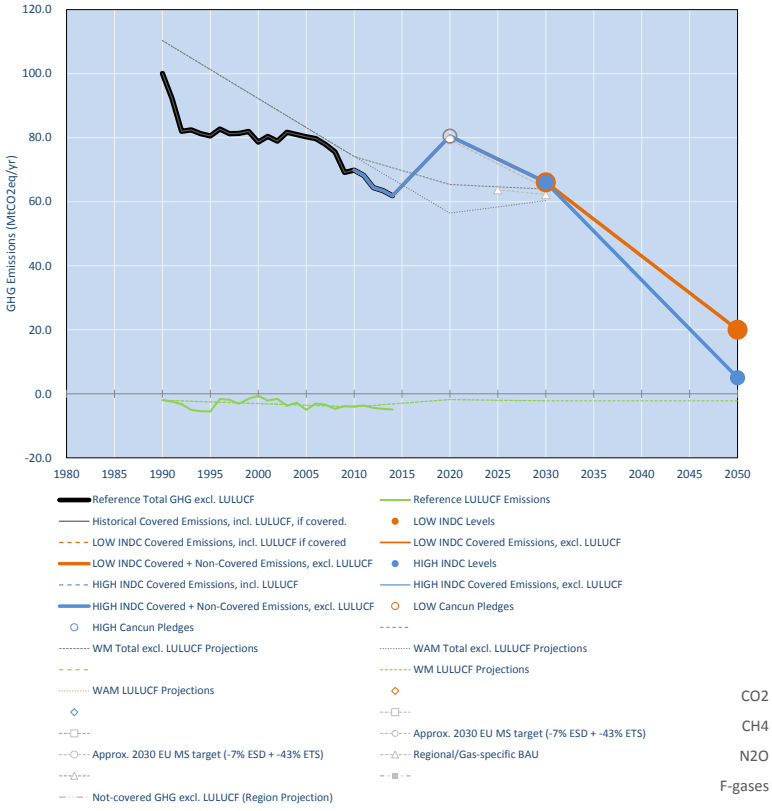
INDC FactSheet

Hungary

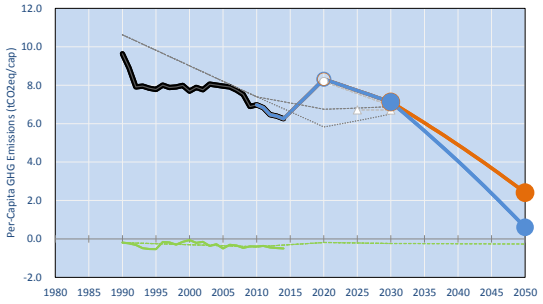
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +2%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.2% #71	0.1% #73	0.1% #80
			Per-Capita Emissions (tCO2eq/cap)	7t #67	7.7t #59	7.1t #58

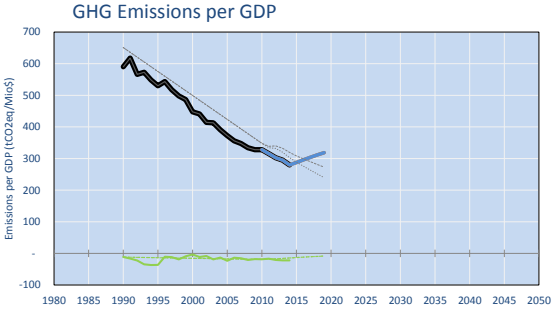
GHG Emissions



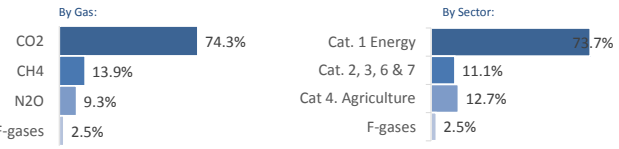
Per-Capita Emissions



GHG Emissions per GDP

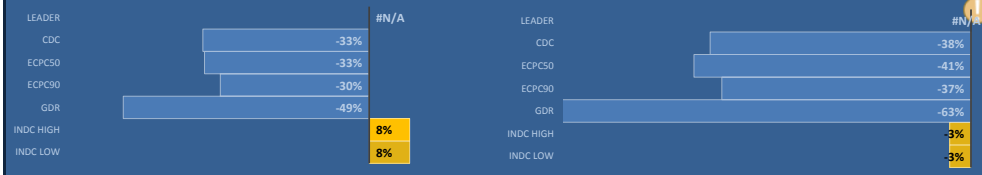


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 1	- 1	- 2	- 2	- 2	- 2
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	100	79	80	70	81	81	73	73	66	66
Total GHG excl. LULUCF	100	79	80	70	81	81	73	73	66	66
Total GHG incl. LULUCF	98	78	75	66	79	79	71	71	64	64

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	79%	80%	70%	80%	80%	73%	73%	66%	66%
Relative 2000	127%	100%	102%	89%	102%	102%	93%	93%	84%	84%
Relative 2005	125%	98%	100%	87%	100%	100%	91%	91%	82%	82%
Relative 2010	143%	113%	115%	100%	115%	115%	105%	105%	95%	95%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	10	10	10	10	10	9	9	9	9
Per-Capita Emissions (tCO2eq/cap)	9.6	7.7	8.0	7.0	8.3	8.3	7.7	7.7	7.1	7.1
Relative 1990	100%	80%	83%	72%	86%	86%	80%	80%	74%	74%
Relative 2000	125%	100%	103%	91%	108%	108%	100%	100%	93%	93%
Relative 2005	121%	97%	100%	88%	105%	105%	97%	97%	90%	90%
Relative 2010	138%	110%	114%	100%	119%	119%	111%	111%	102%	102%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

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The single project exemption that applies to Iceland under the Kyoto Protocol is not taken into account.

INDC FactSheet

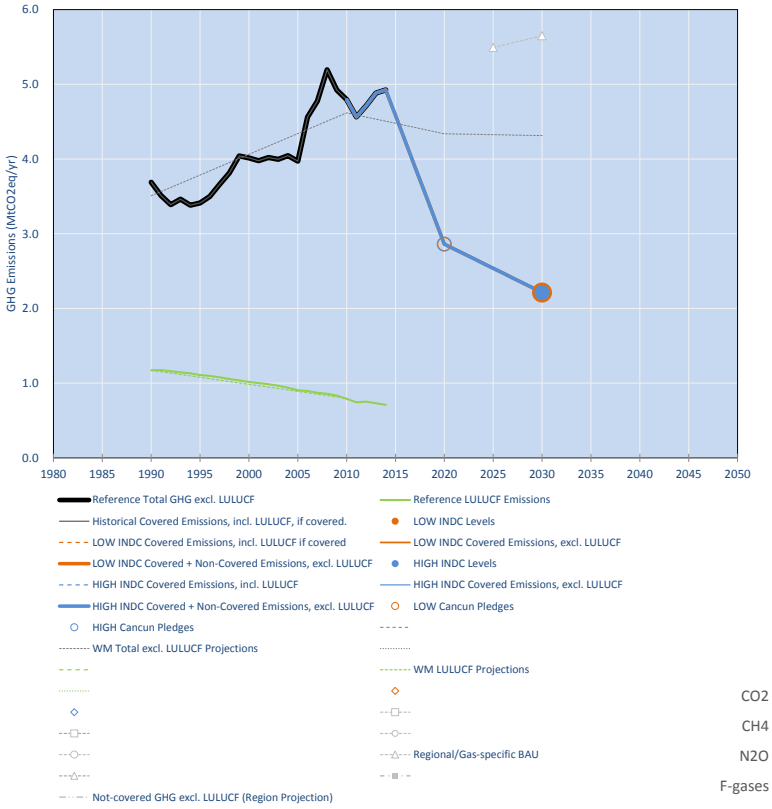
Iceland

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-60%**

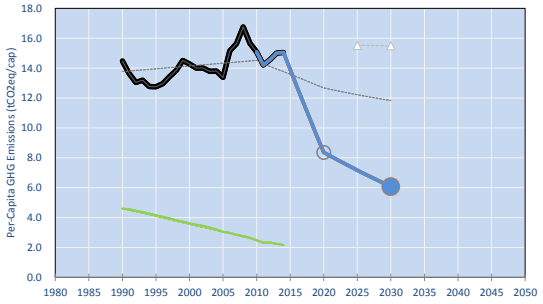
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-30% rel. 1990		-40% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.0% #155	0.0% #165	0.0% #169
			Per-Capita Emissions (tCO2eq/cap)	15.1t #19	7.2t #65	6.1t #77

INDC: 40% reduction of greenhouse gas emissions by 2030 compared to 1990 levels. (IPCC 2006 Guidelines)

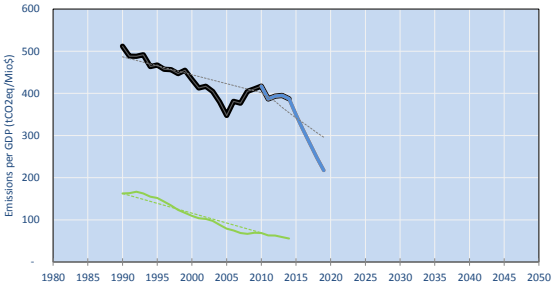
GHG Emissions



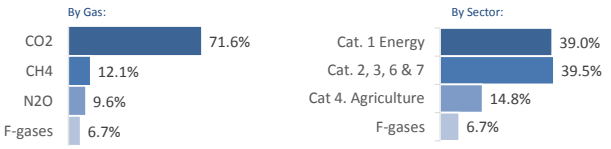
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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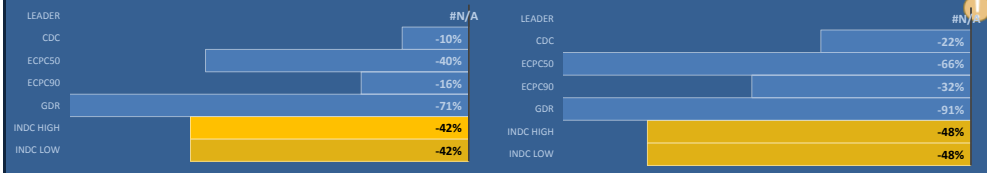

Shown fair contributinos only indicative

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CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -33%; CDC:3%; ECPC50:-31%; ECPC90:-4%; GDR:-67%

2030 rel. 1990 INDC: -40%; CDC:-11%; ECPC50:-61%; ECPC90:-22%; GDR:-90%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-	0	-	0		
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	4	4	4	5	3	3	3	3	2	2
Total GHG excl. LULUCF	4	4	4	5	3	3	3	3	2	2
Total GHG incl. LULUCF	5	5	5	6	3	3	3	3	3	3

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	109%	108%	130%	78%	78%	69%	69%	60%	60%
Relative 2000	92%	100%	99%	119%	71%	71%	63%	63%	55%	55%
Relative 2005	93%	101%	100%	121%	72%	72%	64%	64%	56%	56%
Relative 2010	77%	84%	83%	100%	60%	60%	53%	53%	46%	46%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	14.5	14.3	13.4	15.1	8.4	8.4	7.2	7.2	6.1	6.1
Relative 1990	100%	99%	92%	104%	58%	58%	50%	50%	42%	42%
Relative 2000	101%	100%	94%	106%	59%	59%	50%	50%	43%	43%
Relative 2005	108%	107%	100%	113%	62%	62%	54%	54%	45%	45%
Relative 2010	96%	95%	89%	100%	55%	55%	48%	48%	40%	40%

Data Sources:

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Cat4_CO2	PRIMAPHIST15
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Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Gas and sectoral coverage unclear

INDC FactSheet

India

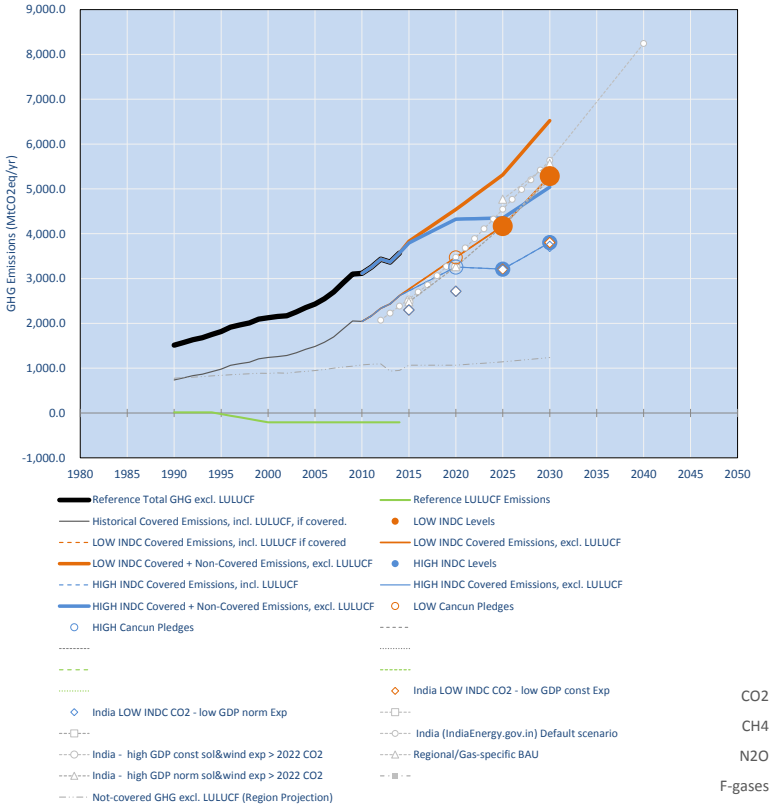
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+50%**

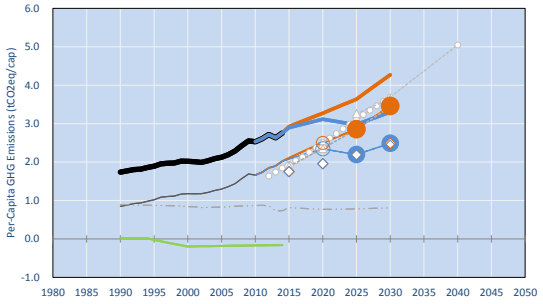
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% Intensity Target rel. 2005		5285.1 Mt (100GW solar 2022 const. exp., high GDP)	Share of World Emissions excl. LULUCF (Rank):	6.8% #4	8.9% #3	10.3% #2
-25% Intensity Target rel. 2005		3802.2 Mt (100GW solar 2022 const. exp., low GDP)	Per-Capita Emissions (tCO2eq/cap)	2.5t #135	3.3t #120	3.8t #113

INDC: Reduction of emissions intensity of its GDP by 33- 35% from 2005 levels by 2030,âchieve about 40% cumulative electric power installed capacity from non-fossil fuel based energy resources,âreate additional carbon sink of 2.5-3 billion tonnes of CO2eq. (GWP unclear)

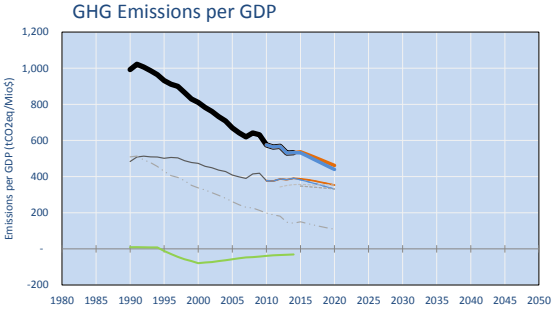
GHG Emissions



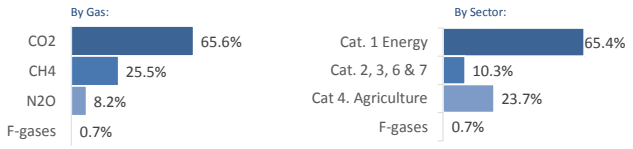
Per-Capita Emissions



GHG Emissions per GDP

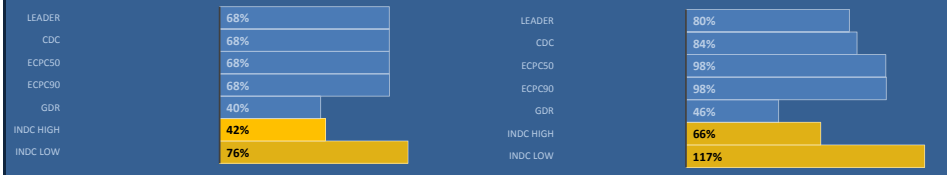


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	737	1,241	1,484	2,043	3,475	3,258	4,172	3,209	5,285	3,802
Total GHG excl. LULUCF	1,513	2,126	2,432	3,115	4,543	4,326	5,313	4,350	6,523	5,040
Total GHG incl. LULUCF	1,527	1,919	2,224	2,907	4,335	4,118	5,105	4,143	6,315	4,832

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	141%	161%	206%	300%	286%	351%	288%	431%	333%
Relative 2000	71%	100%	114%	146%	214%	203%	250%	205%	307%	237%
Relative 2005	62%	87%	100%	128%	187%	178%	219%	179%	268%	207%
Relative 2010	49%	68%	78%	100%	146%	139%	171%	140%	209%	162%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	871	1,053	1,144	1,231	1,389	1,389	1,462	1,462	1,528	1,528
Per-Capita Emissions (tCO2eq/cap)	1.7	2.0	2.1	2.5	3.3	3.1	3.6	3.0	4.3	3.3
Relative 1990	100%	116%	122%	146%	188%	179%	209%	171%	246%	190%
Relative 2000	86%	100%	105%	125%	162%	154%	180%	147%	212%	163%
Relative 2005	82%	95%	100%	119%	154%	147%	171%	140%	201%	155%
Relative 2010	69%	80%	84%	100%	129%	123%	144%	118%	169%	130%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
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Metric	GWP AR4

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Indonesia

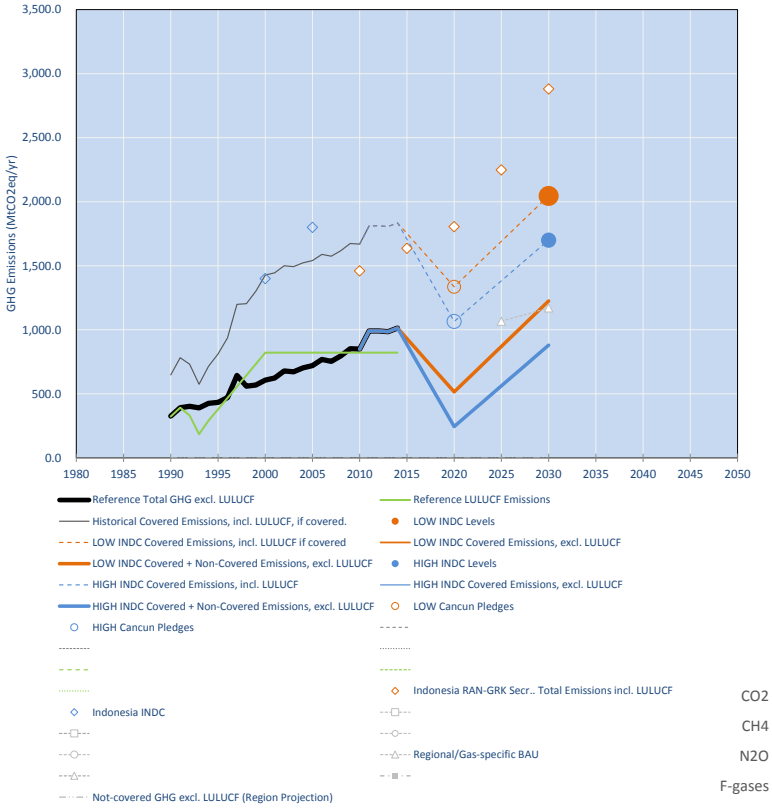
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+1%**

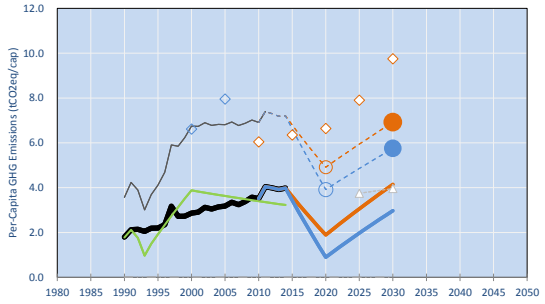
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-26% rel. BAU of 1805		-29% rel. BAU of 2881 Mt	Share of World Emissions excl. LULUCF (Rank):	1.8% #9	1.3% #14	1.9% #9
-41% rel. BAU of 1805(cond.)		-41% rel. BAU of 2881 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.5t #112	2.5t #135	3.6t #116

INDC: Reduce emissions by 29% by 2030 relative to BAU Conditional target: additional 12% emission reduction. (GWP AR4)

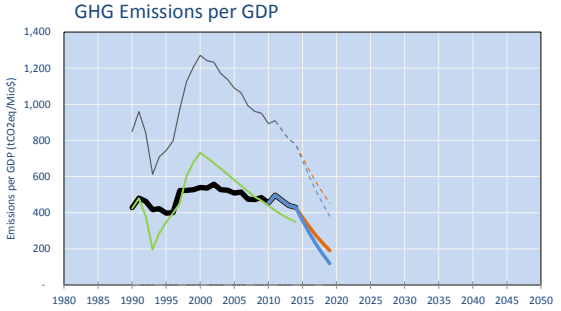
GHG Emissions



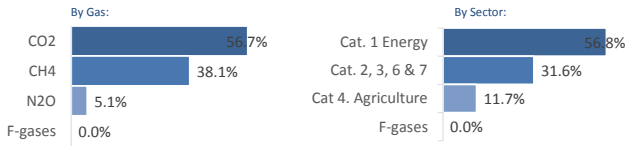
Per-Capita Emissions



GHG Emissions per GDP

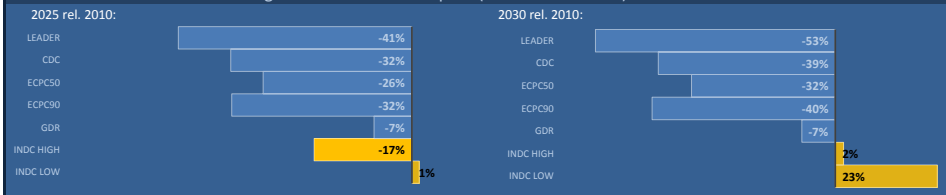


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

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CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	323	821	821	821	821	821	821	821	821	821
INDC covered Emissions excl. LULUCF	325	606	720	848	515	244	869	561	1,224	879
Total GHG excl. LULUCF	326	606	720	848	515	244	870	562	1,225	879
Total GHG incl. LULUCF	649	1,428	1,541	1,670	1,336	1,065	1,691	1,383	2,046	1,700

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	186%	221%	260%	158%	75%	267%	172%	376%	270%
Relative 2000	54%	100%	119%	140%	85%	40%	143%	93%	202%	145%
Relative 2005	45%	84%	100%	118%	72%	34%	121%	78%	170%	122%
Relative 2010	38%	71%	85%	100%	61%	29%	103%	66%	144%	104%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	181	212	226	242	272	272	285	285	295	295
Per-Capita Emissions (tCO2eq/cap)	1.8	2.9	3.2	3.5	1.9	0.9	3.1	2.0	4.1	3.0
Relative 1990	100%	160%	177%	195%	105%	50%	170%	110%	231%	166%
Relative 2000	63%	100%	111%	122%	66%	31%	107%	69%	145%	104%
Relative 2005	57%	90%	100%	110%	60%	28%	96%	62%	130%	94%
Relative 2010	51%	82%	91%	100%	54%	26%	87%	56%	118%	85%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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Metric	GWP AR4

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Quantification unclear, in particular BAU jump by 2020.

INDC FactSheet

Iraq

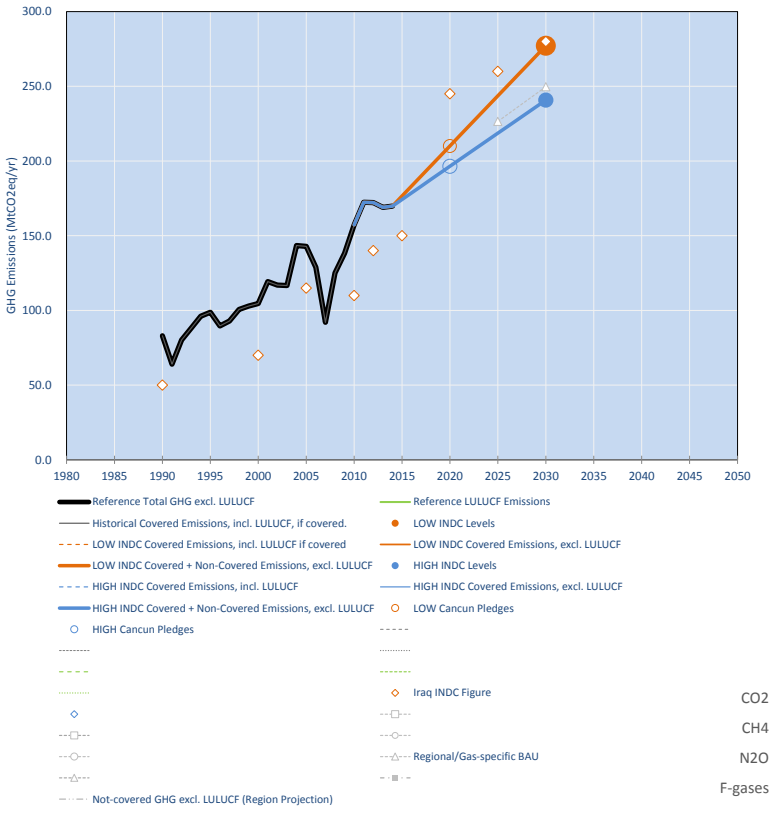
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-6%**

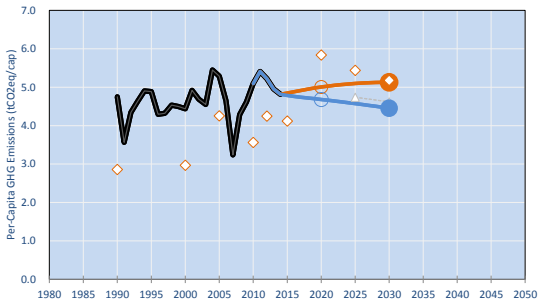
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-1% rel. BAU of 280 Mt -14% rel. BAU of 280 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.3% #41	0.4% #39	0.5% #39
			Per-Capita Emissions (tCO2eq/cap)	5.1t #89	4.8t #99	4.8t #98

INDC: 1% unconditional and a total of 14% conditional reduction under a linear BAU by 2035. (GWP unclear)

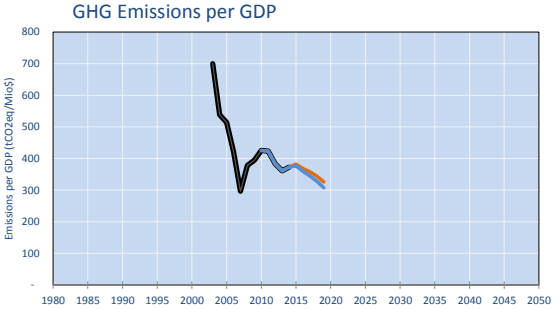
GHG Emissions



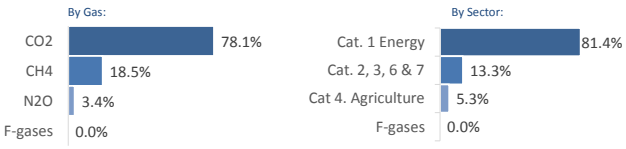
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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More info on www.mitigation-contributions.org

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	83	105	143	157	210	196	244	219	277	241
Total GHG excl. LULUCF	83	105	143	157	210	196	244	219	277	241
Total GHG incl. LULUCF	83	105	143	157	210	196	244	219	277	241

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	126%	172%	190%	253%	237%	294%	263%	334%	290%
Relative 2000	79%	100%	137%	150%	201%	188%	233%	209%	265%	230%
Relative 2005	58%	73%	100%	110%	147%	137%	171%	153%	194%	169%
Relative 2010	53%	67%	91%	100%	134%	125%	155%	139%	176%	153%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	17	24	27	31	42	42	48	48	54	54
Per-Capita Emissions (tCO2eq/cap)	4.7	4.4	5.3	5.1	5.0	4.7	5.1	4.6	5.1	4.5
Relative 1990	100%	93%	111%	107%	105%	99%	107%	96%	108%	94%
Relative 2000	107%	100%	119%	115%	113%	105%	115%	103%	115%	100%
Relative 2005	90%	84%	100%	96%	95%	89%	96%	86%	97%	84%
Relative 2010	93%	87%	104%	100%	98%	92%	100%	90%	101%	87%

Data Sources:

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PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

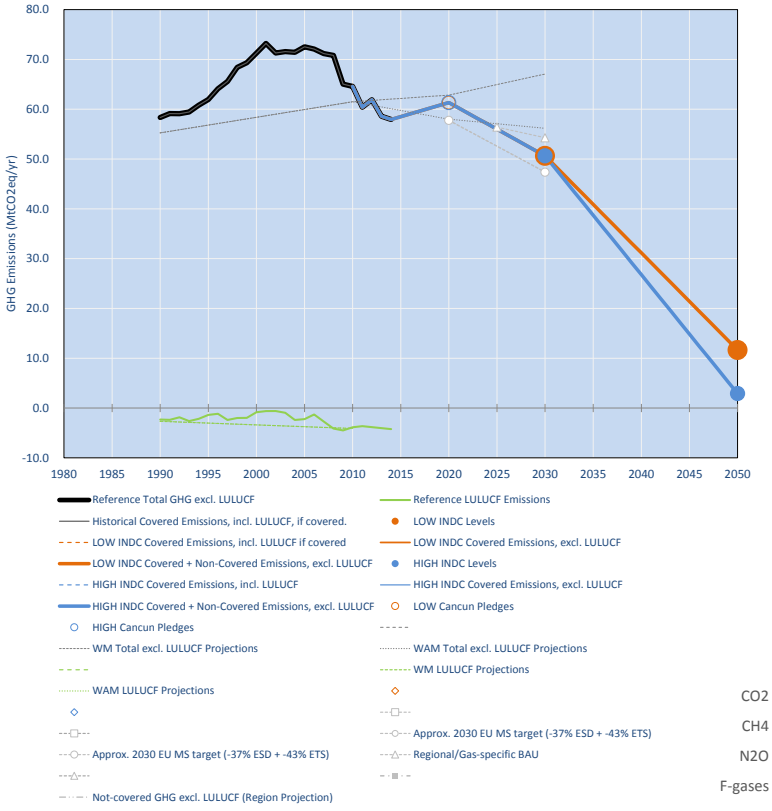
INDC FactSheet

Ireland

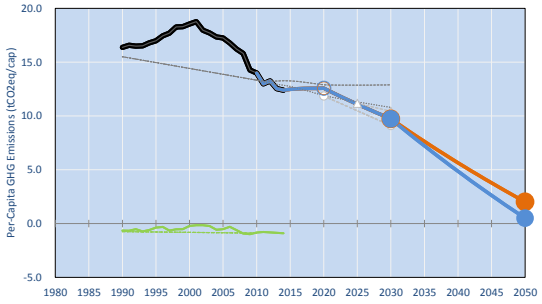
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-30%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.1% #74	0.1% #86	0.1% #91
			Per-Capita Emissions (tCO2eq/cap)	14t #22	11.1t #29	9.7t #35

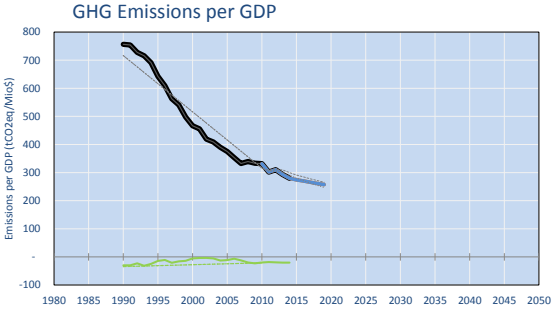
GHG Emissions



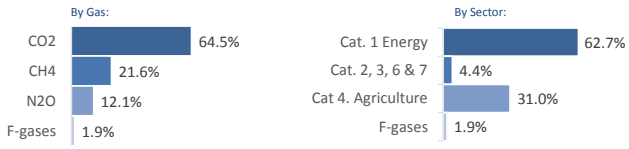
Per-Capita Emissions



GHG Emissions per GDP

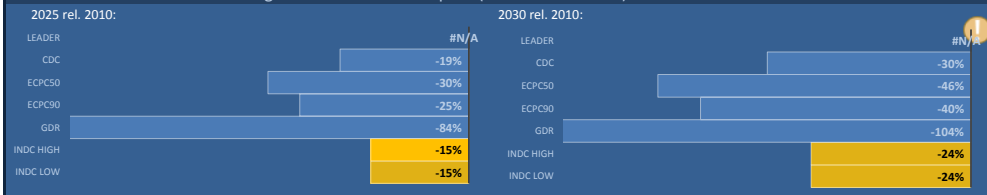


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 4	- 4	- 3	- 3	- 3	- 3
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	58	71	73	65	61	61	56	56	51	51
Total GHG excl. LULUCF	58	71	73	65	61	61	56	56	51	51
Total GHG incl. LULUCF	56	70	70	61	61	61	52	52	46	46

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	122%	124%	111%	105%	105%	96%	96%	87%	87%
Relative 2000	82%	100%	102%	91%	86%	86%	79%	79%	71%	71%
Relative 2005	80%	98%	100%	89%	85%	85%	77%	77%	70%	70%
Relative 2010	90%	110%	112%	100%	95%	95%	87%	87%	78%	78%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	4	4	5	5	5	5	5	5	5
Per-Capita Emissions (tCO2eq/cap)	16.4	18.5	17.3	14.0	12.6	12.6	11.1	11.1	9.7	9.7
Relative 1990	100%	113%	105%	85%	77%	77%	68%	68%	59%	59%
Relative 2000	88%	100%	93%	75%	68%	68%	60%	60%	52%	52%
Relative 2005	95%	107%	100%	81%	73%	73%	64%	64%	56%	56%
Relative 2010	117%	133%	123%	100%	90%	90%	79%	79%	70%	70%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Israel

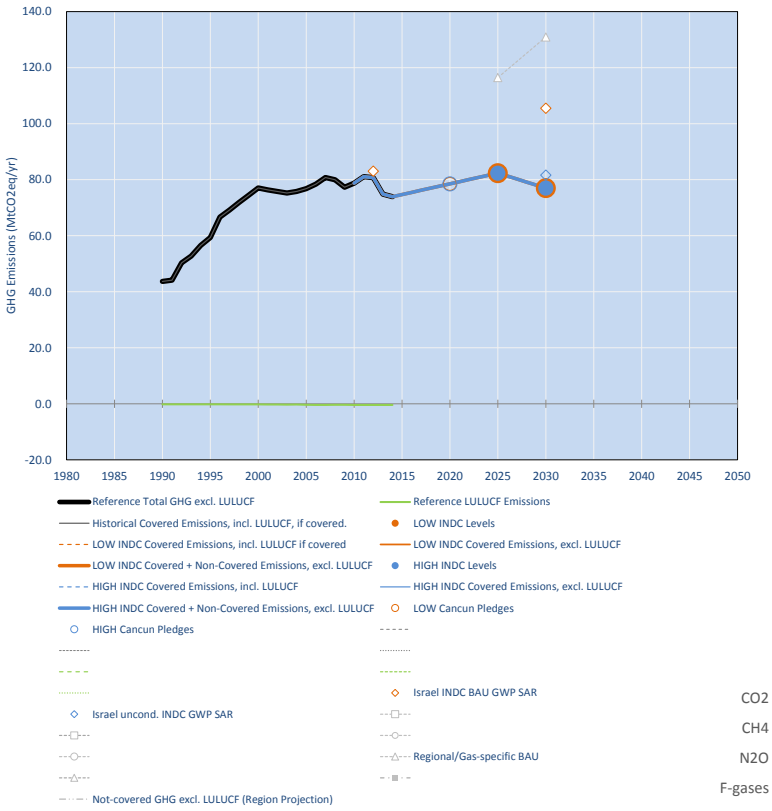
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-27%**

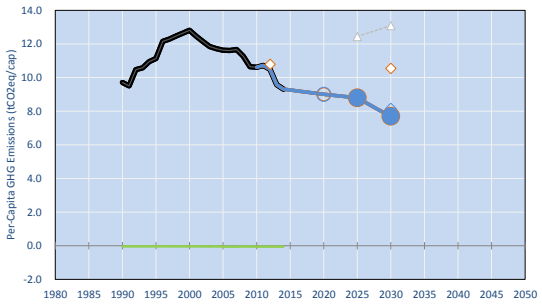
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		77 Mt (Per-capita target)	Share of World Emissions excl. LULUCF (Rank):	0.2% #62	0.2% #66	0.1% #72
		77 Mt (Percapita Target)	Per-Capita Emissions (tCO2eq/cap)	10.6t #34	8.8t #44	7.7t #51

INDC: Reduction of 7.7 tCO2eq (26%) greenhouse gas emissions below 2005 levels by 2030. (GWP SAR)

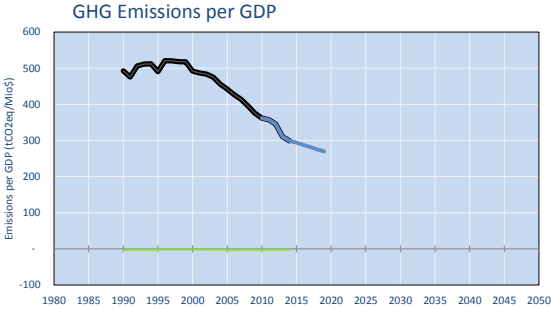
GHG Emissions



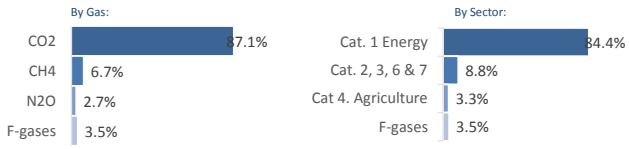
Per-Capita Emissions



GHG Emissions per GDP

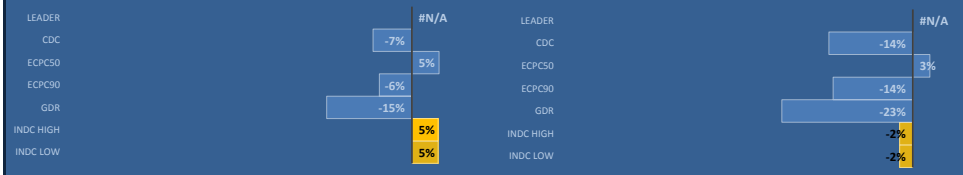


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	44	77	77	79	79	79	82	82	77	77
Total GHG excl. LULUCF	44	77	77	79	79	79	82	82	77	77
Total GHG incl. LULUCF	44	77	76	78	78	78	82	82	77	77

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	176%	176%	180%	180%	180%	189%	189%	176%	176%
Relative 2000	57%	100%	100%	102%	102%	102%	107%	107%	100%	100%
Relative 2005	57%	100%	100%	103%	102%	102%	107%	107%	100%	100%
Relative 2010	55%	98%	98%	100%	100%	100%	105%	105%	98%	98%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	6	7	7	9	9	9	9	10	10
Per-Capita Emissions (tCO2eq/cap)	9.7	12.8	11.6	10.6	9.0	9.0	8.8	8.8	7.7	7.7
Relative 1990	100%	132%	120%	109%	93%	93%	91%	91%	79%	79%
Relative 2000	76%	100%	91%	83%	70%	70%	69%	69%	60%	60%
Relative 2005	83%	110%	100%	91%	77%	77%	76%	76%	66%	66%
Relative 2010	91%	121%	110%	100%	85%	85%	83%	83%	73%	73%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Metric	GWP AR4

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

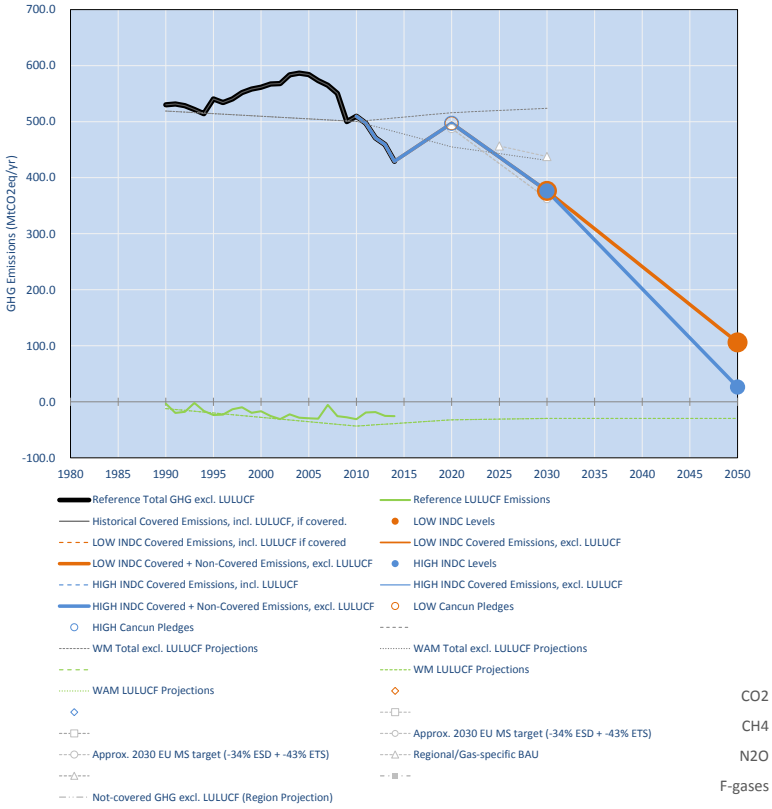
INDC FactSheet

Italy

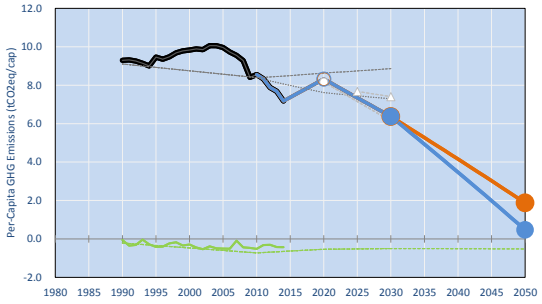
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -26%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	1.1% #20	0.8% #25	0.7% #28
			Per-Capita Emissions (tCO2eq/cap)	8.6t #52	7.3t #62	6.4t #71

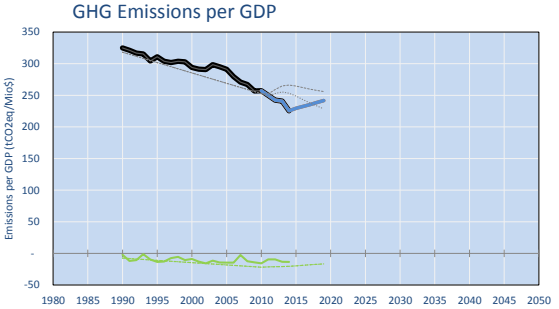
GHG Emissions



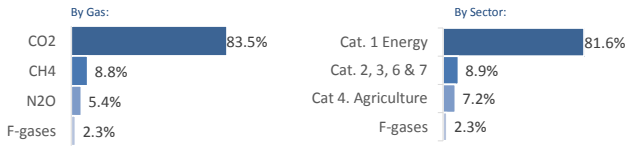
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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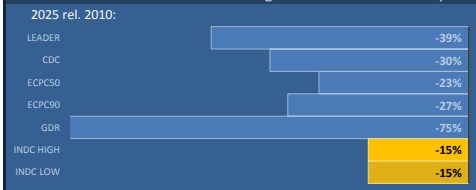

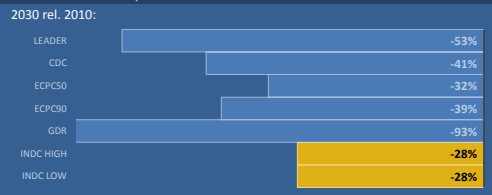

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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-9	-9	-14	-14	-14	-14
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	530	562	584	510	497	497	437	437	377	377
Total GHG excl. LULUCF	530	562	584	510	497	497	437	437	377	377
Total GHG incl. LULUCF	527	545	555	479	465	465	406	406	347	347

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	106%	110%	96%	94%	94%	82%	82%	71%	71%
Relative 2000	94%	100%	104%	91%	89%	89%	78%	78%	67%	67%
Relative 2005	91%	96%	100%	87%	85%	85%	75%	75%	64%	64%
Relative 2010	104%	110%	115%	100%	98%	98%	86%	86%	74%	74%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	57	57	59	60	60	60	59	59	59	59
Per-Capita Emissions (tCO2eq/cap)	9.3	9.8	10.0	8.6	8.3	8.3	7.3	7.3	6.4	6.4
Relative 1990	100%	106%	107%	92%	90%	90%	79%	79%	69%	69%
Relative 2000	95%	100%	101%	87%	85%	85%	75%	75%	65%	65%
Relative 2005	93%	99%	100%	86%	84%	84%	74%	74%	64%	64%
Relative 2010	109%	115%	116%	100%	97%	97%	86%	86%	74%	74%

a project with PRIMAP at PIK:

Data Sources:

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Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
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Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | **INDC FactSheet**

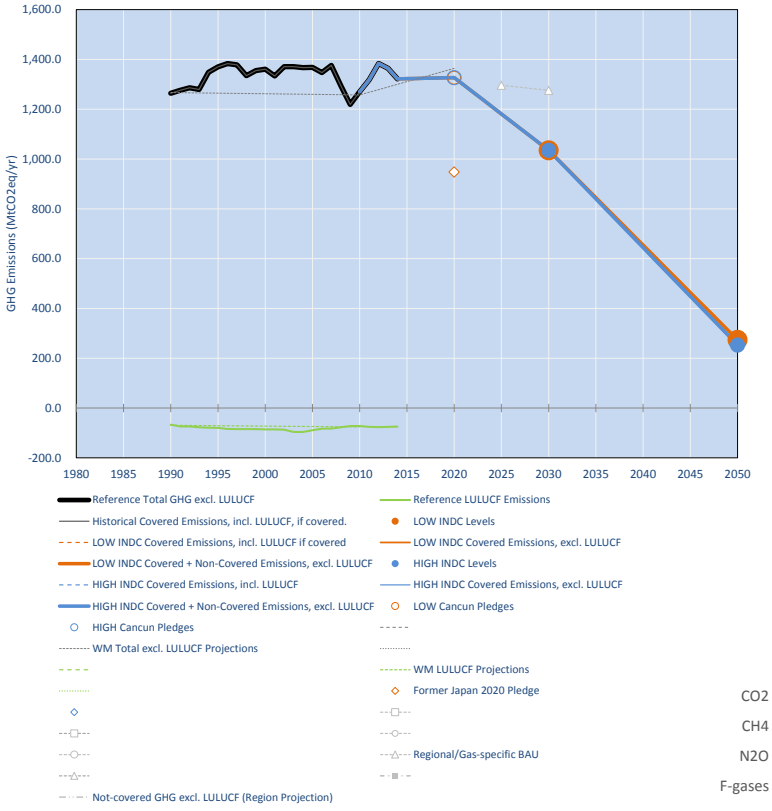
Japan

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-14%**

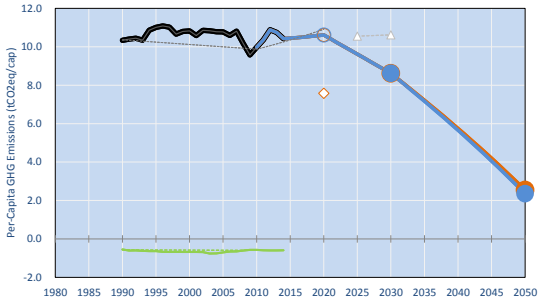
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-4% rel. 2005		-25% rel.2005	Share of World Emissions excl. LULUCF (Rank):	2.8% #6	2.2% #7	1.9% #10
			Per-Capita Emissions (tCO2eq/cap)	10t #42	9.6t #38	8.6t #42

INDC: Level of reduction of 26% by fiscal year (FY) 2030 compared to FY 2013. (GWP AR4)

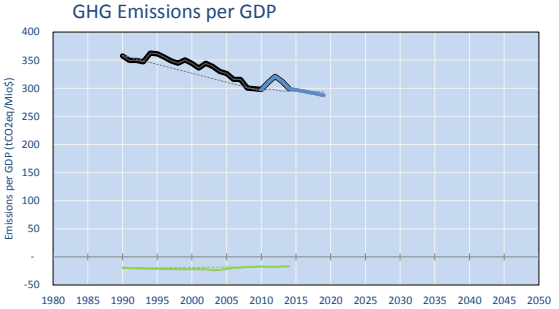
GHG Emissions



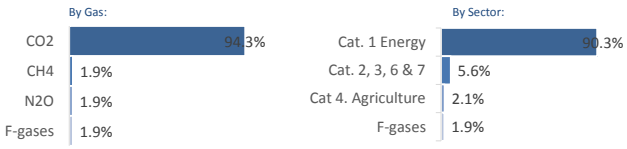
Per-Capita Emissions



GHG Emissions per GDP

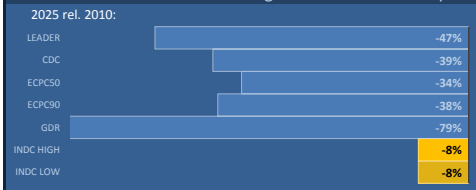


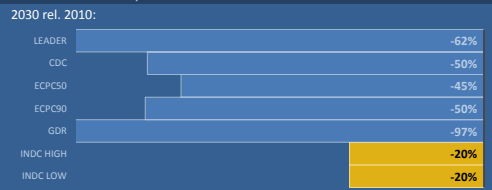
2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org





"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2005 INDC: -13%; Leader:-51%; CDC:-42%; ECPC50:-38%; ECPC90:-42%; GDR:-80% | 2030 rel. 2005 INDC: -25%; Leader:-64%; CDC:-53%; ECPC50:-48%; ECPC90:-53%; GDR:-97%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 11	- 11	- 15	- 15	- 15	- 15
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	1,264	1,361	1,368	1,270	1,327	1,327	1,181	1,181	1,035	1,035
Total GHG excl. LULUCF	1,264	1,361	1,368	1,270	1,327	1,327	1,181	1,181	1,035	1,035
Total GHG incl. LULUCF	1,197	1,275	1,279	1,198	1,327	1,327	1,106	1,106	961	961

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	108%	108%	100%	105%	105%	93%	93%	82%	82%
Relative 2000	93%	100%	101%	93%	98%	98%	87%	87%	76%	76%
Relative 2005	92%	99%	100%	93%	97%	97%	86%	86%	76%	76%
Relative 2010	100%	107%	108%	100%	104%	104%	93%	93%	82%	82%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	122	126	127	127	125	125	123	123	120	120
Per-Capita Emissions (tCO2eq/cap)	10.3	10.8	10.8	10.0	10.6	10.6	9.6	9.6	8.6	8.6
Relative 1990	100%	105%	104%	96%	103%	103%	93%	93%	83%	83%
Relative 2000	95%	100%	100%	92%	98%	98%	89%	89%	80%	80%
Relative 2005	96%	100%	100%	93%	99%	99%	89%	89%	80%	80%
Relative 2010	104%	109%	108%	100%	106%	106%	96%	96%	86%	86%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
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Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Jordan

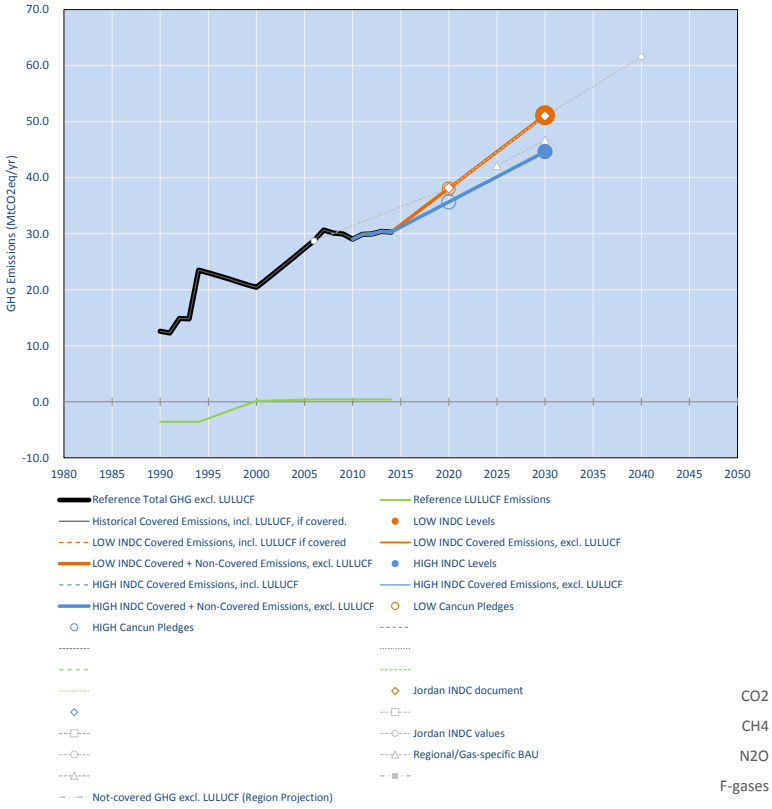
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+18%**

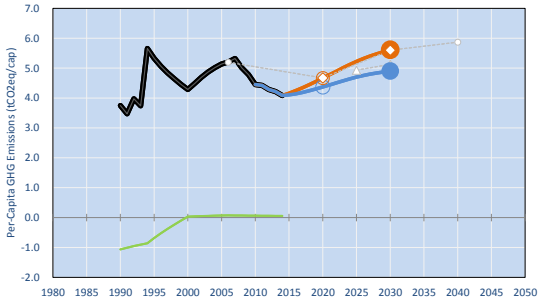
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-2% rel. BAU of 51 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #102	0.1% #101	0.1% #97
		-14% rel. BAU of 51 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	4.5t #94	5t #97	5.3t #88

INDC: Reduction of GHG emissions by 1.5% by 2030 compared to BAUConditional: additional 12.5% reduction subject to financial aid and support of implementation. (GWP SAR)

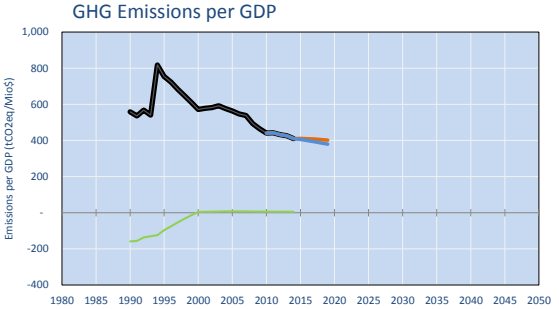
GHG Emissions



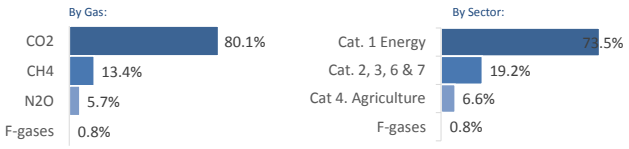
Per-Capita Emissions



GHG Emissions per GDP

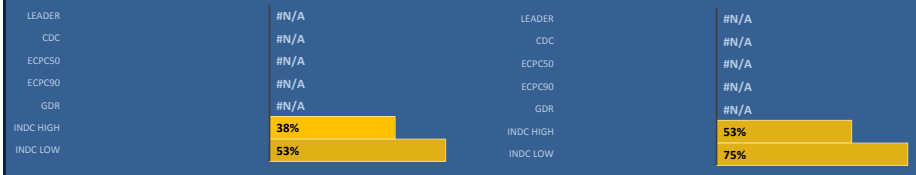


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	13	20	27	29	38	36	45	40	51	45
Total GHG excl. LULUCF	13	20	27	29	38	36	45	40	51	45
Total GHG incl. LULUCF	9	21	28	29	39	36	45	41	52	45

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	162%	218%	230%	303%	283%	354%	319%	406%	354%
Relative 2000	62%	100%	134%	142%	186%	175%	218%	197%	250%	218%
Relative 2005	46%	75%	100%	106%	139%	130%	163%	147%	187%	163%
Relative 2010	43%	70%	94%	100%	131%	123%	154%	138%	176%	154%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	5	5	7	8	8	9	9	9	9
Per-Capita Emissions (tCO2eq/cap)	3.8	4.3	5.1	4.5	4.7	4.4	5.2	4.7	5.6	4.9
Relative 1990	100%	114%	137%	119%	124%	116%	139%	125%	150%	131%
Relative 2000	87%	100%	120%	104%	109%	102%	122%	110%	131%	114%
Relative 2005	73%	83%	100%	87%	91%	85%	102%	91%	109%	95%
Relative 2010	84%	96%	115%	100%	105%	98%	117%	106%	126%	110%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Kazakhstan

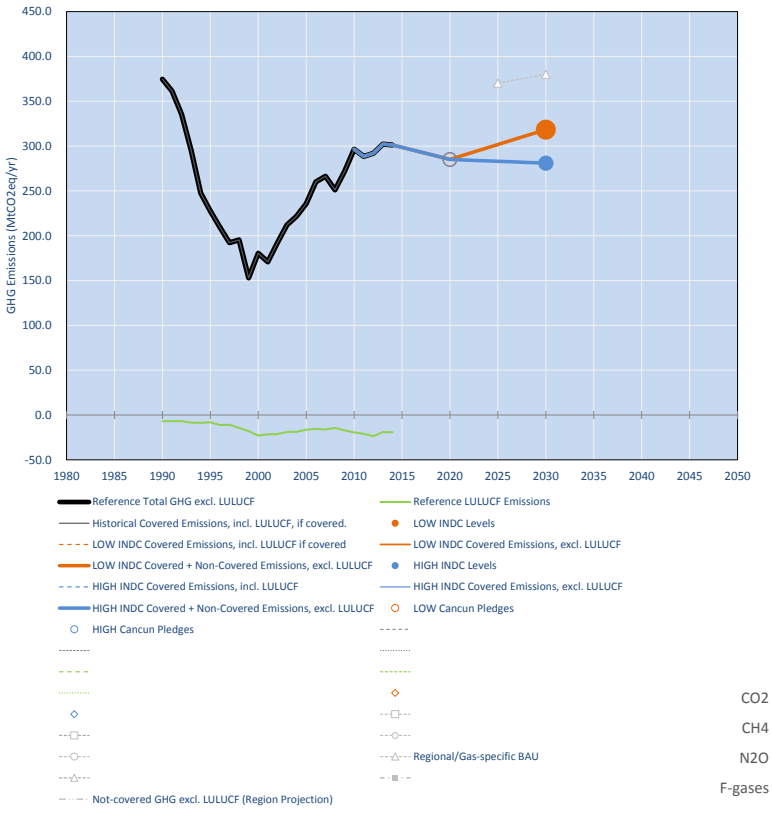
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-18%**

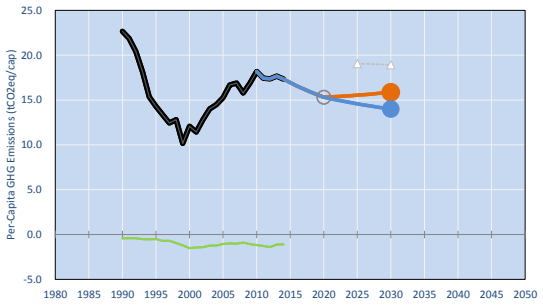
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-15% rel. 1992		-15% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.6% #30	0.5% #34	0.5% #34
-15% rel. 1992		-25% rel.1990(cond.)	Per-Capita Emissions (tCO2eq/cap)	18.2t #15	15.1t #19	14.9t #17

INDC: 15% GHG emission reduction compared to 1990 levels by 2030Conditional target: 25% reduction subject to additional international support. (GWP AR4)

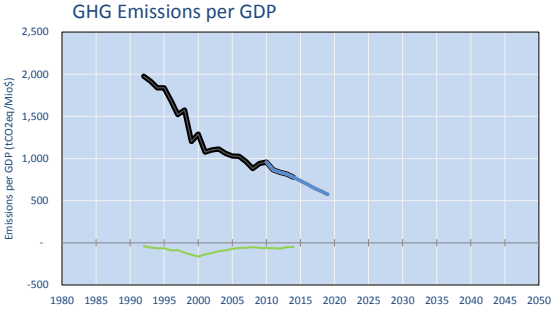
GHG Emissions



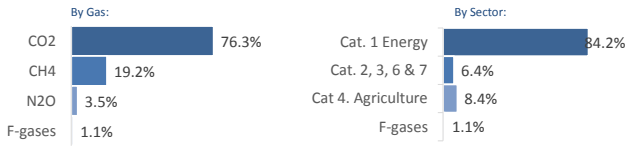
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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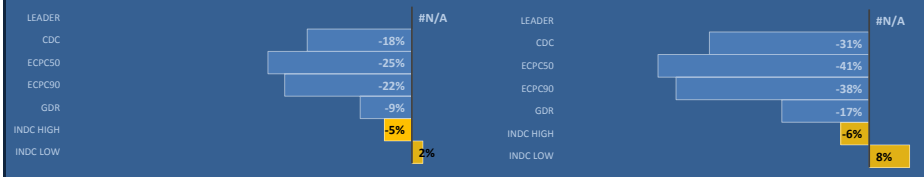

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -23 to -28%; CDC:-38%; ECPC50:-44%; ECPC90:-41%; GDR:-31%

2030 rel. 1990 INDC: -19 to -29%; CDC:-48%; ECPC50:-56%; ECPC90:-53%; GDR:-38%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	375	180	236	297	285	285	302	283	318	281
Total GHG excl. LULUCF	375	180	236	297	285	285	302	283	318	281
Total GHG incl. LULUCF	368	158	219	277	266	266	283	264	299	262

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	48%	63%	79%	76%	76%	81%	76%	85%	75%
Relative 2000	208%	100%	131%	164%	158%	158%	167%	157%	176%	156%
Relative 2005	159%	77%	100%	126%	121%	121%	128%	120%	135%	119%
Relative 2010	126%	61%	80%	100%	96%	96%	102%	95%	107%	95%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	17	15	15	16	19	19	19	19	20	20
Per-Capita Emissions (tCO2eq/cap)	22.7	12.1	15.3	18.2	15.3	15.3	15.5	14.6	15.9	14.0
Relative 1990	100%	53%	67%	80%	68%	68%	69%	64%	70%	62%
Relative 2000	188%	100%	126%	151%	127%	127%	129%	121%	131%	116%
Relative 2005	148%	79%	100%	119%	100%	100%	102%	95%	104%	92%
Relative 2010	125%	66%	84%	100%	84%	84%	85%	80%	87%	77%

Data Sources:

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Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
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Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Kenya

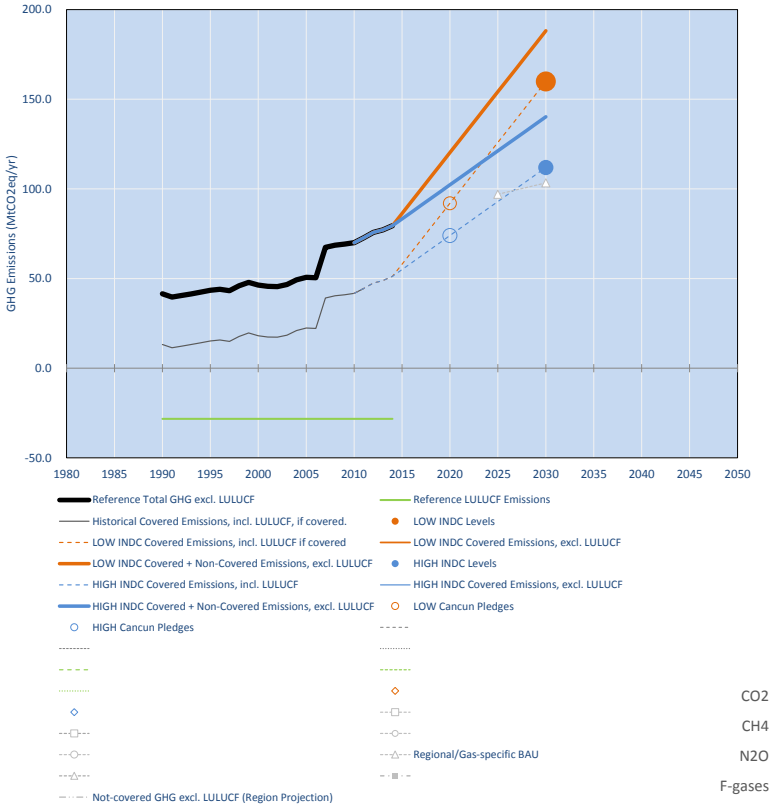
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +45%

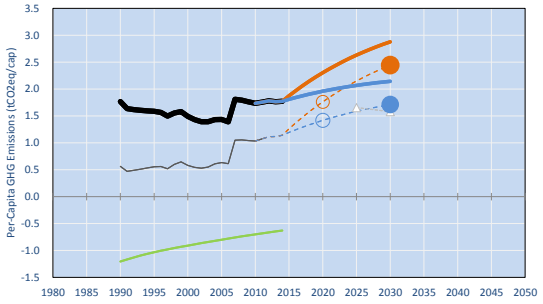
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 143 Mt -30% rel. BAU of 143 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.2% #70	0.3% #48	0.3% #47
			Per-Capita Emissions (tCO2eq/cap)	1.7t #161	2.3t #140	2.5t #136

INDC: Seeks to abate its GHG emissions by 30% by 2030 relative to BAU scenario. (GWP SAR)

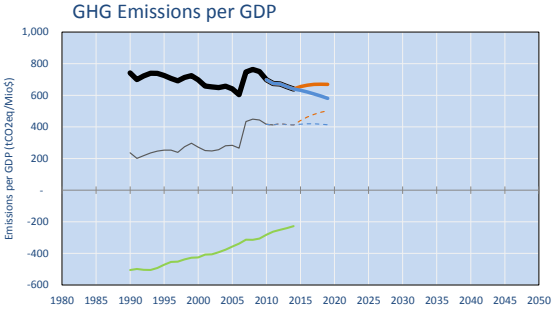
GHG Emissions



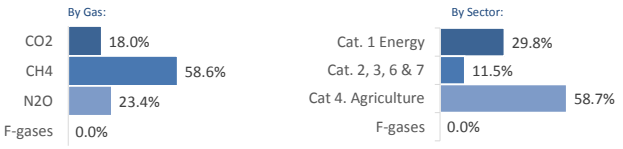
Per-Capita Emissions



GHG Emissions per GDP

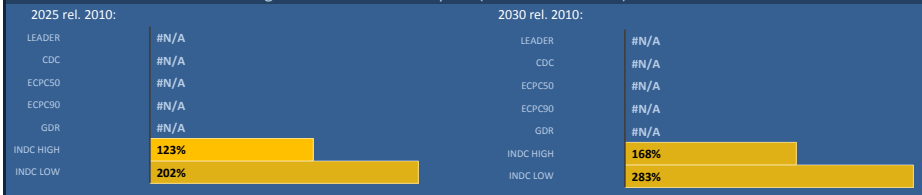


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 28	- 28	- 28	- 28	- 28	- 28	- 28	- 28	- 28	- 28
INDC covered Emissions excl. LULUCF	41	46	51	70	120	102	154	121	188	140
Total GHG excl. LULUCF	41	46	51	70	120	102	154	121	188	140
Total GHG incl. LULUCF	13	18	22	42	92	74	126	93	160	112

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	112%	122%	169%	290%	247%	372%	292%	454%	338%
Relative 2000	89%	100%	109%	151%	259%	221%	333%	262%	406%	302%
Relative 2005	82%	91%	100%	138%	237%	202%	304%	239%	371%	277%
Relative 2010	59%	66%	72%	100%	172%	146%	220%	173%	269%	200%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	23	31	35	40	52	52	59	59	65	65
Per-Capita Emissions (tCO2eq/cap)	1.8	1.5	1.4	1.7	2.3	2.0	2.6	2.1	2.9	2.1
Relative 1990	100%	84%	81%	98%	130%	111%	149%	117%	163%	121%
Relative 2000	119%	100%	96%	116%	154%	131%	176%	139%	193%	144%
Relative 2005	123%	104%	100%	121%	161%	137%	183%	144%	201%	149%
Relative 2010	102%	86%	83%	100%	133%	113%	152%	119%	166%	124%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Uncertain historical emissions.

INDC FactSheet

Kiribati

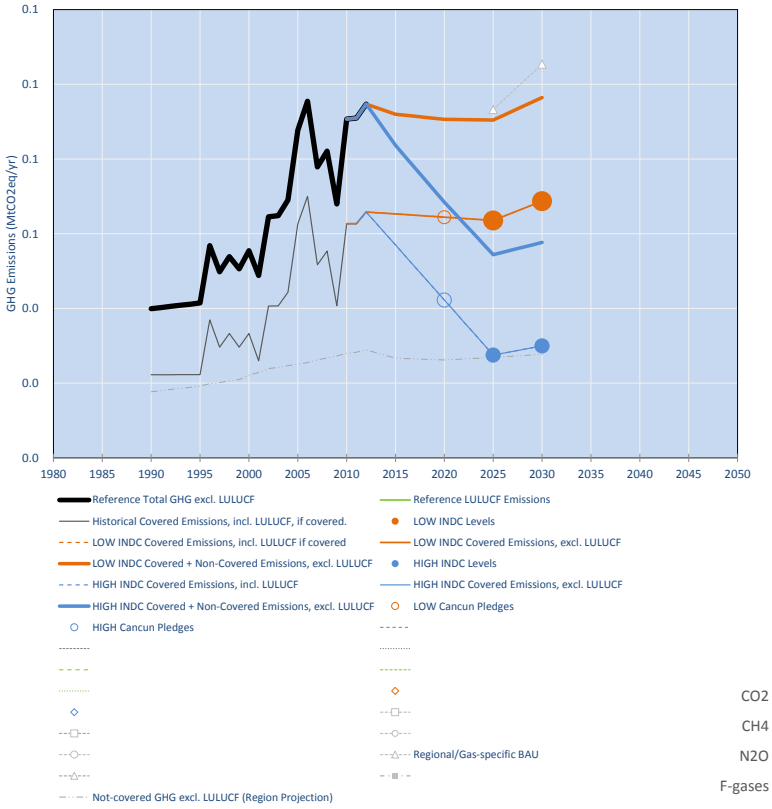
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-38%**

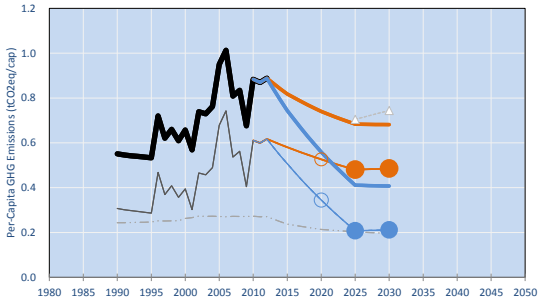
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	-14% rel. BAU of 0.1 Mt -63% rel. BAU of 0.1 Mt(cond.)	-13% rel. BAU of 0 Mt -62% rel. BAU of 0 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.0% #194	0.0% #195	0.0% #195
			Per-Capita Emissions (tCO2eq/cap)	0.9t #188	0.5t #195	0.5t #195

INDC: Reduction of emissions by 13.7% by 2025 and 12.8% by 2030 compared to BAU levels Conditional target: can increase by further 48.8% and 49% with appropriate international assistance. (Not specified (only CO2 covered))

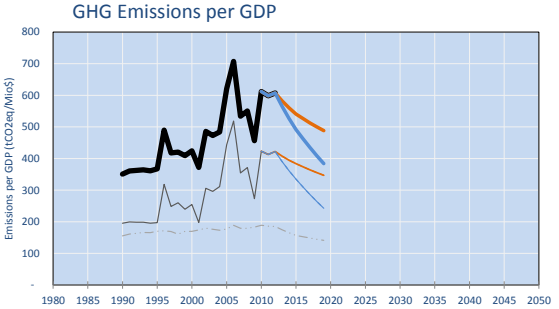
GHG Emissions



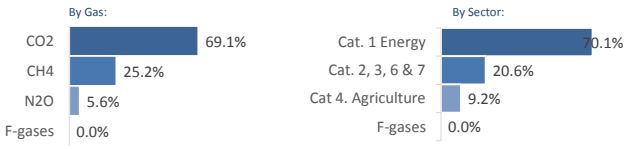
Per-Capita Emissions



GHG Emissions per GDP

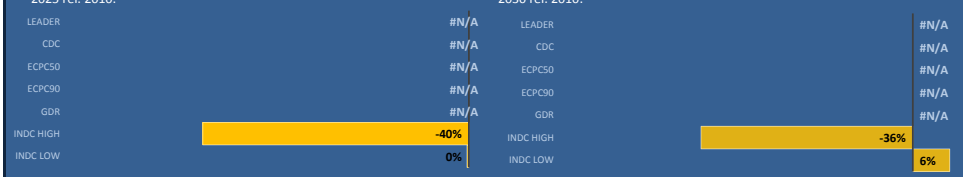


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	139%	220%	227%	227%	171%	227%	136%	242%	144%
Relative 2000	72%	100%	158%	164%	163%	123%	163%	98%	174%	104%
Relative 2005	46%	63%	100%	103%	103%	78%	103%	62%	110%	66%
Relative 2010	44%	61%	97%	100%	100%	75%	100%	60%	106%	64%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	0.6	0.7	1.0	0.9	0.7	0.6	0.7	0.4	0.7	0.4
Relative 1990	100%	119%	172%	160%	134%	101%	124%	75%	124%	74%
Relative 2000	84%	100%	145%	134%	113%	85%	104%	63%	104%	62%
Relative 2005	58%	69%	100%	93%	78%	59%	72%	43%	72%	43%
Relative 2010	62%	74%	108%	100%	84%	63%	77%	47%	77%	46%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Kyrgyzstan

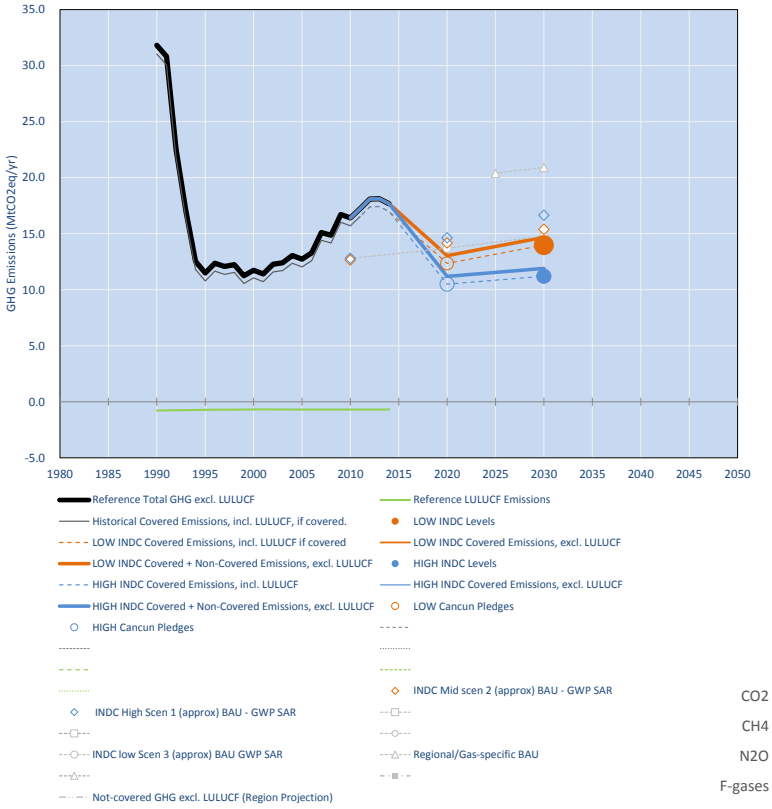
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-38%**

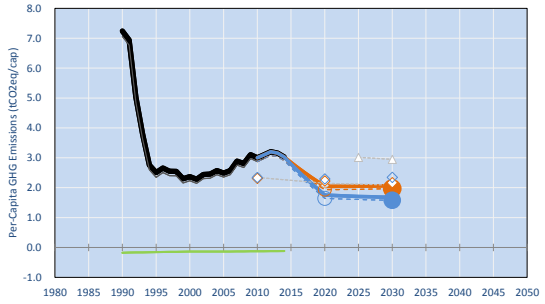
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-16% rel. BAU of 14.2		-13% rel. BAU of 15 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #123	0.0% #143	0.0% #140
-29% rel. BAU of 14.2(cond.)		-30% rel. BAU of 15 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3t #126	1.9t #156	1.9t #159

INDC: Reduction of GHG emissions in the range of 11.49- 13.75% below BAU in 2030Conditional target: reduction of 29-30.89% below BAU pending international support. (GWP SAR)

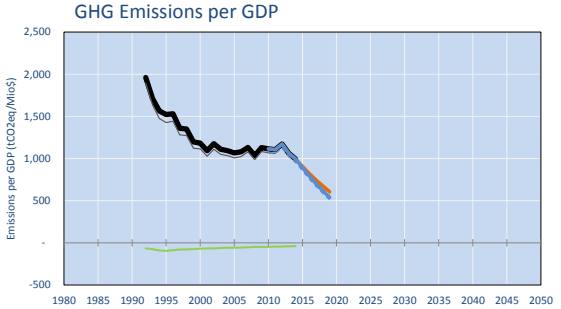
GHG Emissions



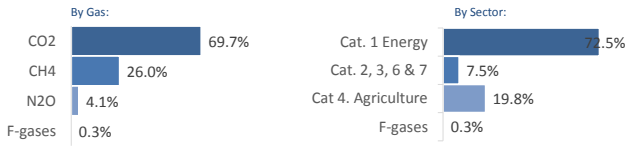
Per-Capita Emissions



GHG Emissions per GDP

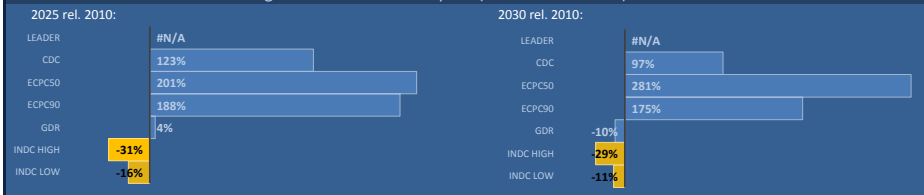


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1
INDC covered Emissions excl. LULUCF	32	12	13	16	13	11	14	12	15	12
Total GHG excl. LULUCF	32	12	13	16	13	11	14	12	15	12
Total GHG incl. LULUCF	31	11	12	16	12	11	13	11	14	11

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	37%	40%	52%	41%	35%	44%	36%	46%	37%
Relative 2000	271%	100%	108%	140%	111%	95%	118%	98%	125%	101%
Relative 2005	250%	92%	100%	129%	102%	88%	109%	91%	115%	93%
Relative 2010	194%	72%	78%	100%	80%	68%	84%	70%	89%	73%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	5	5	5	6	6	7	7	7	7
Per-Capita Emissions (tCO2eq/cap)	7.2	2.4	2.5	3.0	2.0	1.8	2.0	1.7	2.1	1.7
Relative 1990	100%	33%	34%	41%	28%	24%	28%	24%	29%	23%
Relative 2000	306%	100%	105%	127%	86%	74%	86%	72%	87%	71%
Relative 2005	291%	95%	100%	121%	82%	70%	82%	69%	83%	67%
Relative 2010	241%	79%	83%	100%	68%	58%	68%	57%	69%	56%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
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Population	UN 2015 Population Projections MEDIUM
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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Lao People's Democratic Republic

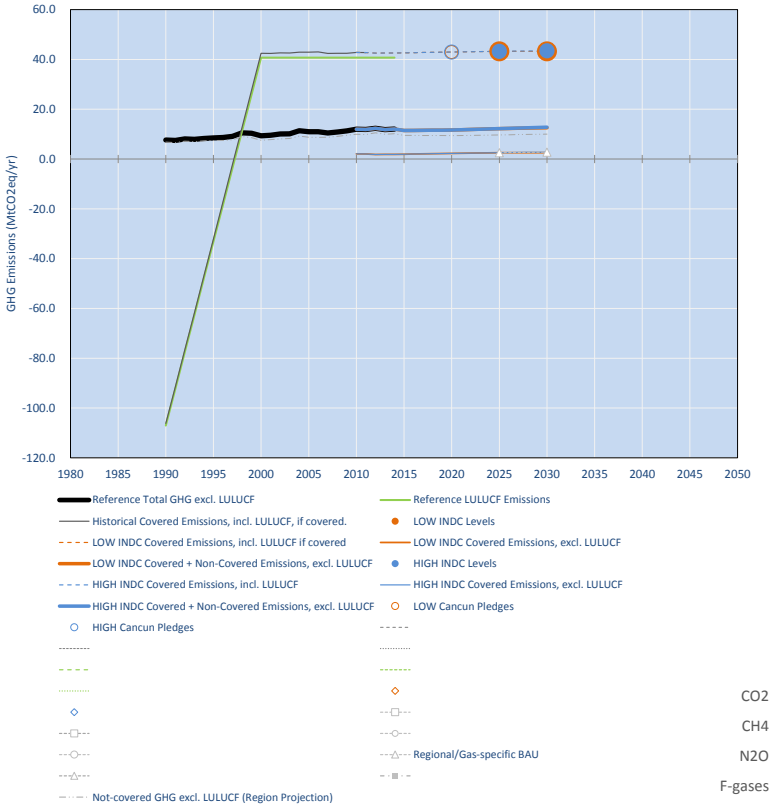
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -22%

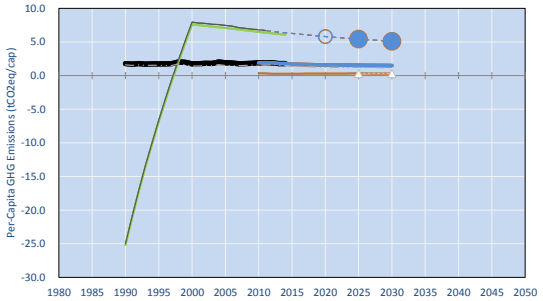
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		43.3 Mt (Policies and Measures)	Share of World Emissions excl. LULUCF (Rank):	0.0% #137	0.0% #144	0.0% #141
		43.5 Mt (Policies and measures)(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.9t #153	1.5t #166	1.5t #169

INDC: Policies and actions to reduce future GHG emissions subject to international support. (GWP unclear)

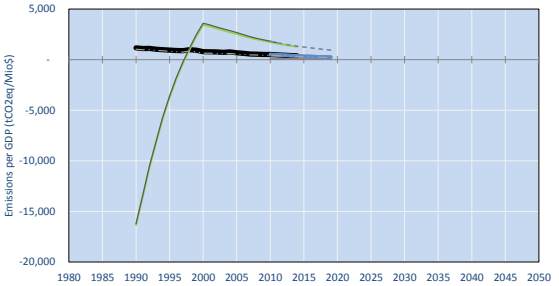
GHG Emissions



Per-Capita Emissions



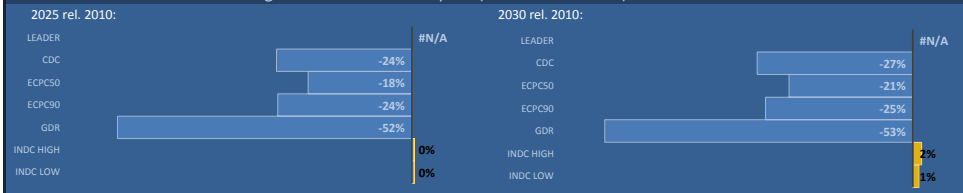
GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GW AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 107	41	41	41	41	41	41	41	41	41
INDC covered Emissions excl. LULUCF	1	2	2	2	2	2	3	3	3	3
Total GHG excl. LULUCF	8	9	11	12	12	12	12	12	13	13
Total GHG incl. LULUCF	- 99	50	52	53	52	52	53	53	53	53

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	122%	144%	157%	153%	153%	160%	160%	165%	168%
Relative 2000	82%	100%	118%	129%	125%	125%	131%	131%	135%	138%
Relative 2005	70%	85%	100%	109%	106%	106%	111%	111%	114%	117%
Relative 2010	64%	78%	91%	100%	97%	97%	102%	102%	105%	107%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	5	6	6	7	7	8	8	8	8
Per-Capita Emissions (tCO2eq/cap)	1.8	1.7	1.9	1.9	1.6	1.6	1.5	1.5	1.5	1.5
Relative 1990	100%	97%	106%	107%	88%	88%	85%	85%	82%	84%
Relative 2000	103%	100%	110%	110%	90%	90%	88%	88%	85%	87%
Relative 2005	94%	91%	100%	100%	82%	82%	80%	80%	77%	79%
Relative 2010	94%	91%	100%	100%	82%	82%	80%	80%	77%	79%

a project with PRIMAP at PIK:

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

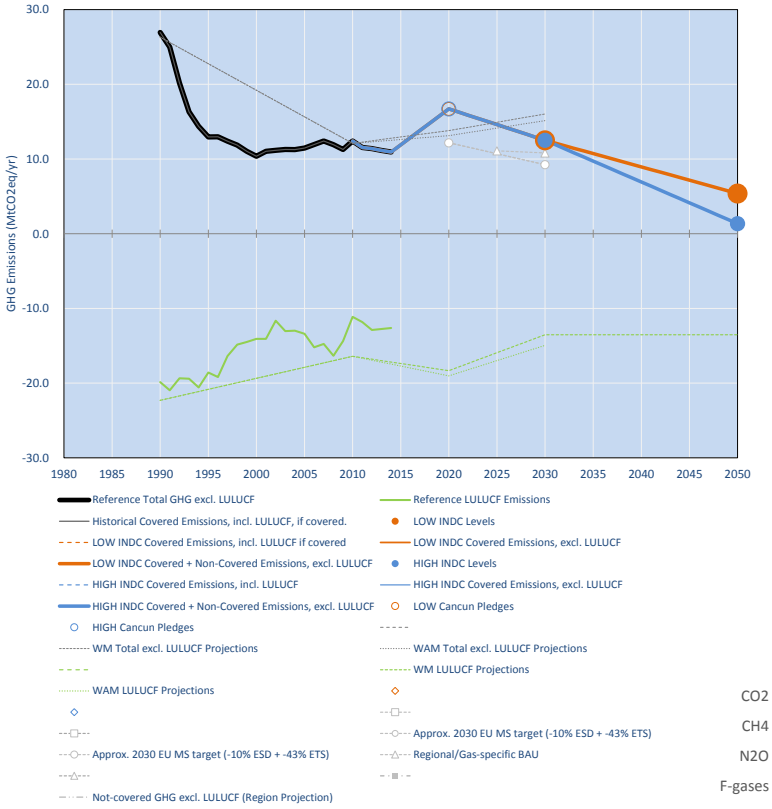
INDC FactSheet

Latvia

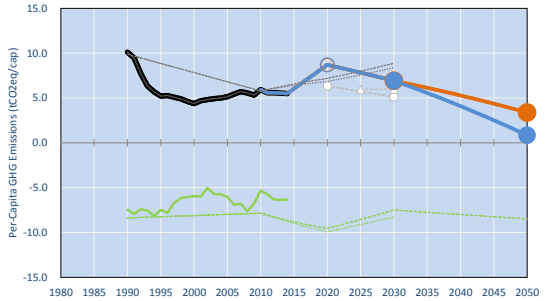
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +17%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.0% #131	0.0% #138	0.0% #142
			Per-Capita Emissions (tCO2eq/cap)	5.9t #81	7.8t #57	6.9t #63

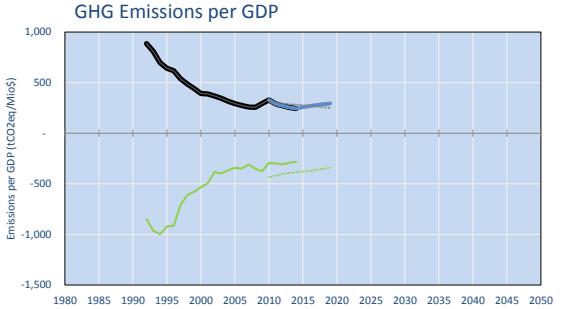
GHG Emissions



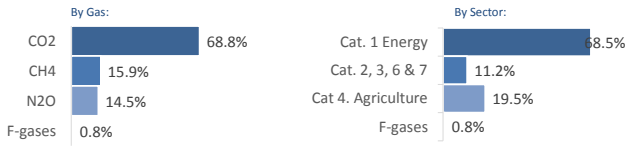
Per-Capita Emissions



GHG Emissions per GDP

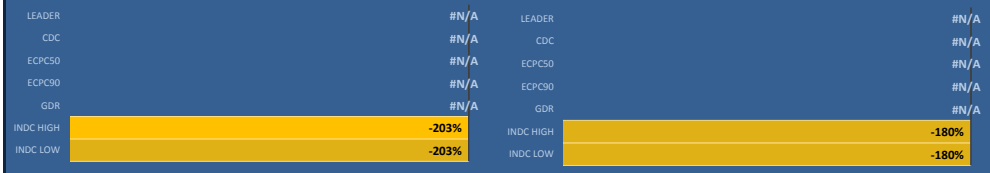


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-5	-5	-3	-3	-3	-3
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	27	10	11	12	17	17	15	15	13	13
Total GHG excl. LULUCF	27	10	11	12	17	17	15	15	13	13
Total GHG incl. LULUCF	7	-4	-2	1	-2	-2	-1	-1	-1	-1

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	39%	43%	46%	62%	62%	54%	54%	46%	46%
Relative 2000	260%	100%	111%	120%	161%	161%	141%	141%	121%	121%
Relative 2005	235%	90%	100%	108%	146%	146%	127%	127%	109%	109%
Relative 2010	217%	84%	92%	100%	135%	135%	118%	118%	101%	101%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	2	2	2	2	2	2	2	2	2
Per-Capita Emissions (tCO2eq/cap)	10.1	4.4	5.1	5.9	8.7	8.7	7.8	7.8	6.9	6.9
Relative 1990	100%	43%	51%	59%	86%	86%	77%	77%	68%	68%
Relative 2000	231%	100%	118%	136%	199%	199%	179%	179%	158%	158%
Relative 2005	196%	85%	100%	115%	169%	169%	152%	152%	134%	134%
Relative 2010	170%	74%	87%	100%	147%	147%	132%	132%	117%	117%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Lebanon

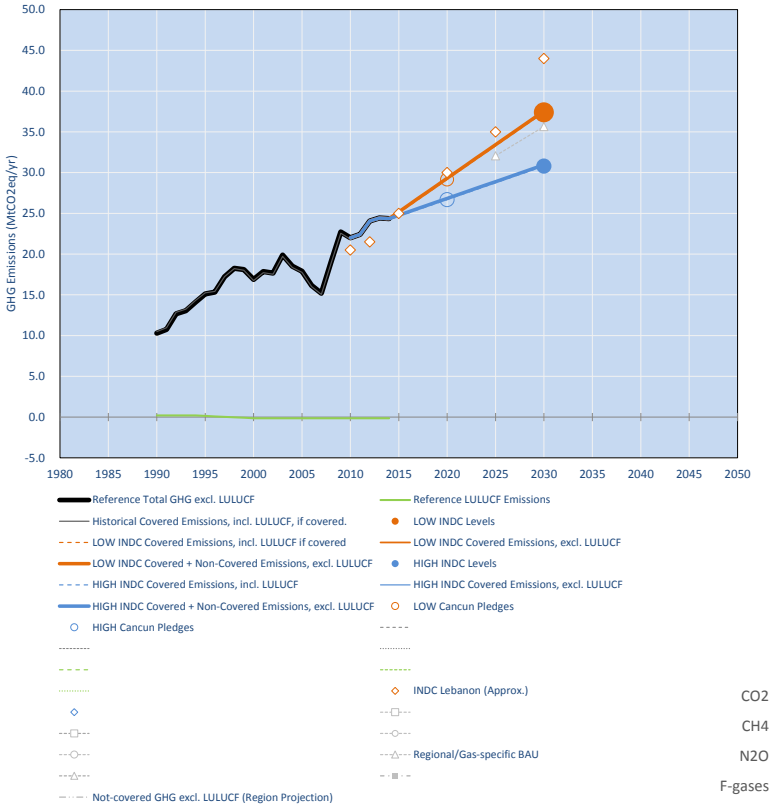
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+28%**

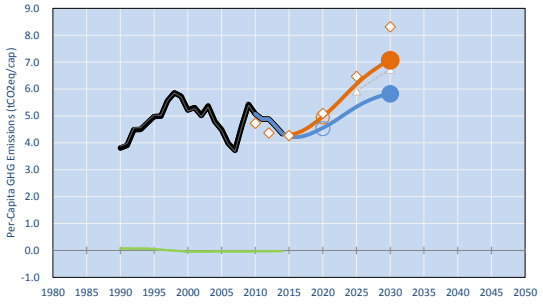
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-15% rel. BAU of 44 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #114	0.1% #113	0.1% #110
		-30% rel. BAU of 44 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	5.1t #90	5.8t #78	6.5t #68

INDC: GHG emission reduction of 15% compared to BAU scenario in 2030Conditional target: 30% GHG emission reduction compared to BAU. (GWP unclear)

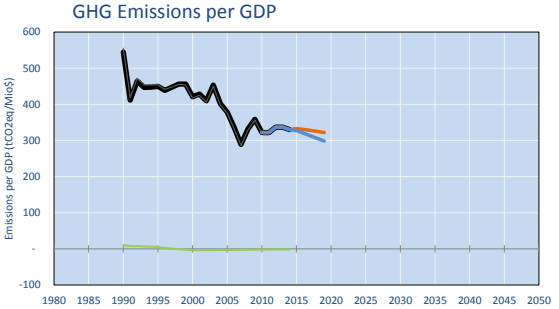
GHG Emissions



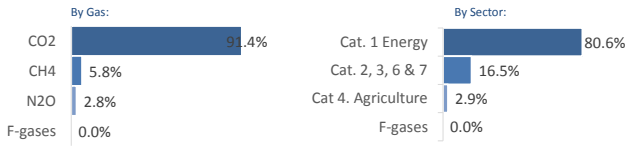
Per-Capita Emissions



GHG Emissions per GDP

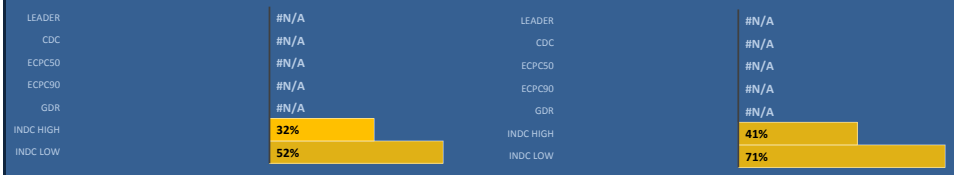


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	0	0	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF	10	17	18	22	29	27	33	29	38	31
Total GHG excl. LULUCF	10	17	18	22	29	27	33	29	38	31
Total GHG incl. LULUCF	10	17	18	22	29	27	33	29	37	31

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	164%	174%	214%	285%	261%	325%	281%	365%	301%
Relative 2000	61%	100%	106%	130%	173%	159%	198%	171%	222%	183%
Relative 2005	58%	94%	100%	123%	164%	150%	187%	161%	210%	173%
Relative 2010	47%	77%	81%	100%	133%	122%	152%	131%	171%	141%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	3	4	4	6	6	5	5	5	5
Per-Capita Emissions (tCO2eq/cap)	3.8	5.2	4.5	5.1	5.0	4.6	6.2	5.3	7.1	5.8
Relative 1990	100%	137%	118%	133%	131%	120%	162%	140%	186%	154%
Relative 2000	73%	100%	86%	97%	95%	87%	118%	102%	136%	112%
Relative 2005	85%	116%	100%	113%	111%	101%	138%	119%	158%	130%
Relative 2010	75%	103%	89%	100%	98%	90%	122%	105%	140%	115%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

No BAU provided. Assumed.

INDC FactSheet

Lesotho

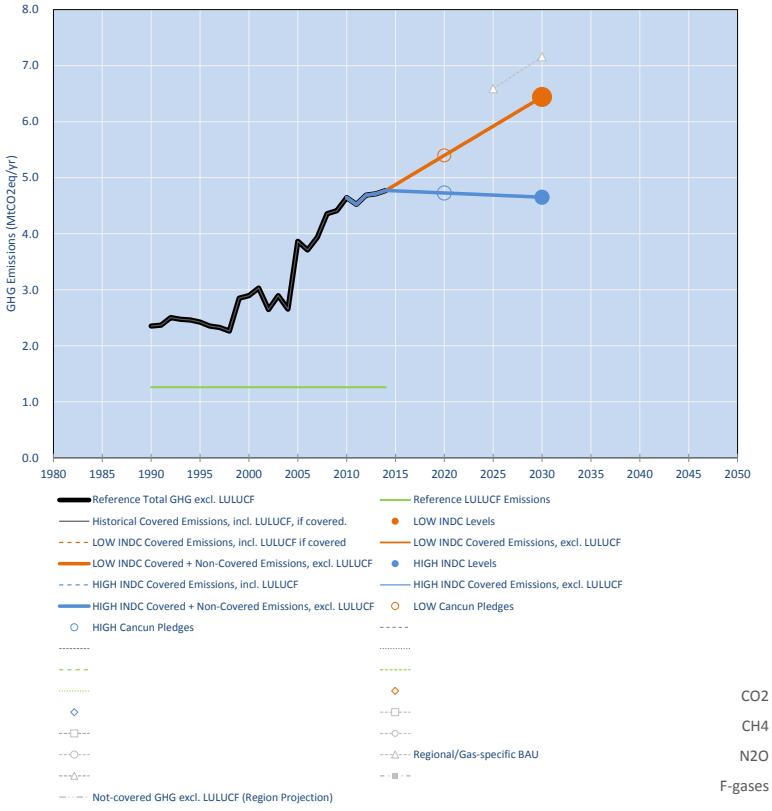
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-3%**

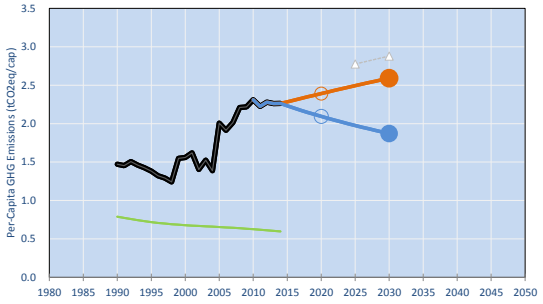
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-10% rel. BAU of 7 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #156	0.0% #157	0.0% #156
		-35% rel. BAU of 7 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.3t #140	2.2t #145	2.2t #144

INDC: Energy sector mitigation policy/ program and targets to improve energy efficiency, coverage and access, as well as increase in renewable energy and reduce transmission and distribution losses; conditional on financial support. (GWP unclear)

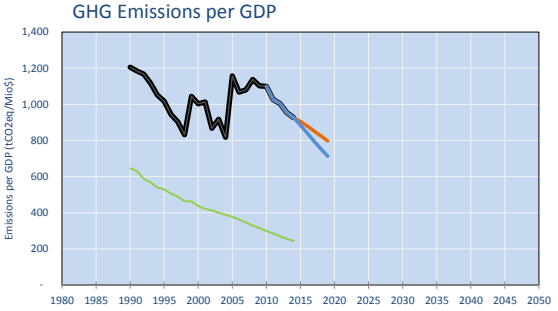
GHG Emissions



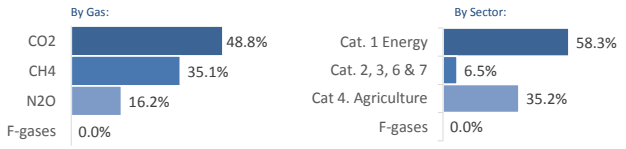
Per-Capita Emissions



GHG Emissions per GDP

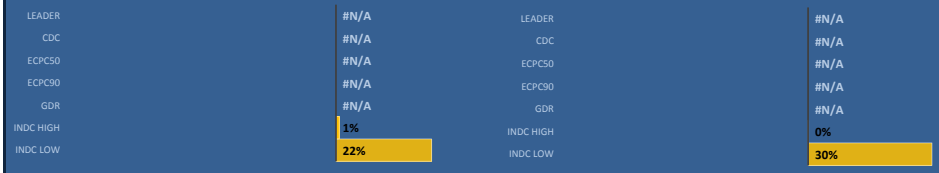


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	2	3	4	5	5	5	6	5	6	5
Total GHG excl. LULUCF	2	3	4	5	5	5	6	5	6	5
Total GHG incl. LULUCF	4	4	5	6	7	6	7	6	8	6

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	123%	164%	197%	229%	201%	252%	199%	274%	198%
Relative 2000	81%	100%	134%	161%	187%	163%	205%	162%	223%	161%
Relative 2005	61%	75%	100%	120%	140%	122%	153%	121%	167%	120%
Relative 2010	51%	62%	83%	100%	116%	102%	127%	101%	139%	100%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	2	2	2	2	2	2	2	2	2
Per-Capita Emissions (tCO2eq/cap)	1.5	1.6	2.0	2.3	2.4	2.1	2.5	2.0	2.6	1.9
Relative 1990	100%	106%	136%	157%	162%	142%	169%	134%	176%	127%
Relative 2000	94%	100%	129%	148%	153%	134%	160%	127%	166%	120%
Relative 2005	73%	78%	100%	115%	119%	104%	124%	98%	129%	93%
Relative 2010	64%	67%	87%	100%	103%	91%	108%	86%	112%	81%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Liberia

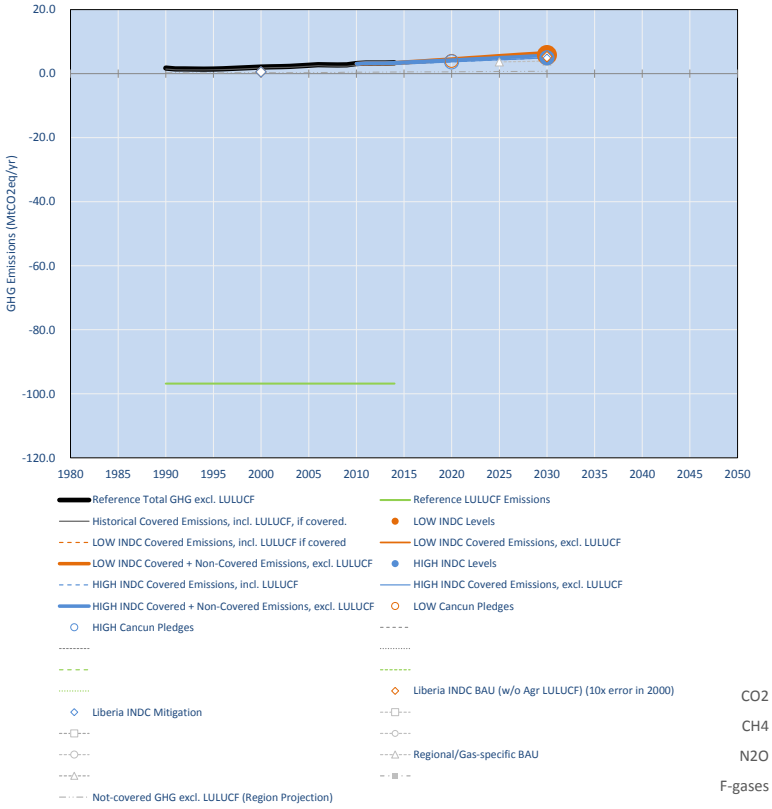
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +21%

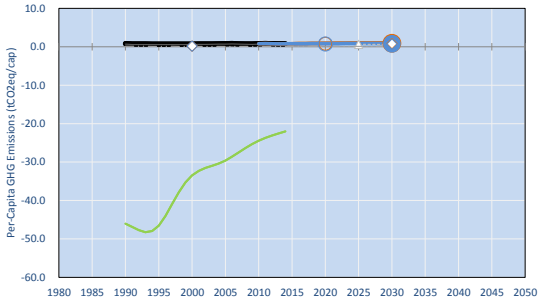
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 5 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #162	0.0% #156	0.0% #155
		-15% rel. BAU of 5 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	0.8t #190	0.9t #185	1t #183

INDC: Establish energy policies to reduce GHG by at least 10%, improve energy efficiency by 20%, raise share of renewable energy by 30% of energy production, replace cooking stoves with higher efficiency stoves. (GWP SAR)

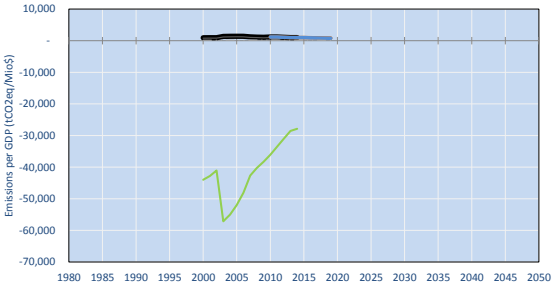
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	1	2	2	3	4	4	5	4	6	5
Total GHG excl. LULUCF	2	2	3	3	5	4	6	5	7	6
Total GHG incl. LULUCF	- 95	- 95	- 94	- 94	- 92	- 93	- 91	- 92	- 90	- 91

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	117%	149%	180%	262%	243%	321%	286%	377%	326%
Relative 2000	86%	100%	128%	154%	224%	208%	275%	245%	322%	279%
Relative 2005	67%	78%	100%	121%	176%	163%	215%	192%	253%	219%
Relative 2010	56%	65%	83%	100%	146%	135%	179%	159%	210%	182%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	3	3	4	5	5	6	6	6	6
Per-Capita Emissions (tCO2eq/cap)	0.8	0.7	0.8	0.8	0.9	0.8	1.0	0.9	1.0	0.9
Relative 1990	100%	85%	96%	95%	108%	100%	118%	105%	124%	107%
Relative 2000	118%	100%	113%	112%	127%	118%	139%	124%	145%	126%
Relative 2005	104%	89%	100%	100%	113%	105%	123%	110%	129%	112%
Relative 2010	105%	89%	100%	100%	113%	105%	123%	110%	129%	112%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

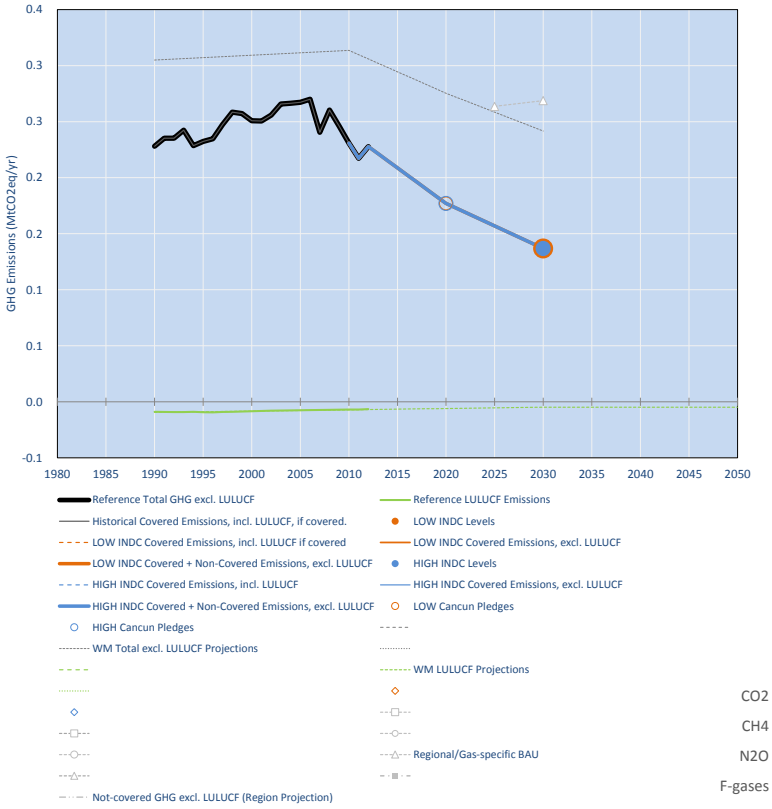
Liechtenstein

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-48%**

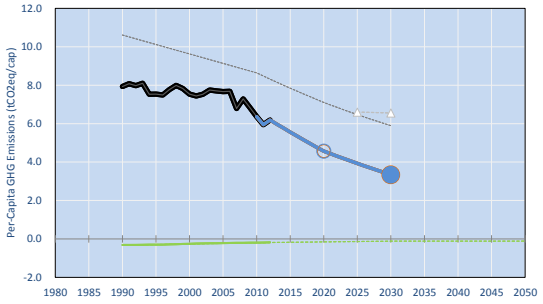
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990		-40% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.0% #185	0.0% #189	0.0% #191
			Per-Capita Emissions (tCO2eq/cap)	6.4t #76	3.9t #111	3.3t #120

INDC: 40% reduction of GHG emissions by 2030 compared to 1990, subject to the possibility to also achieve emission reductions abroad. (GWP SAR)

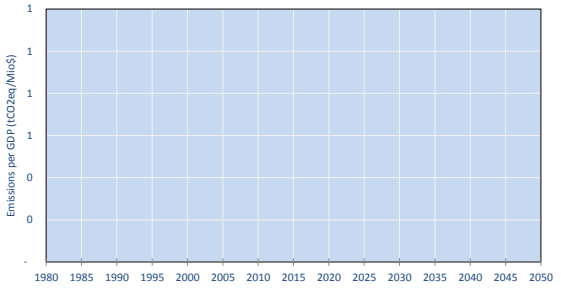
GHG Emissions



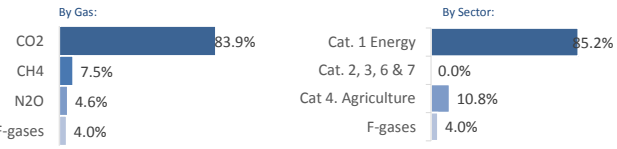
Per-Capita Emissions



GHG Emissions per GDP

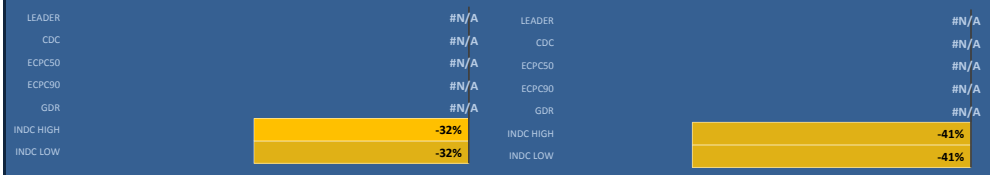


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:
- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -31%; GDR:12% | 2030 rel. 1990 INDC: -40%; GDR:14%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					0	0				
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	110%	117%	101%	78%	78%	69%	69%	60%	60%
Relative 2000	91%	100%	107%	92%	71%	71%	63%	63%	55%	55%
Relative 2005	85%	94%	100%	86%	66%	66%	59%	59%	51%	51%
Relative 2010	99%	109%	116%	100%	77%	77%	68%	68%	59%	59%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	7.9	7.5	7.7	6.4	4.6	4.6	3.9	3.9	3.3	3.3
Relative 1990	100%	95%	97%	80%	58%	58%	50%	50%	42%	42%
Relative 2000	105%	100%	102%	84%	61%	61%	52%	52%	44%	44%
Relative 2005	103%	98%	100%	83%	60%	60%	51%	51%	44%	44%
Relative 2010	125%	118%	120%	100%	72%	72%	62%	62%	52%	52%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

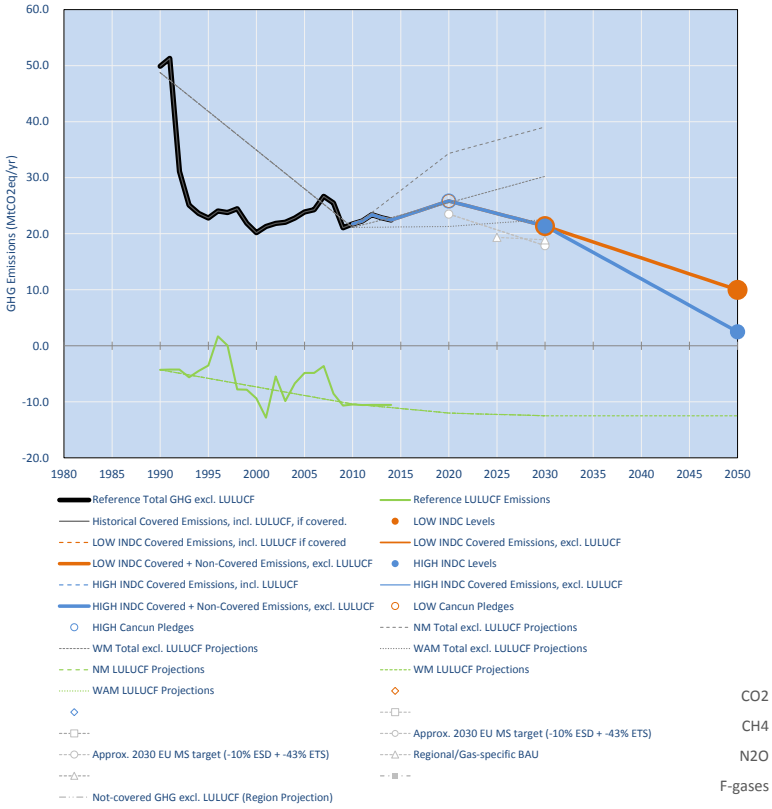
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Lithuania

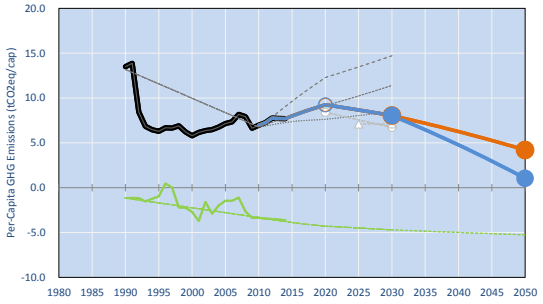
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +16%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.0% #115	0.0% #121	0.0% #124
			Per-Capita Emissions (tCO2eq/cap)	7t #68	8.7t #48	8.1t #48

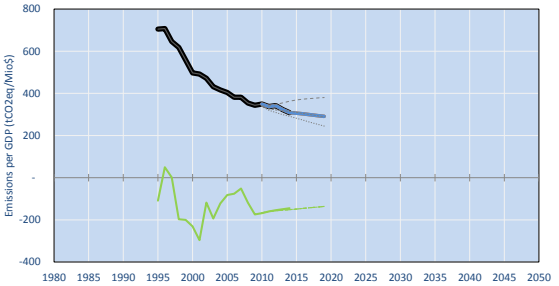
GHG Emissions



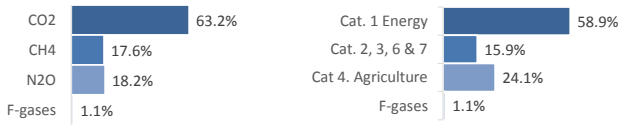
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	1%	-21%
INDC LOW	1%	-21%

"Fair" contributions for a global 'least-cost' 2°C track:
- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-2	-2	-4	-4	-4	-4
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	50	20	24	22	26	26	24	24	21	21
Total GHG excl. LULUCF	50	20	24	22	26	26	24	24	21	21
Total GHG incl. LULUCF	46	11	19	11	14	14	11	11	9	9

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	40%	48%	44%	52%	52%	47%	47%	43%	43%
Relative 2000	247%	100%	118%	108%	128%	128%	117%	117%	106%	106%
Relative 2005	209%	84%	100%	91%	108%	108%	99%	99%	89%	89%
Relative 2010	229%	93%	110%	100%	119%	119%	109%	109%	98%	98%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	3	3	3	3	3	3	3	3	3
Per-Capita Emissions (tCO2eq/cap)	13.5	5.8	7.1	7.0	9.2	9.2	8.7	8.7	8.1	8.1
Relative 1990	100%	43%	53%	52%	69%	69%	64%	64%	60%	60%
Relative 2000	233%	100%	123%	120%	160%	160%	150%	150%	139%	139%
Relative 2005	189%	81%	100%	97%	129%	129%	121%	121%	113%	113%
Relative 2010	194%	83%	103%	100%	133%	133%	124%	124%	116%	116%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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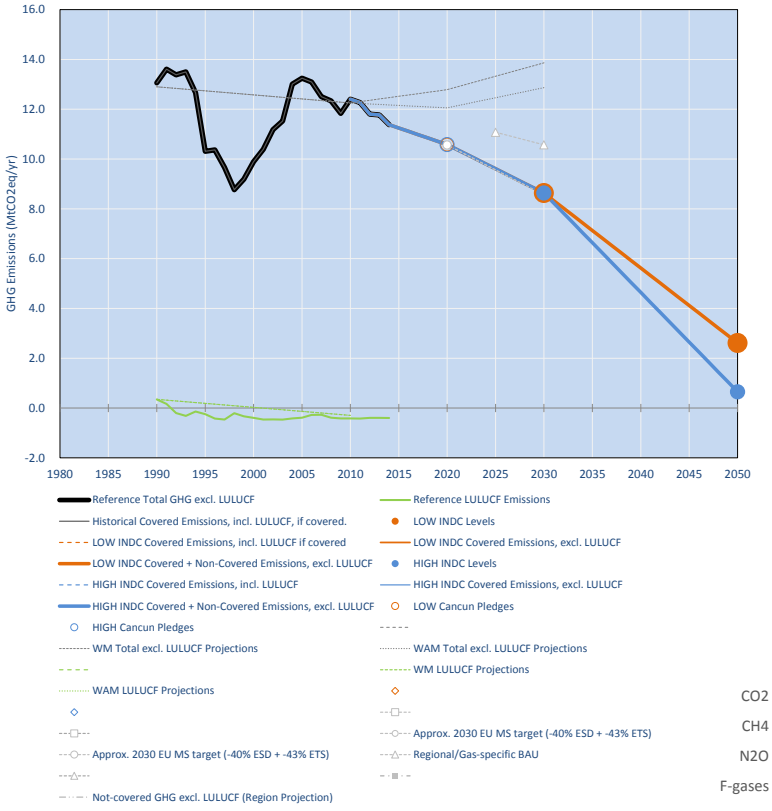
Luxembourg

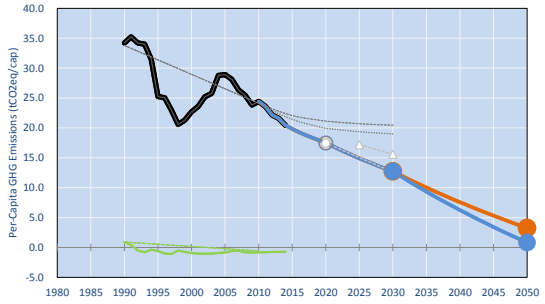
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -48%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.0% #132	0.0% #147	0.0% #150
			Per-Capita Emissions (tCO2eq/cap)	24.4t #9	14.9t #20	12.7t #23

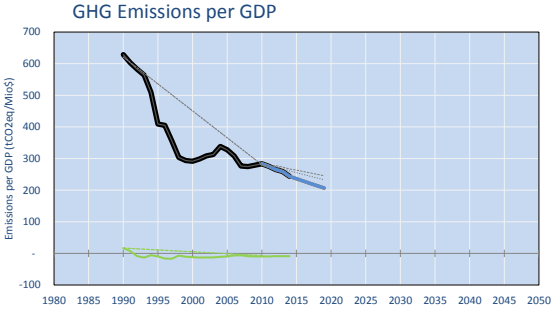
GHG Emissions



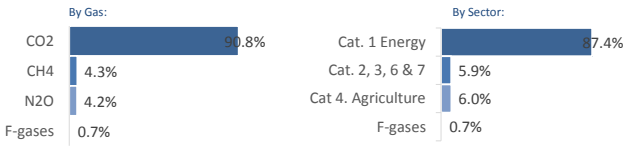
Per-Capita Emissions



GHG Emissions per GDP

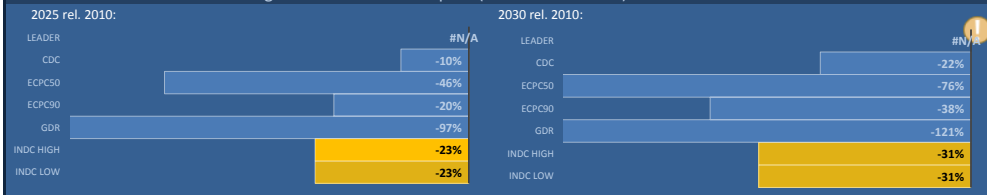


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 0	- 0	- 0	- 0	- 0	- 0
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	13	10	13	12	11	11	10	10	9	9
Total GHG excl. LULUCF	13	10	13	12	11	11	10	10	9	9
Total GHG incl. LULUCF	13	9	13	12	11	11	9	9	8	8

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	76%	101%	95%	81%	81%	74%	74%	66%	66%
Relative 2000	132%	100%	134%	125%	107%	107%	97%	97%	87%	87%
Relative 2005	99%	75%	100%	94%	80%	80%	73%	73%	65%	65%
Relative 2010	105%	80%	107%	100%	85%	85%	77%	77%	70%	70%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	34.2	22.7	28.9	24.4	17.5	17.5	14.9	14.9	12.7	12.7
Relative 1990	100%	66%	85%	71%	51%	51%	44%	44%	37%	37%
Relative 2000	151%	100%	128%	108%	77%	77%	66%	66%	56%	56%
Relative 2005	118%	78%	100%	84%	60%	60%	52%	52%	44%	44%
Relative 2010	140%	93%	118%	100%	72%	72%	61%	61%	52%	52%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Very different historical emission sources. Particular landuse emissions.

INDC FactSheet

Madagascar

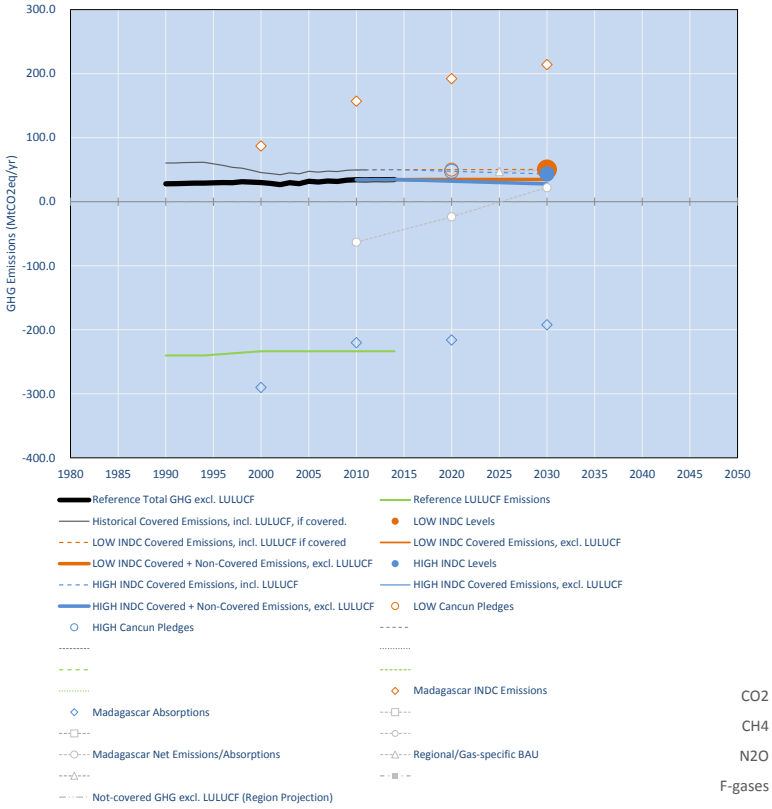
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-46%**

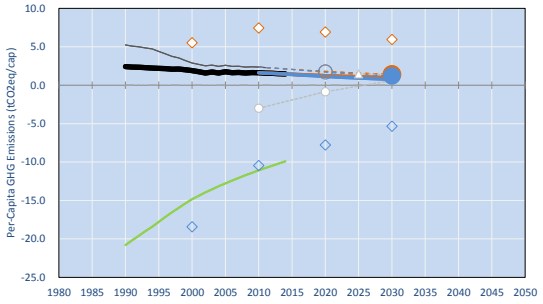
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 47 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #92	0.1% #111	0.1% #114
		-14% rel. BAU of 47 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.6t #162	1t #182	0.9t #185

INDC: Reduce Emissions from all sectors by 14% relative to BAU. And increase sinks from LULUCF by 32%. . (GWP SAR)

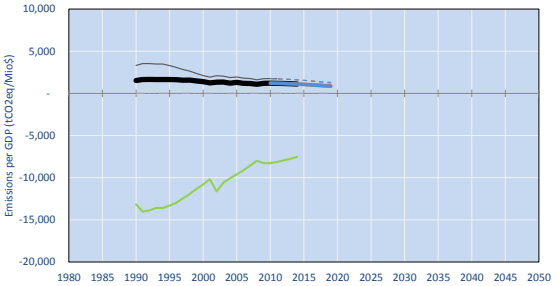
GHG Emissions



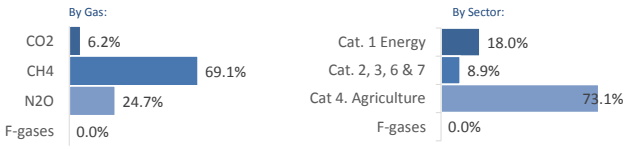
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	32	16	16	16	16	16	16	16	16	16
INDC covered Emissions excl. LULUCF	28	30	32	34	35	32	35	30	35	28
Total GHG excl. LULUCF	28	30	32	34	35	32	35	30	35	28
Total GHG incl. LULUCF	- 212	- 204	- 202	- 199	- 199	- 202	- 199	- 204	- 199	- 206

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	107%	114%	122%	124%	114%	124%	107%	124%	99%
Relative 2000	93%	100%	106%	114%	116%	107%	116%	100%	116%	93%
Relative 2005	88%	94%	100%	107%	109%	100%	109%	94%	109%	87%
Relative 2010	82%	87%	93%	100%	101%	94%	101%	87%	102%	81%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	12	16	18	21	28	28	32	32	36	36
Per-Capita Emissions (tCO2eq/cap)	2.4	1.9	1.7	1.6	1.2	1.2	1.1	0.9	1.0	0.8
Relative 1990	100%	79%	72%	67%	51%	48%	45%	39%	40%	32%
Relative 2000	127%	100%	92%	85%	66%	61%	58%	50%	51%	41%
Relative 2005	139%	109%	100%	93%	71%	66%	63%	54%	55%	44%
Relative 2010	149%	117%	107%	100%	77%	71%	67%	58%	60%	48%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Rough approximation for for policy and measures quantification assumed.

INDC FactSheet

Malawi

Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

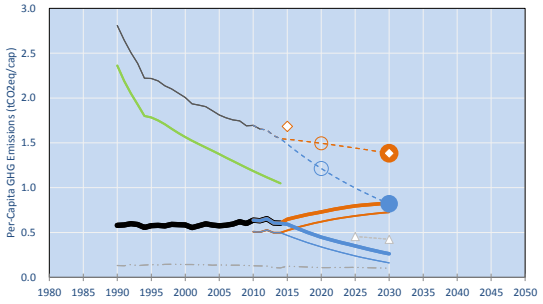
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-15%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		36.8 Mt (Policies and measures)	Share of World Emissions excl. LULUCF (Rank):	0.0% #141	0.0% #142	0.0% #139
		21.8 Mt (Policies and measures)(cond.)	Per-Capita Emissions (tCO2eq/cap)	0.6t #192	0.6t #193	0.5t #194

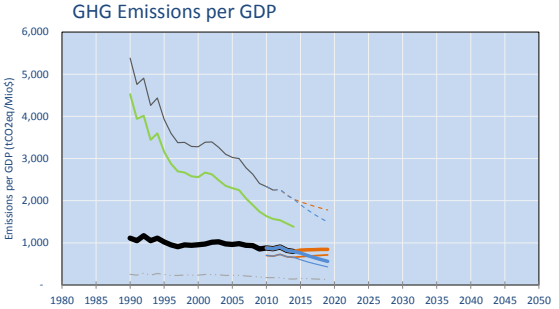
INDC: Estimated reduction between 14,000 and 16,000 Gg CO2eq through policies, programmes and projects conditional on external support. (GWP unclear)

GHG Emissions

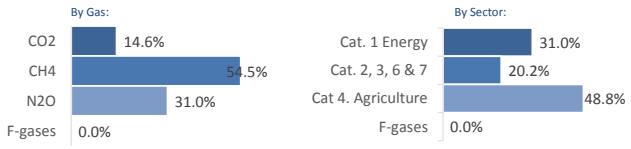
Per-Capita Emissions



GHG Emissions per GDP

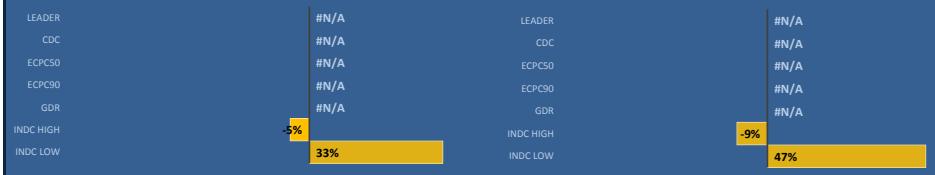


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	22	18	18	18	18	18	18	18	18	18
INDC covered Emissions excl. LULUCF	4	5	6	8	12	7	16	6	19	4
Total GHG excl. LULUCF	5	7	7	9	15	9	18	8	22	7
Total GHG incl. LULUCF	28	24	25	27	32	26	36	26	40	25

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	120%	134%	173%	268%	165%	338%	149%	403%	128%
Relative 2000	83%	100%	112%	144%	223%	137%	282%	124%	336%	107%
Relative 2005	74%	89%	100%	129%	199%	122%	252%	111%	300%	95%
Relative 2010	58%	69%	78%	100%	155%	95%	196%	86%	233%	74%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	9	11	13	15	20	20	23	23	27	27
Per-Capita Emissions (tCO2eq/cap)	0.6	0.6	0.6	0.6	0.7	0.4	0.8	0.4	0.8	0.3
Relative 1990	100%	101%	99%	110%	126%	77%	138%	61%	143%	45%
Relative 2000	99%	100%	98%	109%	125%	77%	136%	60%	141%	45%
Relative 2005	101%	102%	100%	111%	127%	78%	139%	61%	144%	46%
Relative 2010	91%	92%	90%	100%	114%	70%	125%	55%	130%	41%

Data Sources:

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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Maldives

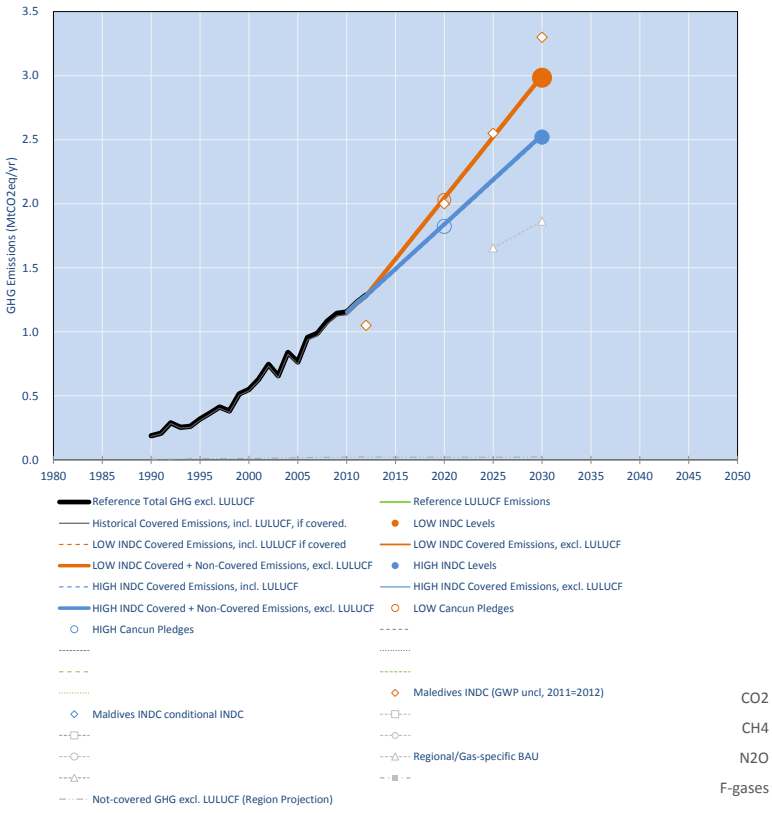
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +83%

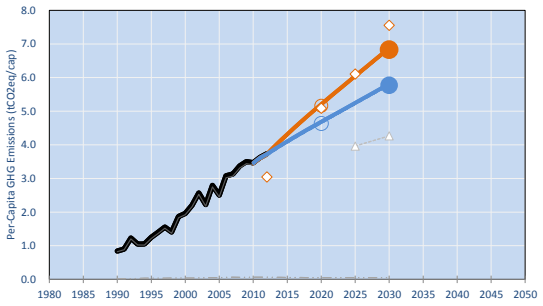
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-10% rel. BAU of 3 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #171	0.0% #167	0.0% #166
		-24% rel. BAU of 3 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.5t #113	5.7t #79	6.4t #72

INDC: 10% GHG emission reduction compared to BAU by 2030Conditional target: up to 24% subject to international support. (GWP SAR)

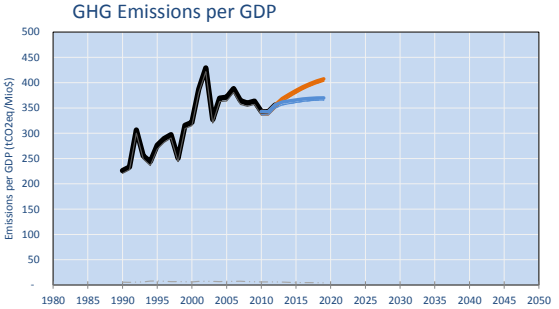
GHG Emissions



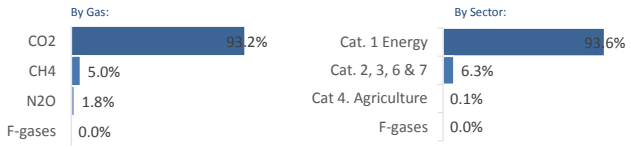
Per-Capita Emissions



GHG Emissions per GDP

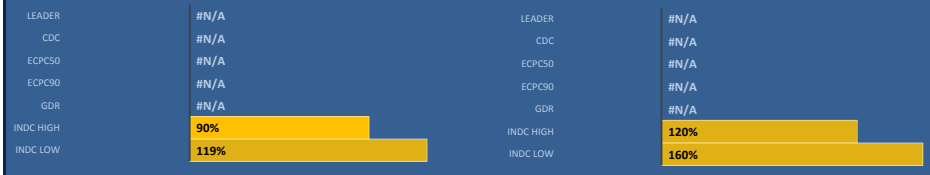


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	1	1	1	2	2	3	2	3	3
Total GHG excl. LULUCF	0	1	1	1	2	2	3	2	3	3
Total GHG incl. LULUCF	0	1	1	1	2	2	3	2	3	3

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	292%	407%	614%	1090%	981%	1345%	1167%	1599%	1352%
Relative 2000	34%	100%	139%	210%	373%	336%	460%	399%	547%	463%
Relative 2005	25%	72%	100%	151%	268%	241%	331%	287%	393%	333%
Relative 2010	16%	48%	66%	100%	178%	160%	219%	190%	260%	220%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	0.8	2.0	2.5	3.5	5.2	4.7	6.1	5.3	6.9	5.8
Relative 1990	100%	233%	298%	412%	619%	557%	719%	624%	817%	691%
Relative 2000	43%	100%	128%	177%	266%	239%	309%	268%	351%	297%
Relative 2005	34%	78%	100%	138%	208%	187%	242%	210%	275%	232%
Relative 2010	24%	56%	72%	100%	150%	135%	175%	151%	198%	168%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

LULUCF target of slowing projected sink reduction not shown.

INDC FactSheet

Mali

Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

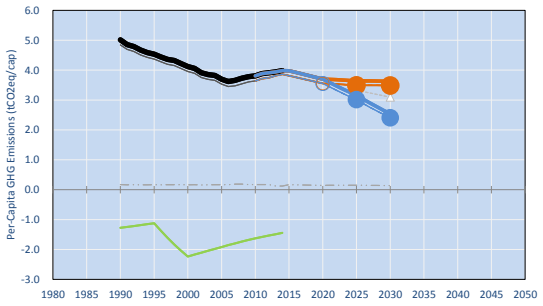
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-19%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
0% rel. BAU of 72.8	0% rel. BAU of 82.7 Mt	0% rel. BAU of 95 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #77	0.1% #67	0.2% #70
0% rel. BAU of 72.8	-14% rel. BAU of 82.7 Mt(cond.)	-31% rel. BAU of 95 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.8t #104	3.4t #117	3.1t #123

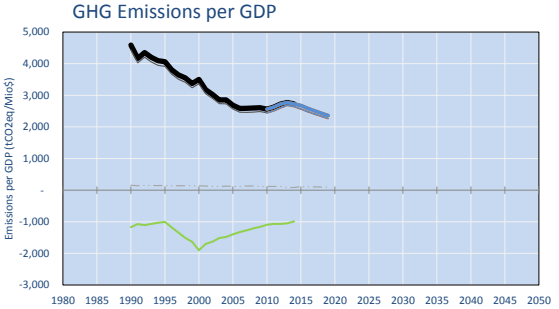
INDC: GHG emission reduction of 29% from agriculture, 31% from energy and 21% from forest compared to BAU levels by 2030. (2006 IPCC Guidelines)

GHG Emissions

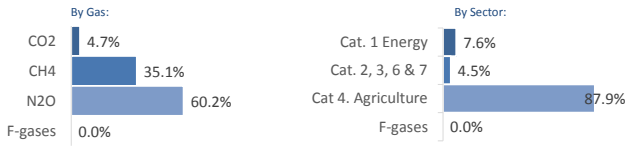
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	41	44	45	55	73	73	83	71	95	66
Total GHG excl. LULUCF	43	46	48	58	76	76	86	75	99	70
Total GHG incl. LULUCF	32	21	23	33	51	51	61	50	74	45

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	107%	112%	136%	178%	178%	203%	176%	233%	164%
Relative 2000	93%	100%	105%	127%	166%	166%	189%	165%	218%	153%
Relative 2005	89%	96%	100%	121%	159%	159%	181%	157%	208%	146%
Relative 2010	74%	79%	82%	100%	131%	131%	149%	130%	172%	120%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	8	11	13	15	20	20	24	24	27	27
Per-Capita Emissions (tCO2eq/cap)	5.0	4.1	3.7	3.8	3.7	3.7	3.6	3.2	3.6	2.5
Relative 1990	100%	82%	74%	76%	74%	74%	73%	63%	72%	51%
Relative 2000	122%	100%	90%	92%	90%	90%	88%	77%	88%	62%
Relative 2005	136%	111%	100%	103%	100%	100%	98%	86%	98%	69%
Relative 2010	132%	108%	97%	100%	97%	97%	95%	83%	95%	67%

Data Sources:

Cat1_CO2	COUNTRY-SPECIFIC USER DATA	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	COUNTRY-SPECIFIC USER DATA	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	COUNTRY-SPECIFIC USER DATA	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	COUNTRY-SPECIFIC USER DATA	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	COUNTRY-SPECIFIC USER DATA	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

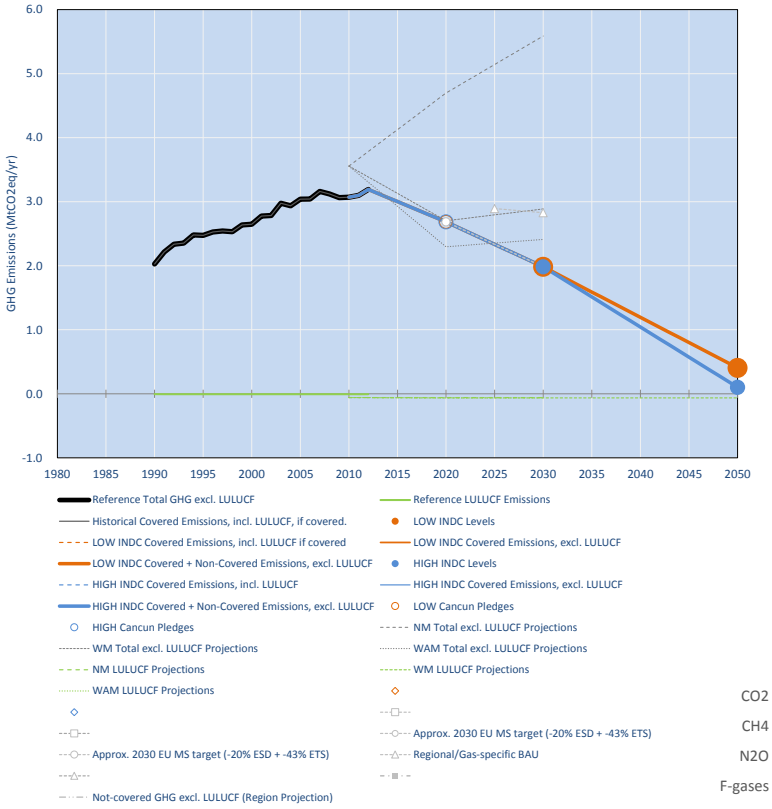
INDC FactSheet

Malta

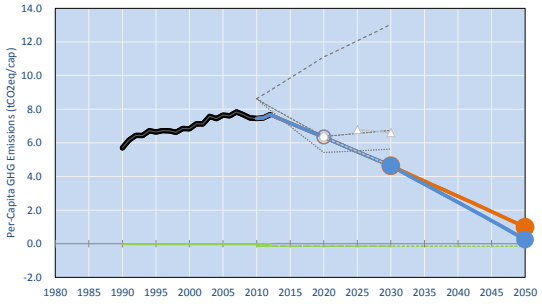
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-38%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.0% #163	0.0% #168	0.0% #170
			Per-Capita Emissions (tCO2eq/cap)	7.4t #63	5.5t #84	4.6t #100

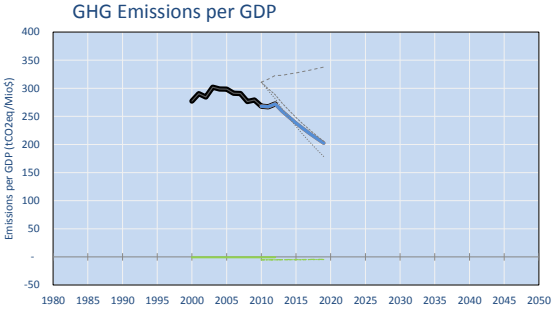
GHG Emissions



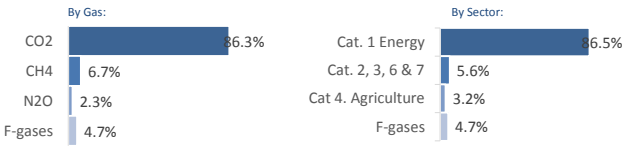
Per-Capita Emissions



GHG Emissions per GDP

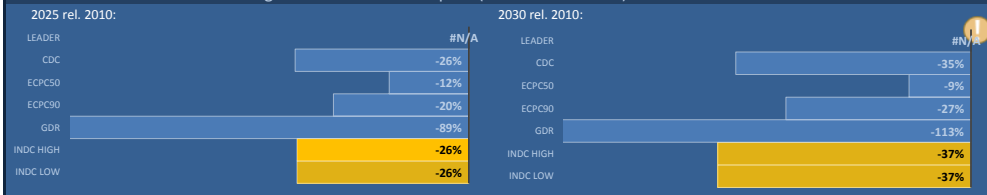


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	2	3	3	3	3	3	2	2	2	2
Total GHG excl. LULUCF	2	3	3	3	3	3	2	2	2	2
Total GHG incl. LULUCF	2	3	3	3	3	3	2	2	2	2

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	131%	150%	151%	132%	132%	115%	115%	98%	98%
Relative 2000	77%	100%	115%	116%	101%	101%	88%	88%	75%	75%
Relative 2005	67%	87%	100%	101%	88%	88%	77%	77%	65%	65%
Relative 2010	66%	86%	99%	100%	87%	87%	76%	76%	65%	65%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	5.7	6.8	7.7	7.4	6.3	6.3	5.5	5.5	4.6	4.6
Relative 1990	100%	120%	134%	131%	111%	111%	96%	96%	81%	81%
Relative 2000	83%	100%	112%	109%	93%	93%	80%	80%	68%	68%
Relative 2005	74%	89%	100%	97%	83%	83%	72%	72%	61%	61%
Relative 2010	77%	92%	103%	100%	85%	85%	74%	74%	62%	62%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
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Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
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Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

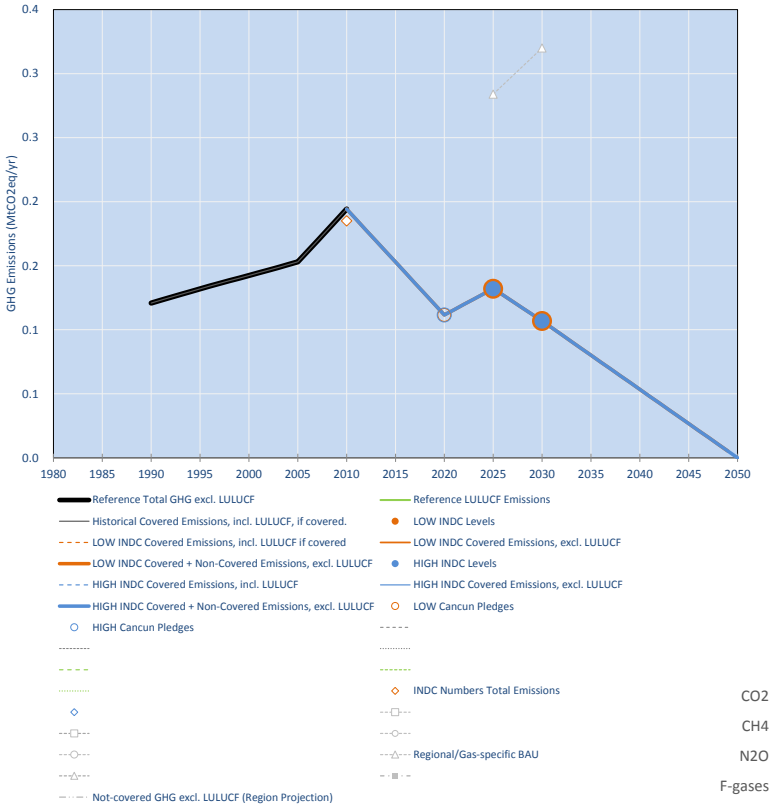
Marshall Islands

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-48%**

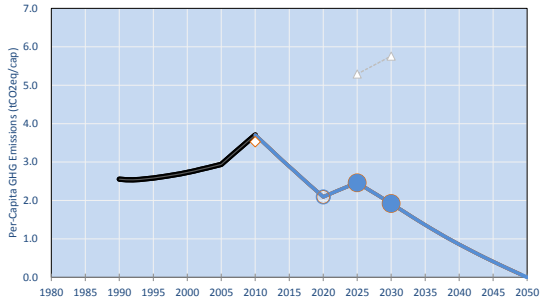
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-40% rel. 2009	-32% rel.2010	-45% rel.2010	Share of World Emissions excl. LULUCF (Rank):	0.0% #188	0.0% #191	0.0% #193
			Per-Capita Emissions (tCO2eq/cap)	3.7t #107	2.5t #137	1.9t #153

INDC: Commits to a quantified economy-wide target to reduce its emissions of GHG to 32% below 2020 levels by 2025Indicative target to reduce its emissions of GHGs to 45% below 2010 levels by 2030. (GWP unclear)

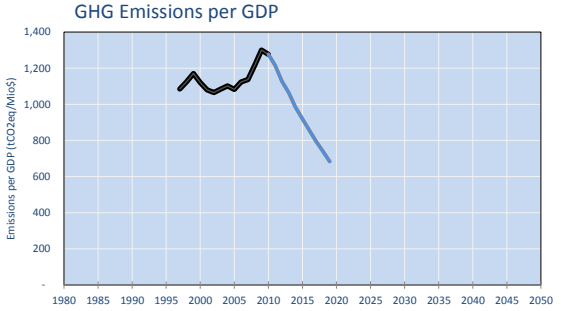
GHG Emissions



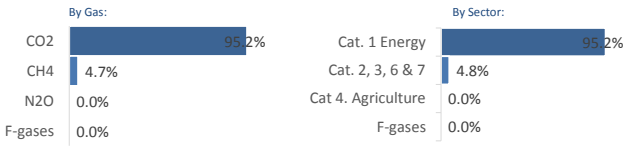
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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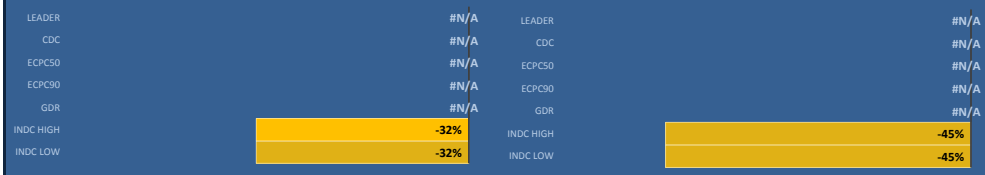

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2010 INDC: -32%; 2030 rel. 2010 INDC: -45%;

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	118%	127%	161%	92%	92%	109%	109%	88%	88%
Relative 2000	85%	100%	107%	136%	78%	78%	93%	93%	75%	75%
Relative 2005	79%	93%	100%	127%	73%	73%	86%	86%	70%	70%
Relative 2010	62%	73%	79%	100%	57%	57%	68%	68%	55%	55%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	2.6	2.7	2.9	3.7	2.1	2.1	2.5	2.5	1.9	1.9
Relative 1990	100%	107%	115%	145%	82%	82%	96%	96%	75%	75%
Relative 2000	94%	100%	108%	136%	77%	77%	90%	90%	70%	70%
Relative 2005	87%	93%	100%	126%	71%	71%	84%	84%	65%	65%
Relative 2010	69%	74%	79%	100%	57%	57%	66%	66%	52%	52%

Data Sources:

Cat1_CO2	COUNTRY-SPECIFIC USER DATA
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
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Cat5_CH4	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Mauritania

Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

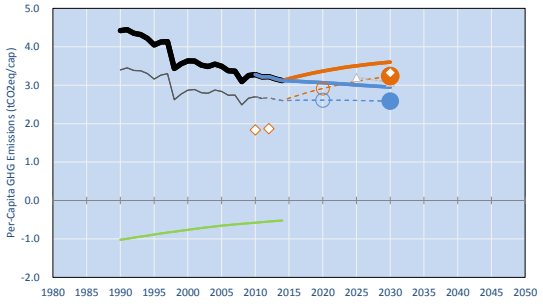
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-0%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-3% rel. BAU of 19 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #138	0.0% #133	0.0% #130
		-22% rel. BAU of 19 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.3t #118	3.3t #122	3.3t #121

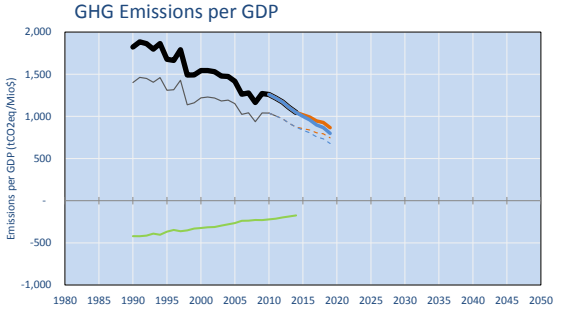
INDC: 22.3% overall emission reduction of which 12% is unconditional and 88% conditional pending international support. (2006 IPCC Guidelines)

GHG Emissions

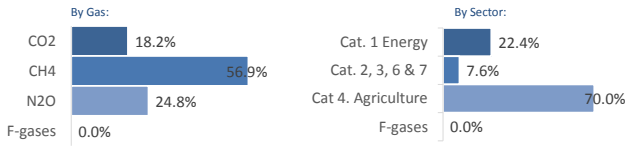
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	2	2	2	2	2	2	2	2	2	2
INDC covered Emissions excl. LULUCF	9	10	11	12	15	14	18	15	20	17
Total GHG excl. LULUCF	9	10	11	12	15	14	18	15	20	17
Total GHG incl. LULUCF	7	8	9	10	13	12	16	13	18	15

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	110%	123%	132%	172%	157%	200%	172%	228%	187%
Relative 2000	91%	100%	112%	119%	156%	142%	182%	156%	207%	170%
Relative 2005	81%	89%	100%	107%	140%	127%	162%	139%	185%	152%
Relative 2010	76%	84%	94%	100%	131%	119%	152%	130%	173%	142%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	3	3	4	5	5	5	5	6	6
Per-Capita Emissions (tCO2eq/cap)	4.4	3.6	3.5	3.3	3.4	3.1	3.5	3.0	3.6	2.9
Relative 1990	100%	82%	79%	74%	76%	69%	79%	68%	81%	67%
Relative 2000	122%	100%	96%	90%	93%	84%	96%	83%	99%	81%
Relative 2005	127%	104%	100%	94%	96%	88%	100%	86%	103%	84%
Relative 2010	135%	111%	107%	100%	103%	93%	107%	92%	110%	90%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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Metric	GWP AR4

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | Uncertain treatment of SLCF

INDC FactSheet

Mauritius

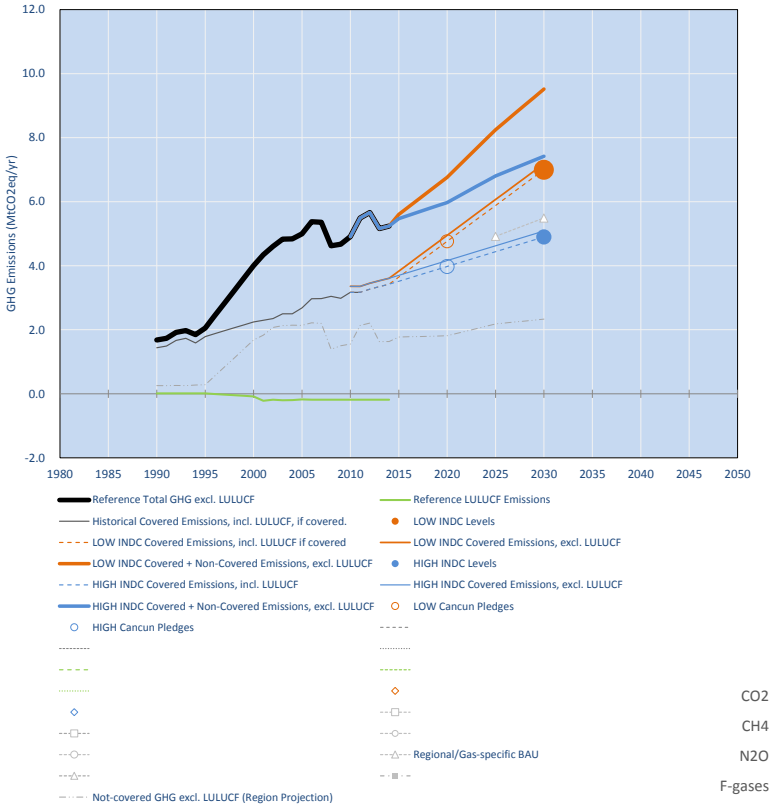
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+64%**

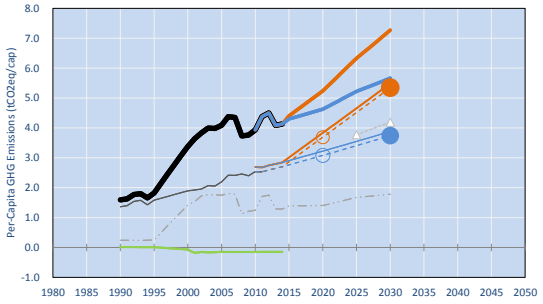
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 7 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #153	0.0% #152	0.0% #151
		-30% rel. BAU of 7 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.9t #100	5.8t #77	6.5t #69

INDC: 30% GHG emission reduction compared to BAU by 2030 conditional to international support. (GWP unclear)

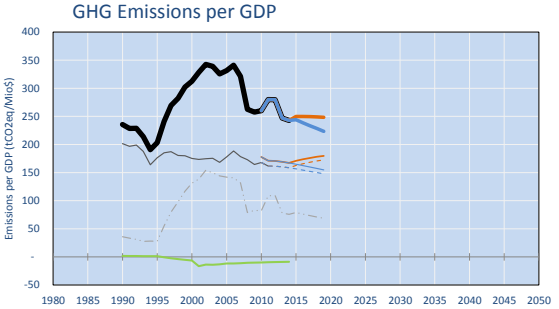
GHG Emissions



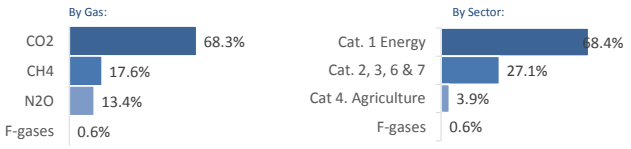
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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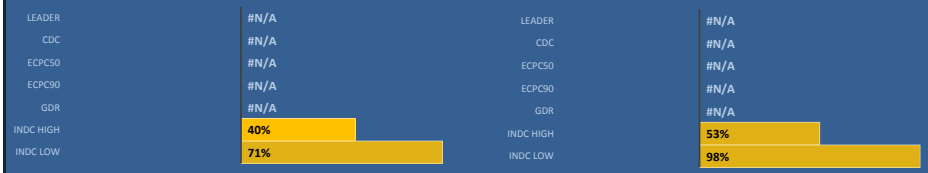

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LEADER	Leader
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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	0 -	0 -	0 -	0 -	0 -	0 -	0 -	0 -	0 -	0
INDC covered Emissions excl. LULUCF	1	2	3	3	5	4	6	5	7	5
Total GHG excl. LULUCF	2	4	5	5	7	6	8	7	10	7
Total GHG incl. LULUCF	2	4	5	5	7	6	8	7	9	7

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	238%	297%	292%	402%	355%	491%	405%	566%	441%
Relative 2000	42%	100%	125%	123%	169%	149%	206%	170%	238%	185%
Relative 2005	34%	80%	100%	98%	135%	120%	165%	136%	191%	148%
Relative 2010	34%	82%	102%	100%	138%	122%	168%	139%	194%	151%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	1.6	3.4	4.1	3.9	5.2	4.6	6.3	5.2	7.3	5.7
Relative 1990	100%	212%	257%	247%	329%	291%	397%	328%	457%	356%
Relative 2000	47%	100%	121%	116%	155%	137%	187%	154%	215%	168%
Relative 2005	39%	83%	100%	96%	128%	113%	155%	128%	178%	139%
Relative 2010	40%	86%	104%	100%	133%	118%	161%	133%	185%	144%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
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Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Mexico

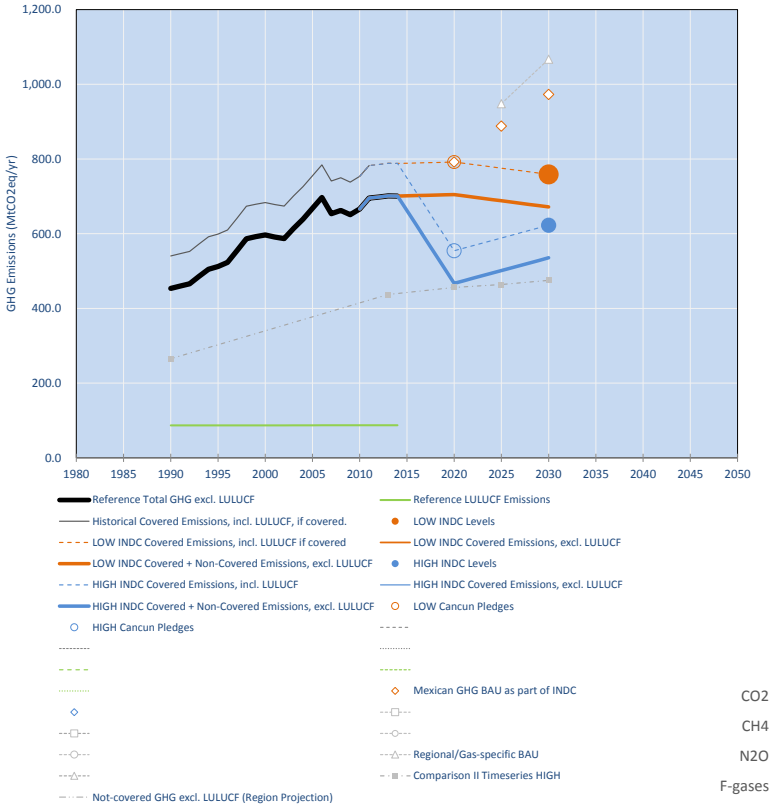
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-27%**

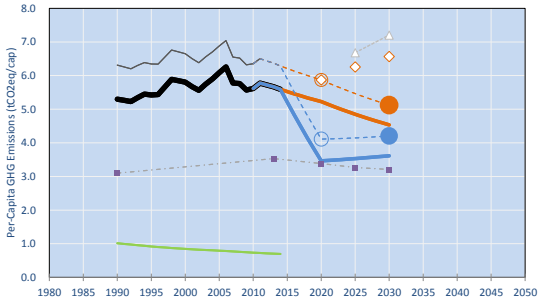
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
0% rel. BAU of 792		-22% rel. BAU of 973 Mt	Share of World Emissions excl. LULUCF (Rank):	1.4% #12	1.1% #17	1.1% #16
-30% rel. BAU of 792		-36% rel. BAU of 973 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	5.6t #84	4.2t #108	4.1t #108

INDC: Reduce GHG emissions by 22-36 per cent below BAU of 973 Mt. Extra reductions for black carbon. . (GWP AR5)

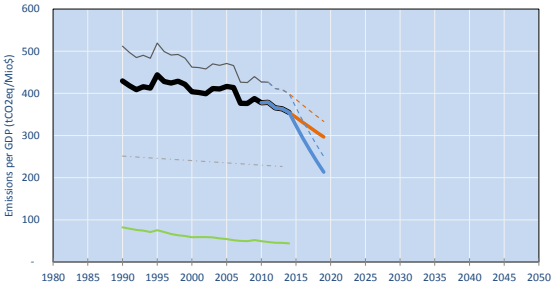
GHG Emissions



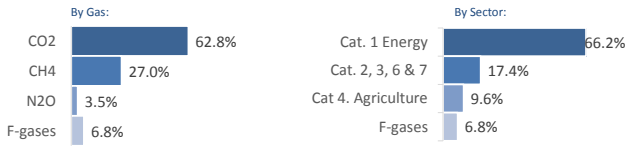
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	87	87	87	87	87	87	87	87	87	87
INDC covered Emissions excl. LULUCF	454	597	668	666	705	467	688	501	672	535
Total GHG excl. LULUCF	454	597	668	666	705	467	688	501	672	535
Total GHG incl. LULUCF	540	684	755	754	792	554	775	589	759	623

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	132%	147%	147%	155%	103%	152%	111%	148%	118%
Relative 2000	76%	100%	112%	112%	118%	78%	115%	84%	113%	90%
Relative 2005	68%	89%	100%	100%	106%	70%	103%	75%	101%	80%
Relative 2010	68%	90%	100%	100%	106%	70%	103%	75%	101%	80%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	86	103	110	119	135	135	142	142	148	148
Per-Capita Emissions (tCO2eq/cap)	5.3	5.8	6.1	5.6	5.2	3.5	4.8	3.5	4.5	3.6
Relative 1990	100%	110%	115%	106%	99%	65%	92%	67%	86%	68%
Relative 2000	91%	100%	105%	97%	90%	60%	84%	61%	78%	62%
Relative 2005	87%	95%	100%	92%	86%	57%	80%	58%	75%	59%
Relative 2010	94%	103%	108%	100%	93%	62%	86%	63%	81%	64%

Data Sources:

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Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | **INDC FactSheet**

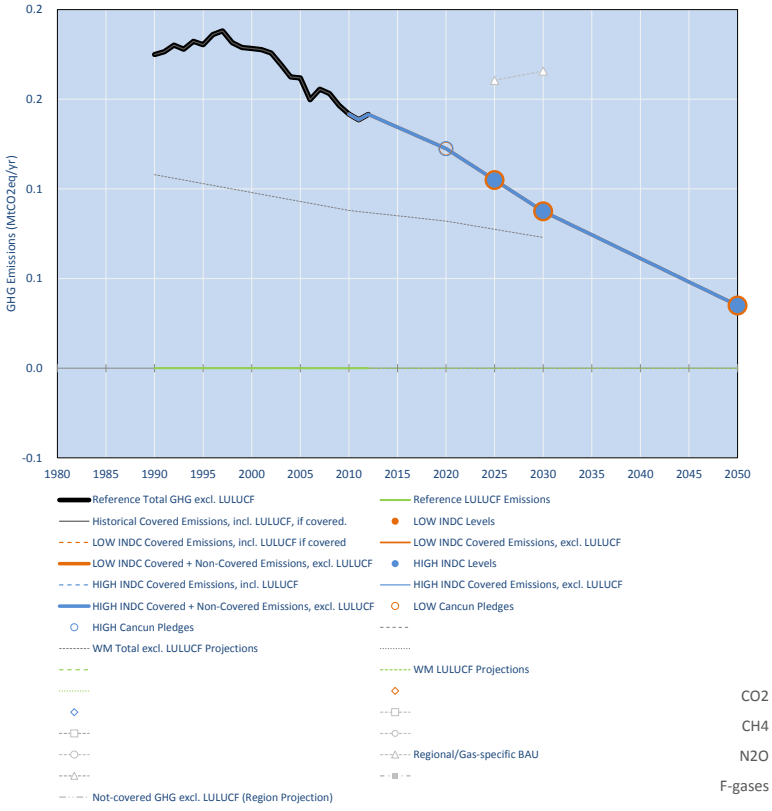
Monaco

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-43%**

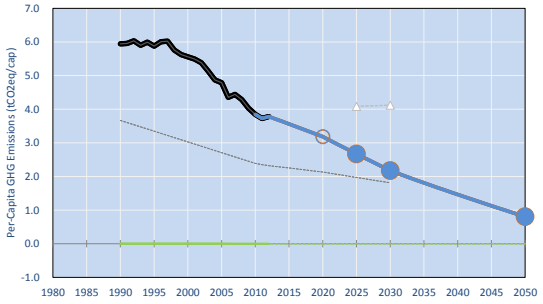
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-30% rel. 1990	-40% rel.1990	-50% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.0% #192	0.0% #194	0.0% #194
			Per-Capita Emissions (tCO2eq/cap)	3.8t #102	2.7t #129	2.2t #145

INDC: GHG emission reduction by 50% by 2030 below 1990 levels. (GWP AR4)

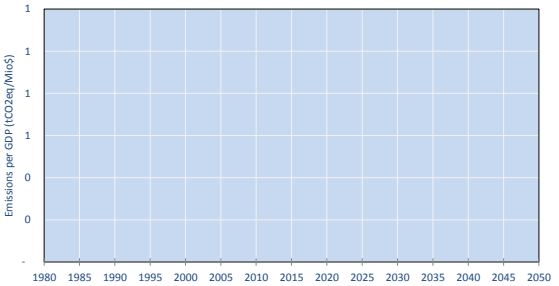
GHG Emissions



Per-Capita Emissions



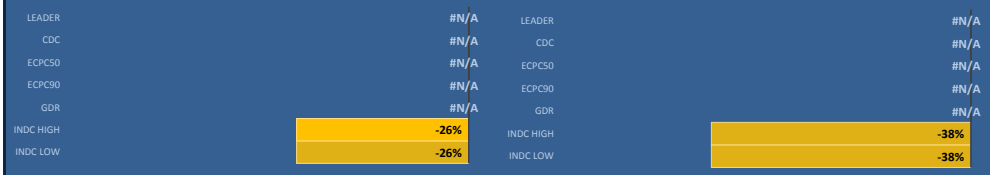
GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



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CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -40%; GDR:-9% | 2030 rel. 1990 INDC: -50%; GDR:-7%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-	0	-	0		
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	102%	93%	81%	70%	70%	60%	60%	50%	50%
Relative 2000	98%	100%	91%	79%	69%	69%	59%	59%	49%	49%
Relative 2005	108%	110%	100%	88%	76%	76%	65%	65%	54%	54%
Relative 2010	123%	126%	114%	100%	86%	86%	74%	74%	62%	62%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	5.9	5.6	4.8	3.8	3.2	3.2	2.7	2.7	2.2	2.2
Relative 1990	100%	94%	81%	65%	54%	54%	45%	45%	37%	37%
Relative 2000	107%	100%	86%	69%	57%	57%	48%	48%	39%	39%
Relative 2005	124%	116%	100%	80%	66%	66%	56%	56%	45%	45%
Relative 2010	155%	145%	125%	100%	83%	83%	69%	69%	57%	57%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Mongolia

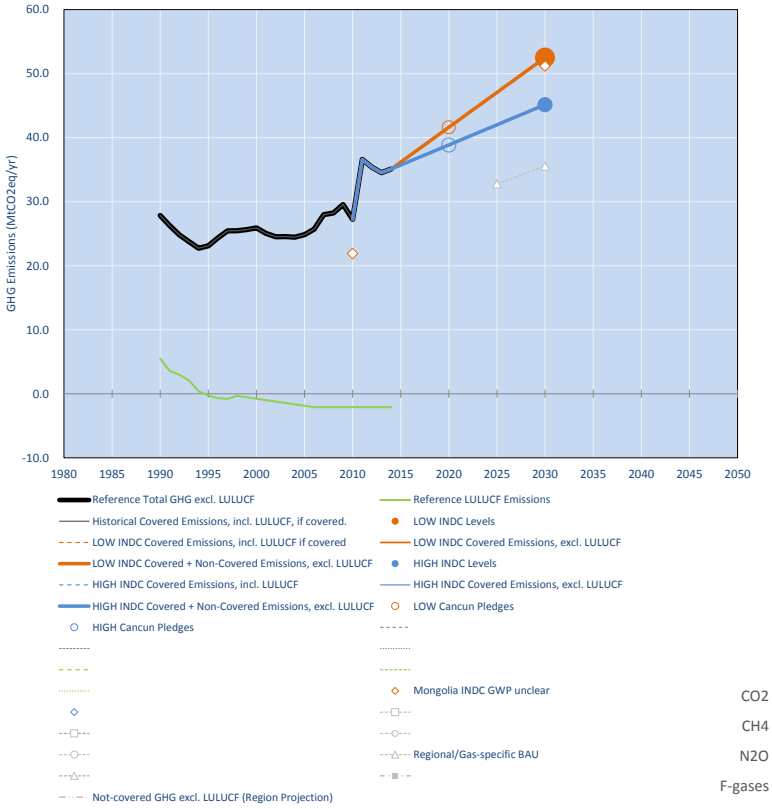
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +38%

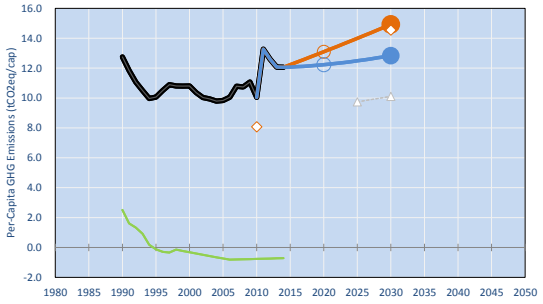
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 51 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #106	0.1% #94	0.1% #94
		-14% rel. BAU of 51 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	10t #40	13.2t #22	13.9t #20

INDC: 14% emission reduction by 2030 compared to BAU. (GWP SAR)

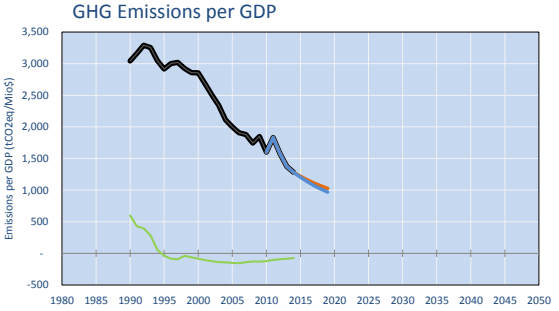
GHG Emissions



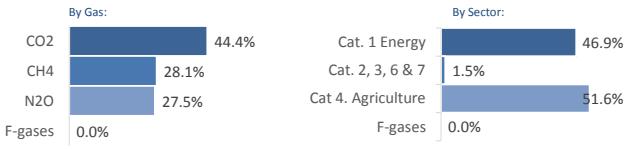
Per-Capita Emissions



GHG Emissions per GDP

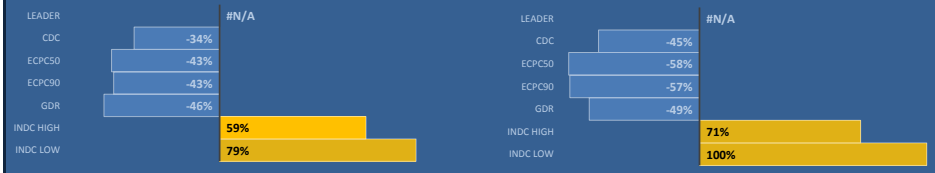


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	28	26	25	27	42	39	47	42	53	45
Total GHG excl. LULUCF	28	26	25	27	42	39	47	42	53	45
Total GHG incl. LULUCF	33	25	23	25	40	37	45	40	50	43

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	93%	89%	98%	149%	140%	169%	151%	189%	162%
Relative 2000	107%	100%	96%	105%	161%	150%	182%	162%	203%	174%
Relative 2005	112%	104%	100%	110%	167%	156%	189%	169%	211%	182%
Relative 2010	102%	95%	91%	100%	153%	143%	173%	154%	193%	166%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	2	3	3	3	3	3	3	4	4
Per-Capita Emissions (tCO2eq/cap)	12.7	10.8	9.8	10.0	13.1	12.2	14.0	12.5	14.9	12.8
Relative 1990	100%	85%	77%	79%	103%	96%	110%	98%	117%	101%
Relative 2000	118%	100%	91%	93%	121%	113%	129%	116%	138%	119%
Relative 2005	130%	110%	100%	102%	133%	124%	142%	127%	152%	130%
Relative 2010	127%	108%	98%	100%	130%	122%	139%	124%	149%	128%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
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Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

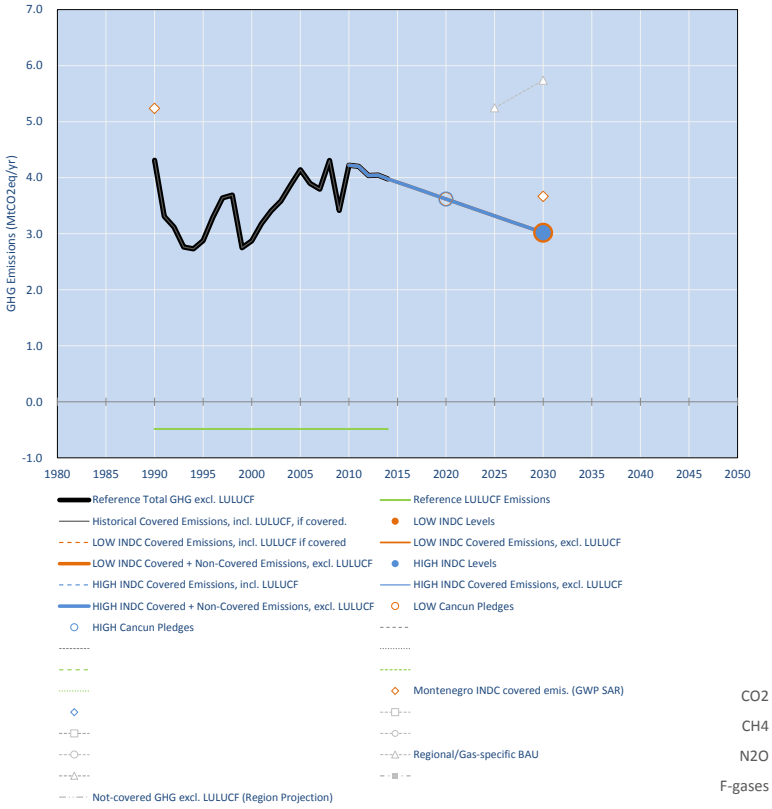
Montenegro

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -28%

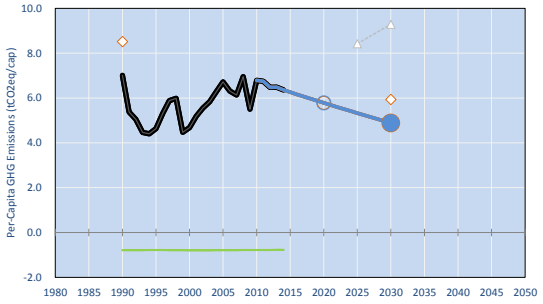
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-30% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.0% #158	0.0% #162	0.0% #164
			Per-Capita Emissions (tCO2eq/cap)	6.8t #72	5.3t #88	4.9t #96

INDC: 30% emission reduction compared to 1990 by 2030. (GWP SAR)

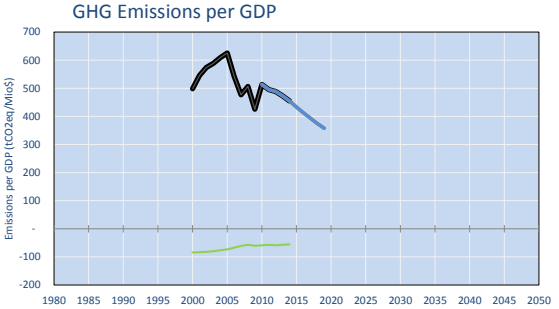
GHG Emissions



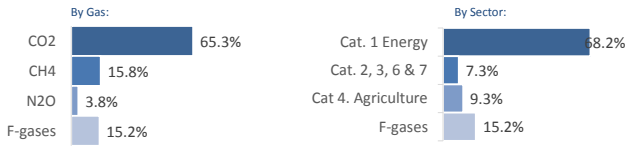
Per-Capita Emissions



GHG Emissions per GDP

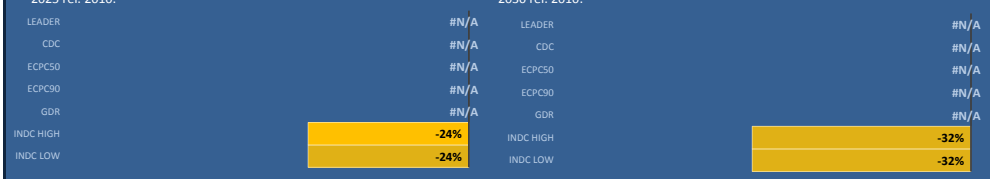


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -26%; GDR:-12% | 2030 rel. 1990 INDC: -34%; GDR:-5%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	4	3	4	4	4	4	3	3	3	3
Total GHG excl. LULUCF	4	3	4	4	4	4	3	3	3	3
Total GHG incl. LULUCF	4	2	4	4	3	3	3	3	3	3

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	67%	96%	98%	84%	84%	77%	77%	70%	70%
Relative 2000	150%	100%	144%	147%	126%	126%	116%	116%	105%	105%
Relative 2005	104%	69%	100%	102%	87%	87%	80%	80%	73%	73%
Relative 2010	102%	68%	98%	100%	86%	86%	79%	79%	71%	71%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	7.0	4.7	6.7	6.8	5.8	5.8	5.3	5.3	4.9	4.9
Relative 1990	100%	67%	96%	97%	82%	82%	76%	76%	70%	70%
Relative 2000	150%	100%	144%	145%	124%	124%	114%	114%	104%	104%
Relative 2005	104%	70%	100%	101%	86%	86%	79%	79%	73%	73%
Relative 2010	103%	69%	99%	100%	85%	85%	78%	78%	72%	72%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
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Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Morocco

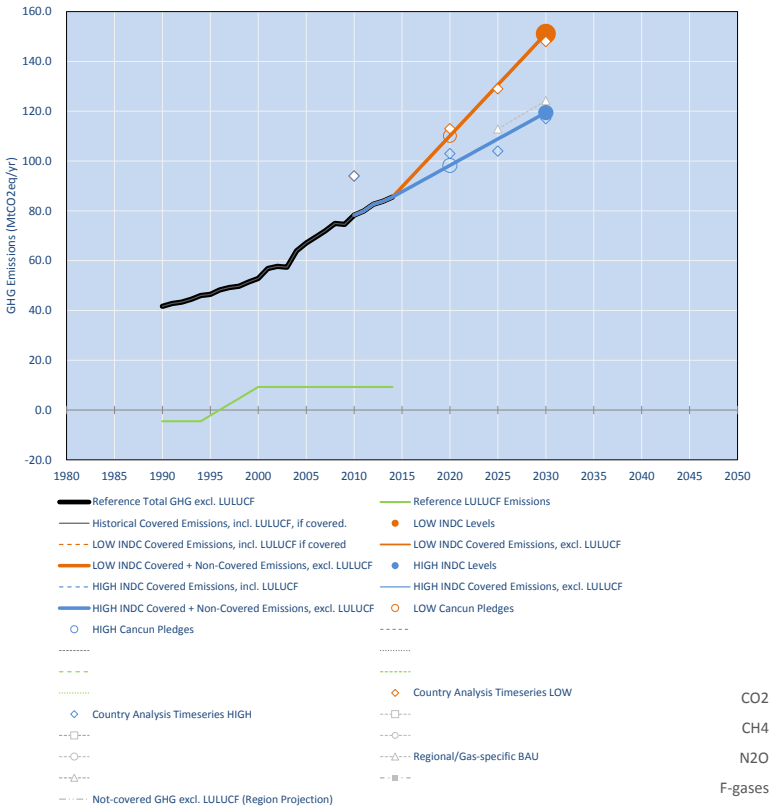
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+39%**

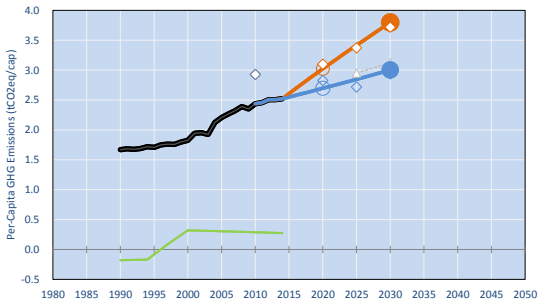
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-13% rel. BAU of 171 Mt -32% rel. BAU of 171 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.2% #63	0.2% #55	0.2% #51
			Per-Capita Emissions (tCO2eq/cap)	2.4t #137	3.1t #124	3.4t #119

INDC: Unconditionally reduce 13% of GHG emissions by 2030 compared to BAU for 2030; increased to 32% under certain conditions (additional financial support and enhanced technology). (GWP SAR)

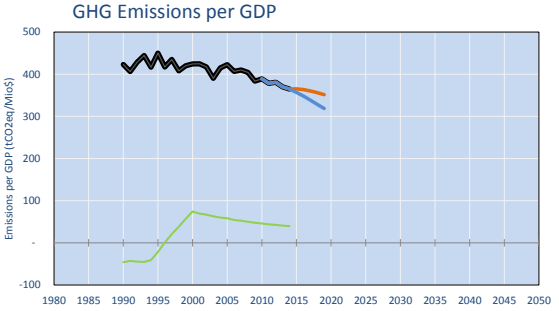
GHG Emissions



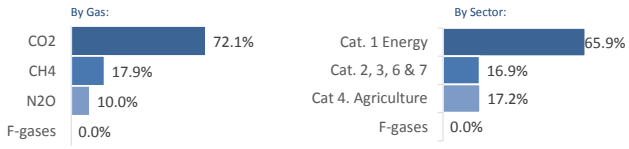
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	42	53	67	78	110	98	131	109	151	119
Total GHG excl. LULUCF	42	53	67	78	110	98	131	109	151	119
Total GHG incl. LULUCF	37	62	76	88	119	108	140	118	160	129

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	127%	161%	188%	264%	236%	314%	261%	363%	287%
Relative 2000	79%	100%	127%	148%	208%	186%	247%	206%	286%	226%
Relative 2005	62%	79%	100%	117%	164%	147%	195%	162%	225%	178%
Relative 2010	53%	67%	86%	100%	141%	126%	167%	139%	193%	153%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	25	29	30	32	36	36	38	38	40	40
Per-Capita Emissions (tCO2eq/cap)	1.7	1.8	2.2	2.4	3.0	2.7	3.4	2.8	3.8	3.0
Relative 1990	100%	109%	132%	146%	181%	161%	205%	170%	228%	180%
Relative 2000	92%	100%	121%	134%	166%	148%	187%	156%	208%	165%
Relative 2005	76%	83%	100%	110%	137%	122%	155%	129%	172%	136%
Relative 2010	68%	75%	91%	100%	124%	111%	140%	117%	156%	123%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Uncertain data. Policies and measures. Reference case assumed.

INDC FactSheet

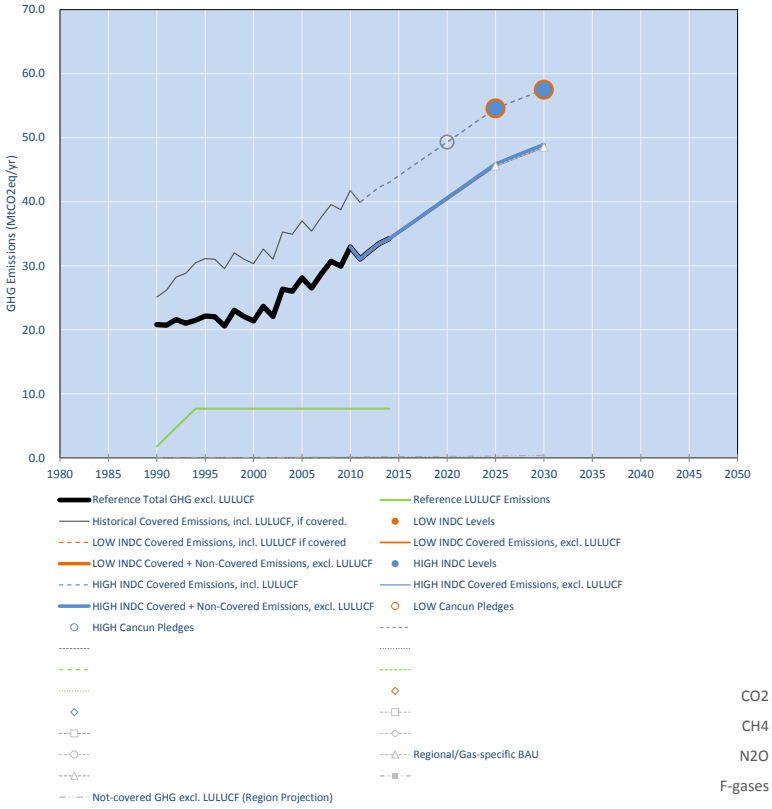
Mozambique

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-13%**

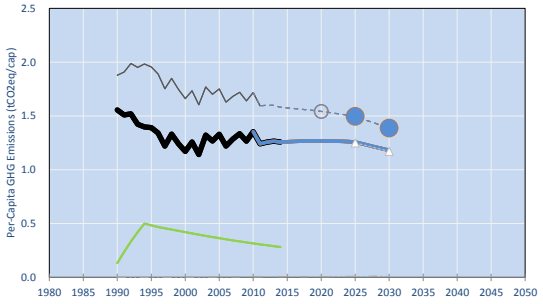
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		57.5 Mt (Policies and Measures)	Share of World Emissions excl. LULUCF (Rank):	0.1% #95	0.1% #93	0.1% #92
			Per-Capita Emissions (tCO2eq/cap)	1.4t #172	1.3t #178	1.2t #179

INDC: Based on policy actions and programmes, the country estimates the total reduction of about 76.5 MtCO2eq by 2030 conditional on international support. (GWP SAR)

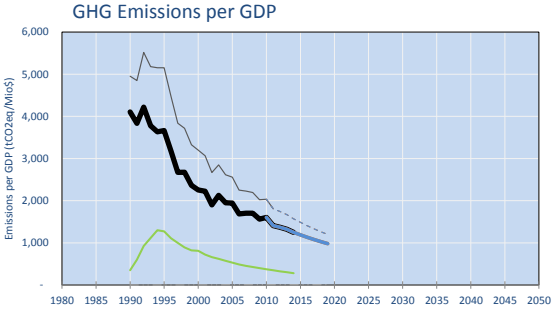
GHG Emissions



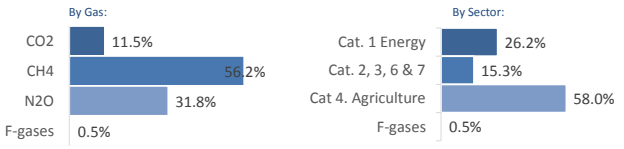
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	32%	39%
INDC LOW	32%	39%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	4	9	9	9	9	9	9	9	9	9
INDC covered Emissions excl. LULUCF	21	21	28	33	40	40	46	46	49	49
Total GHG excl. LULUCF	21	21	28	33	41	41	46	46	49	49
Total GHG incl. LULUCF	23	29	36	41	48	48	54	54	57	57

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	103%	135%	158%	195%	195%	221%	221%	235%	235%
Relative 2000	97%	100%	132%	154%	190%	190%	215%	215%	229%	229%
Relative 2005	74%	76%	100%	117%	144%	144%	163%	163%	174%	174%
Relative 2010	63%	65%	85%	100%	123%	123%	139%	139%	149%	149%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	13	18	21	24	32	32	36	36	41	41
Per-Capita Emissions (tCO2eq/cap)	1.6	1.2	1.3	1.4	1.3	1.3	1.3	1.3	1.2	1.2
Relative 1990	100%	75%	86%	87%	82%	82%	81%	81%	76%	76%
Relative 2000	133%	100%	114%	116%	108%	108%	108%	108%	101%	101%
Relative 2005	117%	88%	100%	102%	95%	95%	95%	95%	89%	89%
Relative 2010	115%	86%	98%	100%	94%	94%	93%	93%	87%	87%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary Version: 16 Nov. 2015

INDC FactSheet

Myanmar

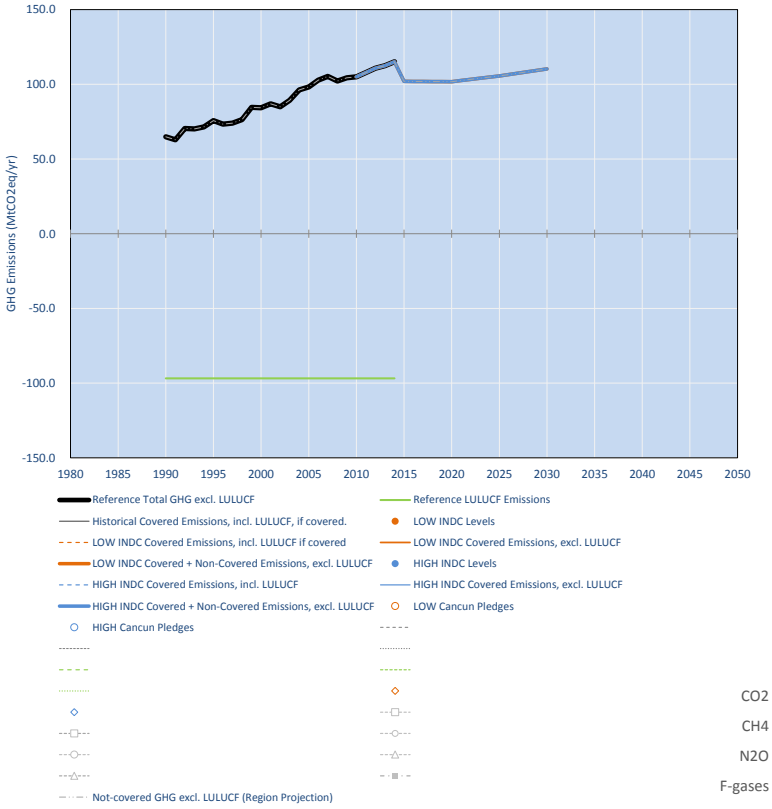
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-10%**

Cancun 2020 | INDC 2025 | INDC 2030

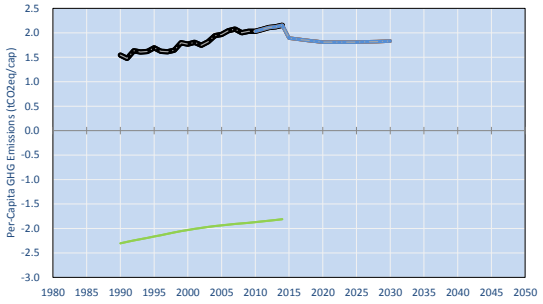
	2010 World Rank	2025 World Rank	2030 World Rank
Share of World Emissions excl. LULUCF (Rank):	0.2% #51	0.2% #60	0.2% #57
Per-Capita Emissions (tCO2eq/cap)	2t #149	1.8t #160	1.8t #161

INDC: Will undertake mitigation actions in line with sustainable development needs, conditional on availability of international support. (N/A (no quantitative emission target))

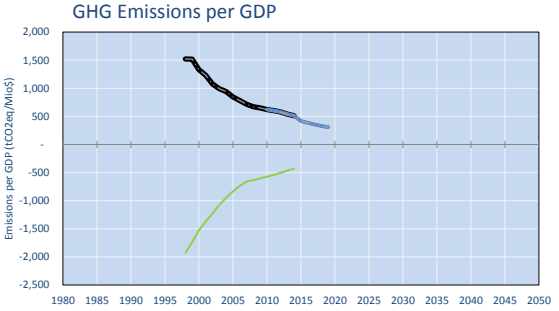
GHG Emissions



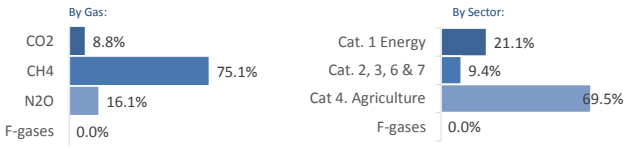
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	8%	65%
INDC LOW	8%	65%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	-	-	-	-	-	-	-	-	-	-
Total GHG excl. LULUCF	65	84	98	105	102	102	106	106	110	110
Total GHG incl. LULUCF	- 32	- 12	1	8	5	5	9	9	13	13

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	130%	151%	162%	157%	157%	163%	163%	170%	170%
Relative 2000	77%	100%	117%	125%	121%	121%	125%	125%	131%	131%
Relative 2005	66%	86%	100%	107%	104%	104%	108%	108%	112%	112%
Relative 2010	62%	80%	94%	100%	97%	97%	101%	101%	105%	105%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	42	48	50	52	56	56	58	58	60	60
Per-Capita Emissions (tCO2eq/cap)	1.5	1.8	2.0	2.0	1.8	1.8	1.8	1.8	1.8	1.8
Relative 1990	100%	115%	127%	131%	117%	117%	117%	117%	119%	119%
Relative 2000	87%	100%	111%	115%	102%	102%	102%	102%	103%	103%
Relative 2005	79%	90%	100%	103%	92%	92%	92%	92%	93%	93%
Relative 2010	76%	87%	97%	100%	89%	89%	89%	89%	90%	90%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5AtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Note, large AFOLU sector pledge of -18.5 Mt by 2030 below BAU (14 Mt) not included.

INDC FactSheet

Namibia

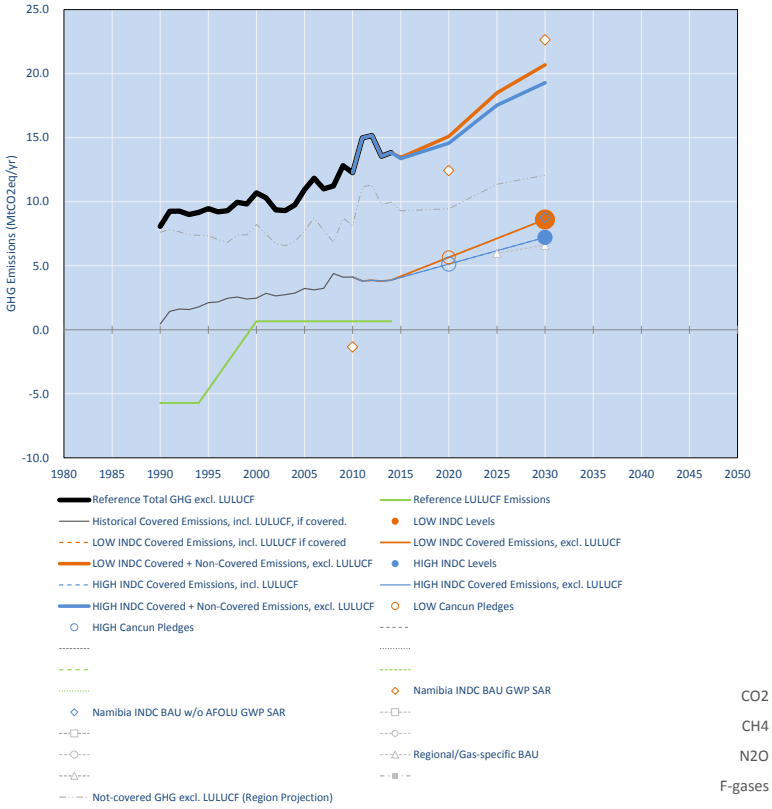
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+9%**

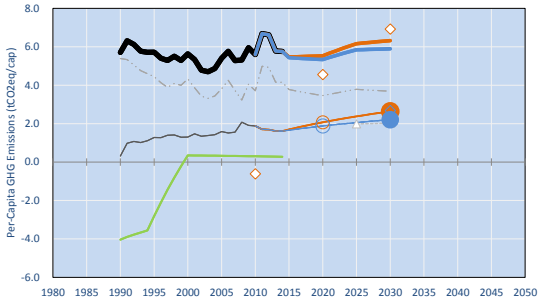
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-2% rel. BAU of 9 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #133	0.0% #129	0.0% #127
		-18% rel. BAU of 9 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	5.6t #85	6t #76	6.1t #76

INDC: Aims at a reduction of about 89% of GHG emissions by 2030 compared to BAU. (GWP SAR)

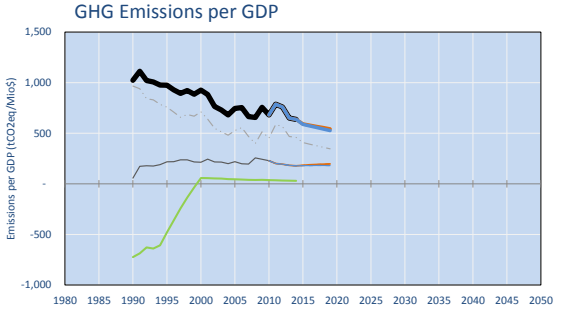
GHG Emissions



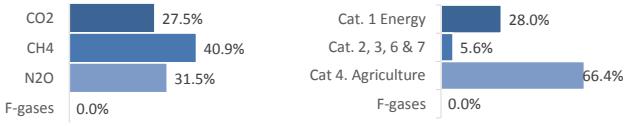
Per-Capita Emissions



GHG Emissions per GDP

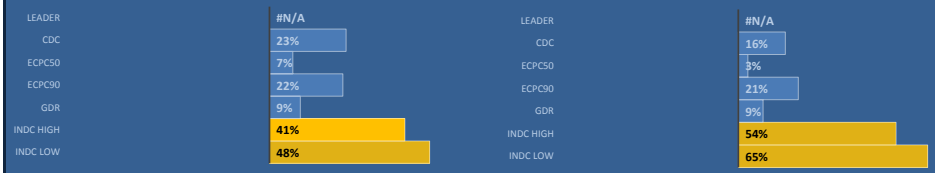


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	2	3	4	6	5	7	6	9	7
Total GHG excl. LULUCF	8	11	11	12	15	15	19	18	21	19
Total GHG incl. LULUCF	2	11	12	13	16	15	19	18	21	20

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	132%	136%	152%	187%	180%	229%	217%	256%	239%
Relative 2000	76%	100%	102%	115%	141%	136%	173%	164%	194%	180%
Relative 2005	74%	98%	100%	112%	138%	133%	169%	160%	189%	176%
Relative 2010	66%	87%	89%	100%	123%	119%	151%	143%	169%	157%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	2	2	2	3	3	3	3	3	3
Per-Capita Emissions (tCO2eq/cap)	5.7	5.6	5.4	5.6	5.5	5.3	6.2	5.8	6.3	5.9
Relative 1990	100%	99%	95%	98%	97%	94%	108%	102%	111%	103%
Relative 2000	101%	100%	96%	99%	98%	95%	109%	104%	112%	105%
Relative 2005	106%	104%	100%	104%	102%	99%	114%	108%	117%	109%
Relative 2010	102%	101%	97%	100%	99%	95%	110%	104%	113%	105%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
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Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

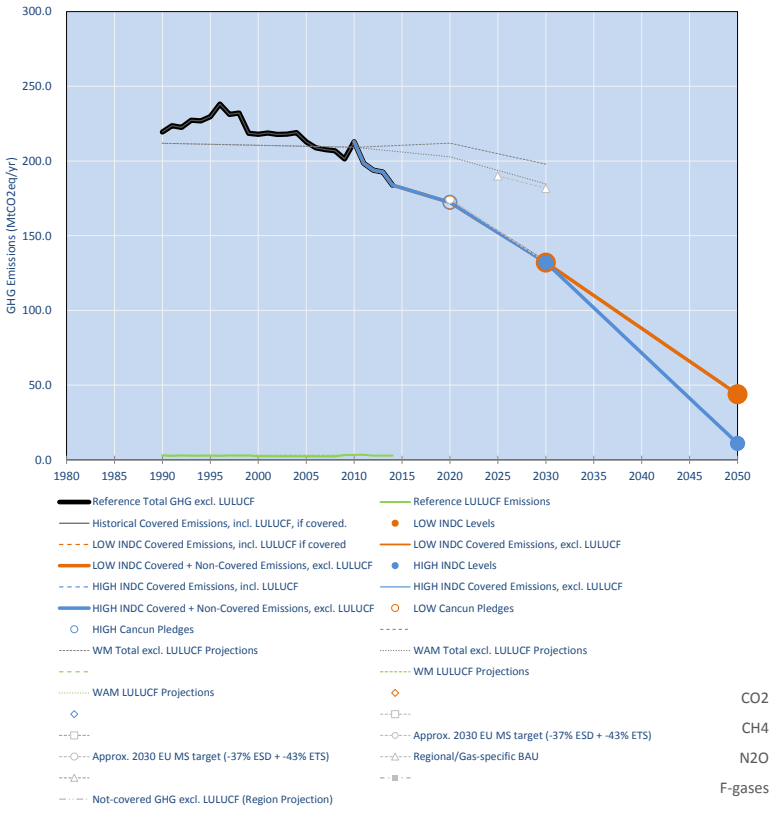
INDC FactSheet

Netherlands

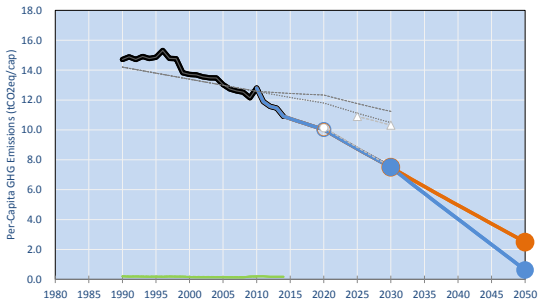
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -41%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.5% #37	0.3% #47	0.2% #52
			Per-Capita Emissions (tCO2eq/cap)	12.8t #24	8.7t #46	7.5t #55

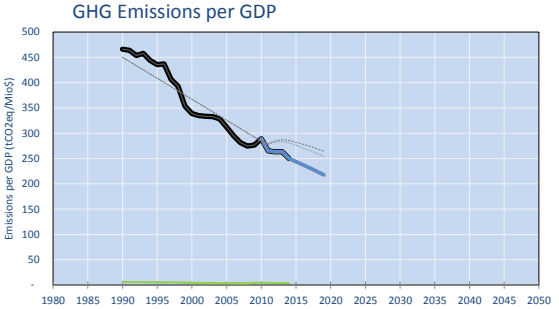
GHG Emissions



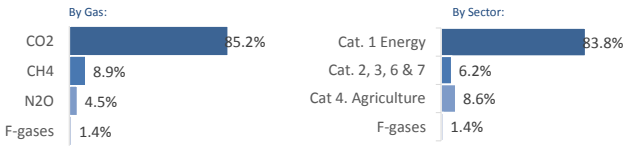
Per-Capita Emissions



GHG Emissions per GDP

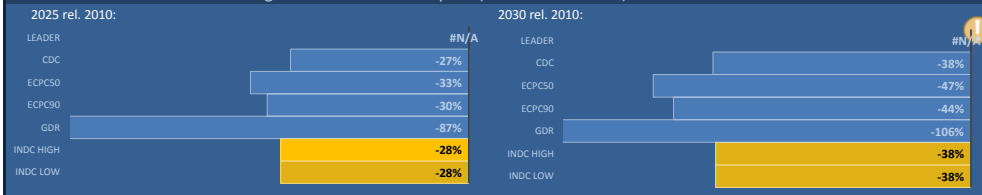


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					2	2	0			
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	219	218	213	213	172	172	152	152	132	132
Total GHG excl. LULUCF	219	218	213	213	172	172	152	152	132	132
Total GHG incl. LULUCF	222	220	215	216	172	172	155	155	135	135

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	99%	97%	97%	79%	79%	69%	69%	60%	60%
Relative 2000	101%	100%	98%	98%	79%	79%	70%	70%	61%	61%
Relative 2005	103%	102%	100%	100%	81%	81%	72%	72%	62%	62%
Relative 2010	103%	102%	100%	100%	81%	81%	71%	71%	62%	62%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	15	16	16	17	17	17	17	17	18	18
Per-Capita Emissions (tCO2eq/cap)	14.7	13.7	13.0	12.8	10.0	10.0	8.7	8.7	7.5	7.5
Relative 1990	100%	93%	89%	87%	68%	68%	59%	59%	51%	51%
Relative 2000	107%	100%	95%	93%	73%	73%	64%	64%	55%	55%
Relative 2005	113%	105%	100%	98%	77%	77%	67%	67%	58%	58%
Relative 2010	115%	107%	102%	100%	78%	78%	68%	68%	59%	59%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
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Cat5_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

New Zealand

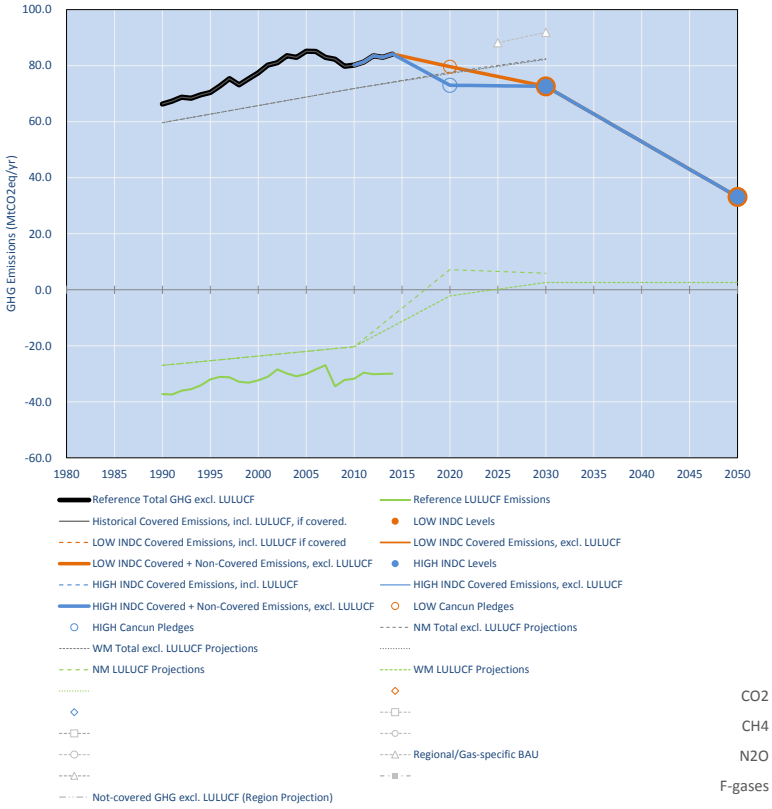
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-22%**

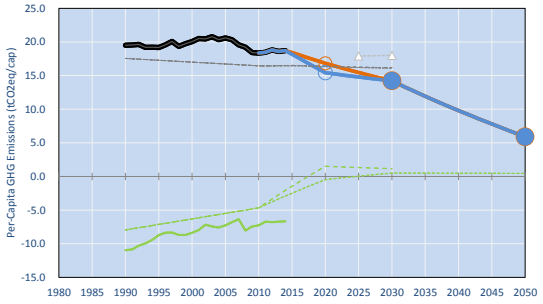
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-10% rel. 1990		-30% rel.2005	Share of World Emissions excl. LULUCF (Rank):	0.2% #60	0.1% #71	0.1% #76
-20% rel. 1990		-30% rel.2005	Per-Capita Emissions (tCO2eq/cap)	18.4t #14	15.1t #18	14.2t #19

INDC: Commits to reduce GHG emissions to 30% below 2005 levels by 2030. Remains provisional pending confirmation of approaches to be taken in accounting for land sector and confirmation of access to carbon markets. (GWP AR4)

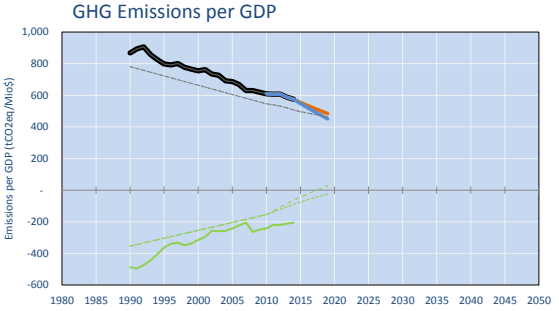
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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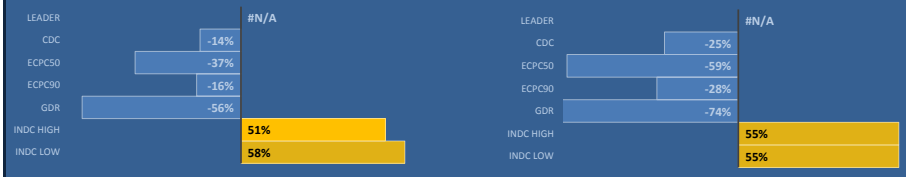

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2005 INDC: 38 to 32%; CDC:-25%; ECPC50:-45%; ECPC90:-26%; GDR:-61%

2030 rel. 2005 INDC: 36%; CDC:-34%; ECPC50:-64%; ECPC90:-37%; GDR:-77%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 20	- 20	- 13	- 13	- 13	- 13
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	66	77	85	80	80	73	76	73	73	73
Total GHG excl. LULUCF	66	77	85	80	80	73	76	73	73	73
Total GHG incl. LULUCF	29	45	55	48	77	71	76	73	75	75

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	117%	128%	121%	120%	110%	115%	110%	110%	110%
Relative 2000	86%	100%	110%	104%	103%	94%	98%	94%	94%	94%
Relative 2005	78%	91%	100%	94%	94%	86%	89%	86%	85%	85%
Relative 2010	83%	97%	106%	100%	99%	91%	95%	91%	91%	91%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	4	4	4	5	5	5	5	5	5
Per-Capita Emissions (tCO2eq/cap)	19.5	20.1	20.6	18.4	16.8	15.4	15.5	14.8	14.2	14.2
Relative 1990	100%	103%	106%	94%	86%	79%	79%	76%	73%	73%
Relative 2000	97%	100%	103%	91%	84%	77%	77%	74%	71%	71%
Relative 2005	95%	97%	100%	89%	82%	75%	75%	72%	69%	69%
Relative 2010	106%	109%	112%	100%	92%	84%	84%	81%	78%	78%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Metric	GWP AR4

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Niger

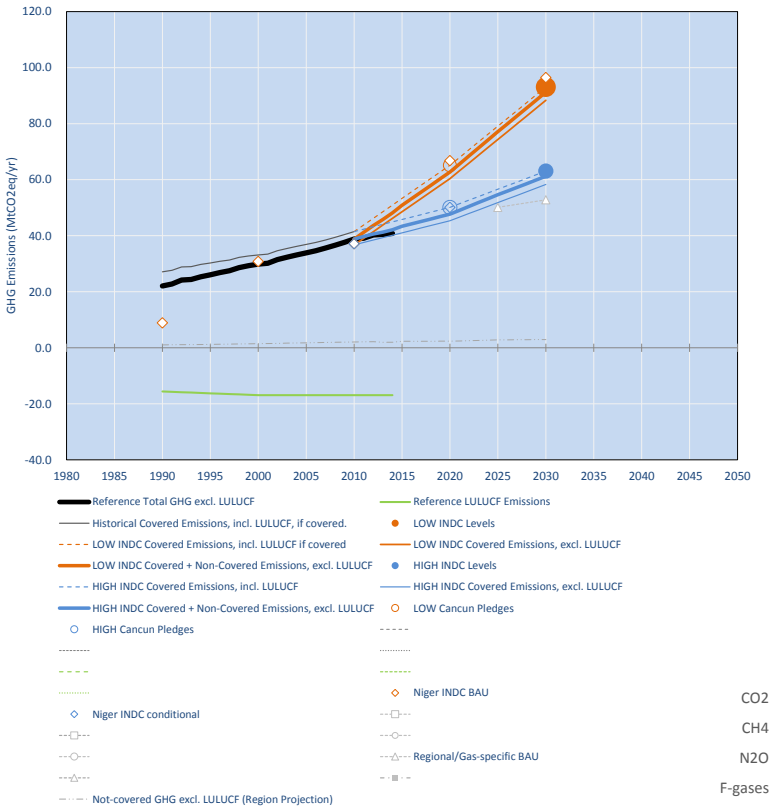
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-11%**

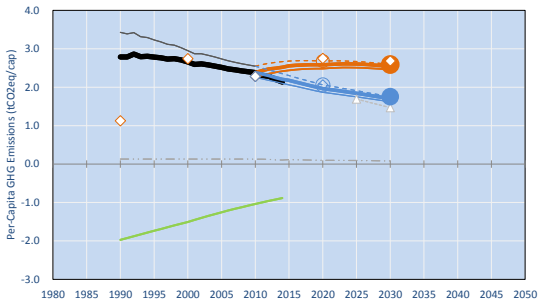
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-3% rel. BAU of 66.8		-3% rel. BAU of 96 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #88	0.1% #78	0.1% #74
-25% rel. BAU of 66.8(cond.)		-35% rel. BAU of 96 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.4t #138	2.2t #146	2.1t #147

INDC: Reduction of GHG emissions of 3.5% compared to BAU by 2030 for energy sector and LULUCF Conditional target: reduction of 34.6% subject to international support. (2006 IPCC Guidelines)

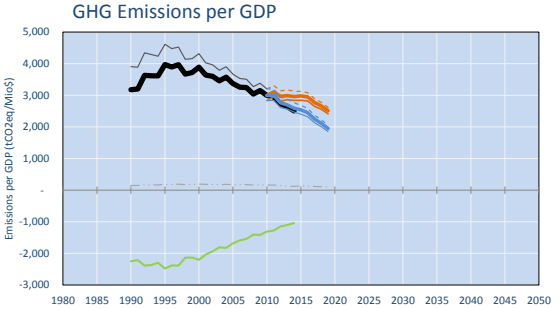
GHG Emissions



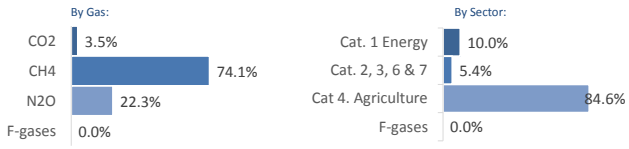
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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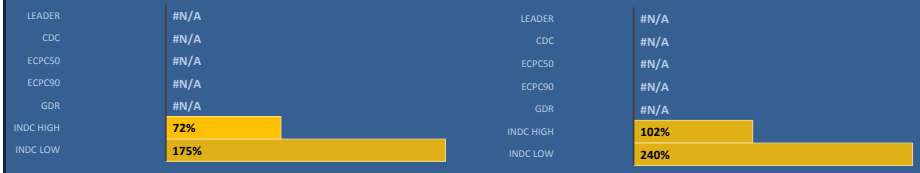

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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	6	5	5	5	5	5	5	5	5	5
INDC covered Emissions excl. LULUCF	21	28	32	37	60	45	74	52	88	58
Total GHG excl. LULUCF	22	30	34	39	63	48	77	55	91	61
Total GHG incl. LULUCF	6	13	17	22	46	31	60	38	74	44

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	135%	154%	176%	284%	216%	350%	248%	414%	278%
Relative 2000	74%	100%	114%	130%	210%	160%	258%	183%	306%	205%
Relative 2005	65%	88%	100%	114%	185%	141%	228%	161%	269%	181%
Relative 2010	57%	77%	87%	100%	162%	123%	199%	141%	235%	158%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	8	11	13	16	24	24	30	30	36	36
Per-Capita Emissions (tCO2eq/cap)	2.8	2.7	2.5	2.4	2.6	2.0	2.6	1.8	2.5	1.7
Relative 1990	100%	95%	90%	85%	93%	70%	93%	66%	91%	61%
Relative 2000	105%	100%	95%	90%	97%	74%	98%	69%	95%	64%
Relative 2005	111%	106%	100%	95%	103%	78%	104%	73%	101%	68%
Relative 2010	117%	112%	106%	100%	108%	82%	109%	77%	107%	71%

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Cat4_CH4	COUNTRY-SPECIFIC USER DATA
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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

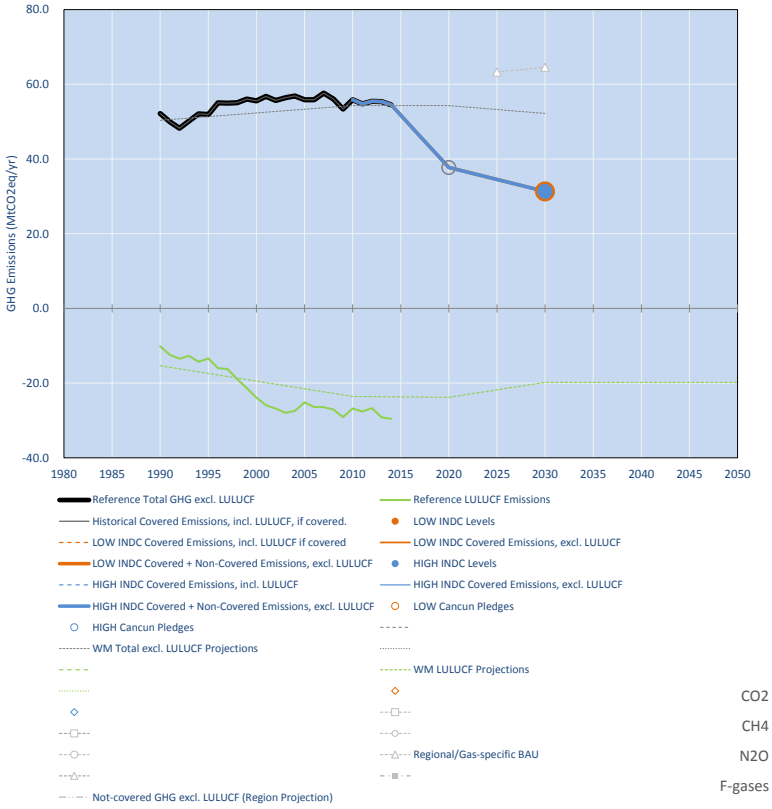
Norway

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -54%

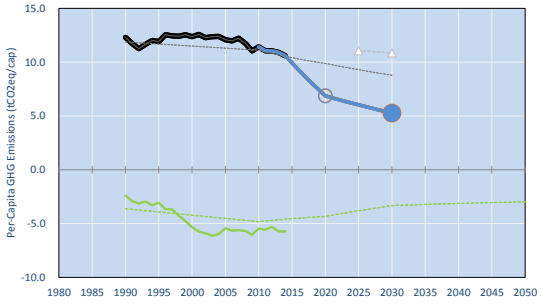
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-40% rel. 1990		-40% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.1% #79	0.1% #108	0.1% #113
			Per-Capita Emissions (tCO2eq/cap)	11.4t #30	6t #75	5.3t #87

INDC: At least 40% reduction of GHG emissions by 2030 compared to 1990. (GWP AR4)

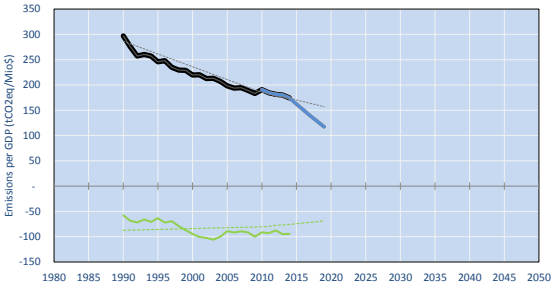
GHG Emissions



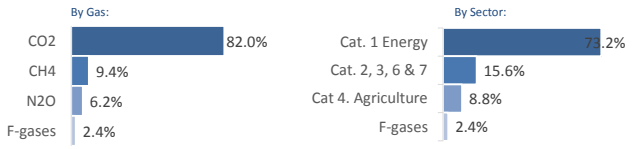
Per-Capita Emissions



GHG Emissions per GDP

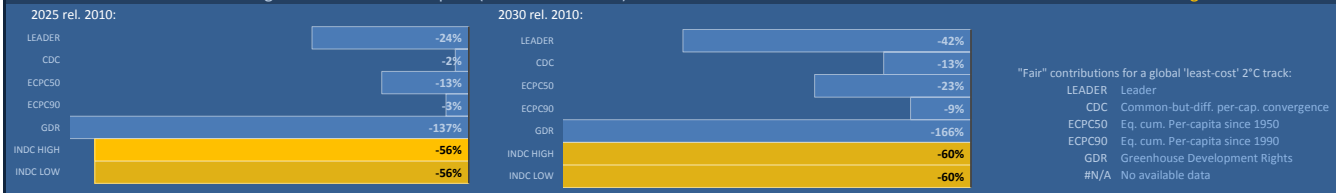


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -70%; Leader:-47%; CDC:-32%; ECPC50:-40%; ECPC90:-33%; GDR:-126% — 2030 rel. 1990 INDC: -73%; Leader:-60%; CDC:-40%; ECPC50:-47%; ECPC90:-37%; GDR:-145%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 6	- 6				
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	52	56	56	56	38	38	35	35	31	31
Total GHG excl. LULUCF	52	56	56	56	38	38	35	35	31	31
Total GHG incl. LULUCF	42	32	31	29	14	14	13	13	12	12

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	106%	107%	107%	72%	72%	66%	66%	60%	60%
Relative 2000	94%	100%	101%	101%	68%	68%	62%	62%	56%	56%
Relative 2005	93%	99%	100%	100%	68%	68%	62%	62%	56%	56%
Relative 2010	93%	99%	100%	100%	68%	68%	62%	62%	56%	56%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	4	5	5	5	5	6	6	6	6
Per-Capita Emissions (tCO2eq/cap)	12.3	12.4	12.1	11.4	6.9	6.9	6.0	6.0	5.3	5.3
Relative 1990	100%	101%	98%	93%	56%	56%	49%	49%	43%	43%
Relative 2000	99%	100%	98%	92%	56%	56%	49%	49%	43%	43%
Relative 2005	102%	102%	100%	95%	57%	57%	50%	50%	44%	44%
Relative 2010	108%	108%	106%	100%	60%	60%	53%	53%	46%	46%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Oman

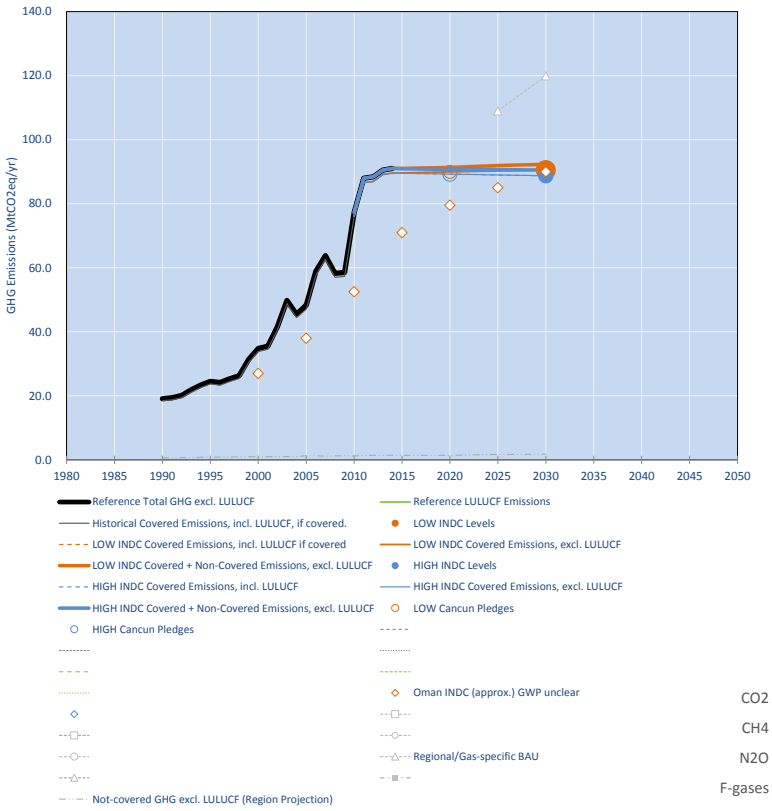
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-34%**

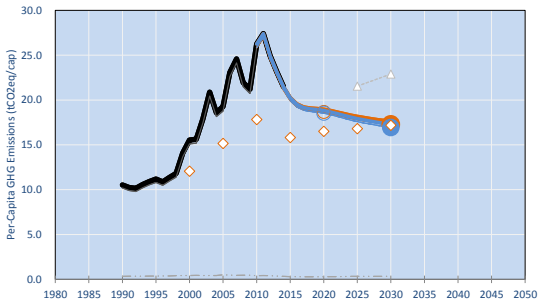
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 91 Mt	Share of World Emissions excl. LULUCF (Rank):	0.2% #64	0.2% #64	0.2% #65
		-2% rel. BAU of 91 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	26.2t #7	18t #13	17.5t #13

INDC: Conditional reduction of GHG emissions by 2% by 2030. . (GWP unclear)

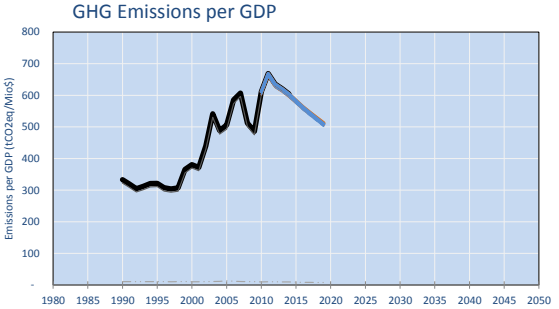
GHG Emissions



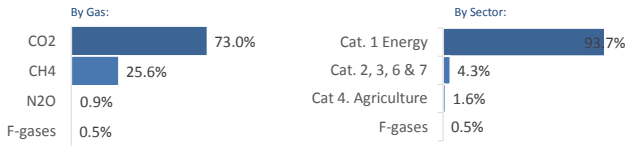
Per-Capita Emissions



GHG Emissions per GDP

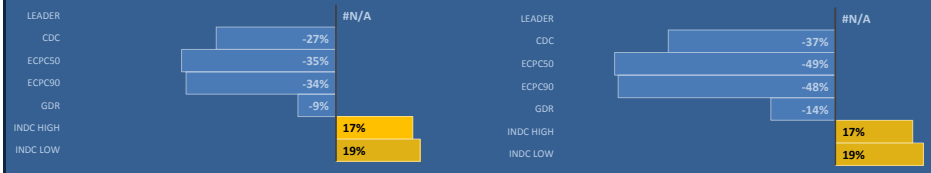


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	18	34	47	76	90	89	90	89	91	89
Total GHG excl. LULUCF	19	35	48	77	91	91	92	91	92	91
Total GHG incl. LULUCF	19	35	48	77	91	91	92	91	92	91

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	182%	253%	405%	479%	475%	482%	475%	484%	474%
Relative 2000	55%	100%	139%	222%	263%	261%	264%	261%	265%	260%
Relative 2005	39%	72%	100%	160%	189%	188%	190%	188%	191%	187%
Relative 2010	25%	45%	63%	100%	118%	117%	119%	117%	119%	117%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	2	2	3	3	5	5	5	5	5	5
Per-Capita Emissions (tCO2eq/cap)	10.5	15.5	19.3	26.2	19.0	18.8	18.2	17.9	17.6	17.3
Relative 1990	100%	148%	183%	249%	180%	179%	173%	170%	167%	164%
Relative 2000	68%	100%	124%	169%	122%	121%	117%	115%	113%	111%
Relative 2005	55%	81%	100%	136%	98%	98%	94%	93%	91%	90%
Relative 2010	40%	59%	73%	100%	72%	72%	69%	68%	67%	66%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

No target provided. Thus, BAU assumed.

INDC FactSheet

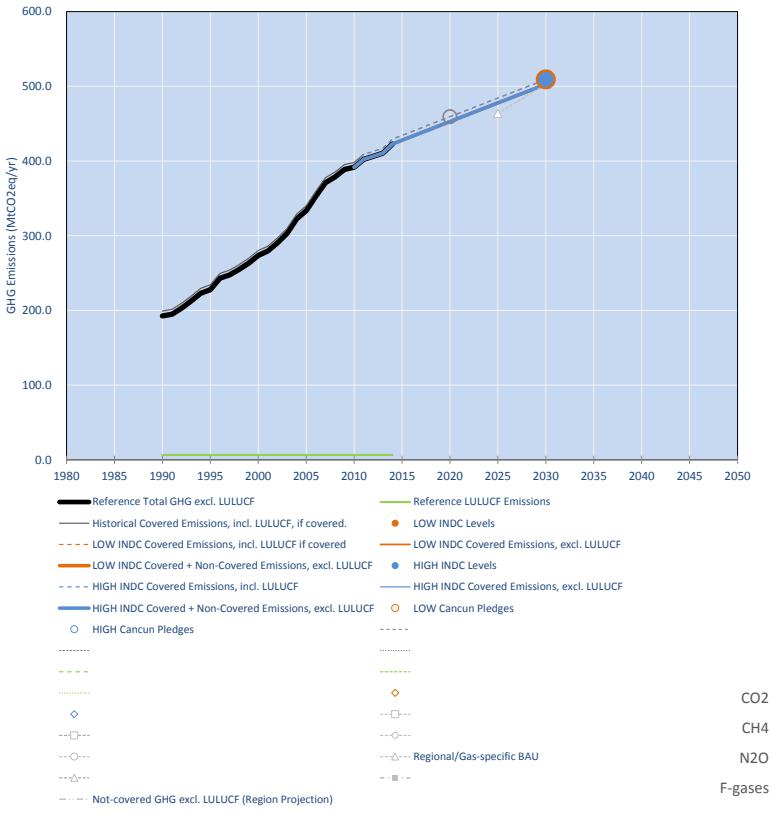
Pakistan

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -11%

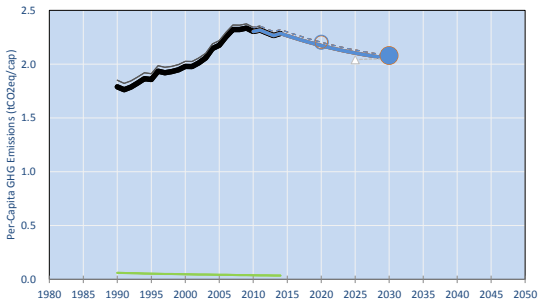
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 509 Mt	Share of World Emissions excl. LULUCF (Rank):	0.8% #26	0.9% #22	0.9% #21
			Per-Capita Emissions (tCO2eq/cap)	2.3t #141	2.1t #150	2.1t #149

INDC: No target provided. Reductions of emissions after yet-to-be defined peak. . (GWP unclear)

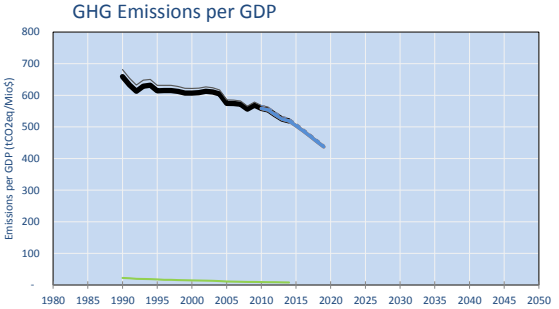
GHG Emissions



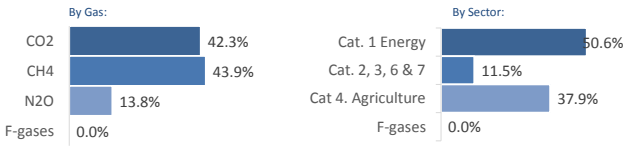
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	22%	28%
INDC LOW	22%	28%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	7	7	7	7	7	7	7	7	7	7
INDC covered Emissions excl. LULUCF	193	274	334	392	453	453	478	478	503	503
Total GHG excl. LULUCF	193	274	334	392	453	453	478	478	503	503
Total GHG incl. LULUCF	199	280	340	398	459	459	484	484	509	509

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	142%	173%	203%	235%	235%	248%	248%	261%	261%
Relative 2000	70%	100%	122%	143%	166%	166%	175%	175%	184%	184%
Relative 2005	58%	82%	100%	117%	136%	136%	143%	143%	151%	151%
Relative 2010	49%	70%	85%	100%	116%	116%	122%	122%	128%	128%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	108	138	153	170	208	208	227	227	245	245
Per-Capita Emissions (tCO2eq/cap)	1.8	2.0	2.2	2.3	2.2	2.2	2.1	2.1	2.1	2.1
Relative 1990	100%	111%	122%	129%	121%	121%	118%	118%	115%	115%
Relative 2000	90%	100%	110%	116%	110%	110%	106%	106%	104%	104%
Relative 2005	82%	91%	100%	106%	100%	100%	97%	97%	94%	94%
Relative 2010	78%	86%	94%	100%	94%	94%	91%	91%	89%	89%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Uncertain data. P&M. Assuming 1/3 of 5 Mt 2014 emissions electricity w 100% phase out.

INDC FactSheet

Papua New Guinea

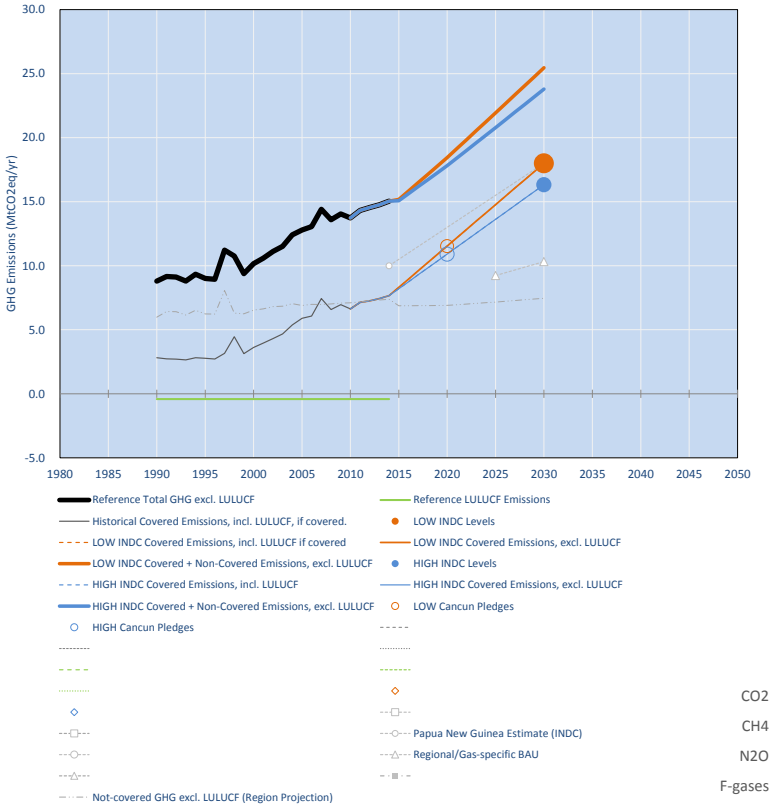
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+22%**

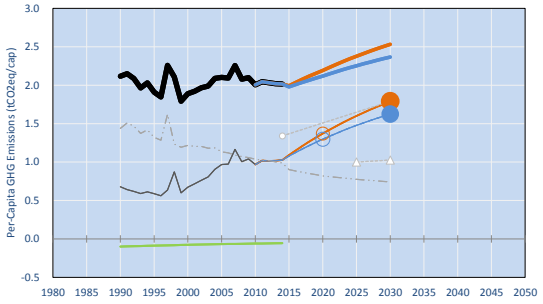
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		18 Mt (Policies and measures)	Share of World Emissions excl. LULUCF (Rank):	0.0% #128	0.0% #122	0.0% #121
		16.3 Mt (Policies and measures)(cond.)	Per-Capita Emissions (tCO2eq/cap)	2t #150	2.3t #142	2.4t #138

INDC: The implementation of policies and actions in the energy sector could reach a reduction of 18 Mt CO2 per year by 2030 pending on international support. (GWP SAR)

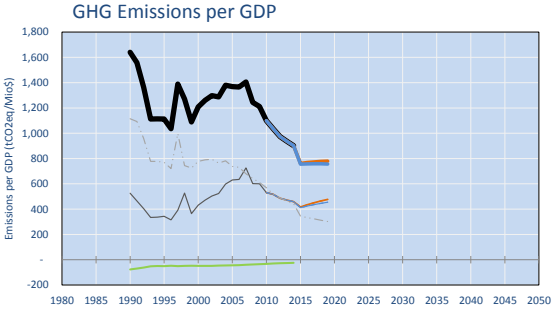
GHG Emissions



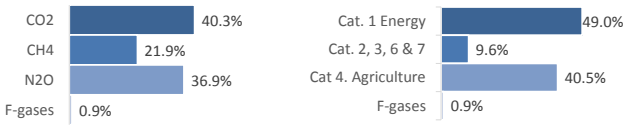
Per-Capita Emissions



GHG Emissions per GDP

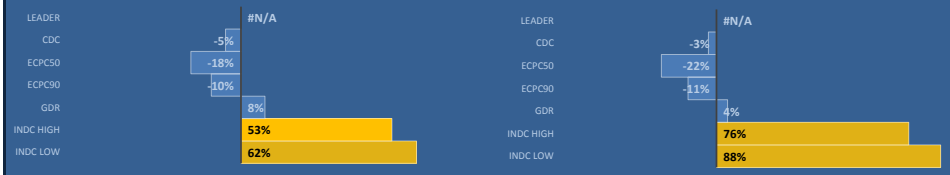


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	3	4	6	7	12	11	15	14	18	16
Total GHG excl. LULUCF	9	10	13	14	18	18	22	21	25	24
Total GHG incl. LULUCF	8	10	12	13	18	17	22	20	25	23

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	115%	145%	156%	209%	202%	249%	236%	289%	270%
Relative 2000	87%	100%	126%	135%	182%	175%	216%	205%	251%	234%
Relative 2005	69%	79%	100%	107%	144%	139%	171%	162%	199%	186%
Relative 2010	64%	74%	93%	100%	134%	130%	160%	151%	185%	173%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	5	6	7	8	8	9	9	10	10
Per-Capita Emissions (tCO2eq/cap)	2.1	1.9	2.1	2.0	2.2	2.1	2.4	2.3	2.5	2.4
Relative 1990	100%	89%	99%	95%	104%	100%	112%	106%	120%	112%
Relative 2000	112%	100%	111%	106%	116%	112%	126%	119%	134%	125%
Relative 2005	101%	90%	100%	95%	104%	101%	113%	107%	120%	113%
Relative 2010	106%	94%	105%	100%	109%	106%	119%	112%	126%	118%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Some mismatch of historical emission data

INDC FactSheet

Paraguay

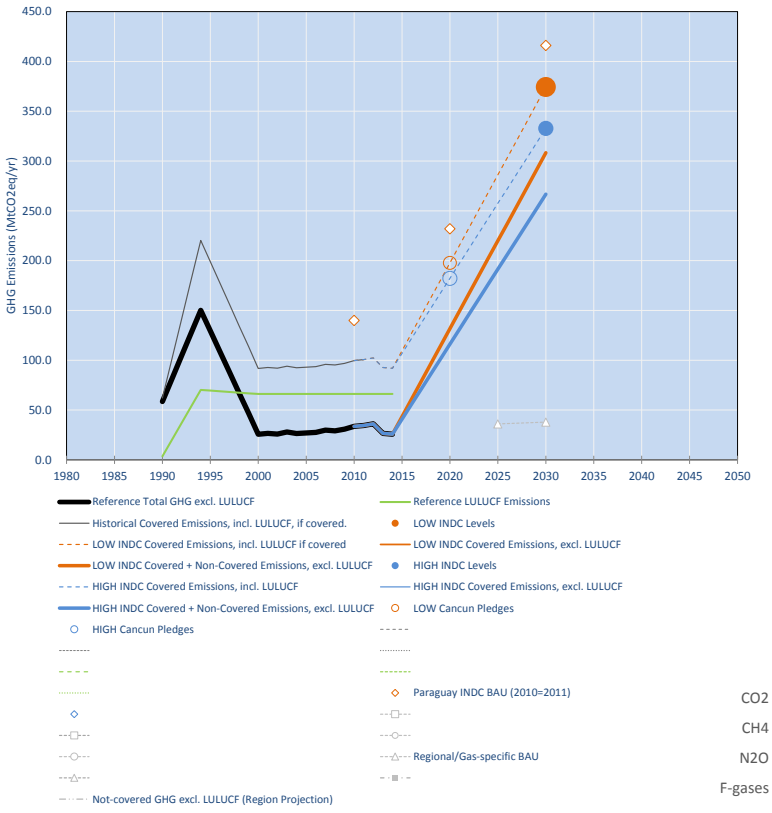
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +578%

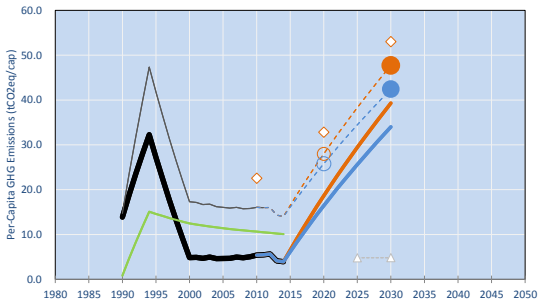
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-10% rel. BAU of 416 Mt -20% rel. BAU of 416 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.1% #94	0.4% #42	0.5% #37
			Per-Capita Emissions (tCO2eq/cap)	5.4t #86	27.5t #7	36.7t #5

INDC: 10% GHG emission reduction compared to BAU levels by 2030Conditional target: additional 10% reduction pending on international support. ()

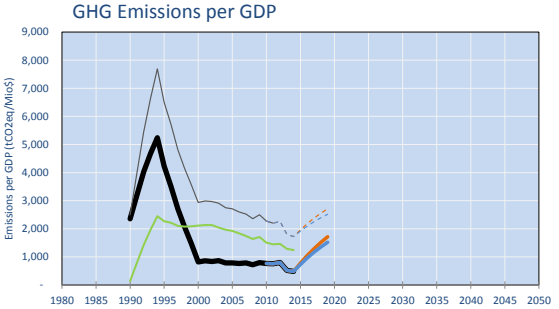
GHG Emissions



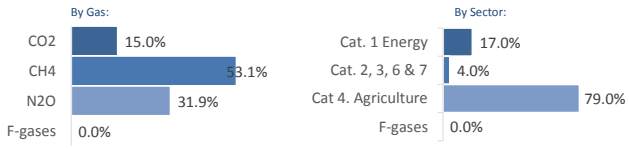
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	4	66	66	66	66	66	66	66	66	66
INDC covered Emissions excl. LULUCF	59	26	27	34	132	116	220	191	308	267
Total GHG excl. LULUCF	59	26	27	34	132	116	220	191	308	267
Total GHG incl. LULUCF	62	92	93	100	198	182	286	258	374	333

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	44%	46%	57%	225%	198%	376%	327%	527%	456%
Relative 2000	228%	100%	105%	131%	513%	453%	858%	746%	1202%	1040%
Relative 2005	217%	95%	100%	125%	489%	431%	817%	711%	1146%	991%
Relative 2010	174%	76%	80%	100%	392%	346%	656%	570%	919%	795%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	5	6	6	7	7	7	7	8	8
Per-Capita Emissions (tCO2eq/cap)	13.9	4.8	4.6	5.4	18.6	16.4	29.4	25.6	39.3	34.0
Relative 1990	100%	35%	33%	39%	134%	118%	212%	184%	283%	245%
Relative 2000	287%	100%	96%	112%	385%	340%	609%	529%	812%	703%
Relative 2005	299%	104%	100%	116%	401%	354%	634%	552%	846%	732%
Relative 2010	257%	90%	86%	100%	345%	304%	545%	474%	727%	629%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Peru

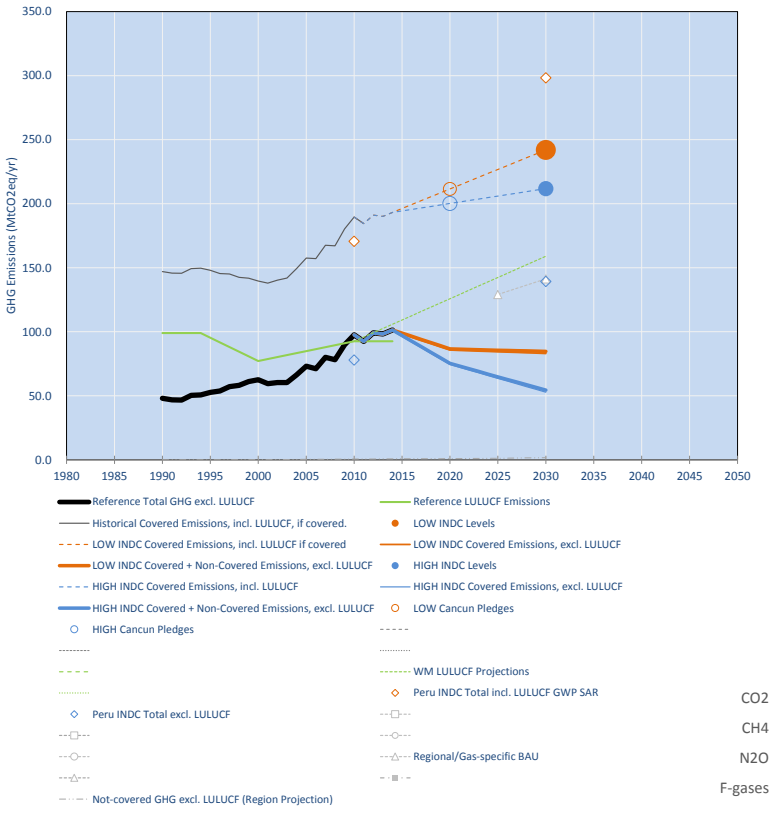
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-43%**

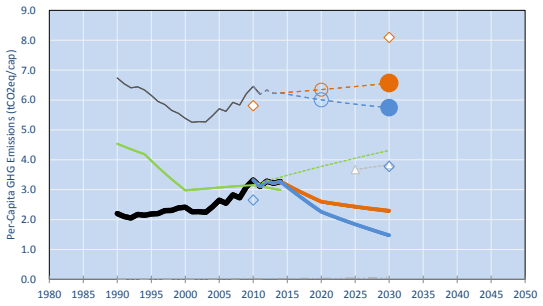
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-20% rel. BAU of 298 Mt -30% rel. BAU of 298 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.2% #52	0.1% #70	0.1% #78
			Per-Capita Emissions (tCO2eq/cap)	3.3t #115	2.1t #149	1.9t #158

INDC: 20% GHG emission reduction compared to BAU by 2030. Additional 10% conditional to international support and favorable conditions. (GWP SAR)

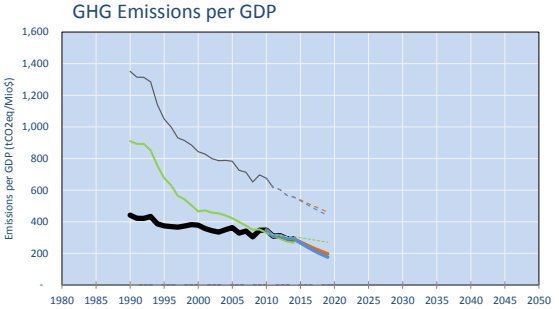
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	99	77	85	93	126	126	142	142	159	159
INDC covered Emissions excl. LULUCF	48	62	73	97	86	74	84	64	83	53
Total GHG excl. LULUCF	48	63	73	98	87	75	86	65	85	54
Total GHG incl. LULUCF	147	140	158	190	212	201	228	207	244	213

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	130%	152%	203%	180%	157%	178%	135%	176%	113%
Relative 2000	77%	100%	117%	156%	138%	120%	137%	104%	135%	87%
Relative 2005	66%	86%	100%	134%	119%	103%	117%	89%	116%	74%
Relative 2010	49%	64%	75%	100%	89%	77%	88%	66%	87%	56%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	22	26	28	29	33	33	35	35	37	37
Per-Capita Emissions (tCO2eq/cap)	2.2	2.4	2.6	3.3	2.6	2.3	2.4	1.8	2.3	1.5
Relative 1990	100%	110%	120%	151%	118%	103%	111%	84%	104%	67%
Relative 2000	91%	100%	110%	138%	108%	94%	101%	76%	95%	61%
Relative 2005	83%	91%	100%	126%	98%	85%	92%	70%	87%	56%
Relative 2010	66%	73%	80%	100%	78%	68%	73%	55%	69%	44%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	COUNTRY-SPECIFIC USER DATA
PRO_WM_Cat5_G	COUNTRY-SPECIFIC USER DATA
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

70% below BAU reduction could not be quantified, as no BAU level provided.

INDC FactSheet

Philippines

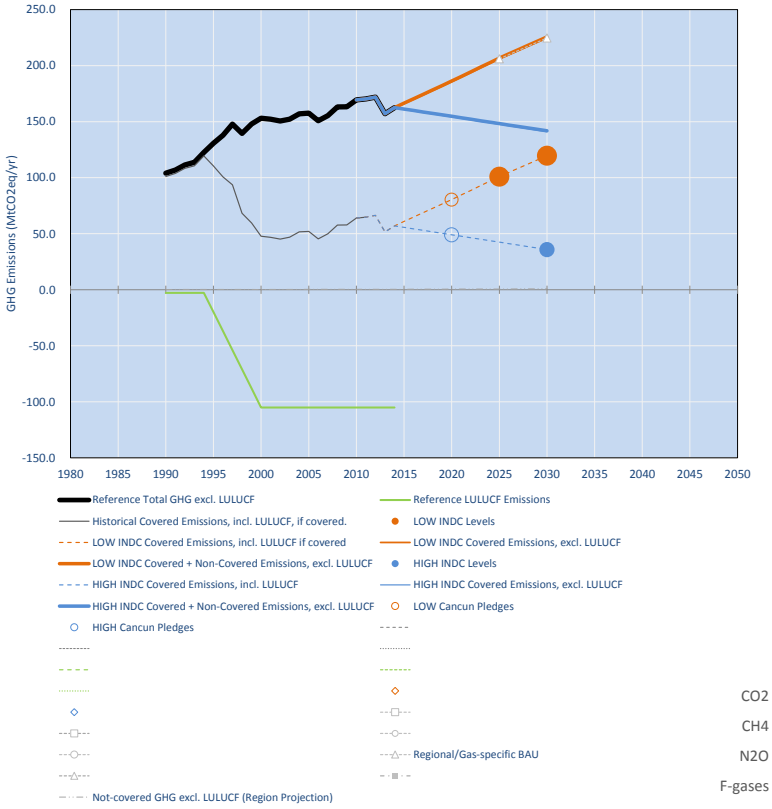
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -18%

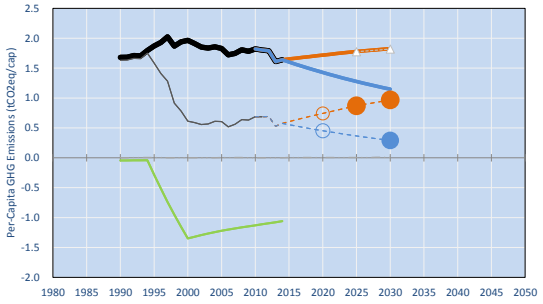
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	0% rel. BAU of 101 Mt	0% rel. BAU of 120 Mt -70% rel. BAU of 120 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.4% #40	0.3% #44	0.3% #44
			Per-Capita Emissions (tCO2eq/cap)	1.8t #156	1.5t #167	1.5t #170

INDC: 70% GHG emission reduction relative to BAU by 2030. (2006 IPCC Guidelines)

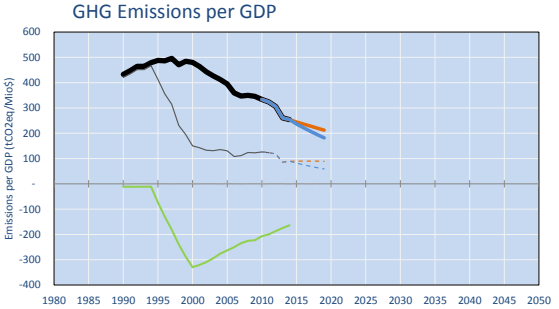
GHG Emissions



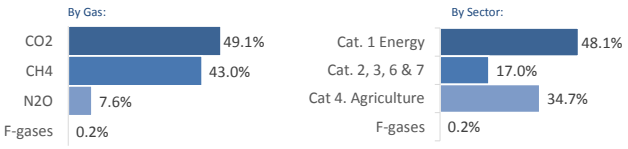
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 3	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105	- 105
INDC covered Emissions excl. LULUCF	104	153	157	169	186	154	206	148	225	141
Total GHG excl. LULUCF	104	153	158	169	186	155	207	148	226	142
Total GHG incl. LULUCF	101	48	52	64	81	50	102	43	120	37

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	147%	151%	163%	179%	149%	199%	143%	217%	136%
Relative 2000	68%	100%	103%	111%	122%	101%	135%	97%	147%	93%
Relative 2005	66%	97%	100%	108%	118%	98%	131%	94%	143%	90%
Relative 2010	61%	90%	93%	100%	110%	91%	122%	88%	133%	84%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	62	78	86	93	108	108	116	116	124	124
Per-Capita Emissions (tCO2eq/cap)	1.7	2.0	1.8	1.8	1.7	1.4	1.8	1.3	1.8	1.1
Relative 1990	100%	117%	109%	108%	102%	85%	106%	76%	109%	68%
Relative 2000	85%	100%	93%	93%	87%	73%	91%	65%	93%	58%
Relative 2005	92%	107%	100%	100%	94%	78%	97%	70%	100%	63%
Relative 2010	92%	108%	100%	100%	94%	78%	98%	70%	100%	63%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
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Cat0_SF6	PRIMAPHIST15
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
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Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

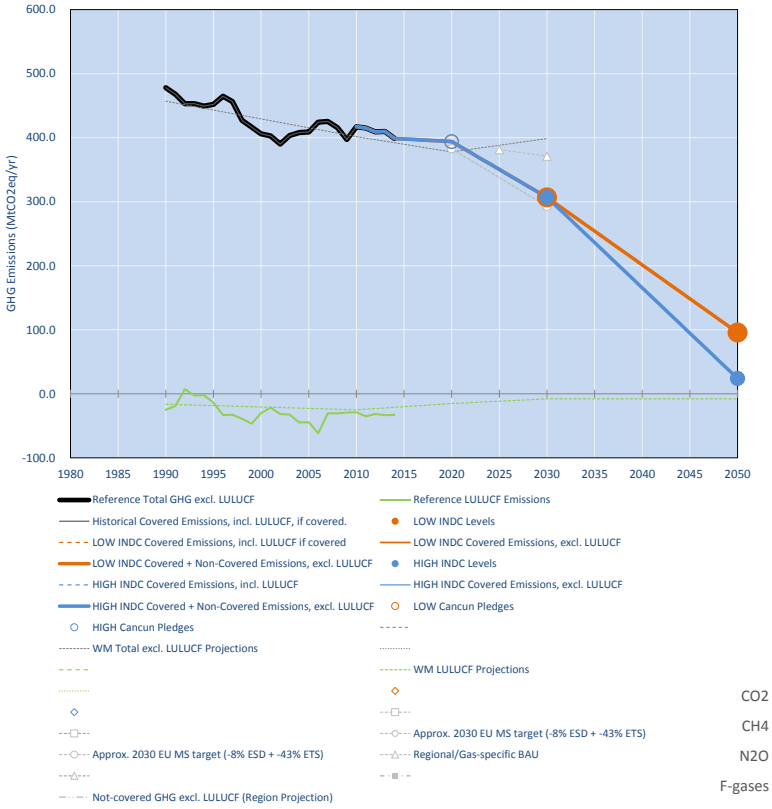
INDC FactSheet

Poland

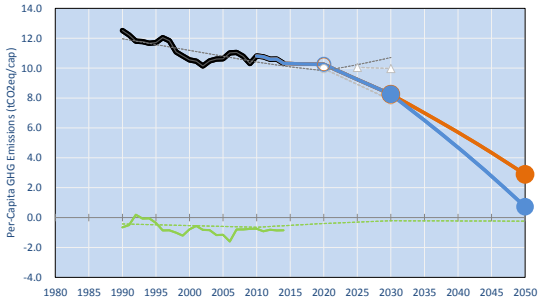
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-24%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.9% #24	0.6% #31	0.6% #32
			Per-Capita Emissions (tCO2eq/cap)	10.8t #33	9.2t #39	8.2t #45

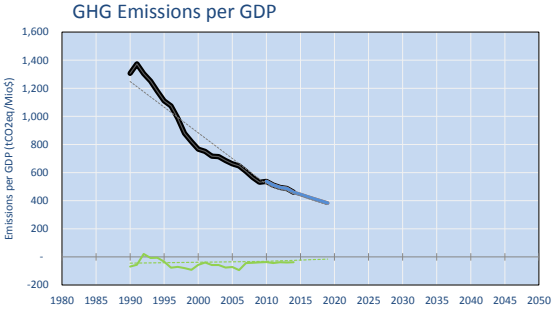
GHG Emissions



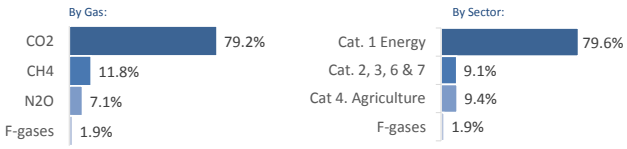
Per-Capita Emissions



GHG Emissions per GDP

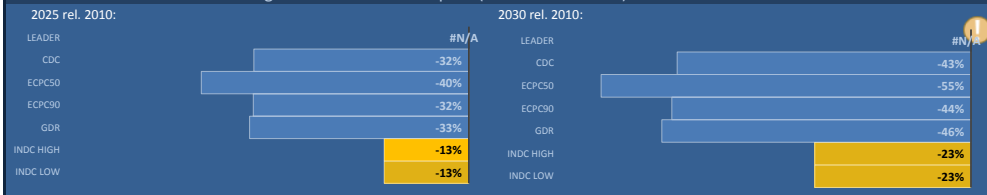


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 11	- 11	- 14	- 14	- 14	- 14
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	478	406	409	417	394	394	350	350	307	307
Total GHG excl. LULUCF	478	406	409	417	394	394	350	350	307	307
Total GHG incl. LULUCF	453	376	364	388	379	379	339	339	299	299

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	85%	86%	87%	82%	82%	73%	73%	64%	64%
Relative 2000	118%	100%	101%	103%	97%	97%	86%	86%	76%	76%
Relative 2005	117%	99%	100%	102%	96%	96%	86%	86%	75%	75%
Relative 2010	115%	97%	98%	100%	94%	94%	84%	84%	74%	74%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	38	38	38	39	38	38	38	38	37	37
Per-Capita Emissions (tCO2eq/cap)	12.5	10.6	10.6	10.8	10.3	10.3	9.2	9.2	8.2	8.2
Relative 1990	100%	84%	85%	86%	82%	82%	74%	74%	66%	66%
Relative 2000	119%	100%	101%	102%	97%	97%	88%	88%	78%	78%
Relative 2005	118%	99%	100%	102%	96%	96%	87%	87%	78%	78%
Relative 2010	116%	98%	98%	100%	95%	95%	85%	85%	76%	76%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

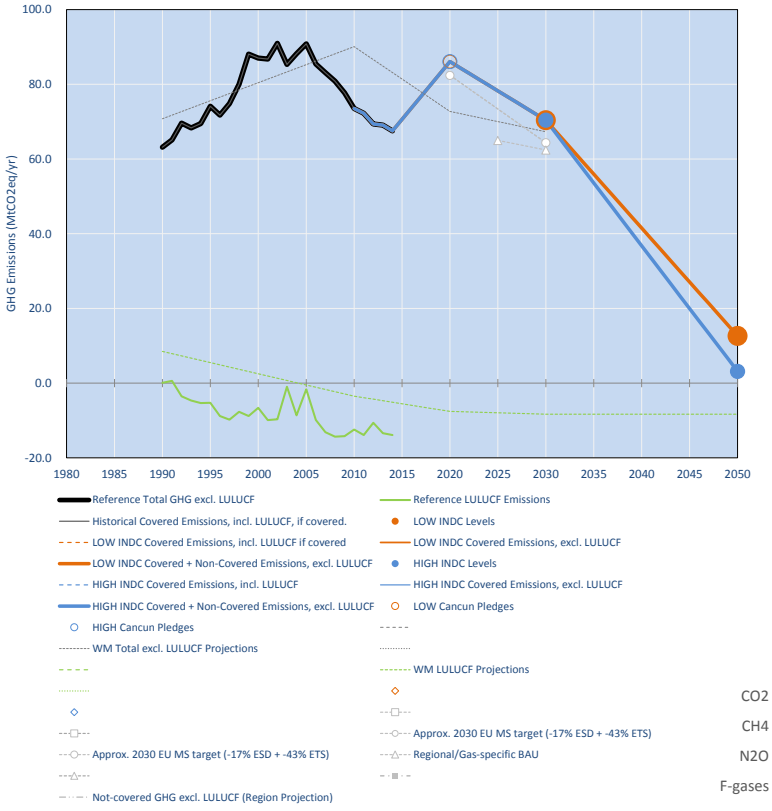
INDC FactSheet

Portugal

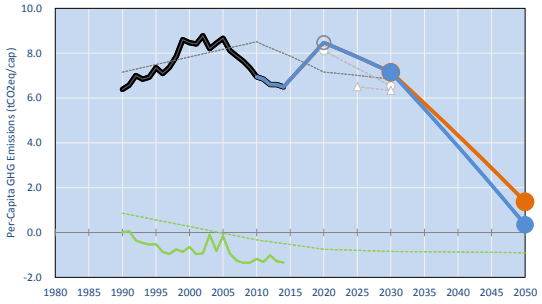
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+3%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.2% #67	0.1% #69	0.1% #77
			Per-Capita Emissions (tCO2eq/cap)	6.9t #69	7.8t #58	7.2t #57

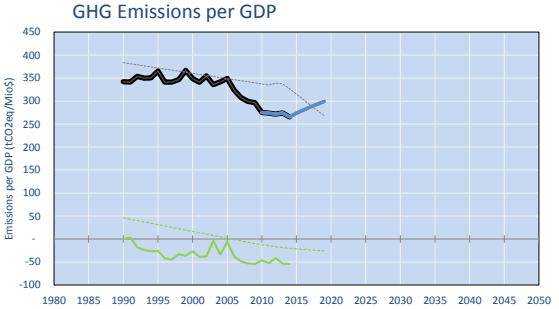
GHG Emissions



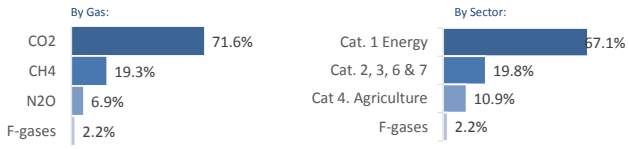
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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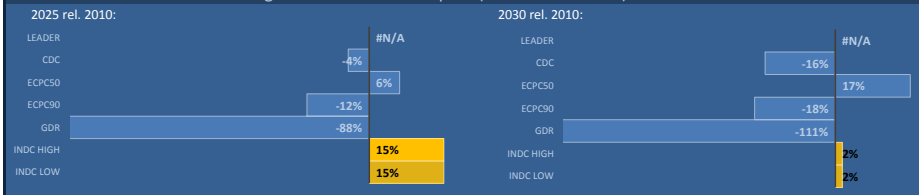

Shown fair contributinos only indicative

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 4	- 4	- 6	- 6	- 6	- 6
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	63	87	91	74	86	86	78	78	70	70
Total GHG excl. LULUCF	63	87	91	74	86	86	78	78	70	70
Total GHG incl. LULUCF	63	80	89	61	79	79	70	70	62	62

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	138%	144%	116%	136%	136%	124%	124%	111%	111%
Relative 2000	73%	100%	104%	84%	99%	99%	90%	90%	81%	81%
Relative 2005	70%	96%	100%	81%	95%	95%	86%	86%	78%	78%
Relative 2010	86%	118%	124%	100%	117%	117%	106%	106%	96%	96%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	10	10	11	10	10	10	10	10	10
Per-Capita Emissions (tCO2eq/cap)	6.4	8.5	8.7	6.9	8.5	8.5	7.8	7.8	7.2	7.2
Relative 1990	100%	133%	136%	109%	133%	133%	123%	123%	112%	112%
Relative 2000	75%	100%	102%	82%	100%	100%	92%	92%	84%	84%
Relative 2005	74%	98%	100%	80%	98%	98%	90%	90%	83%	83%
Relative 2010	92%	122%	125%	100%	122%	122%	113%	113%	103%	103%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

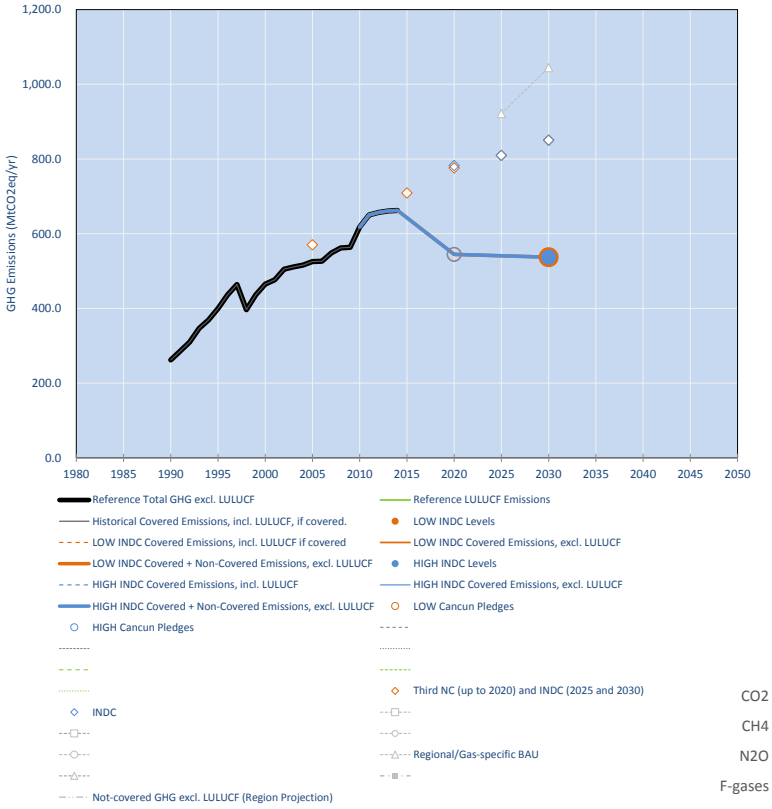
Republic of Korea

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-19%**

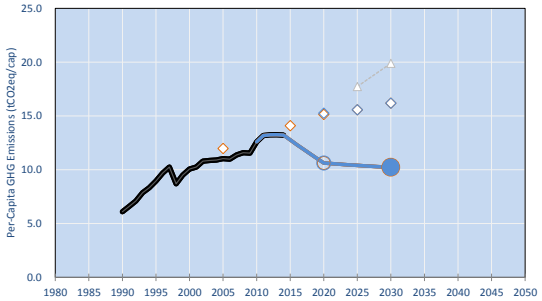
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-30% rel. BAU of 776.1		-37% rel. BAU of 851 Mt	Share of World Emissions excl. LULUCF (Rank):	1.3% #16	1.0% #18	1.0% #19
			Per-Capita Emissions (tCO2eq/cap)	12.6t #25	10.4t #33	10.2t #31

INDC: Emission reduction by 37% from BAU level by 2030. (GWP SAR)

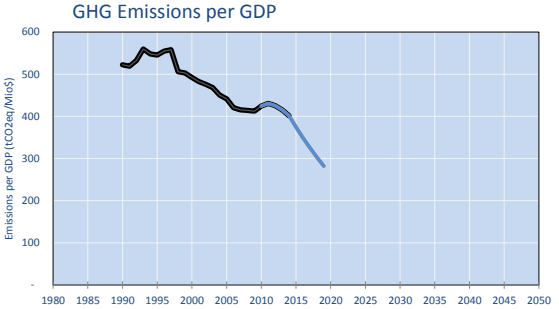
GHG Emissions



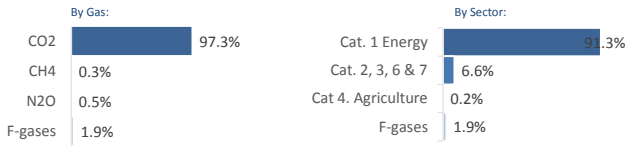
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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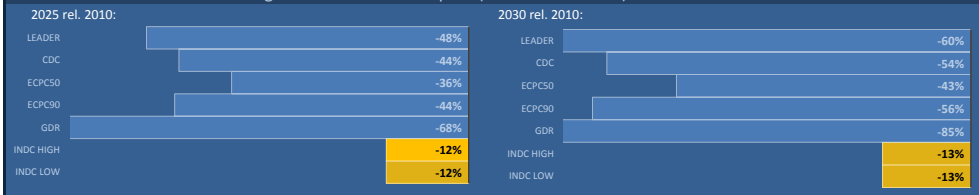

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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	262	465	525	618	545	545	541	541	537	537
Total GHG excl. LULUCF	262	465	525	618	545	545	541	541	537	537
Total GHG incl. LULUCF	262	465	525	618	545	545	541	541	537	537

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	177%	200%	236%	208%	208%	206%	206%	205%	205%
Relative 2000	56%	100%	113%	133%	117%	117%	116%	116%	116%	116%
Relative 2005	50%	89%	100%	118%	104%	104%	103%	103%	102%	102%
Relative 2010	42%	75%	85%	100%	88%	88%	88%	88%	87%	87%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	43	46	48	49	51	51	52	52	53	53
Per-Capita Emissions (tCO2eq/cap)	6.1	10.1	11.0	12.6	10.6	10.6	10.4	10.4	10.2	10.2
Relative 1990	100%	165%	181%	206%	174%	174%	171%	171%	168%	168%
Relative 2000	61%	100%	110%	125%	106%	106%	103%	103%	102%	102%
Relative 2005	55%	91%	100%	114%	96%	96%	94%	94%	93%	93%
Relative 2010	48%	80%	88%	100%	84%	84%	83%	83%	81%	81%

Data Sources:

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Slight difference in historical emissions

INDC FactSheet

Republic of Moldova

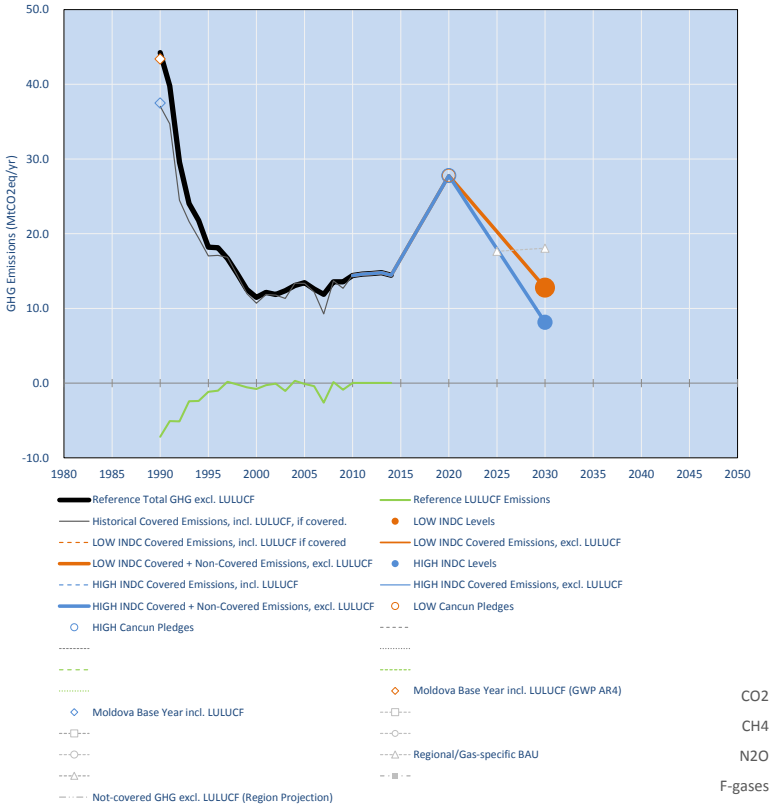
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-23%**

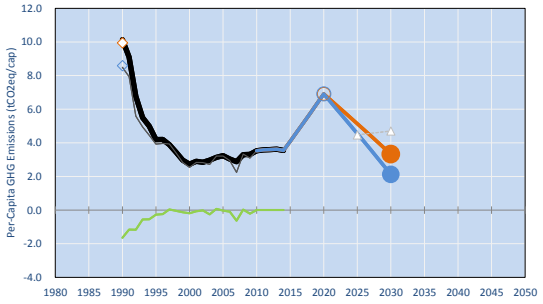
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-25% rel. 1990		-66% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.0% #127	0.0% #124	0.0% #146
-25% rel. 1990		-78% rel.1990(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.5t #111	4.8t #98	2.7t #130

INDC: Reduce GHG emissions by 64-67% below 1990 levels in 2030Conditional target: reduction could be increased up to 78% below 1990 levels. (GWP AR4)

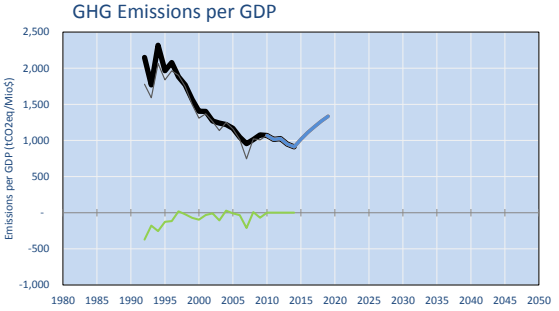
GHG Emissions



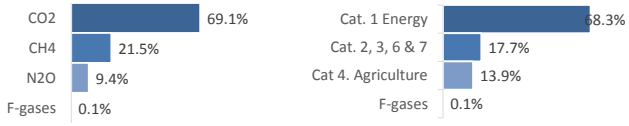
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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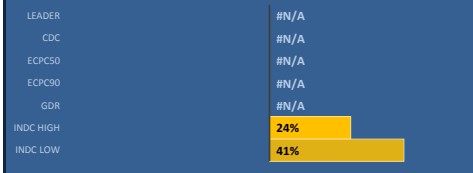
More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -45 to -52%; CDC:-43%; ECPC50:-36%; ECPC90:-36%; GDR:-58%

2030 rel. 1990 INDC: -66 to -78%; CDC:-54%; ECPC50:-33%; ECPC90:-37%; GDR:-60%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-7	-1	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF	44	11	13	14	28	28	20	18	13	8
Total GHG excl. LULUCF	44	11	13	14	28	28	20	18	13	8
Total GHG incl. LULUCF	37	11	13	14	28	28	20	18	13	8

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	26%	30%	33%	63%	63%	46%	41%	29%	18%
Relative 2000	385%	100%	117%	126%	242%	242%	177%	156%	111%	71%
Relative 2005	329%	85%	100%	107%	206%	206%	151%	133%	95%	60%
Relative 2010	307%	80%	93%	100%	193%	193%	141%	125%	89%	56%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	4	4	4	4	4	4	4	4	4
Per-Capita Emissions (tCO2eq/cap)	10.1	2.7	3.2	3.5	6.9	6.9	5.1	4.6	3.3	2.1
Relative 1990	100%	27%	32%	35%	68%	68%	51%	45%	33%	21%
Relative 2000	371%	100%	118%	129%	253%	253%	188%	167%	122%	77%
Relative 2005	313%	84%	100%	109%	213%	213%	159%	141%	103%	65%
Relative 2010	287%	77%	92%	100%	196%	196%	146%	129%	94%	60%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

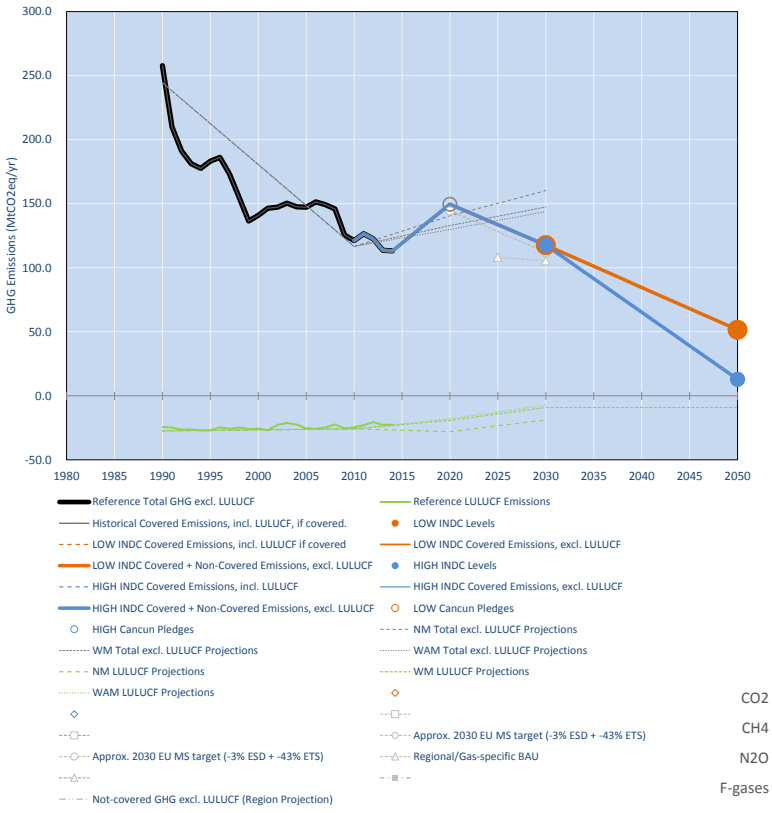
INDC FactSheet

Romania

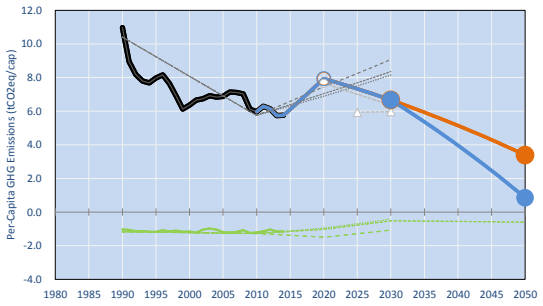
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +12%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.3% #49	0.2% #49	0.2% #56
			Per-Capita Emissions (tCO2eq/cap)	6t #79	7.3t #63	6.7t #66

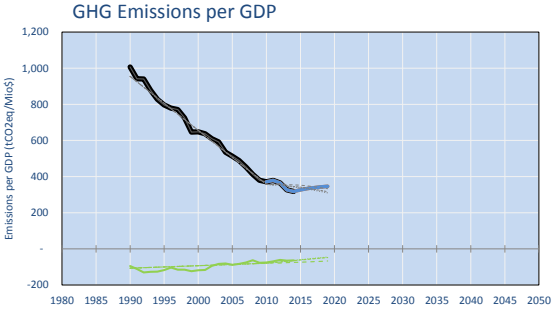
GHG Emissions



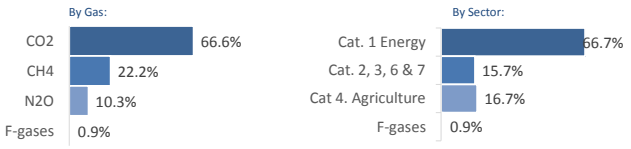
Per-Capita Emissions



GHG Emissions per GDP

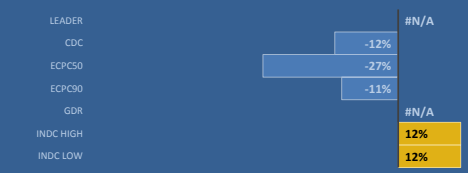


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-5	-5	-6	-6	-6	-6
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	258	141	147	121	150	150	134	134	118	118
Total GHG excl. LULUCF	258	141	147	121	150	150	134	134	118	118
Total GHG incl. LULUCF	234	115	122	97	130	130	119	119	109	109

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	55%	57%	47%	58%	58%	52%	52%	46%	46%
Relative 2000	183%	100%	105%	86%	106%	106%	95%	95%	84%	84%
Relative 2005	175%	96%	100%	82%	102%	102%	91%	91%	80%	80%
Relative 2010	213%	116%	122%	100%	123%	123%	110%	110%	97%	97%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	23	22	21	20	19	19	18	18	18	18
Per-Capita Emissions (tCO2eq/cap)	11.0	6.4	6.9	6.0	7.9	7.9	7.3	7.3	6.7	6.7
Relative 1990	100%	58%	63%	54%	72%	72%	67%	67%	61%	61%
Relative 2000	172%	100%	108%	94%	125%	125%	115%	115%	105%	105%
Relative 2005	160%	93%	100%	87%	115%	115%	107%	107%	97%	97%
Relative 2010	184%	107%	115%	100%	133%	133%	123%	123%	112%	112%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Using BUR Fig. V.1 Forest Mng. Projections Scenario 3, limiting FM credits.

INDC FactSheet

Russian Federation

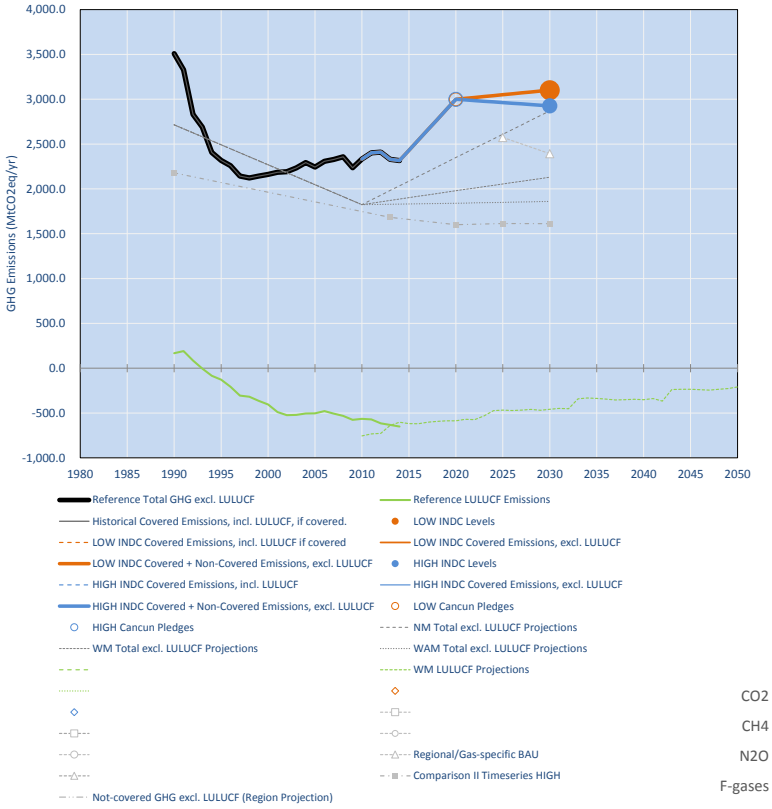
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+33%**

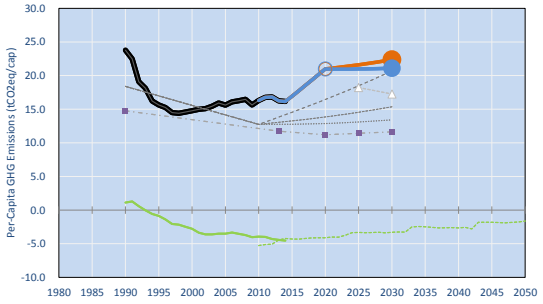
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-25% rel. 1990		-25% rel.1990	Share of World Emissions excl. LULUCF (Rank):	5.1% #5	5.6% #5	5.4% #5
-25% rel. 1990		-30% rel.1990	Per-Capita Emissions (tCO2eq/cap)	16.3t #16	21.3t #10	21.7t #10

INDC: Limiting anthropogenic GHG to 70-75% of 1990 levels by the year 2030, subject to the maximum possible account of absorbing capacity of forests.. (GWP AR4)

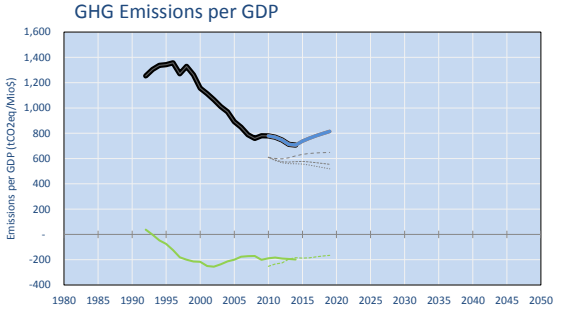
GHG Emissions



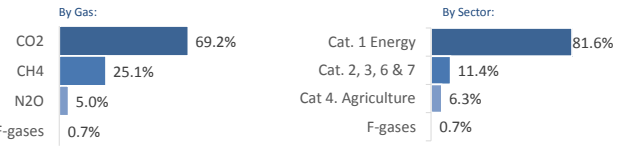
Per-Capita Emissions



GHG Emissions per GDP

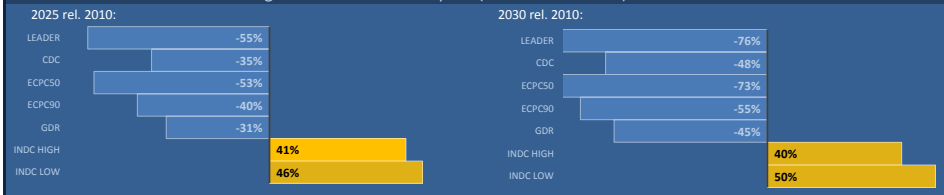


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -30 to -32%; Leader:-78%; CDC:-69%; ECPC50:-77%; ECPC90:-71%; GDR:-67%

2030 rel. 1990 INDC: -28 to -33%; Leader:-88%; CDC:-75%; ECPC50:-87%; ECPC90:-78%; GDR:-74%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 368	- 368	- 480	- 480	- 470	- 470
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	3,509	2,162	2,243	2,333	3,000	3,000	3,051	2,963	3,102	2,926
Total GHG excl. LULUCF	3,509	2,162	2,243	2,333	3,000	3,000	3,051	2,963	3,102	2,926
Total GHG incl. LULUCF	3,676	1,758	1,740	1,768	2,413	2,413	2,583	2,495	2,644	2,469

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	62%	64%	66%	85%	85%	87%	84%	88%	83%
Relative 2000	162%	100%	104%	108%	139%	139%	141%	137%	143%	135%
Relative 2005	156%	96%	100%	104%	134%	134%	136%	132%	138%	130%
Relative 2010	150%	93%	96%	100%	129%	129%	131%	127%	133%	125%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	148	146	144	143	143	143	141	141	139	139
Per-Capita Emissions (tCO2eq/cap)	23.8	14.8	15.6	16.3	21.0	21.0	21.6	21.0	22.4	21.1
Relative 1990	100%	62%	66%	69%	88%	88%	91%	88%	94%	89%
Relative 2000	161%	100%	106%	110%	142%	142%	146%	142%	151%	143%
Relative 2005	152%	95%	100%	104%	134%	134%	138%	134%	143%	135%
Relative 2010	146%	91%	96%	100%	129%	129%	133%	129%	137%	130%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
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Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	COUNTRY-SPECIFIC USER DATA
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | Assuming BAU - Policies and Measures

INDC FactSheet

Rwanda

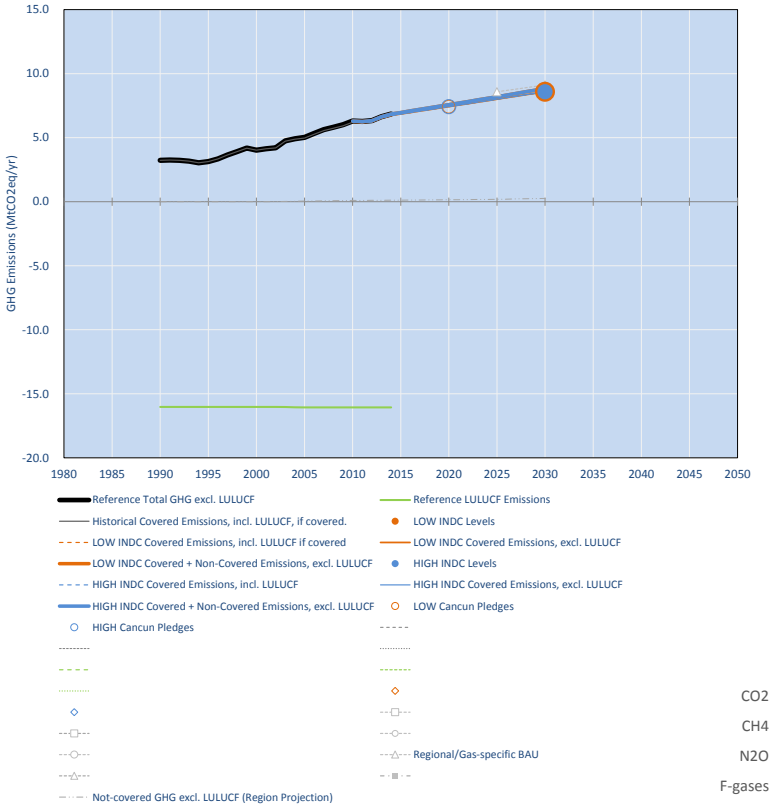
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-8%**

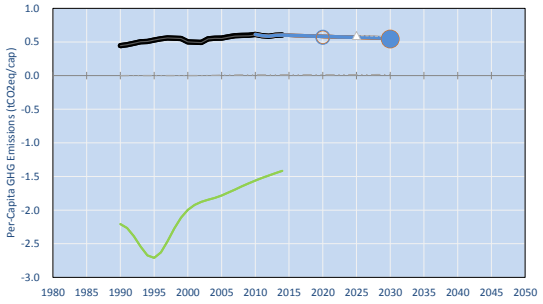
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		8.6 Mt (Polices and Measures)	Share of World Emissions excl. LULUCF (Rank):	0.0% #148	0.0% #150	0.0% #149
		8.6 Mt (Policies and measures)(cond.)	Per-Capita Emissions (tCO2eq/cap)	0.6t #193	0.6t #194	0.6t #193

INDC: Emission reduction resulting from deviation of BAU emissions based on policies and actions conditional on international support. (N/A (no quantitative emission target))

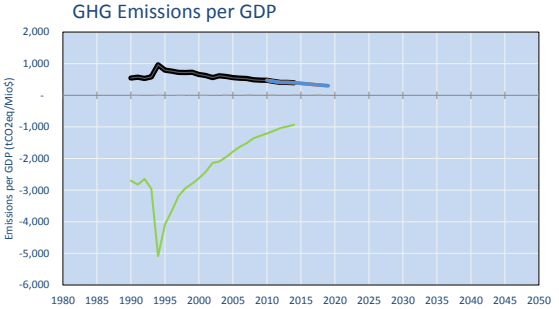
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	3	4	5	6	7	7	8	8	9	9
Total GHG excl. LULUCF	3	4	5	6	8	8	8	8	9	9
Total GHG incl. LULUCF	- 13	- 12	- 11	- 10	- 8	- 8	- 8	- 8	- 7	- 7

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	124%	156%	195%	234%	234%	253%	253%	274%	274%
Relative 2000	80%	100%	125%	157%	188%	188%	204%	204%	220%	220%
Relative 2005	64%	80%	100%	125%	151%	151%	163%	163%	176%	176%
Relative 2010	51%	64%	80%	100%	120%	120%	130%	130%	140%	140%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	7	8	9	10	13	13	14	14	16	16
Per-Capita Emissions (tCO2eq/cap)	0.4	0.5	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Relative 1990	100%	113%	125%	138%	131%	131%	128%	128%	126%	126%
Relative 2000	89%	100%	111%	122%	116%	116%	114%	114%	112%	112%
Relative 2005	80%	90%	100%	110%	104%	104%	102%	102%	100%	100%
Relative 2010	73%	82%	91%	100%	95%	95%	93%	93%	92%	92%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

2/3 of Energy CO2 missions is allocated to the 2/3/5/6 sectors, as INDC only on electricity

INDC FactSheet

Samoa

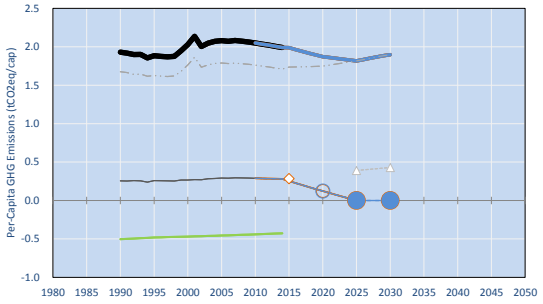
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-7%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	-100% rel.2014	-100% rel.2014(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.0% #180	0.0% #181	0.0% #180
			Per-Capita Emissions (tCO2eq/cap)	2t #148	1.8t #159	1.9t #156

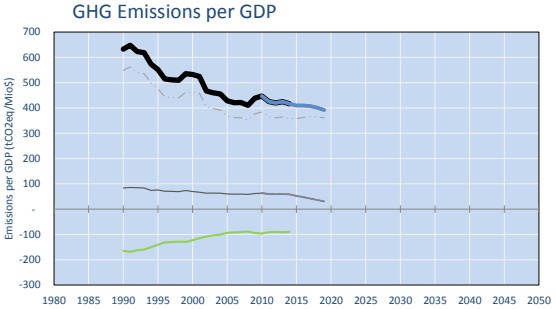
INDC: Committed to reducing GHG emissions from electricity sector through adoption of 100% renewable energy for electricity generation Subject to receiving international assistance. (IPCC 2006 Guidelines)

GHG Emissions

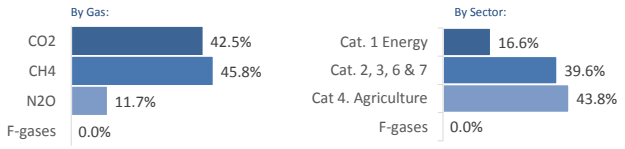
Per-Capita Emissions



GHG Emissions per GDP

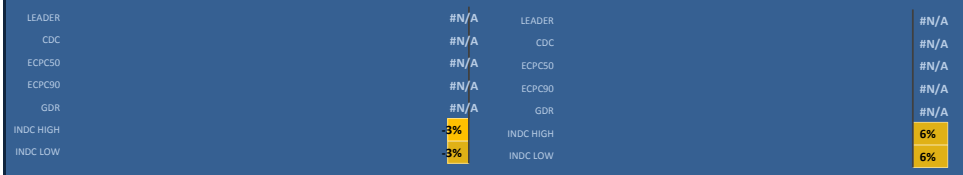


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2014 INDC: -3%; CDC:10%; ECPC50:10%; ECPC90:10%; GDR:-20% | 2030 rel. 2014 INDC: 6%; CDC:13%; ECPC50:13%; ECPC90:13%; GDR:-25%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	-	-	-	-
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	113%	119%	121%	119%	119%	118%	118%	127%	127%
Relative 2000	89%	100%	106%	108%	105%	105%	105%	105%	113%	113%
Relative 2005	84%	95%	100%	102%	100%	100%	99%	99%	107%	107%
Relative 2010	82%	93%	98%	100%	98%	98%	98%	98%	105%	105%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	1.9	2.0	2.1	2.0	1.9	1.9	1.8	1.8	1.9	1.9
Relative 1990	100%	105%	108%	106%	97%	97%	94%	94%	98%	98%
Relative 2000	95%	100%	103%	101%	92%	92%	90%	90%	94%	94%
Relative 2005	93%	97%	100%	98%	90%	90%	87%	87%	91%	91%
Relative 2010	94%	99%	102%	100%	91%	91%	89%	89%	93%	93%

Data Sources:

Cat1_CO2	COUNTRY-SPECIFIC USER DATA
Cat2367_CO2	COUNTRY-SPECIFIC USER DATA
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al.; www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Historical 2005 Data from their INDC - assumed as CO2 Energy.

INDC FactSheet

San Marino

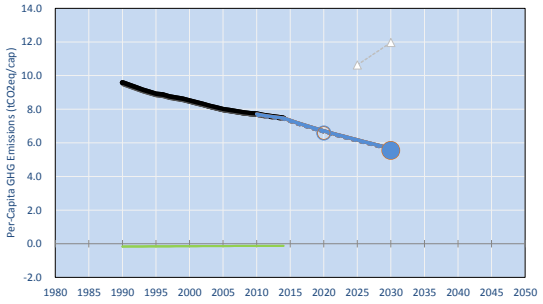
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-27%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-20% rel.2005	Share of World Emissions excl. LULUCF (Rank):	0.0% #184	0.0% #187	0.0% #188
			Per-Capita Emissions (tCO2eq/cap)	7.7t #60	6.2t #74	5.7t #82

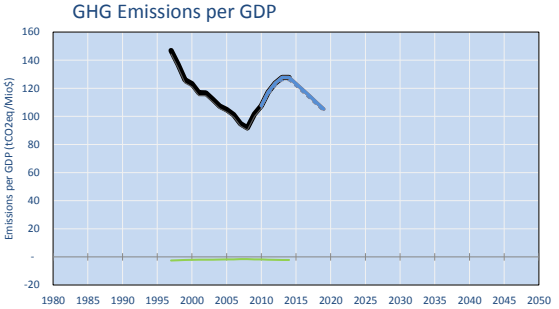
INDC: Commits to reduce GHG emissions to 20% below 2005 levels by 2030. (GWP SAR)

GHG Emissions

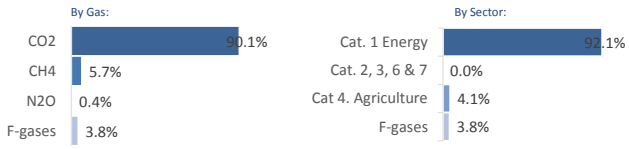
Per-Capita Emissions



GHG Emissions per GDP

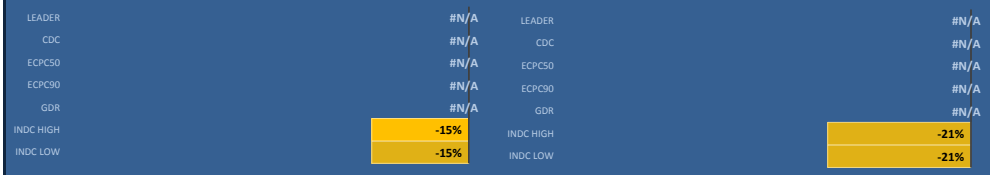


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2005 INDC: -13%; GDR:16% 2030 rel. 2005 INDC: -20%; GDR:19%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	0	0	0	0	0	0	0	0	0	0
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	0	0	0	0	0	0	0	0	0	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	101%	101%	103%	95%	95%	88%	88%	81%	81%
Relative 2000	99%	100%	100%	102%	94%	94%	87%	87%	81%	81%
Relative 2005	99%	100%	100%	101%	93%	93%	87%	87%	80%	80%
Relative 2010	97%	98%	99%	100%	92%	92%	86%	86%	79%	79%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	9.6	8.5	8.0	7.7	6.7	6.7	6.2	6.2	5.7	5.7
Relative 1990	100%	89%	83%	81%	70%	70%	64%	64%	59%	59%
Relative 2000	113%	100%	94%	91%	79%	79%	73%	73%	67%	67%
Relative 2005	120%	106%	100%	97%	84%	84%	77%	77%	71%	71%
Relative 2010	124%	110%	104%	100%	87%	87%	80%	80%	73%	73%

Data Sources:

Cat1_CO2	COUNTRY-SPECIFIC USER DATA
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

LULUCF sink included in INDC as constant. Historical emission diff.

INDC FactSheet

Sao Tome and Principe

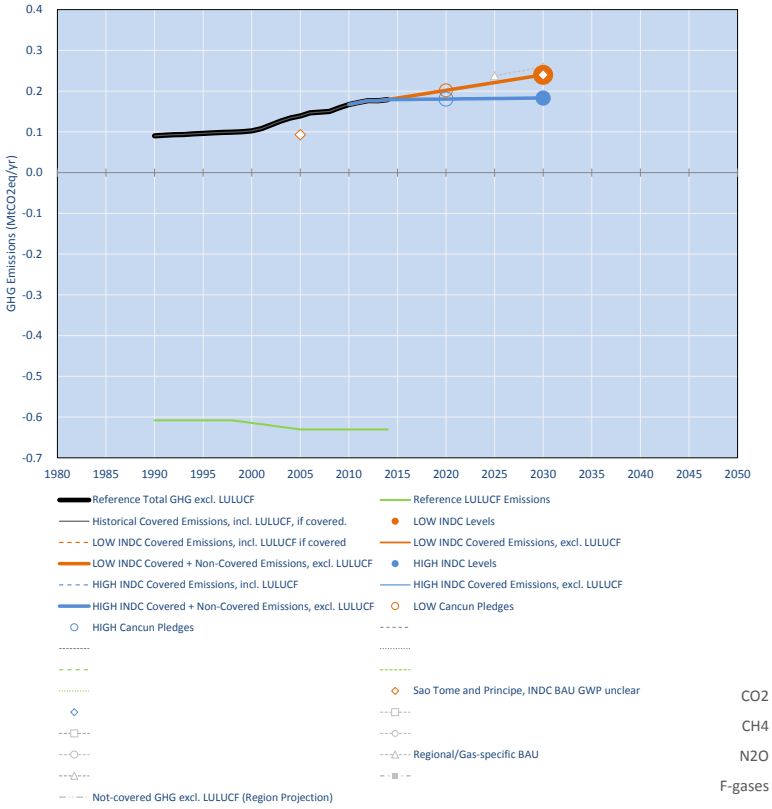
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-16%**

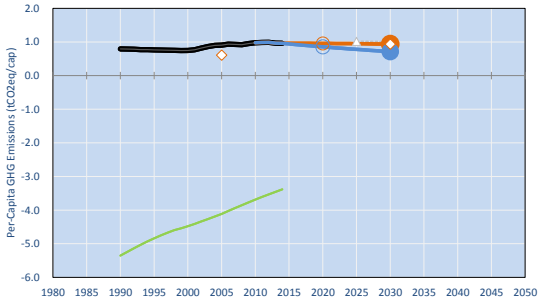
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 0 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #190	0.0% #188	0.0% #186
		-24% rel. BAU of 0 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1t #183	0.9t #188	0.8t #187

INDC: Approximately 24% emission reduction compared to BAU by 2030 subject to international support. (GWP unclear)

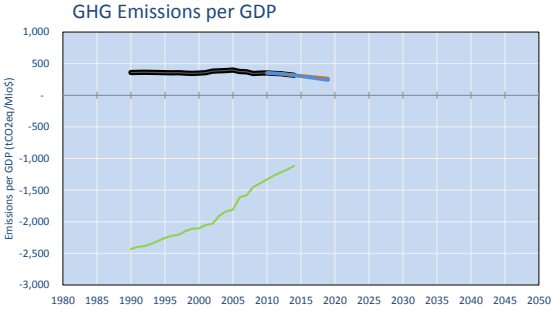
GHG Emissions



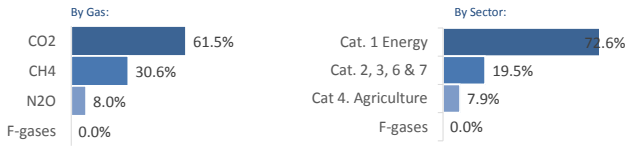
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG incl. LULUCF	- 1	- 1	- 0	- 0	- 0	- 0	- 0	- 0	- 0	- 0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	114%	154%	185%	224%	200%	245%	202%	266%	203%
Relative 2000	88%	100%	136%	163%	197%	176%	216%	177%	234%	178%
Relative 2005	65%	74%	100%	120%	145%	130%	159%	131%	173%	132%
Relative 2010	54%	61%	83%	100%	121%	108%	132%	109%	144%	110%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	0.8	0.7	0.9	1.0	1.0	0.9	0.9	0.8	0.9	0.7
Relative 1990	100%	94%	114%	123%	121%	108%	119%	98%	118%	90%
Relative 2000	106%	100%	121%	131%	128%	114%	127%	104%	125%	96%
Relative 2005	87%	82%	100%	108%	105%	94%	104%	86%	103%	79%
Relative 2010	81%	76%	93%	100%	98%	87%	97%	80%	96%	73%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

No BAU provided. Assumed as regional IPCC scenario growth.

INDC FactSheet

Saudi Arabia

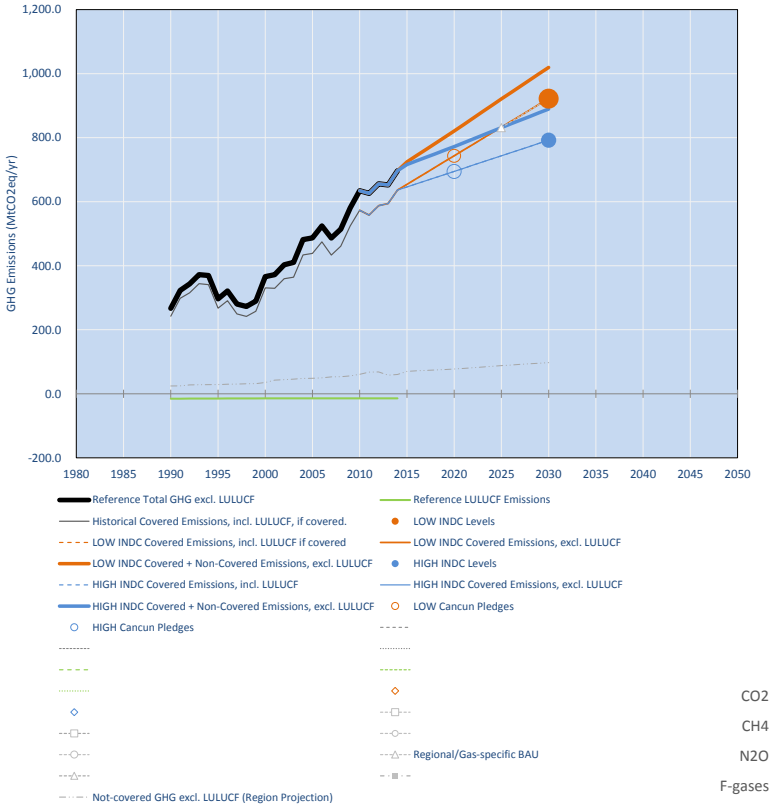
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+8%**

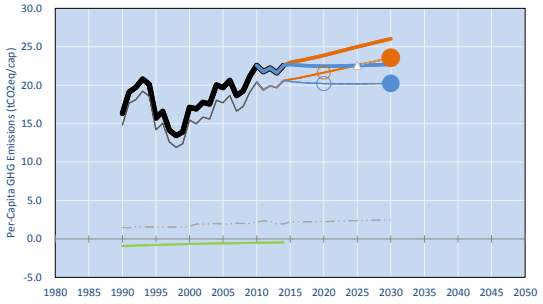
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 922 Mt	Share of World Emissions excl. LULUCF (Rank):	1.4% #14	1.6% #10	1.7% #12
		-14% rel. BAU of 922 Mt	Per-Capita Emissions (tCO2eq/cap)	22.6t #12	23.8t #9	24.4t #9

INDC: Measures to reduce emissions by up to 130 MtCO2eq by 2030 in case the continued economic growth scenario materializes. . (GWP unclear)

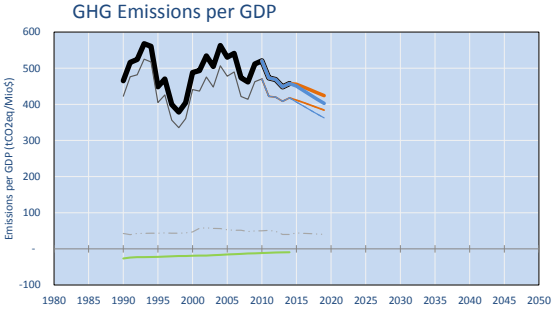
GHG Emissions



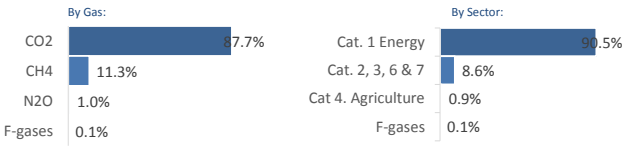
Per-Capita Emissions



GHG Emissions per GDP

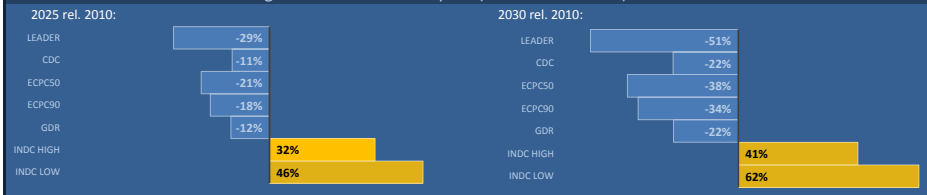


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	242	331	439	573	743	695	833	743	922	792
Total GHG excl. LULUCF	267	366	487	634	821	772	921	832	1,019	889
Total GHG incl. LULUCF	252	352	473	620	807	758	907	817	1,005	875

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	137%	182%	238%	307%	289%	345%	311%	382%	333%
Relative 2000	73%	100%	133%	173%	224%	211%	252%	227%	278%	243%
Relative 2005	55%	75%	100%	130%	169%	159%	189%	171%	209%	183%
Relative 2010	42%	58%	77%	100%	129%	122%	145%	131%	161%	140%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	16	21	25	28	34	34	37	37	39	39
Per-Capita Emissions (tCO2eq/cap)	16.3	17.1	19.7	22.6	23.9	22.5	25.0	22.6	26.0	22.7
Relative 1990	100%	105%	121%	138%	146%	138%	153%	138%	160%	139%
Relative 2000	95%	100%	115%	132%	140%	131%	146%	132%	152%	133%
Relative 2005	83%	87%	100%	115%	121%	114%	127%	115%	132%	115%
Relative 2010	72%	76%	87%	100%	106%	99%	111%	100%	115%	101%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Senegal

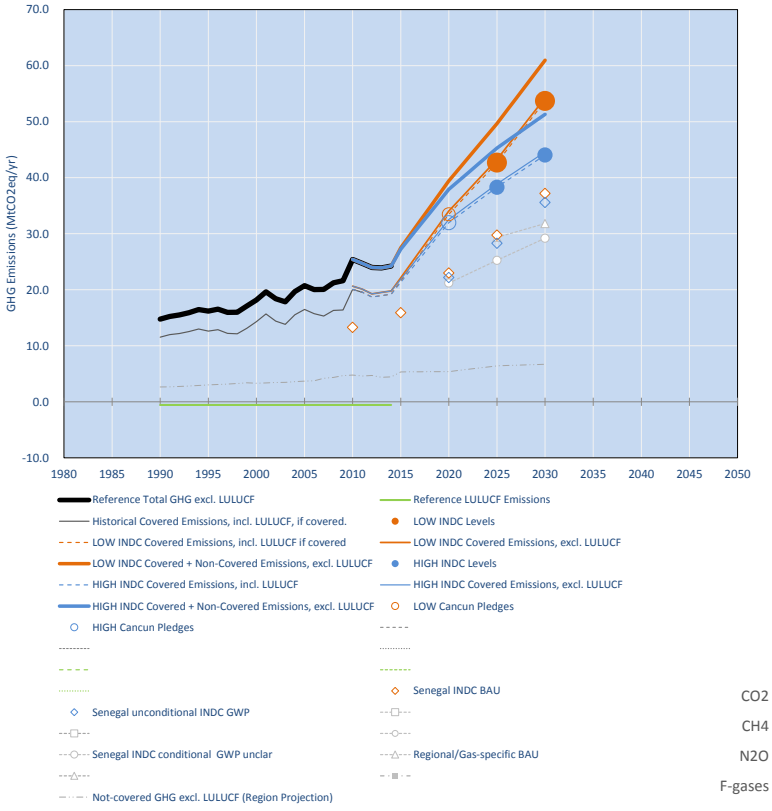
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+26%**

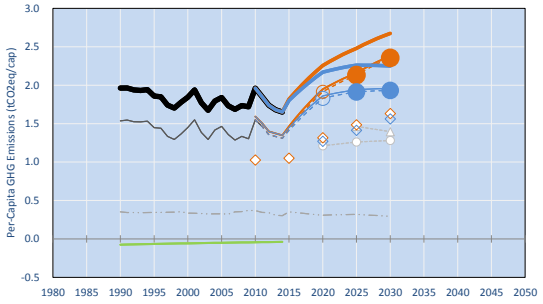
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		53.7 Mt (multiple targets) 44 Mt (Multiple targets)(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.1% #111	0.1% #92	0.1% #84
			Per-Capita Emissions (tCO2eq/cap)	2t #152	2.4t #139	2.5t #137

INDC: Implementation of specific policies and actions which are estimated to reduce GHG emissions by 4% in 2025 and 5% in 2030Conditional target: up to 15% and 21% reduction pending on international support. (IPCC 2006 Guidelines)

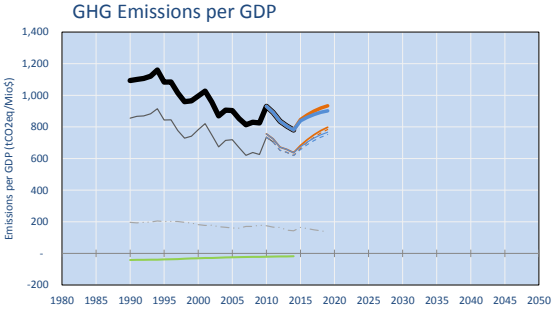
GHG Emissions



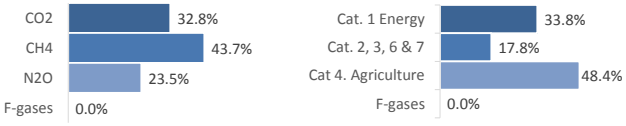
Per-Capita Emissions



GHG Emissions per GDP

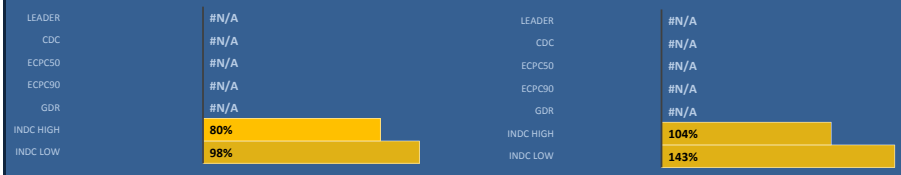


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1
INDC covered Emissions excl. LULUCF	12	15	17	21	34	33	43	39	54	45
Total GHG excl. LULUCF	15	18	21	25	39	38	50	45	61	51
Total GHG incl. LULUCF	14	18	20	25	39	37	49	45	60	51

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	123%	141%	172%	267%	257%	337%	307%	413%	348%
Relative 2000	81%	100%	114%	140%	217%	209%	273%	249%	335%	282%
Relative 2005	71%	88%	100%	122%	190%	183%	239%	218%	294%	247%
Relative 2010	58%	72%	82%	100%	155%	149%	196%	178%	240%	202%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	8	10	11	13	17	17	20	20	23	23
Per-Capita Emissions (tCO2eq/cap)	2.0	1.8	1.8	2.0	2.3	2.2	2.5	2.3	2.7	2.3
Relative 1990	100%	94%	94%	100%	115%	110%	126%	115%	136%	115%
Relative 2000	106%	100%	100%	106%	122%	118%	134%	123%	145%	122%
Relative 2005	107%	100%	100%	107%	123%	118%	135%	123%	145%	122%
Relative 2010	100%	94%	94%	100%	115%	111%	126%	115%	136%	115%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

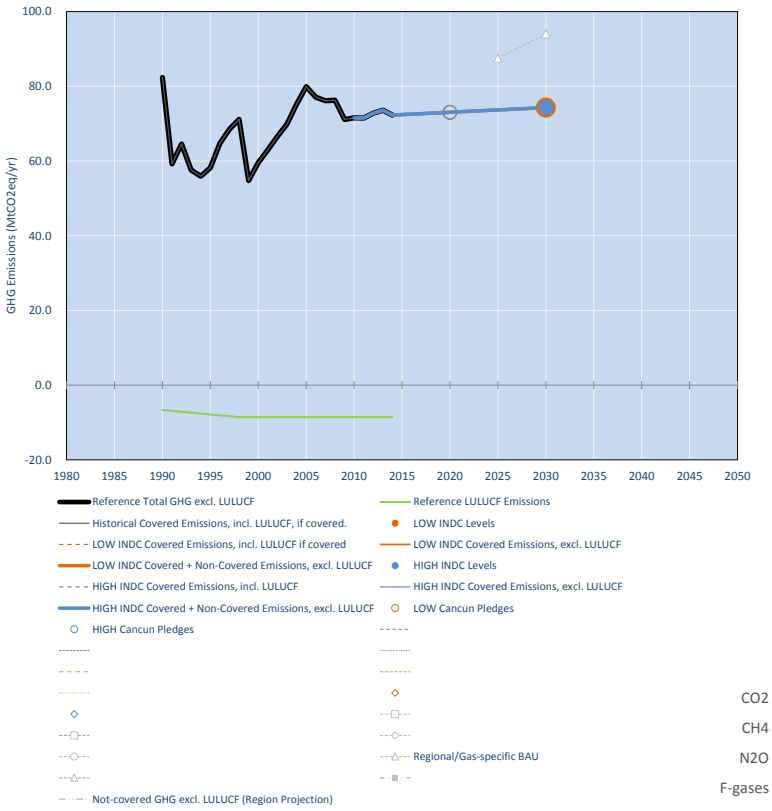
Serbia

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +14%

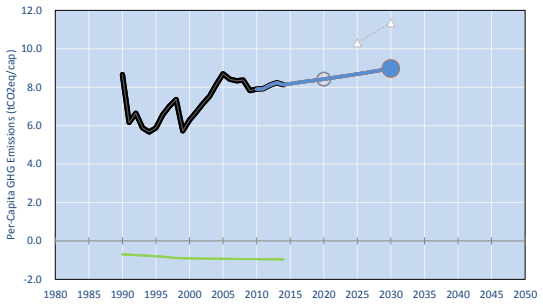
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-10% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.2% #68	0.1% #72	0.1% #75
			Per-Capita Emissions (tCO2eq/cap)	7.9t #59	8.7t #47	9t #39

INDC: GHG emission reduction by 9,8% until 2030 compared to base-year (1990) emsissions. (GWP AR4)

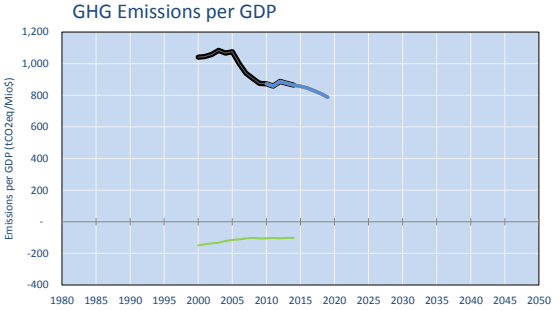
GHG Emissions



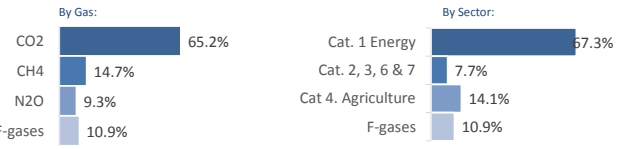
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -14%; CDC:-24%; ECPC50:9%; ECPC90:-17%; GDR:-32% — 2030 rel. 1990 INDC: -13%; CDC:-35%; ECPC50:2%; ECPC90:-25%; GDR:-38%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	82	60	80	72	73	73	74	74	74	74
Total GHG excl. LULUCF	82	60	80	72	73	73	74	74	74	74
Total GHG incl. LULUCF	76	51	71	63	64	64	65	65	66	66

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	72%	97%	87%	89%	89%	89%	89%	90%	90%
Relative 2000	138%	100%	134%	120%	123%	123%	124%	124%	125%	125%
Relative 2005	103%	75%	100%	90%	91%	91%	92%	92%	93%	93%
Relative 2010	115%	83%	112%	100%	102%	102%	103%	103%	104%	104%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	9	9	9	9	9	8	8	8	8
Per-Capita Emissions (tCO2eq/cap)	8.7	6.3	8.7	7.9	8.4	8.4	8.7	8.7	9.0	9.0
Relative 1990	100%	73%	100%	91%	97%	97%	100%	100%	104%	104%
Relative 2000	138%	100%	138%	126%	134%	134%	138%	138%	143%	143%
Relative 2005	100%	72%	100%	91%	97%	97%	100%	100%	103%	103%
Relative 2010	110%	80%	110%	100%	107%	107%	110%	110%	114%	114%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	UNFCCC CRF & Nat. Comm	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	UNFCCC CRF & Nat. Comm	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	UNFCCC CRF & Nat. Comm.	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	UNFCCC CRF & Nat. Comm.	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

There seems inconsistency in 2030 INDC between 29% / 188kt reduction from 911 kt

INDC FactSheet

Seychelles

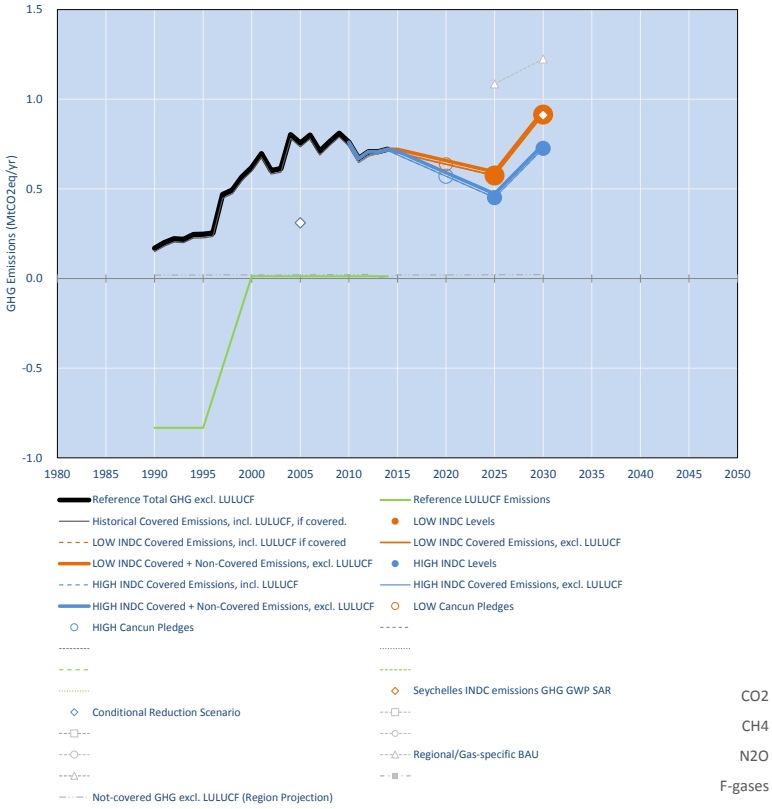
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+2%**

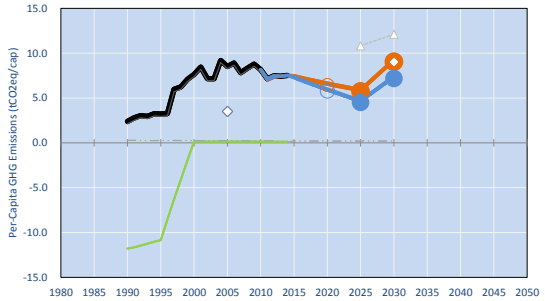
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	0% rel. BAU of 0.6 Mt	0% rel. BAU of 1 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #174	0.0% #179	0.0% #176
	-21% rel. BAU of 0.6 Mt	-21% rel. BAU of 1 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	8.2t #56	5.3t #89	8.3t #44

INDC: Economy-wide GHG emission reduction by 122.5 ktCO2eq (21.4%) in 2025 and approximately 188 ktCO2eq (29%) in 2030 relative to BAU. (GWP SAR)

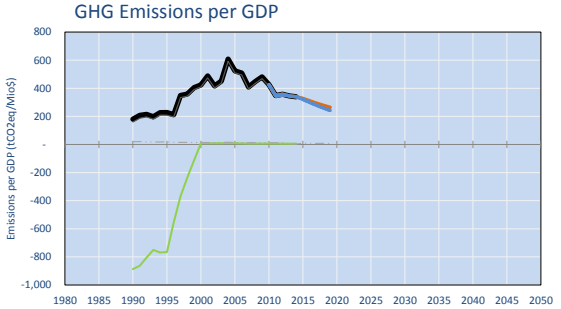
GHG Emissions



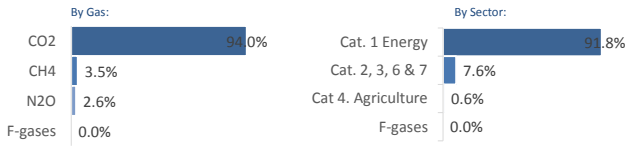
Per-Capita Emissions



GHG Emissions per GDP

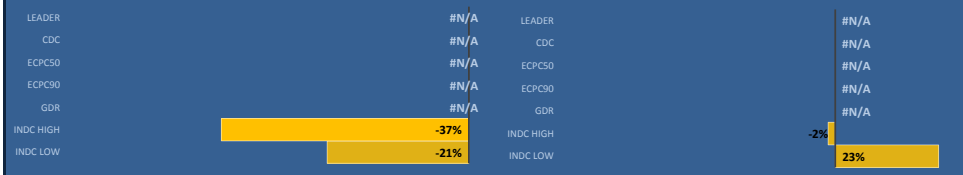


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	1	1	1	1	1	1	0	1	1
Total GHG excl. LULUCF	0	1	1	1	1	1	1	0	1	1
Total GHG incl. LULUCF	- 1	1	1	1	1	1	1	0	1	1

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	367%	447%	450%	389%	349%	352%	279%	554%	442%
Relative 2000	27%	100%	122%	123%	106%	95%	96%	76%	151%	121%
Relative 2005	22%	82%	100%	101%	87%	78%	79%	63%	124%	99%
Relative 2010	22%	82%	99%	100%	87%	78%	78%	62%	123%	98%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	2.4	7.6	8.5	8.2	6.7	6.0	5.9	4.7	9.3	7.4
Relative 1990	100%	319%	355%	341%	278%	250%	248%	197%	387%	309%
Relative 2000	31%	100%	111%	107%	87%	78%	78%	62%	121%	97%
Relative 2005	28%	90%	100%	96%	78%	70%	70%	55%	109%	87%
Relative 2010	29%	94%	104%	100%	82%	73%	73%	58%	113%	91%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

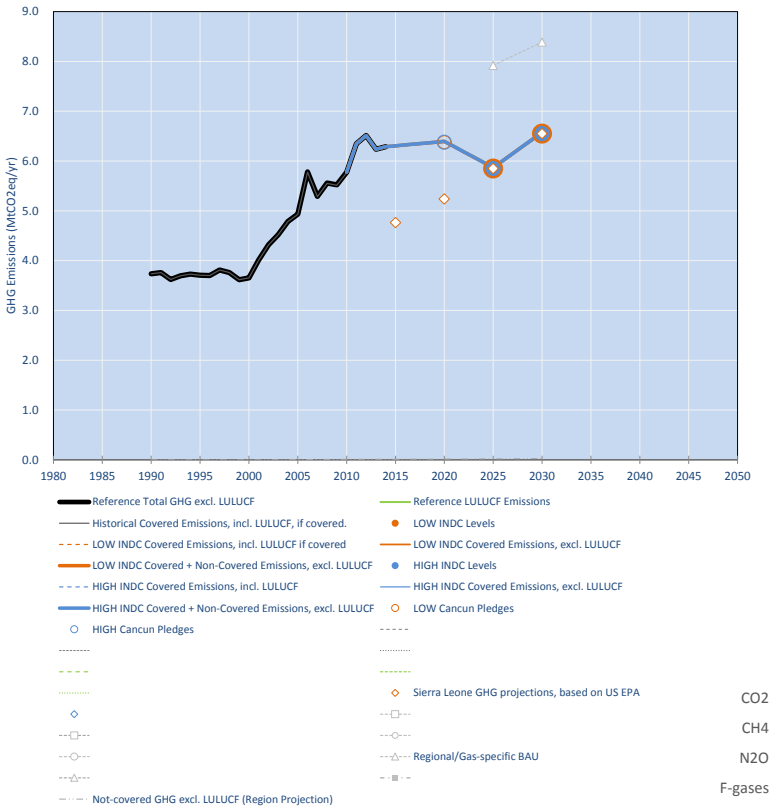
Sierra Leone

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-24%**

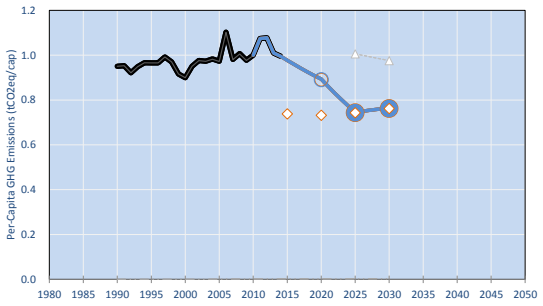
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		6.6 Mt (Policies and Measures)	Share of World Emissions excl. LULUCF (Rank):	0.0% #152	0.0% #154	0.0% #154
			Per-Capita Emissions (tCO2eq/cap)	1t #182	0.7t #190	0.8t #189

INDC: Committed to implementing specific emission reduction actions such as advancing feed-in tariff for renewable energy technologies, phasing out fossil fuel subsidies and converting to no-tillage agricultural practices pending on international support. (GWP SAR)

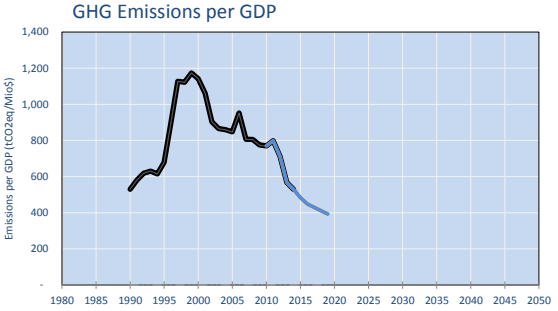
GHG Emissions



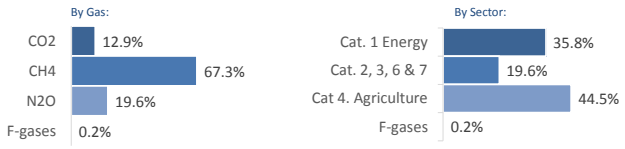
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	2%	14%
INDC LOW	2%	14%

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	4	4	5	6	6	6	6	6	7	7
Total GHG excl. LULUCF	4	4	5	6	6	6	6	6	7	7
Total GHG incl. LULUCF	4	4	5	6	6	6	6	6	7	7

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	98%	132%	155%	171%	171%	157%	157%	176%	176%
Relative 2000	102%	100%	135%	158%	175%	175%	161%	161%	180%	180%
Relative 2005	76%	74%	100%	117%	130%	130%	119%	119%	133%	133%
Relative 2010	65%	63%	85%	100%	111%	111%	102%	102%	114%	114%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	4	5	6	7	7	8	8	9	9
Per-Capita Emissions (tCO2eq/cap)	1.0	0.9	1.0	1.0	0.9	0.9	0.7	0.7	0.8	0.8
Relative 1990	100%	95%	102%	105%	94%	94%	78%	78%	81%	81%
Relative 2000	106%	100%	108%	111%	99%	99%	83%	83%	85%	85%
Relative 2005	98%	92%	100%	103%	92%	92%	77%	77%	79%	79%
Relative 2010	95%	90%	97%	100%	89%	89%	75%	75%	76%	76%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
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Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
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PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Low and High INDC reflect low and high GDP growth.

INDC FactSheet

Singapore

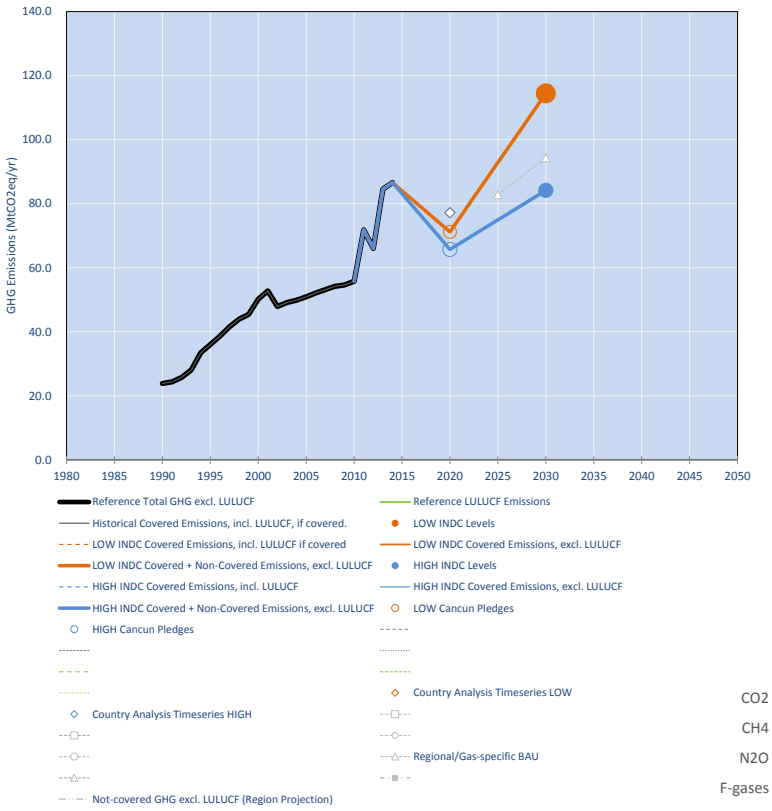
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +41%

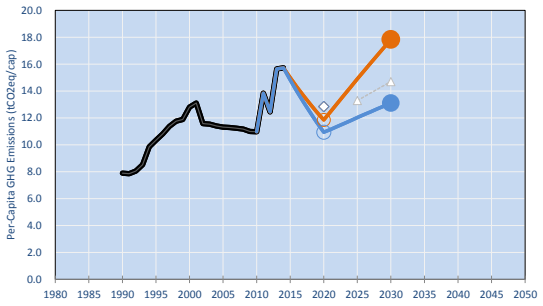
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-9% rel. BAU of 77.2		-36% Intensity Target rel. 2005	Share of World Emissions excl. LULUCF (Rank):	0.1% #80	0.2% #65	0.2% #62
-16% rel. BAU of 77.2		-36% Intensity Target rel. 2005	Per-Capita Emissions (tCO2eq/cap)	11t #31	13.5t #21	15.5t #15

INDC: Reduce its emissions intensity by 36% from 2005 levels by 2030 and stabilise its emissions with the aim of peaking around 2030. (GWP SAR)

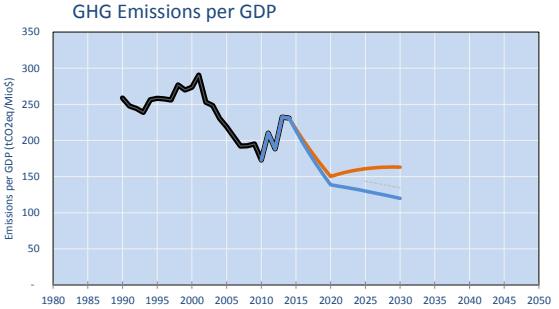
GHG Emissions



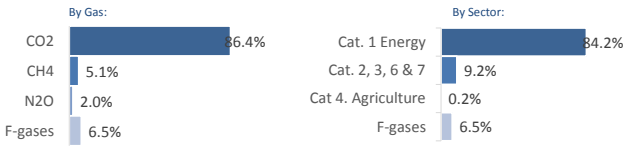
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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Shown fair contributinos only indicative

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GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	24	50	51	56	71	66	93	75	114	84
Total GHG excl. LULUCF	24	50	51	56	71	66	93	75	114	84
Total GHG incl. LULUCF	24	50	51	56	71	66	93	75	114	84

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	210%	214%	234%	299%	276%	390%	314%	480%	353%
Relative 2000	48%	100%	101%	111%	142%	131%	185%	149%	228%	168%
Relative 2005	47%	99%	100%	110%	140%	129%	182%	147%	225%	165%
Relative 2010	43%	90%	91%	100%	128%	118%	167%	134%	205%	151%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	4	4	5	6	6	6	6	6	6
Per-Capita Emissions (tCO2eq/cap)	7.9	12.8	11.3	11.0	11.9	10.9	14.9	12.0	17.8	13.1
Relative 1990	100%	162%	143%	139%	150%	138%	189%	152%	226%	166%
Relative 2000	62%	100%	88%	86%	93%	85%	116%	94%	139%	102%
Relative 2005	70%	113%	100%	97%	105%	97%	132%	106%	158%	116%
Relative 2010	72%	117%	103%	100%	108%	100%	136%	110%	163%	119%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	COUNTRY-SPECIFIC USER DATA
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
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PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

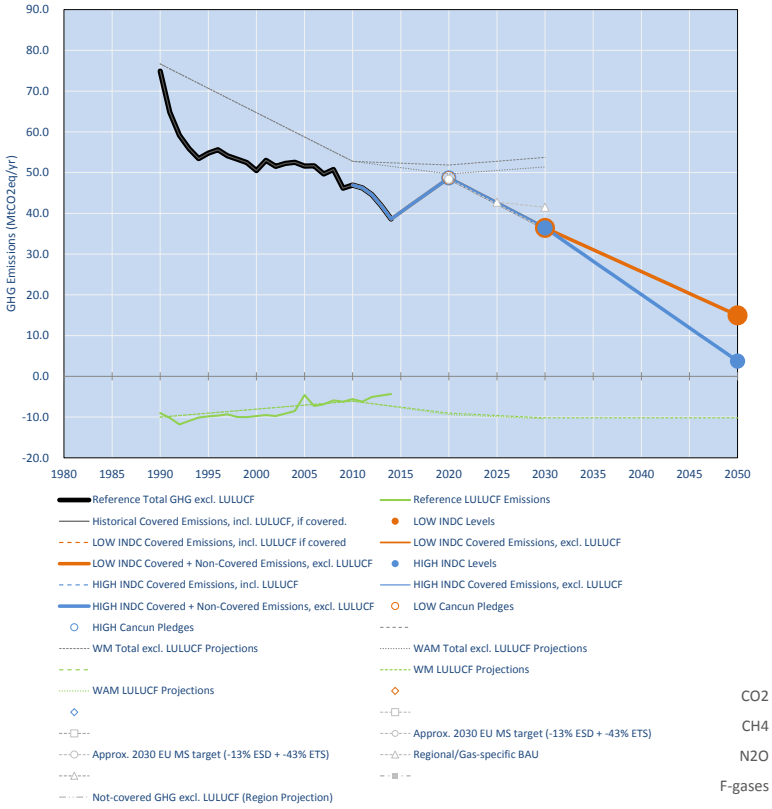
INDC FactSheet

Slovakia

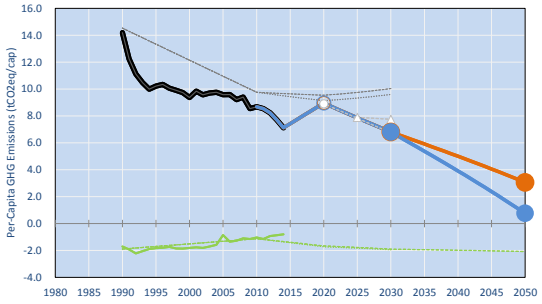
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -22%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.1% #84	0.1% #99	0.1% #106
			Per-Capita Emissions (tCO2eq/cap)	8.7t #50	7.9t #56	6.8t #64

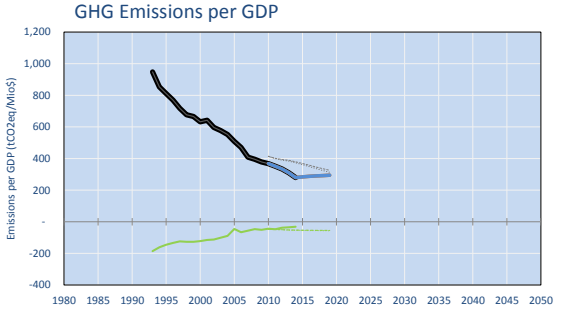
GHG Emissions



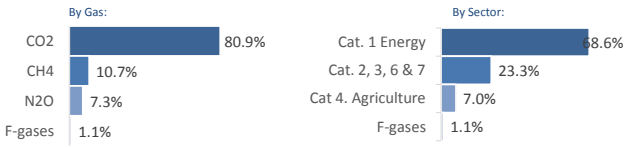
Per-Capita Emissions



GHG Emissions per GDP

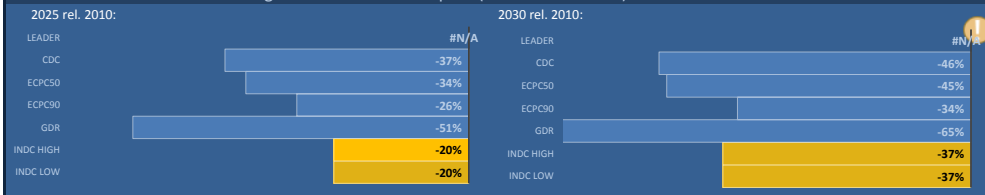


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 0	- 0	- 0	- 0	- 0	- 0
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	75	50	52	47	49	49	43	43	36	36
Total GHG excl. LULUCF	75	50	52	47	49	49	43	43	36	36
Total GHG incl. LULUCF	66	41	47	41	40	40	33	33	26	26

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	67%	69%	63%	65%	65%	57%	57%	49%	49%
Relative 2000	148%	100%	102%	93%	96%	96%	84%	84%	72%	72%
Relative 2005	145%	98%	100%	91%	94%	94%	83%	83%	71%	71%
Relative 2010	160%	108%	110%	100%	104%	104%	91%	91%	78%	78%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	5	5	5	5	5	5	5	5	5
Per-Capita Emissions (tCO2eq/cap)	14.2	9.4	9.6	8.7	9.0	9.0	7.9	7.9	6.8	6.8
Relative 1990	100%	66%	67%	61%	63%	63%	55%	55%	48%	48%
Relative 2000	151%	100%	102%	93%	96%	96%	84%	84%	73%	73%
Relative 2005	148%	98%	100%	91%	94%	94%	82%	82%	71%	71%
Relative 2010	164%	108%	110%	100%	103%	103%	91%	91%	78%	78%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

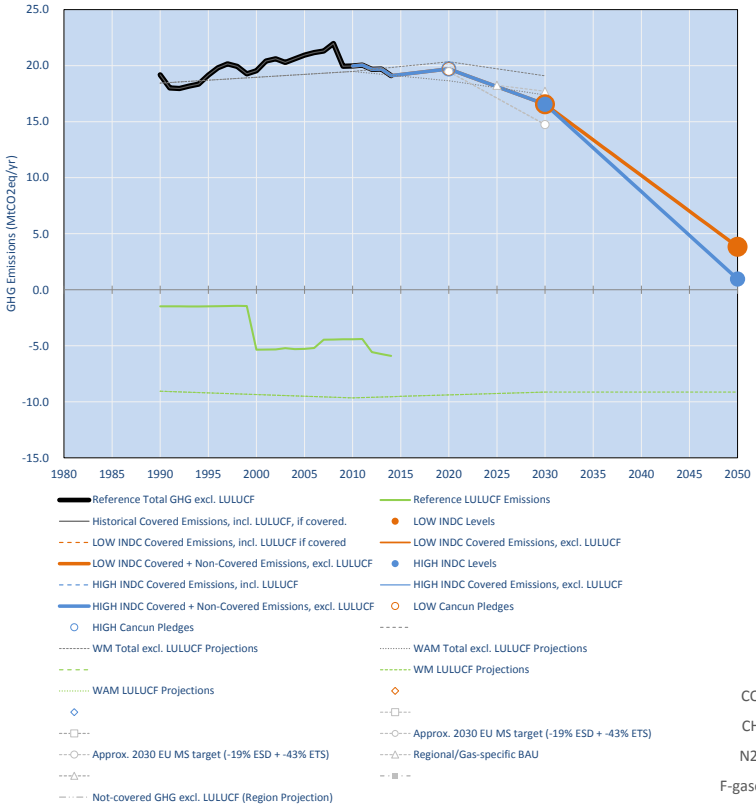
INDC FactSheet

Slovenia

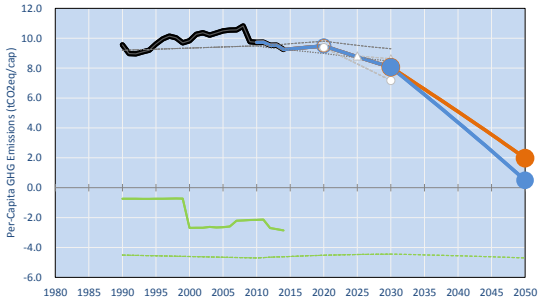
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -17%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.0% #119	0.0% #128	0.0% #135
			Per-Capita Emissions (tCO2eq/cap)	9.7t #44	8.8t #45	8.1t #47

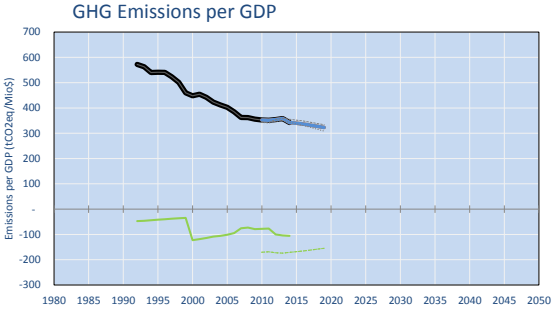
GHG Emissions



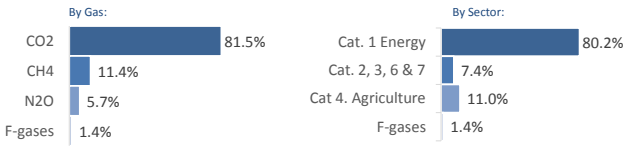
Per-Capita Emissions



GHG Emissions per GDP

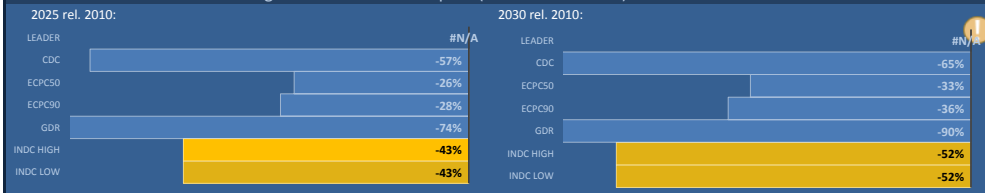


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 0	- 0	- 2	- 2	- 2	- 2
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	19	20	21	20	20	20	18	18	17	17
Total GHG excl. LULUCF	19	20	21	20	20	20	18	18	17	17
Total GHG incl. LULUCF	18	14	16	16	10	10	9	9	7	7

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	102%	109%	104%	103%	103%	94%	94%	86%	86%
Relative 2000	98%	100%	107%	102%	101%	101%	93%	93%	85%	85%
Relative 2005	92%	93%	100%	95%	94%	94%	87%	87%	79%	79%
Relative 2010	96%	98%	105%	100%	99%	99%	91%	91%	83%	83%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	2	2	2	2	2	2	2	2	2
Per-Capita Emissions (tCO2eq/cap)	9.6	9.8	10.5	9.7	9.5	9.5	8.8	8.8	8.1	8.1
Relative 1990	100%	103%	110%	102%	99%	99%	92%	92%	84%	84%
Relative 2000	97%	100%	107%	99%	97%	97%	89%	89%	82%	82%
Relative 2005	91%	94%	100%	93%	91%	91%	83%	83%	77%	77%
Relative 2010	98%	101%	108%	100%	98%	98%	90%	90%	83%	83%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

BAU derived from percentage and absolute reductions. Seems inconsistent with Nat. Comm. historical data. Factor 10x applied.

INDC FactSheet

Solomon Islands

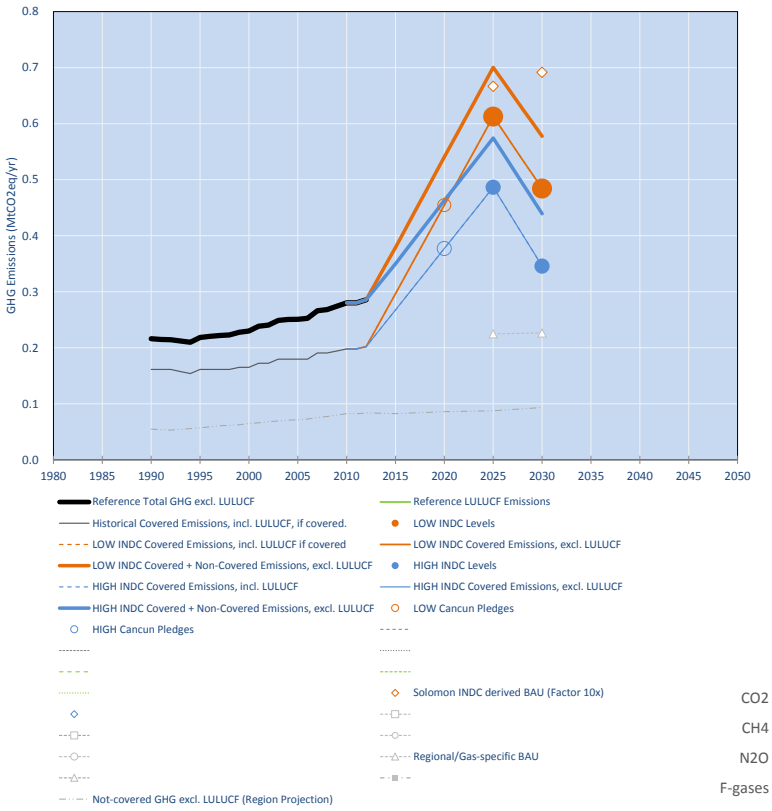
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+26%**

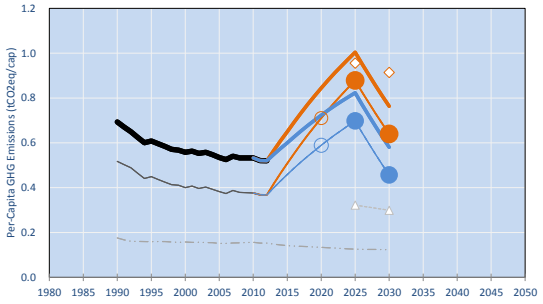
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	-12% rel. BAU of 0.7 Mt -27% rel. BAU of 0.7 Mt(cond.)	-30% rel. BAU of 1 Mt -50% rel. BAU of 1 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.0% #182	0.0% #178	0.0% #179
			Per-Capita Emissions (tCO2eq/cap)	0.5t #194	0.9t #186	0.7t #192

INDC: 12% GHG emissions reduction below 2015 levels by 2025 and 30% reduction below 2015 levels by 2030Conditional target of 27% and 45% and 50% by 2050 subject to international assistance. (n/a (CO2 only))

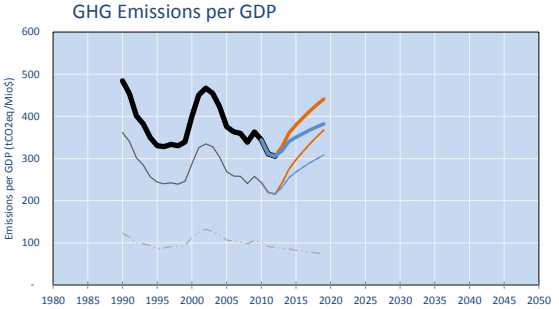
GHG Emissions



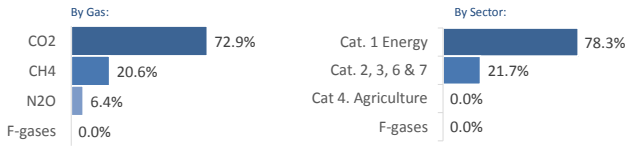
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	1	0	0	0
Total GHG excl. LULUCF	0	0	0	0	1	0	1	1	1	0
Total GHG incl. LULUCF	0	0	0	0	1	0	1	1	1	0

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	106%	116%	130%	250%	214%	324%	266%	267%	203%
Relative 2000	94%	100%	109%	122%	235%	201%	304%	250%	251%	191%
Relative 2005	86%	92%	100%	112%	215%	185%	279%	229%	230%	175%
Relative 2010	77%	82%	90%	100%	193%	165%	250%	205%	206%	157%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	0.7	0.6	0.5	0.5	0.8	0.7	1.0	0.8	0.8	0.6
Relative 1990	100%	80%	77%	77%	122%	104%	145%	119%	110%	84%
Relative 2000	124%	100%	96%	95%	151%	130%	180%	148%	137%	104%
Relative 2005	130%	104%	100%	100%	158%	135%	188%	154%	143%	109%
Relative 2010	130%	105%	100%	100%	159%	136%	188%	155%	143%	109%

a project with PRIMAP at PIK:

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

South Africa

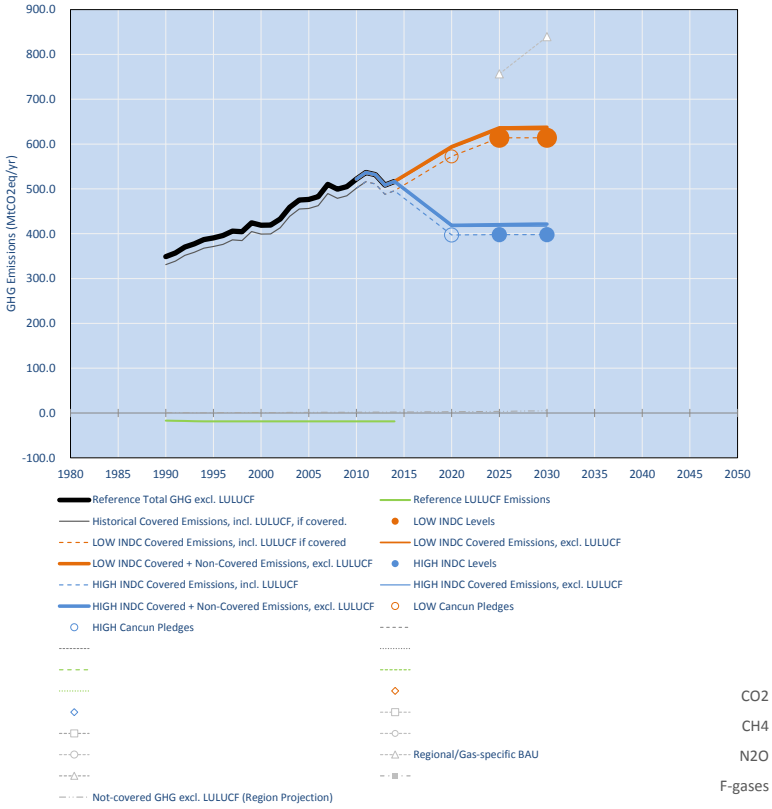
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -13%

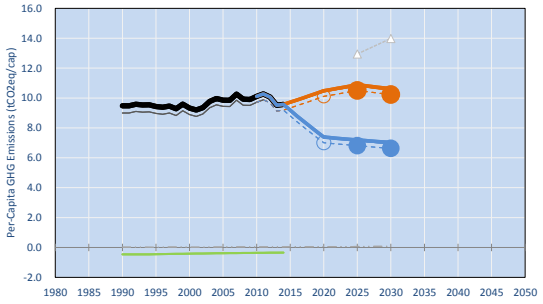
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
73% rel. 1990		614 Mt (Peak Plateau and Decline)	Share of World Emissions excl. LULUCF (Rank):	1.1% #19	1.0% #20	0.9% #20
20% rel. 1990		398 Mt (Peak, Plateau and Decline)(cond.)	Per-Capita Emissions (tCO2eq/cap)	10.1t #39	9t #41	8.8t #41

INDC: Peak, plateau and decline GHG emissions trajectory range, which will be between 398 and 614 Mt CO2–eq in 2030. Peaking year will be between 2020 and 2025. (GWP AR4)

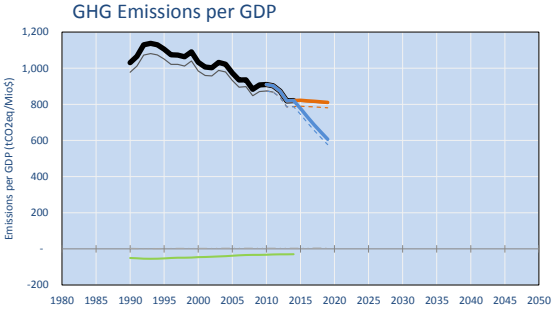
GHG Emissions



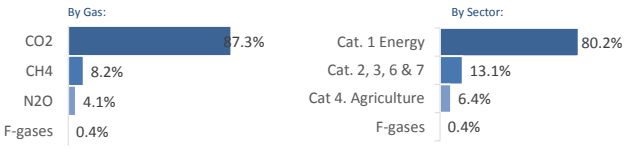
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 17	- 19	- 19	- 19	- 19	- 19	- 19	- 19	- 19	- 19
INDC covered Emissions excl. LULUCF	348	418	475	520	591	416	633	417	633	417
Total GHG excl. LULUCF	349	419	476	522	594	419	636	420	638	422
Total GHG incl. LULUCF	332	400	458	503	576	400	618	402	619	403

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	120%	137%	150%	170%	120%	182%	120%	183%	121%
Relative 2000	83%	100%	114%	125%	142%	100%	152%	100%	152%	101%
Relative 2005	73%	88%	100%	110%	125%	88%	134%	88%	134%	88%
Relative 2010	67%	80%	91%	100%	114%	80%	122%	81%	122%	81%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	37	45	48	52	57	57	58	58	60	60
Per-Capita Emissions (tCO2eq/cap)	9.5	9.3	9.9	10.1	10.5	7.4	10.9	7.2	10.6	7.0
Relative 1990	100%	98%	104%	107%	111%	78%	115%	76%	112%	74%
Relative 2000	102%	100%	106%	108%	112%	79%	117%	77%	114%	75%
Relative 2005	96%	95%	100%	103%	106%	75%	110%	73%	108%	71%
Relative 2010	94%	92%	97%	100%	104%	73%	108%	71%	105%	69%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

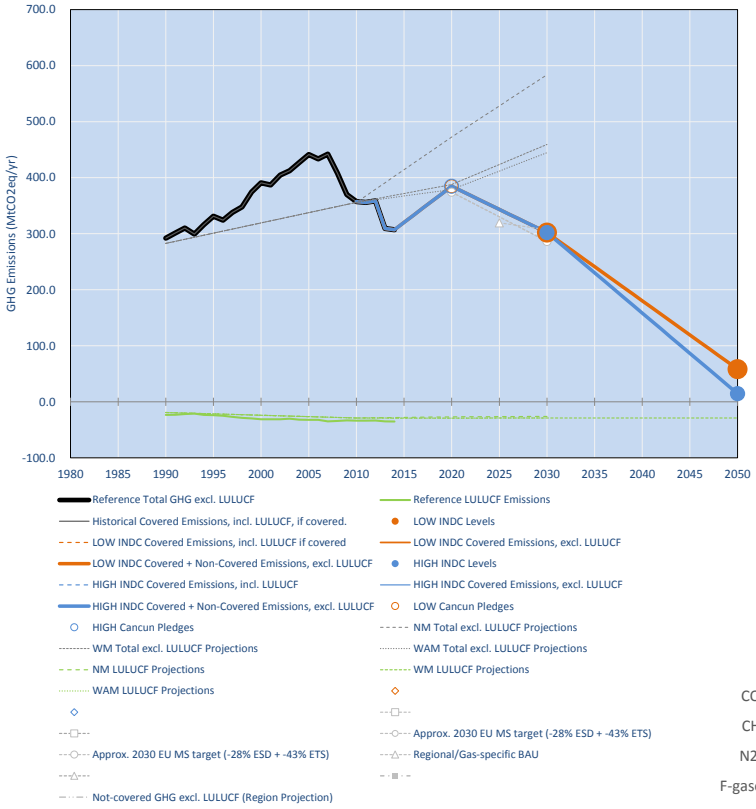
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Spain

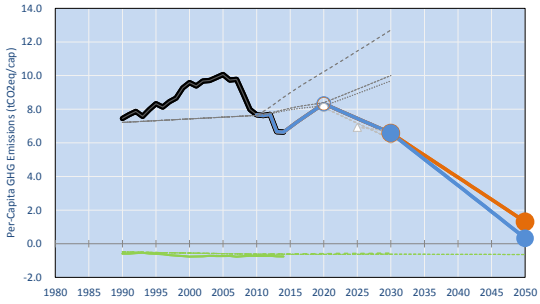
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -14%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.8% #27	0.6% #32	0.5% #33
			Per-Capita Emissions (tCO2eq/cap)	7.7t #61	7.5t #60	6.6t #67

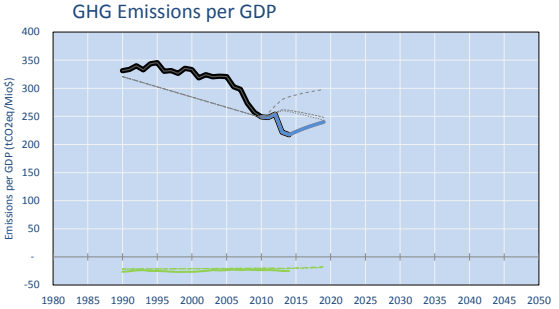
GHG Emissions



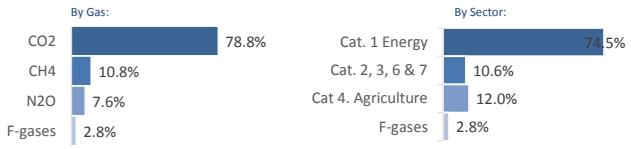
Per-Capita Emissions



GHG Emissions per GDP

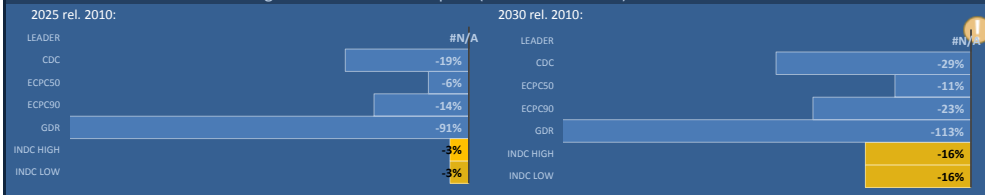


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
(MtCO2eq/yr in GWP AR4)										
Assumed LULUCF Accounting Credits (-)/Debits (+)					-11	-11	-16	-16	-16	-16
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	292	391	441	357	385	385	343	343	302	302
Total GHG excl. LULUCF	292	391	441	357	385	385	343	343	302	302
Total GHG incl. LULUCF	269	360	409	324	356	356	314	314	273	273

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	134%	151%	122%	132%	132%	118%	118%	103%	103%
Relative 2000	75%	100%	113%	91%	98%	98%	88%	88%	77%	77%
Relative 2005	66%	89%	100%	81%	87%	87%	78%	78%	68%	68%
Relative 2010	82%	109%	124%	100%	108%	108%	96%	96%	85%	85%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	39	41	44	47	46	46	46	46	46	46
Per-Capita Emissions (tCO2eq/cap)	7.5	9.6	10.1	7.7	8.3	8.3	7.5	7.5	6.6	6.6
Relative 1990	100%	129%	135%	103%	112%	112%	100%	100%	88%	88%
Relative 2000	78%	100%	105%	80%	87%	87%	78%	78%	69%	69%
Relative 2005	74%	95%	100%	76%	83%	83%	74%	74%	65%	65%
Relative 2010	97%	125%	131%	100%	109%	109%	97%	97%	86%	86%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

BAU not specified. Here IPCC AR5 scenario for region. Mismatch in historical stated per-capita emissions.

INDC FactSheet

Sri Lanka

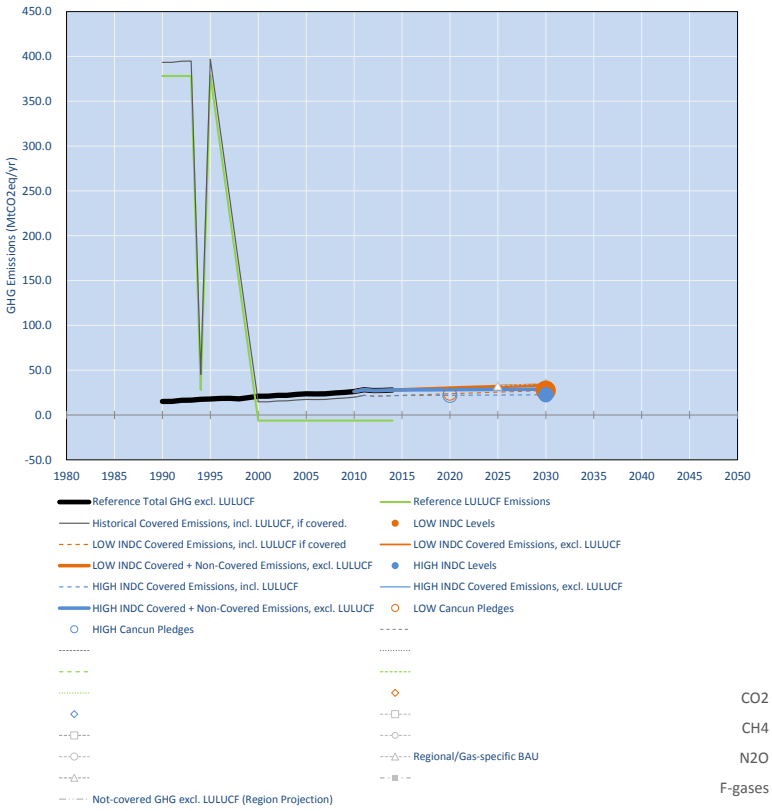
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +12%

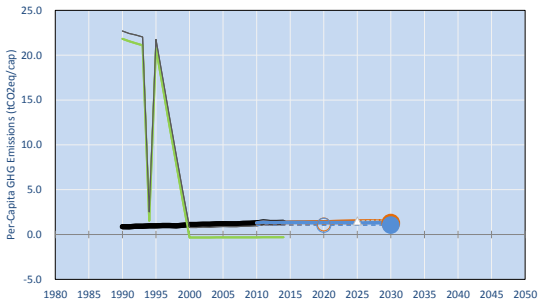
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-7% rel. BAU of 29 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #108	0.1% #115	0.1% #115
		-23% rel. BAU of 29 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.3t #175	1.4t #170	1.4t #171

INDC: Unconditional reduction of 7% below BAU by 2030 and conditionally 23% reduction. . (GWP unclear)

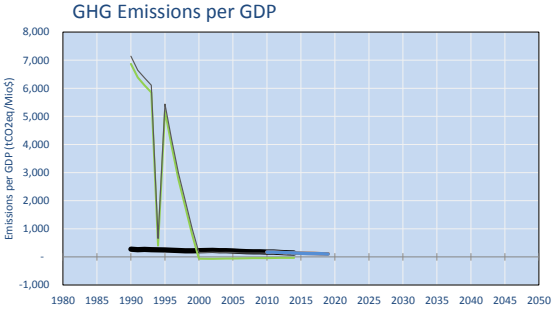
GHG Emissions



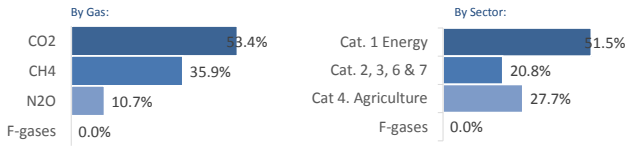
Per-Capita Emissions



GHG Emissions per GDP

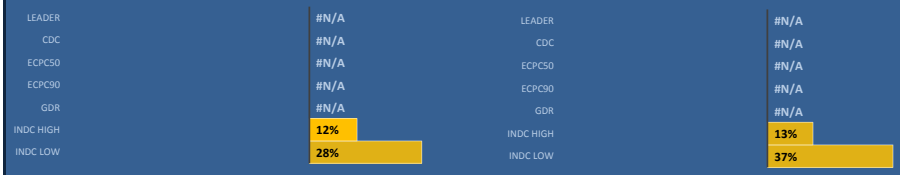


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	378	6	6	6	6	6	6	6	6	6
INDC covered Emissions excl. LULUCF	15	21	24	26	30	28	32	29	34	29
Total GHG excl. LULUCF	15	21	24	26	30	28	32	29	34	29
Total GHG incl. LULUCF	393	15	17	20	24	22	26	22	27	23

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	139%	156%	173%	199%	187%	210%	189%	222%	191%
Relative 2000	72%	100%	112%	125%	143%	135%	151%	136%	160%	137%
Relative 2005	64%	89%	100%	111%	127%	120%	135%	121%	142%	122%
Relative 2010	58%	80%	90%	100%	115%	108%	121%	109%	128%	110%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	17	19	20	20	21	21	21	21	22	22
Per-Capita Emissions (tCO2eq/cap)	0.9	1.1	1.2	1.3	1.4	1.3	1.5	1.3	1.6	1.3
Relative 1990	100%	128%	139%	148%	163%	153%	170%	153%	179%	154%
Relative 2000	78%	100%	108%	116%	127%	119%	133%	119%	139%	120%
Relative 2005	72%	92%	100%	107%	117%	110%	123%	110%	129%	111%
Relative 2010	67%	86%	93%	100%	110%	103%	115%	103%	120%	103%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Large hist. Data discrepancy. No provided BAU. Given 2025 to 2030 implementation timeframe, stabilisation at 2025 BAU assmd. in cond. case.

INDC FactSheet

Sudan

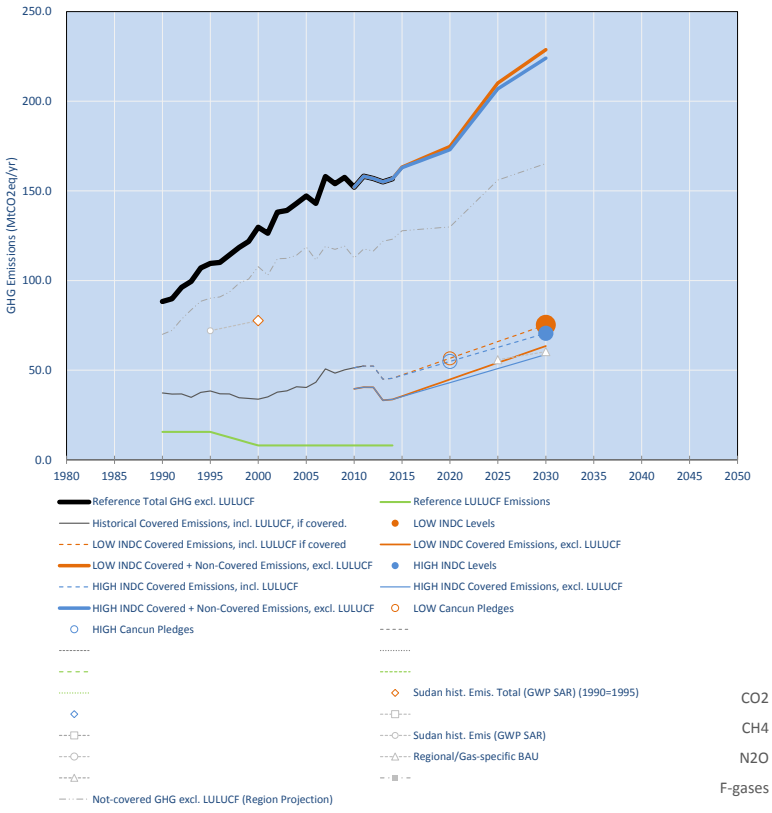
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-16%**

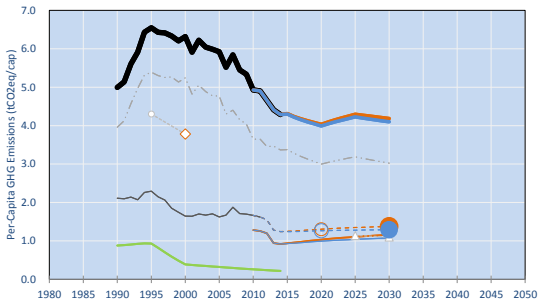
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 72 Mt	Share of World Emissions excl. LULUCF (Rank):	0.3% #42	0.4% #41	0.4% #42
		-6% rel. BAU of 72 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	4.9t #92	4.3t #106	4.1t #106

INDC: A number of policies and measures is proposed for energy, forestry and waste sector with timeframe 2025 to 2030. (GWP SAR)

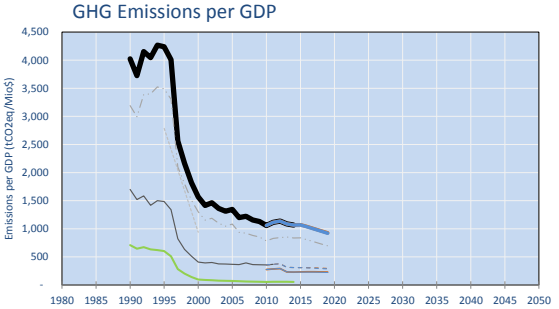
GHG Emissions



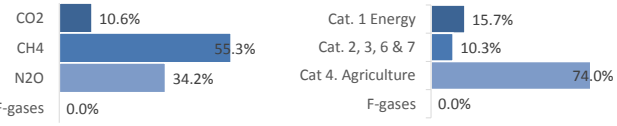
Per-Capita Emissions



GHG Emissions per GDP

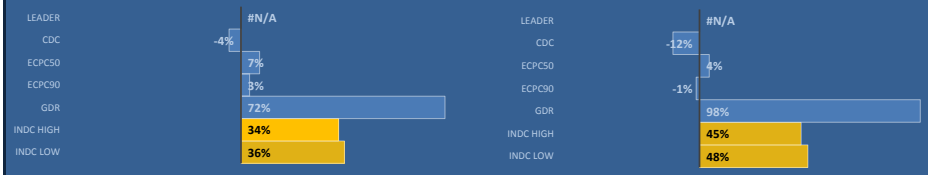


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	19	12	12	12	12	12	12	12	12	12
INDC covered Emissions excl. LULUCF	18	22	29	40	45	43	54	51	63	59
Total GHG excl. LULUCF	88	130	147	152	175	173	210	207	229	224
Total GHG incl. LULUCF	104	138	155	160	183	181	218	215	237	232

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	147%	167%	172%	198%	196%	238%	234%	259%	254%
Relative 2000	68%	100%	113%	117%	135%	133%	162%	160%	176%	173%
Relative 2005	60%	88%	100%	103%	119%	118%	143%	141%	155%	152%
Relative 2010	58%	85%	97%	100%	115%	114%	138%	136%	150%	147%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	18	21	25	31	43	43	49	49	55	55
Per-Capita Emissions (tCO2eq/cap)	5.0	6.3	5.9	4.9	4.0	4.0	4.3	4.2	4.2	4.1
Relative 1990	100%	126%	119%	99%	81%	80%	86%	85%	84%	82%
Relative 2000	79%	100%	94%	78%	64%	63%	68%	67%	66%	65%
Relative 2005	84%	107%	100%	83%	68%	67%	73%	71%	71%	69%
Relative 2010	101%	128%	120%	100%	82%	81%	87%	86%	85%	83%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	COUNTRY-SPECIFIC USER DATA
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Policies and measures not quantified. BAU assumed.

INDC FactSheet

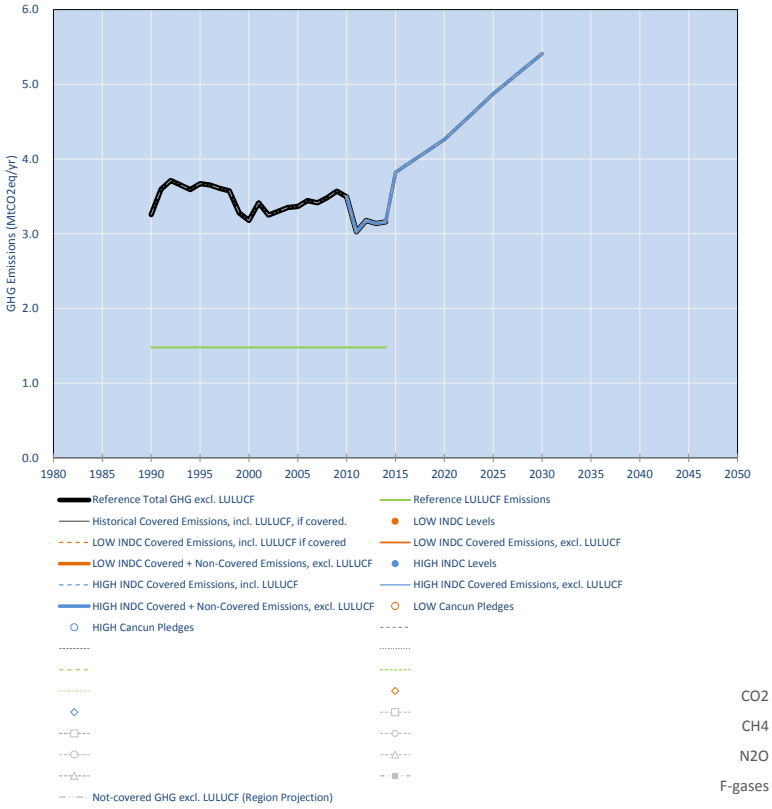
Suriname

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +34%

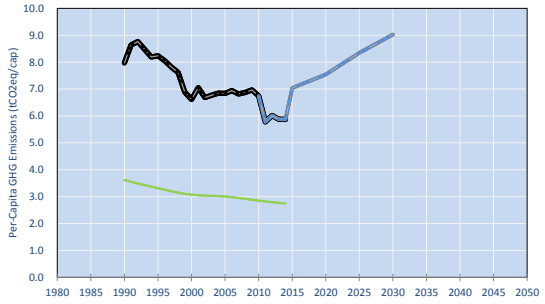
Cancun 2020 | INDC 2025 | INDC 2030

	2010	World Rank	2025	World Rank	2030	World Rank
Share of World Emissions excl. LULUCF (Rank):	0.0%	#160	0.0%	#158	0.0%	#158
Per-Capita Emissions (tCO2eq/cap)	6.7t	#73	8.3t	#49	9t	#38

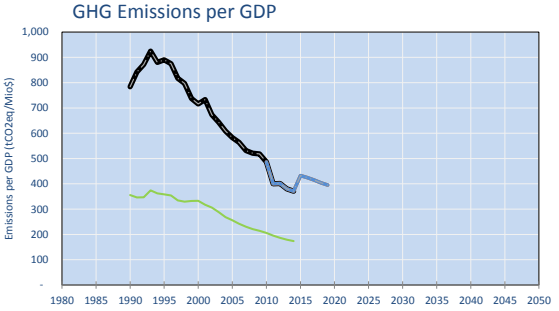
GHG Emissions



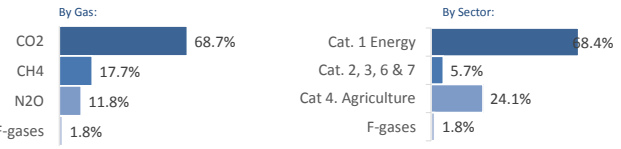
Per-Capita Emissions



GHG Emissions per GDP

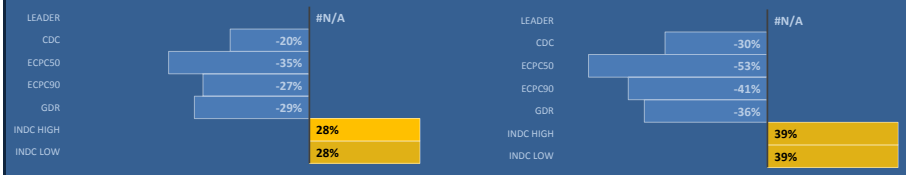


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	-	-	-	-	-	-	-	-	-	-
Total GHG excl. LULUCF	3	3	3	3	4	4	5	5	5	5
Total GHG incl. LULUCF	5	5	5	5	6	6	6	6	7	7

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	98%	103%	107%	131%	131%	150%	150%	166%	166%
Relative 2000	102%	100%	106%	110%	134%	134%	153%	153%	170%	170%
Relative 2005	97%	94%	100%	104%	127%	127%	145%	145%	161%	161%
Relative 2010	93%	91%	96%	100%	122%	122%	139%	139%	155%	155%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	0	0	0	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	8.0	6.6	6.8	6.7	7.5	7.5	8.3	8.3	9.0	9.0
Relative 1990	100%	83%	86%	85%	95%	95%	105%	105%	113%	113%
Relative 2000	121%	100%	103%	102%	114%	114%	126%	126%	137%	137%
Relative 2005	117%	97%	100%	99%	110%	110%	122%	122%	132%	132%
Relative 2010	118%	98%	101%	100%	112%	112%	124%	124%	134%	134%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC cannot be quantified.

INDC FactSheet

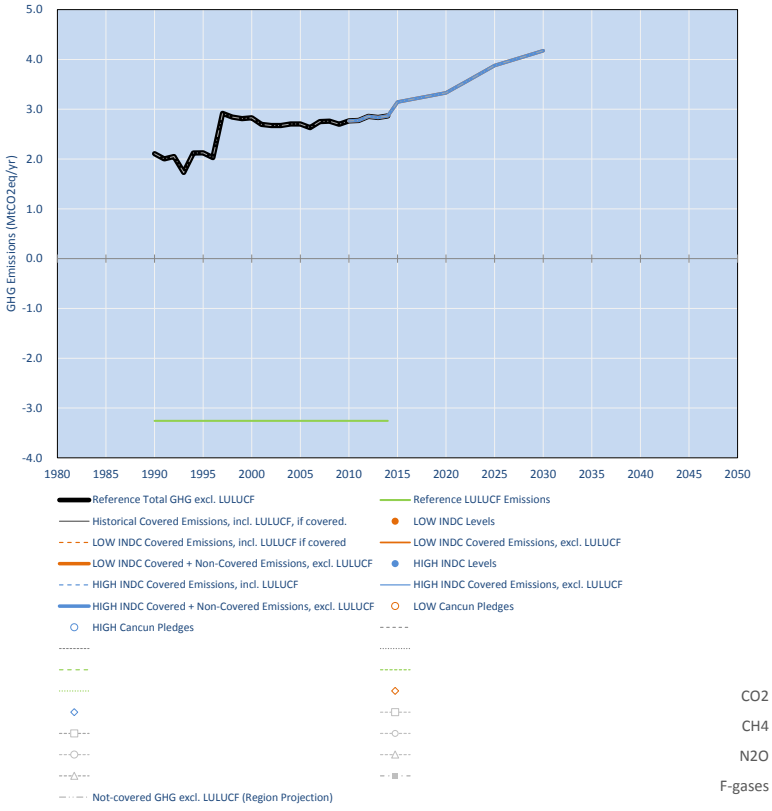
Swaziland

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +20%

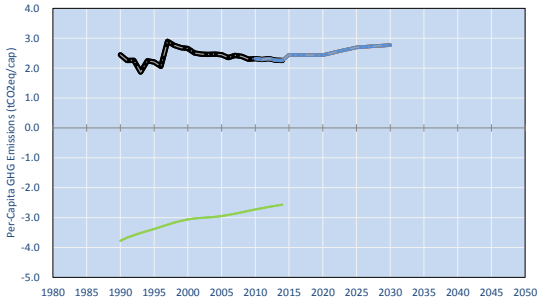
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
			Share of World Emissions excl. LULUCF (Rank):	0.0% #165	0.0% #161	0.0% #161
			Per-Capita Emissions (tCO2eq/cap)	2.3t #139	2.7t #128	2.8t #128

INDC: Develop a reobust national GHG inventory, credible baseline and emissions trajectory, and a comprehensive measurement, reporting and verification system. Mitigation Action plan by 2020.. (GWP AR4)

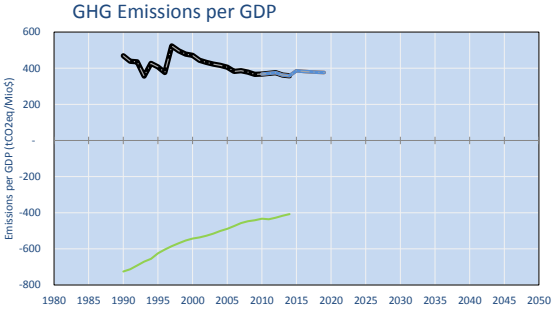
GHG Emissions



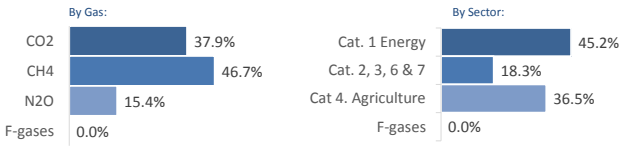
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	#N/A
CDC	#N/A	#N/A
ECPC50	#N/A	#N/A
ECPC90	#N/A	#N/A
GDR	#N/A	#N/A
INDC HIGH	#N/A	#N/A
INDC LOW	#N/A	#N/A

No results shown, as 2010 total incl. LULUCF emissions below zero

"Fair" contributions for a global 'least-cost' 2°C track:

- LEADER Leader
- CDC Common-but-diff. per-cap. convergence
- ECPC50 Eq. cum. Per-capita since 1950
- ECPC90 Eq. cum. Per-capita since 1990
- GDR Greenhouse Development Rights
- #N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	-	-	-	-	-	-	-	-	-	-
Total GHG excl. LULUCF	2	3	3	3	3	3	4	4	4	4
Total GHG incl. LULUCF	- 1	- 0	- 1	- 0	0	0	1	1	1	1

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	134%	128%	131%	158%	158%	184%	184%	198%	198%
Relative 2000	75%	100%	96%	98%	118%	118%	137%	137%	148%	148%
Relative 2005	78%	105%	100%	102%	123%	123%	143%	143%	154%	154%
Relative 2010	76%	102%	98%	100%	120%	120%	140%	140%	151%	151%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	1	1	1	1	1	1	1	1	2	2
Per-Capita Emissions (tCO2eq/cap)	2.4	2.7	2.4	2.3	2.4	2.4	2.7	2.7	2.8	2.8
Relative 1990	100%	109%	100%	95%	100%	100%	110%	110%	113%	113%
Relative 2000	92%	100%	92%	87%	92%	92%	101%	101%	104%	104%
Relative 2005	100%	109%	100%	95%	100%	100%	110%	110%	113%	113%
Relative 2010	105%	115%	106%	100%	105%	105%	116%	116%	120%	120%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

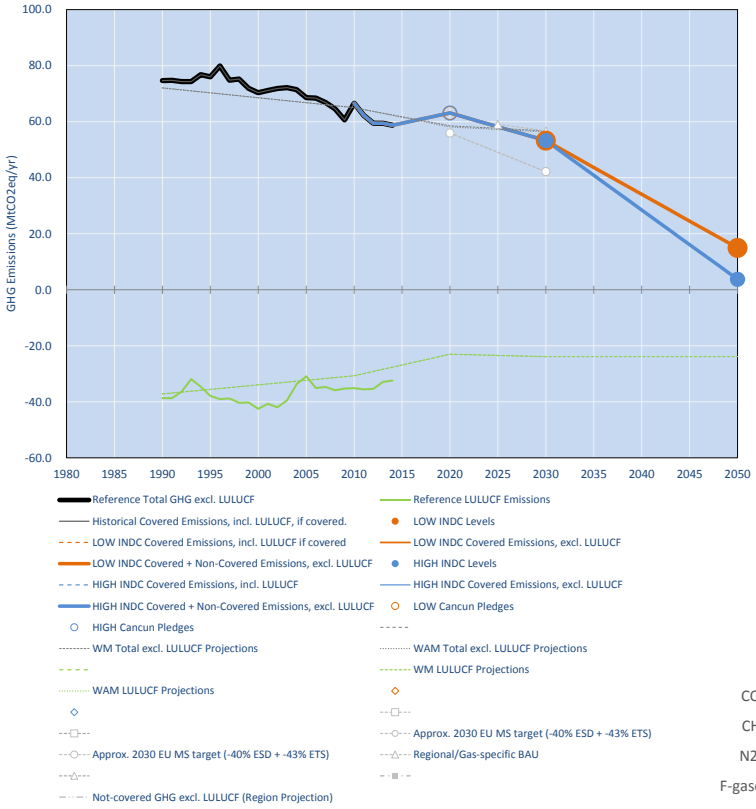
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

Sweden

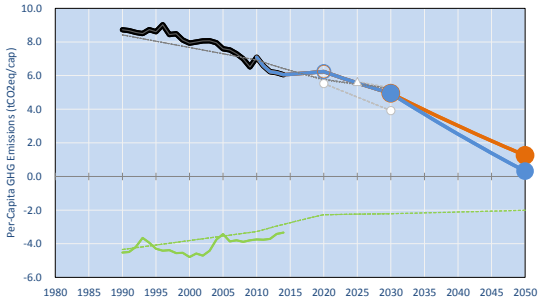
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -30%

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	0.1% #72	0.1% #83	0.1% #85
			Per-Capita Emissions (tCO2eq/cap)	7.1t #65	5.6t #81	4.9t #94

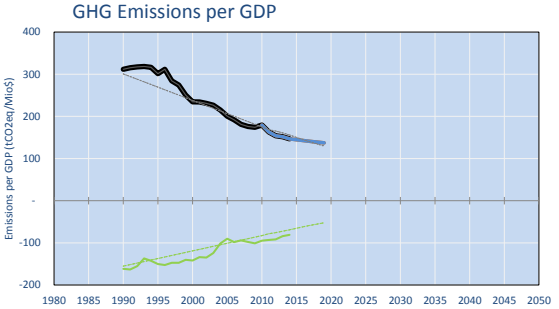
GHG Emissions



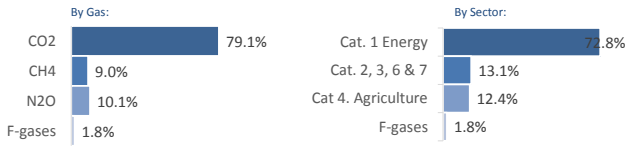
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-7	-7	-11	-11	-11	-11
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	75	70	69	67	63	63	58	58	53	53
Total GHG excl. LULUCF	75	70	69	67	63	63	58	58	53	53
Total GHG incl. LULUCF	36	28	38	31	40	40	35	35	29	29

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	94%	92%	89%	85%	85%	78%	78%	71%	71%
Relative 2000	106%	100%	98%	95%	90%	90%	83%	83%	76%	76%
Relative 2005	109%	103%	100%	97%	92%	92%	85%	85%	78%	78%
Relative 2010	112%	106%	103%	100%	95%	95%	87%	87%	80%	80%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	9	9	9	9	10	10	10	10	11	11
Per-Capita Emissions (tCO2eq/cap)	8.7	7.9	7.6	7.1	6.2	6.2	5.6	5.6	4.9	4.9
Relative 1990	100%	91%	87%	81%	71%	71%	64%	64%	57%	57%
Relative 2000	110%	100%	96%	90%	79%	79%	70%	70%	62%	62%
Relative 2005	115%	104%	100%	93%	82%	82%	73%	73%	65%	65%
Relative 2010	123%	112%	107%	100%	88%	88%	78%	78%	70%	70%

a project with PRIMAP at PIK:

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
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Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
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Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

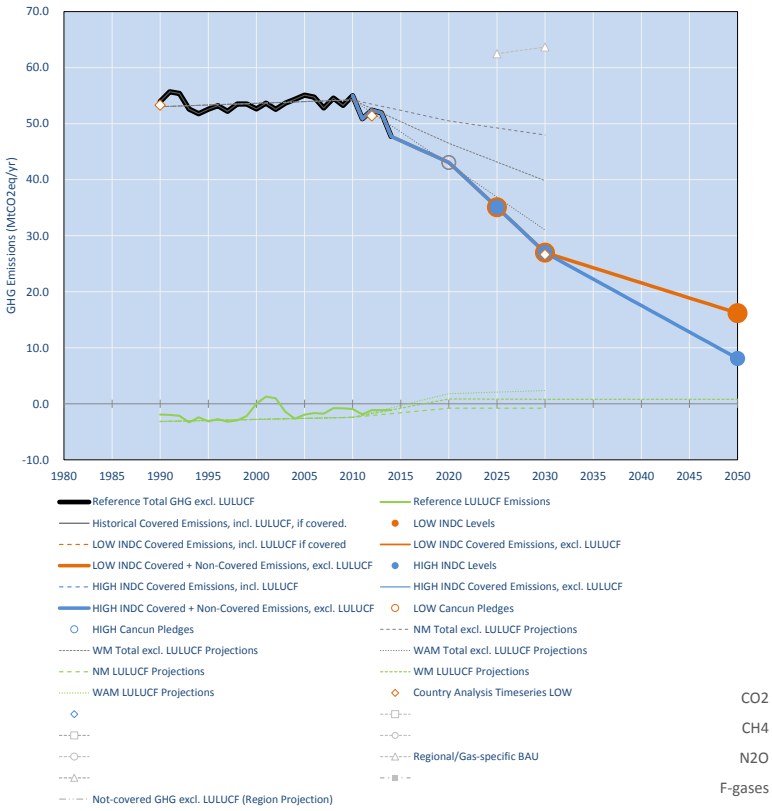
Switzerland

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-58%**

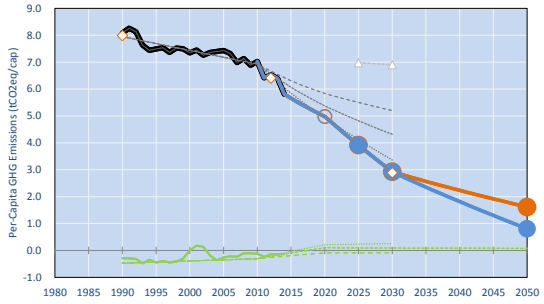
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990	-35% rel.1990	-50% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.1% #81	0.1% #107	0.0% #119
			Per-Capita Emissions (tCO2eq/cap)	7t #66	3.9t #112	2.9t #125

INDC: Reduce GHG emissions by 50 percent by 2030 compared to 1990 levels. (GWP AR4)

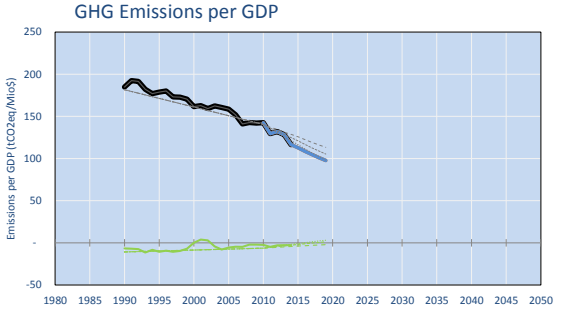
GHG Emissions



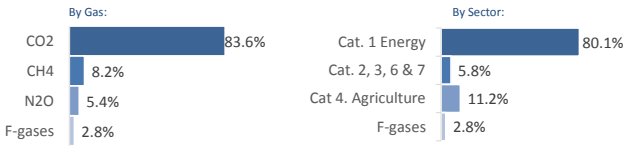
Per-Capita Emissions



GHG Emissions per GDP

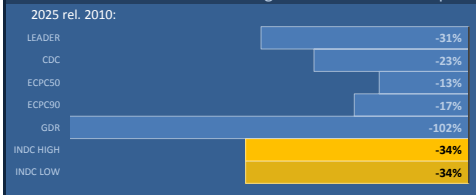


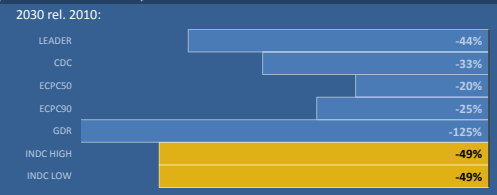
2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org





"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -31%; Leader:-29%; CDC:-20%; ECPC50:-10%; ECPC90:-14%; GDR:-102%

2030 rel. 1990 INDC: -47%; Leader:-42%; CDC:-31%; ECPC50:-17%; ECPC90:-22%; GDR:-125%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					0	0				
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	54	53	55	55	43	43	35	35	27	27
Total GHG excl. LULUCF	54	53	55	55	43	43	35	35	27	27
Total GHG incl. LULUCF	52	53	53	54	44	44	36	36	28	28

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	98%	102%	102%	80%	80%	65%	65%	50%	50%
Relative 2000	103%	100%	105%	105%	82%	82%	67%	67%	51%	51%
Relative 2005	98%	96%	100%	100%	78%	78%	64%	64%	49%	49%
Relative 2010	98%	96%	100%	100%	78%	78%	64%	64%	49%	49%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	7	7	7	8	9	9	9	9	9	9
Per-Capita Emissions (tCO2eq/cap)	8.1	7.3	7.4	7.0	5.0	5.0	3.9	3.9	2.9	2.9
Relative 1990	100%	91%	92%	87%	62%	62%	48%	48%	36%	36%
Relative 2000	110%	100%	101%	96%	68%	68%	53%	53%	40%	40%
Relative 2005	109%	99%	100%	94%	67%	67%	53%	53%	39%	39%
Relative 2010	115%	105%	106%	100%	71%	71%	56%	56%	42%	42%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
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Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
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Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Tajikistan stated 25.5Mt 1990 baseyear, vs. 16.6 in IPCC data compilation.

INDC FactSheet

Tajikistan

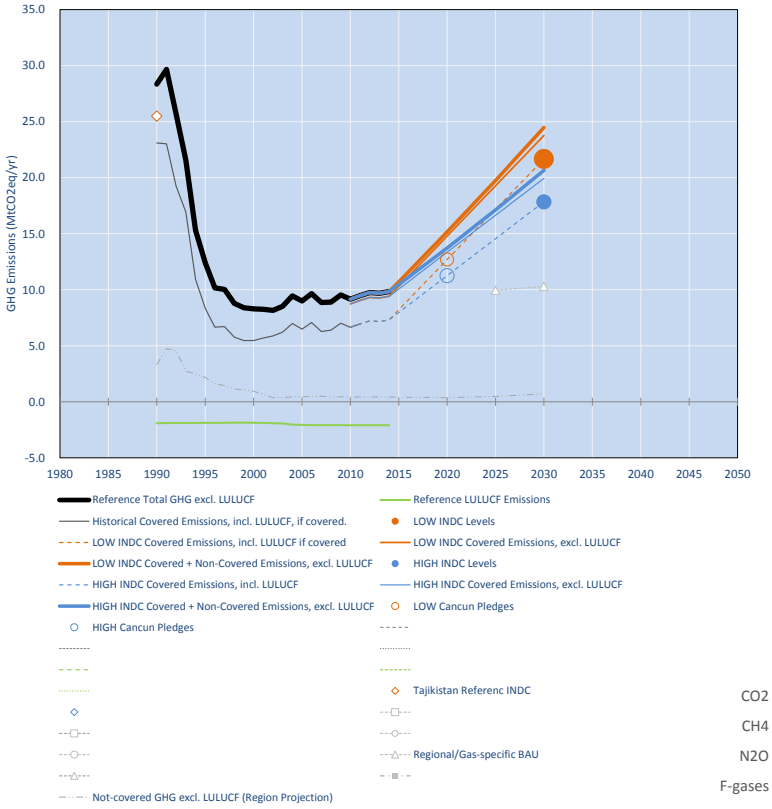
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+68%**

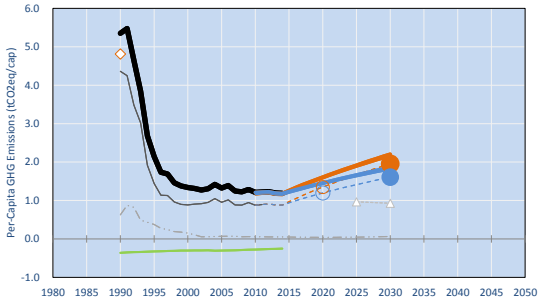
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-15% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.0% #142	0.0% #127	0.0% #123
		-30% rel.1990(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.2t #178	1.8t #161	2t #150

INDC: Target not to exceed 80-90% of GHG emissions compared to 1990 levels by 2030Conditional target: archieve target of 65-75% compared to 1990 levels. (GWP AR4)

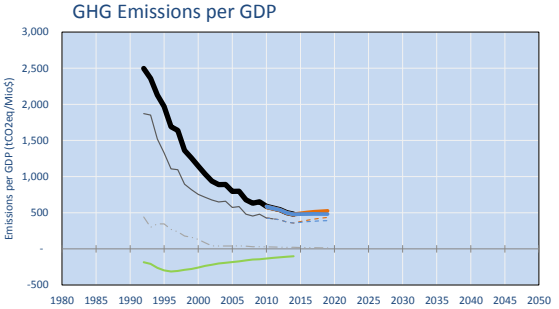
GHG Emissions



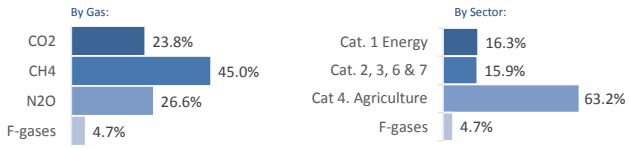
Per-Capita Emissions



GHG Emissions per GDP

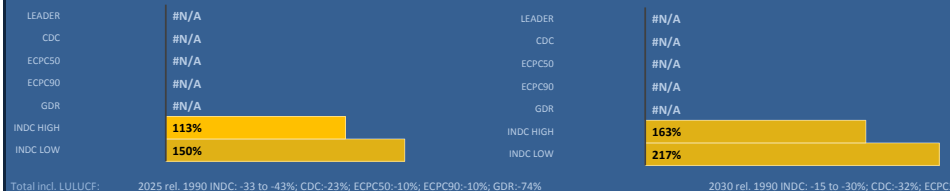


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -33 to -43%; CDC:-23%; ECPC50:-10%; ECPC90:-10%; GDR:-74%

2030 rel. 1990 INDC: -15 to -30%; CDC:-32%; ECPC50:14%; ECPC90:6%; GDR:-78%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2
INDC covered Emissions excl. LULUCF	25	7	9	9	15	13	19	17	24	20
Total GHG excl. LULUCF	28	8	9	9	15	14	20	17	24	21
Total GHG incl. LULUCF	26	6	7	7	13	12	18	15	22	19

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	29%	32%	32%	53%	48%	70%	60%	86%	73%
Relative 2000	342%	100%	109%	111%	183%	166%	238%	207%	295%	249%
Relative 2005	315%	92%	100%	102%	168%	152%	219%	190%	272%	229%
Relative 2010	309%	90%	98%	100%	165%	150%	216%	187%	267%	225%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	5	6	7	8	9	9	10	10	11	11
Per-Capita Emissions (tCO2eq/cap)	5.4	1.3	1.3	1.2	1.6	1.5	1.9	1.7	2.2	1.9
Relative 1990	100%	25%	25%	23%	30%	27%	36%	31%	41%	35%
Relative 2000	399%	100%	99%	90%	120%	109%	143%	124%	165%	139%
Relative 2005	405%	101%	100%	91%	122%	110%	145%	126%	167%	141%
Relative 2010	443%	111%	109%	100%	133%	121%	159%	138%	182%	154%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Thailand

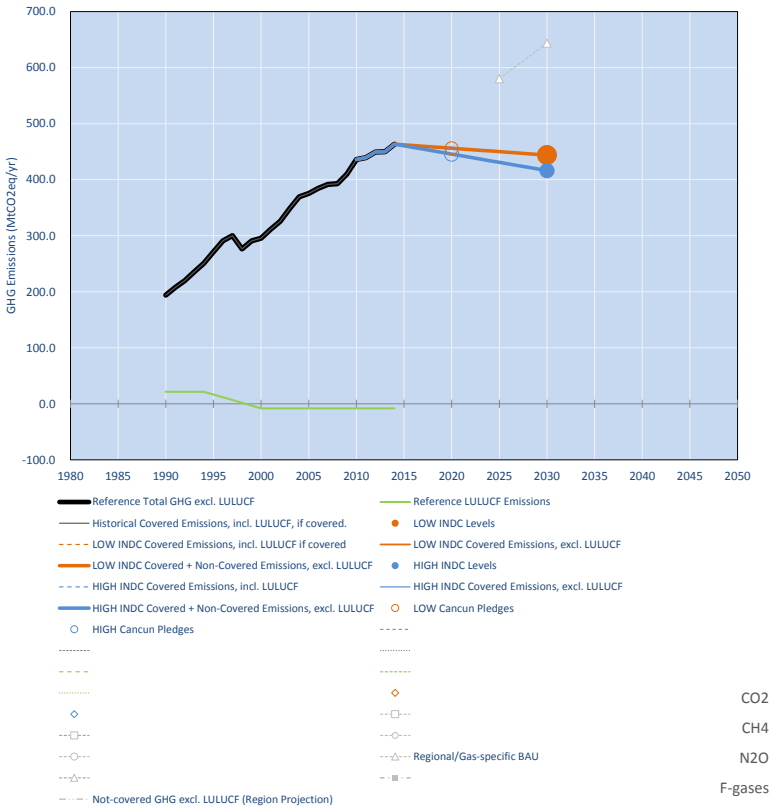
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -4%

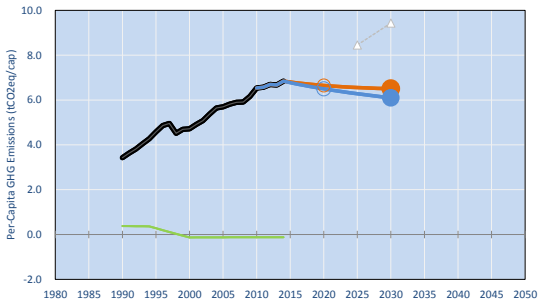
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-20% rel. BAU of 555 Mt -25% rel. BAU of 555 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.9% #22	0.8% #24	0.8% #27
			Per-Capita Emissions (tCO2eq/cap)	6.5t #74	6.4t #72	6.3t #73

INDC: Reduction of GHG emissions by 20% from BAU level by 2030Conditional target: up to 25% subject to support. (GWP AR4)

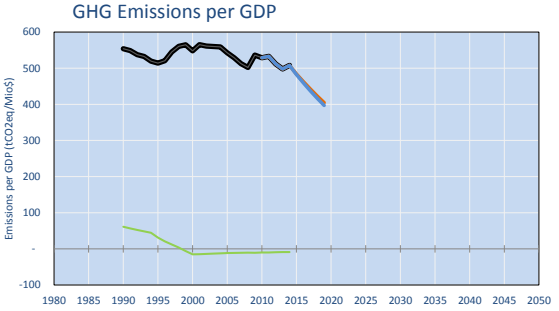
GHG Emissions



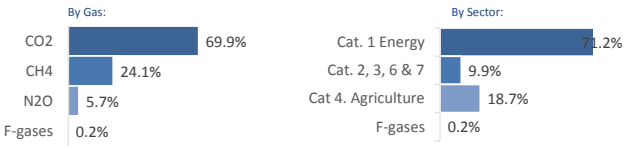
Per-Capita Emissions



GHG Emissions per GDP

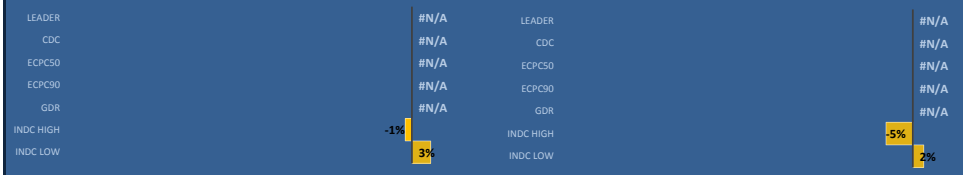


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	194	296	375	436	456	446	450	431	444	416
Total GHG excl. LULUCF	194	296	375	436	456	446	450	431	444	416
Total GHG incl. LULUCF	215	288	367	428	448	438	442	423	436	408

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	152%	194%	225%	235%	230%	232%	222%	229%	215%
Relative 2000	66%	100%	127%	147%	154%	151%	152%	146%	150%	141%
Relative 2005	52%	79%	100%	116%	122%	119%	120%	115%	118%	111%
Relative 2010	44%	68%	86%	100%	105%	102%	103%	99%	102%	95%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	57	63	66	67	69	69	69	69	68	68
Per-Capita Emissions (tCO2eq/cap)	3.4	4.7	5.7	6.5	6.7	6.5	6.6	6.3	6.5	6.1
Relative 1990	100%	138%	166%	191%	194%	190%	191%	183%	190%	178%
Relative 2000	73%	100%	121%	139%	141%	138%	139%	133%	138%	129%
Relative 2005	60%	83%	100%	115%	117%	114%	115%	110%	114%	107%
Relative 2010	52%	72%	87%	100%	102%	99%	100%	96%	100%	93%

Data Sources:

Cat1_CO2	PRIMAPHIST15
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Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
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Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

The former Yugoslav Republic of Macedonia

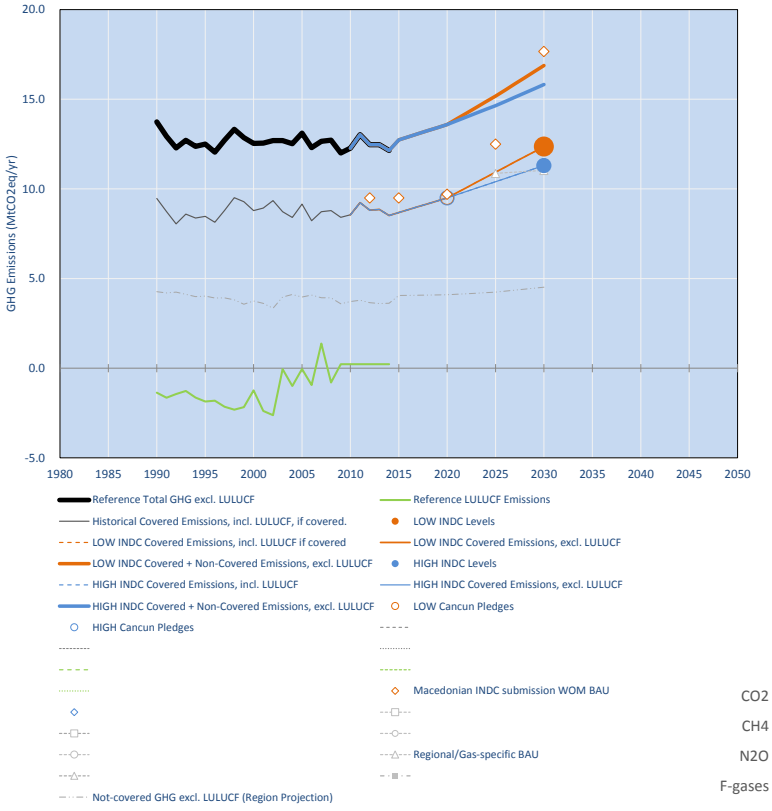
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+32%**

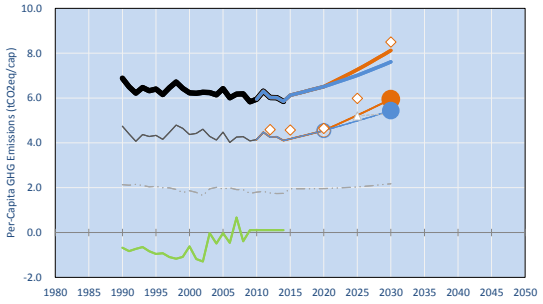
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-2% rel. BAU of 9.7		-30% rel. BAU of 18 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #134	0.0% #137	0.0% #136
-2% rel. BAU of 9.7		-36% rel. BAU of 18 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	5.9t #80	7.1t #66	7.9t #49

INDC: To reduce CO2 emissions from fossil fuels combustion by 30% or by 36% at a higher level of ambition, by 2030 compared to business as usual (BAU) scenario. (n/a (only CO2))

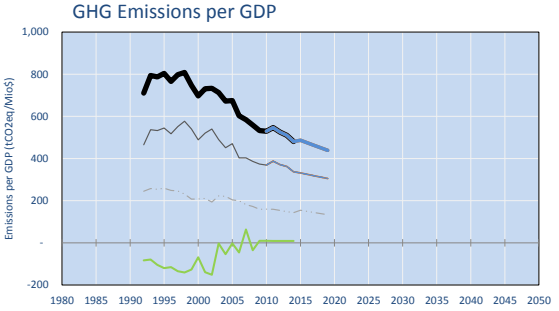
GHG Emissions



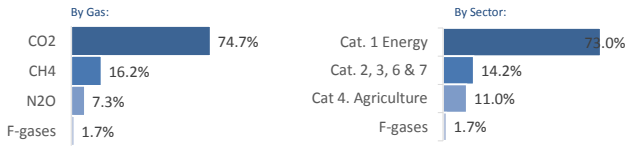
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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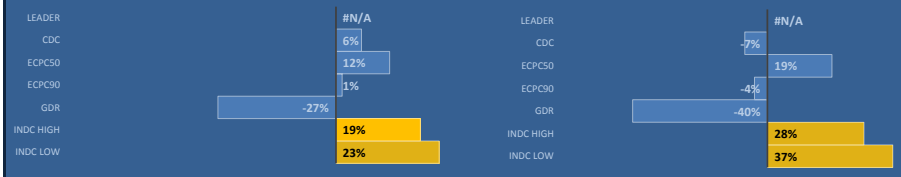

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	9	9	9	9	10	10	11	10	12	11
Total GHG excl. LULUCF	14	13	13	12	14	14	15	15	17	16
Total GHG incl. LULUCF	12	11	13	12	14	14	15	15	17	16

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	91%	95%	89%	99%	99%	110%	107%	123%	115%
Relative 2000	110%	100%	105%	98%	108%	108%	121%	117%	135%	126%
Relative 2005	105%	96%	100%	94%	104%	104%	116%	112%	129%	121%
Relative 2010	112%	102%	107%	100%	111%	111%	124%	119%	138%	129%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	2	2	2	2	2	2	2	2	2	2
Per-Capita Emissions (tCO2eq/cap)	6.9	6.2	6.4	5.9	6.5	6.5	7.3	7.0	8.1	7.6
Relative 1990	100%	91%	93%	86%	95%	95%	106%	102%	118%	111%
Relative 2000	110%	100%	103%	95%	104%	104%	117%	112%	130%	122%
Relative 2005	107%	97%	100%	93%	101%	101%	113%	109%	127%	119%
Relative 2010	116%	105%	108%	100%	109%	109%	122%	118%	137%	128%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
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Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
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Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
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Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Togo

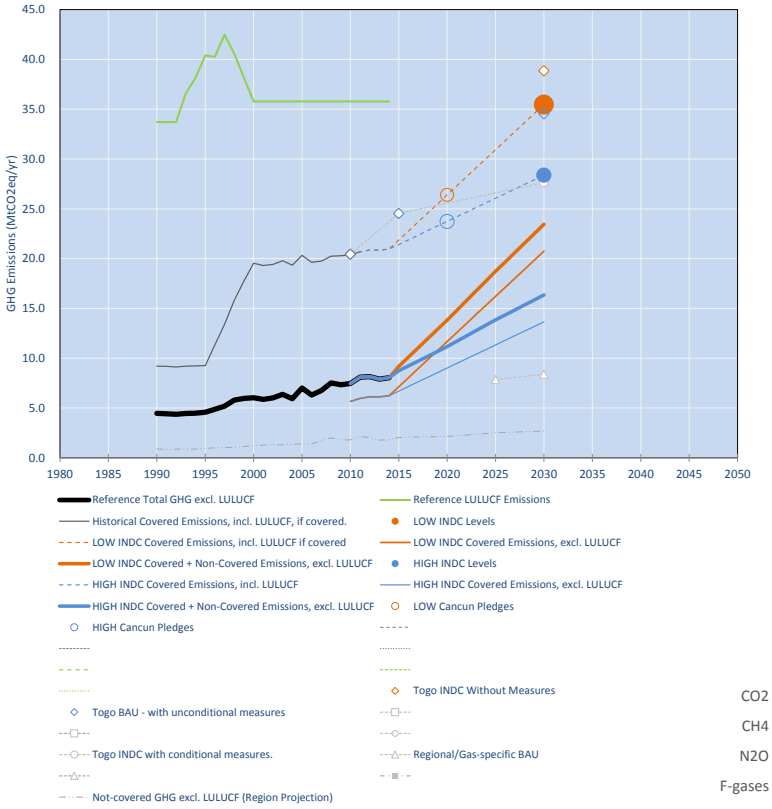
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +62%

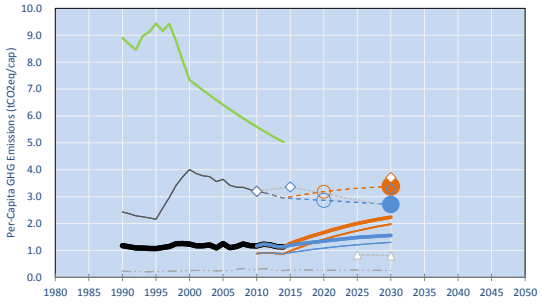
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-11% rel. BAU of 39 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #147	0.0% #134	0.0% #128
		-29% rel. BAU of 39 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.2t #180	1.7t #162	1.9t #157

INDC: 11.14% GHG emission reduction compared to BAU by 2030Conditional target: 31.14% GHG emissions reduction compared to BAU pending international support. (GWP SAR)

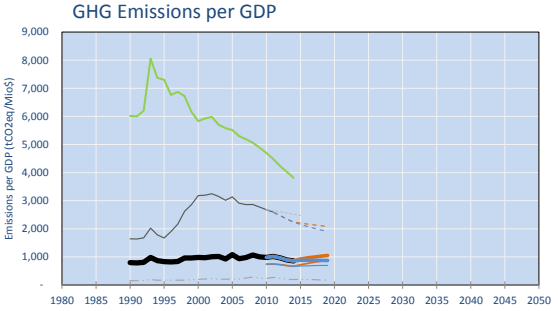
GHG Emissions



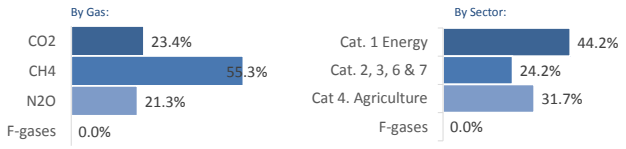
Per-Capita Emissions



GHG Emissions per GDP

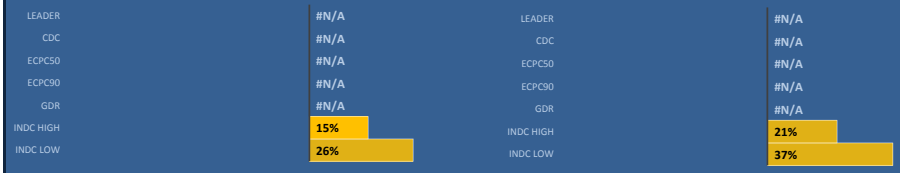


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	6	15	15	15	15	15	15	15	15	15
INDC covered Emissions excl. LULUCF	4	5	6	6	12	9	16	11	21	14
Total GHG excl. LULUCF	4	6	7	7	14	11	19	14	23	16
Total GHG incl. LULUCF	38	42	43	43	50	47	55	50	59	52

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	135%	157%	167%	310%	250%	419%	310%	525%	366%
Relative 2000	74%	100%	116%	124%	229%	185%	310%	229%	388%	271%
Relative 2005	64%	86%	100%	106%	197%	159%	267%	197%	334%	233%
Relative 2010	60%	81%	94%	100%	185%	150%	251%	186%	314%	219%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	5	6	6	8	8	9	9	10	10
Per-Capita Emissions (tCO2eq/cap)	1.2	1.2	1.3	1.2	1.7	1.3	2.0	1.5	2.2	1.6
Relative 1990	100%	105%	107%	99%	141%	114%	170%	126%	190%	132%
Relative 2000	95%	100%	102%	94%	135%	109%	162%	120%	180%	126%
Relative 2005	94%	98%	100%	93%	133%	107%	159%	118%	178%	124%
Relative 2010	101%	106%	108%	100%	143%	115%	172%	127%	191%	134%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Trinidad and Tobago

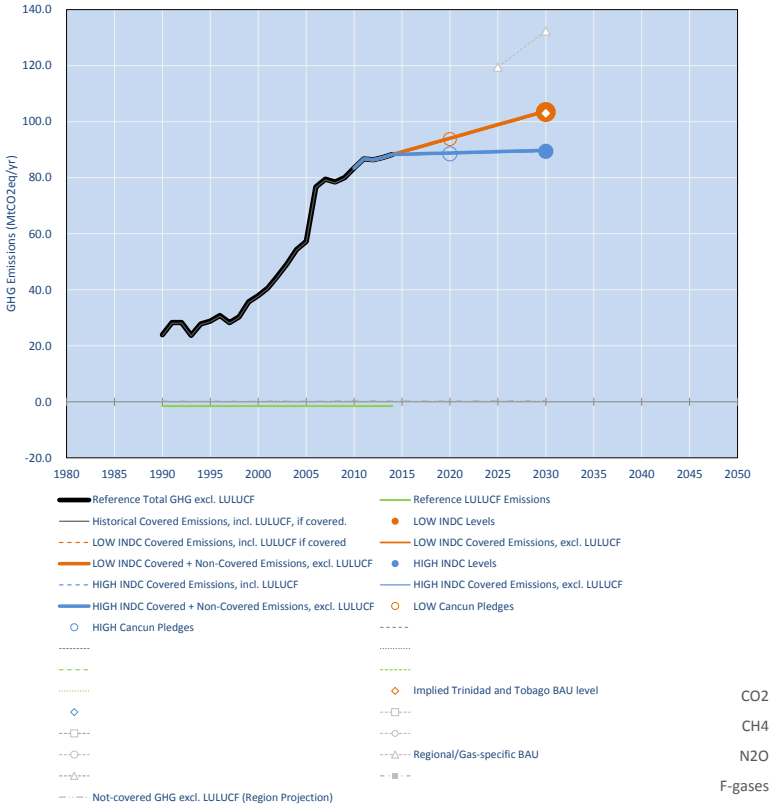
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +12%

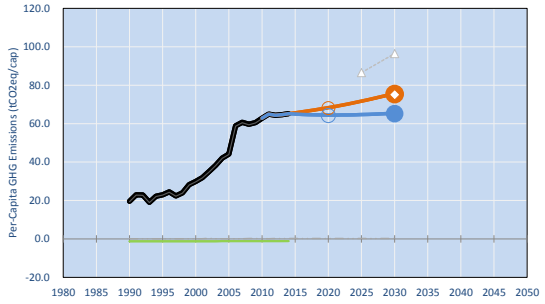
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-2% rel. BAU of 103 Mt -15% rel. BAU of 103 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.2% #58	0.2% #62	0.2% #63
			Per-Capita Emissions (tCO2eq/cap)	62.8t #3	68.2t #2	70.5t #2

INDC: Aim to achieve a reduction objective in overall emissions from the power generation, transportation and industrial sectors by 15% by 2030 from BAU, partly through domestic funding and conditional on international financing Unconditional: 30% reduction in GHG emissions by 2030 in

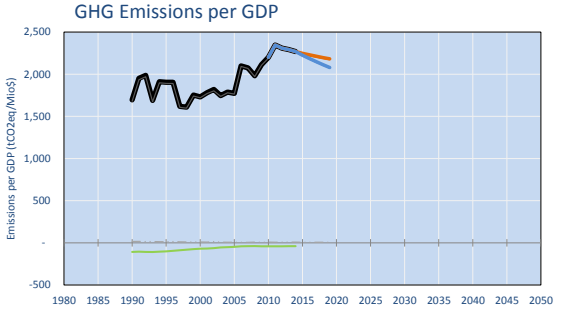
GHG Emissions



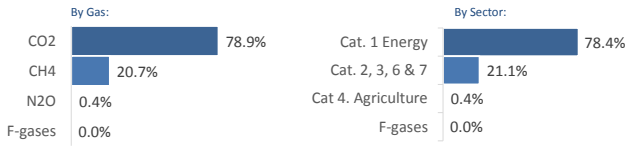
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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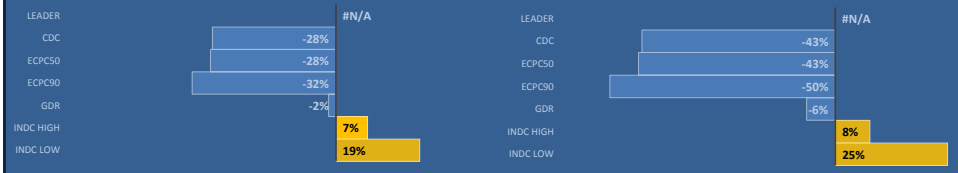

Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	24	38	57	83	94	89	99	89	103	89
Total GHG excl. LULUCF	24	38	57	83	94	89	99	89	104	90
Total GHG incl. LULUCF	22	36	56	82	93	87	97	88	102	88

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	158%	239%	349%	393%	371%	414%	373%	434%	375%
Relative 2000	63%	100%	151%	220%	248%	234%	261%	236%	274%	237%
Relative 2005	42%	66%	100%	146%	164%	155%	173%	156%	181%	157%
Relative 2010	29%	45%	69%	100%	113%	106%	119%	107%	124%	108%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	1	1	1	1	1	1	1	1	1	1
Per-Capita Emissions (tCO2eq/cap)	19.6	29.9	44.1	62.8	68.3	64.5	71.7	64.7	75.6	65.4
Relative 1990	100%	153%	225%	321%	349%	329%	366%	330%	386%	334%
Relative 2000	66%	100%	148%	210%	228%	216%	240%	216%	253%	219%
Relative 2005	44%	68%	100%	142%	155%	146%	162%	147%	171%	148%
Relative 2010	31%	48%	70%	100%	109%	103%	114%	103%	120%	104%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
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Cat0_HFCs	PRIMAPHIST15		
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Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Tunisia

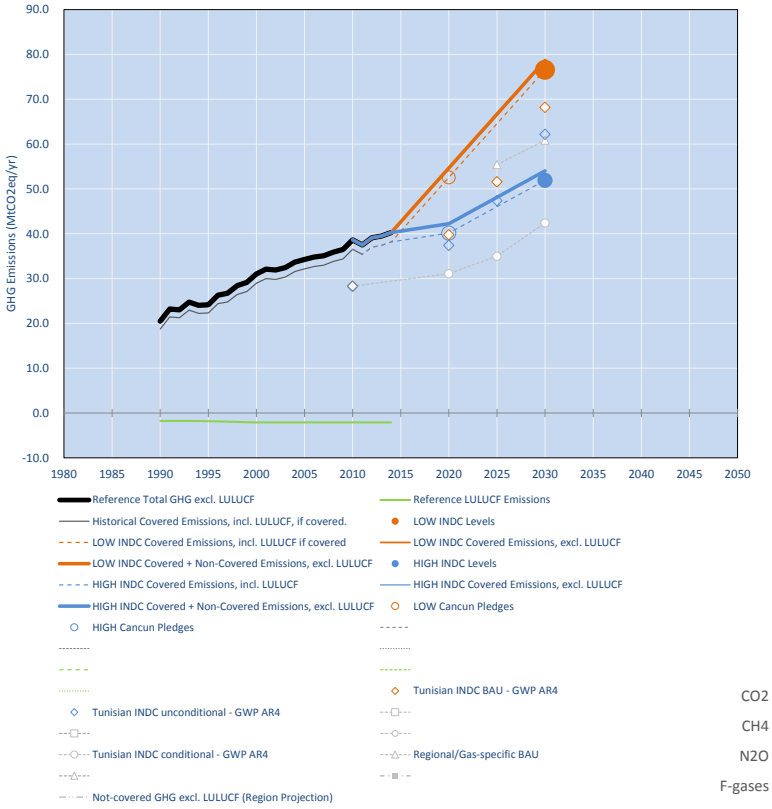
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +44%

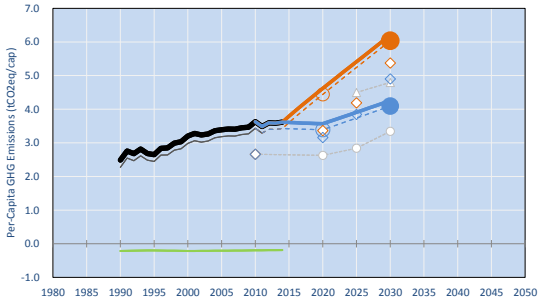
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-6% Intensity Target rel. 2010 -22% Intensity Target rel. 2010(cond.)		-13% Intensity Target rel. 2010 -41% Intensity Target rel. 2010(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.1% #89	0.1% #85	0.1% #81
			Per-Capita Emissions (tCO2eq/cap)	3.6t #110	4.7t #100	5.2t #90

INDC: 13% reduction of emission intensity from 2010 levels by 2030Conditional: additional 28% reduction of emission intensity46% will be reduced from the energy sector. (GWP AR4)

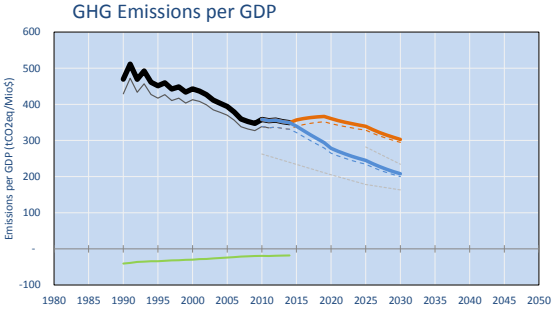
GHG Emissions



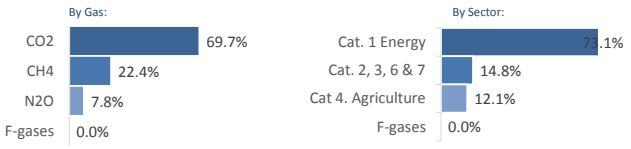
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2	- 2
INDC covered Emissions excl. LULUCF	20	31	34	39	55	42	67	48	79	54
Total GHG excl. LULUCF	20	31	34	39	55	42	67	48	79	54
Total GHG incl. LULUCF	19	29	32	37	53	40	65	46	77	52

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	152%	167%	189%	267%	206%	325%	235%	384%	264%
Relative 2000	66%	100%	110%	124%	176%	136%	215%	155%	253%	174%
Relative 2005	60%	91%	100%	113%	160%	123%	195%	141%	230%	158%
Relative 2010	53%	80%	89%	100%	142%	109%	173%	125%	204%	140%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	8	10	10	11	12	12	12	12	13	13
Per-Capita Emissions (tCO2eq/cap)	2.5	3.2	3.4	3.6	4.6	3.6	5.4	3.9	6.2	4.3
Relative 1990	100%	129%	136%	146%	186%	143%	218%	157%	249%	171%
Relative 2000	78%	100%	106%	113%	144%	112%	169%	122%	194%	133%
Relative 2005	73%	94%	100%	107%	136%	105%	160%	115%	183%	126%
Relative 2010	69%	88%	93%	100%	127%	98%	149%	108%	171%	117%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
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Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

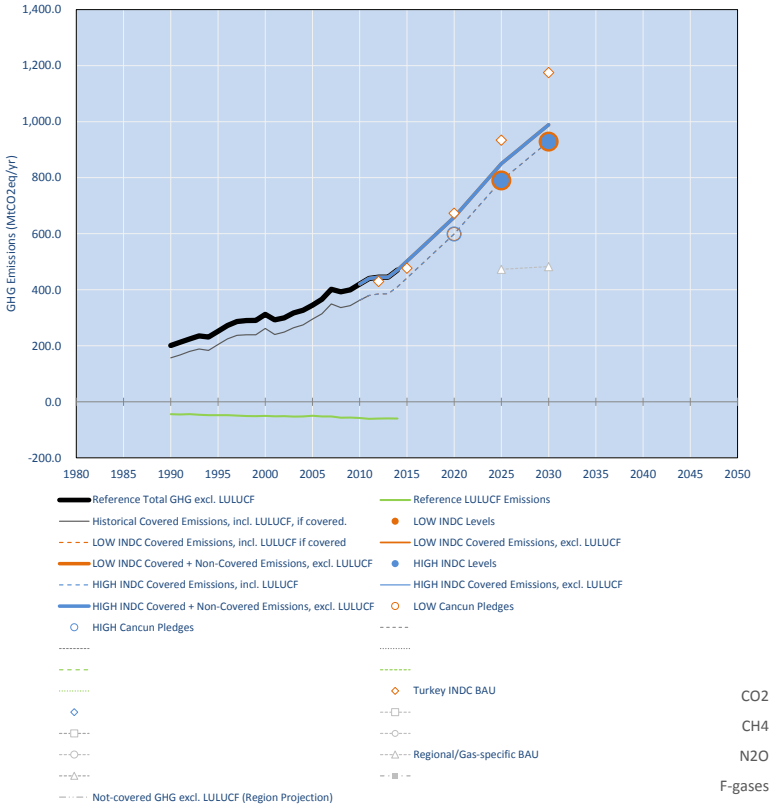
Turkey

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +94%

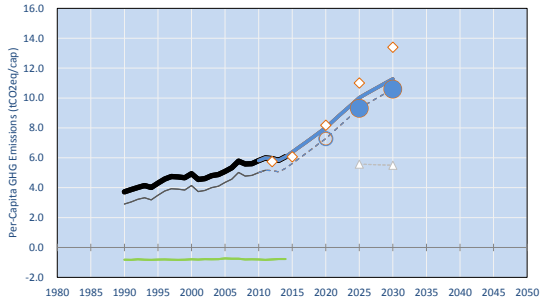
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-11% rel. BAU of 673	-15% rel. BAU of 934 Mt	-21% rel. BAU of 1175 Mt	Share of World Emissions excl. LULUCF (Rank):	0.9% #23	1.6% #11	1.8% #11
			Per-Capita Emissions (tCO2eq/cap)	5.8t #82	10t #36	11.3t #28

INDC: Reduction of up to 21% of GHG emissions from BAU by 2030. (GWP AR4)

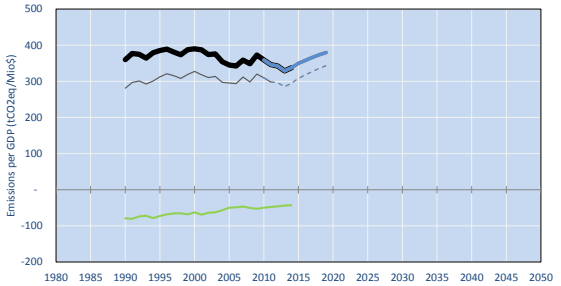
GHG Emissions



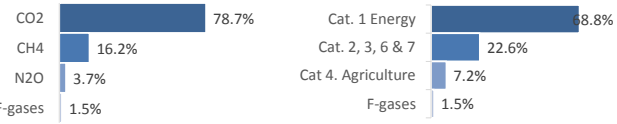
Per-Capita Emissions



GHG Emissions per GDP

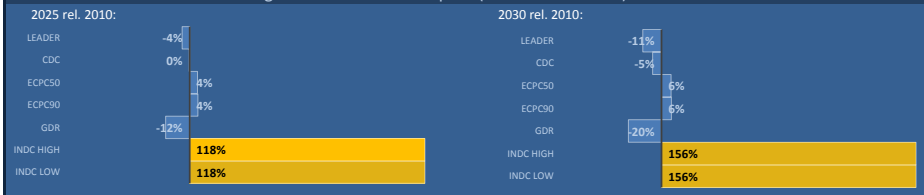


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	44	50	50	58	60	60	60	60	60	60
INDC covered Emissions excl. LULUCF	201	312	345	420	659	659	850	850	989	989
Total GHG excl. LULUCF	201	312	345	420	659	659	850	850	989	989
Total GHG incl. LULUCF	157	262	295	362	599	599	790	790	929	929

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	155%	172%	209%	328%	328%	423%	423%	492%	492%
Relative 2000	64%	100%	111%	135%	211%	211%	272%	272%	317%	317%
Relative 2005	58%	90%	100%	122%	191%	191%	246%	246%	287%	287%
Relative 2010	48%	74%	82%	100%	157%	157%	202%	202%	235%	235%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	54	63	68	72	82	82	85	85	88	88
Per-Capita Emissions (tCO2eq/cap)	3.7	4.9	5.1	5.8	8.0	8.0	10.0	10.0	11.3	11.3
Relative 1990	100%	133%	137%	156%	215%	215%	269%	269%	303%	303%
Relative 2000	75%	100%	103%	118%	162%	162%	203%	203%	228%	228%
Relative 2005	73%	97%	100%	114%	158%	158%	197%	197%	222%	222%
Relative 2010	64%	85%	87%	100%	138%	138%	172%	172%	194%	194%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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historical emission differences. Option for zero-growth assumed after 2025.

INDC FactSheet

Turkmenistan

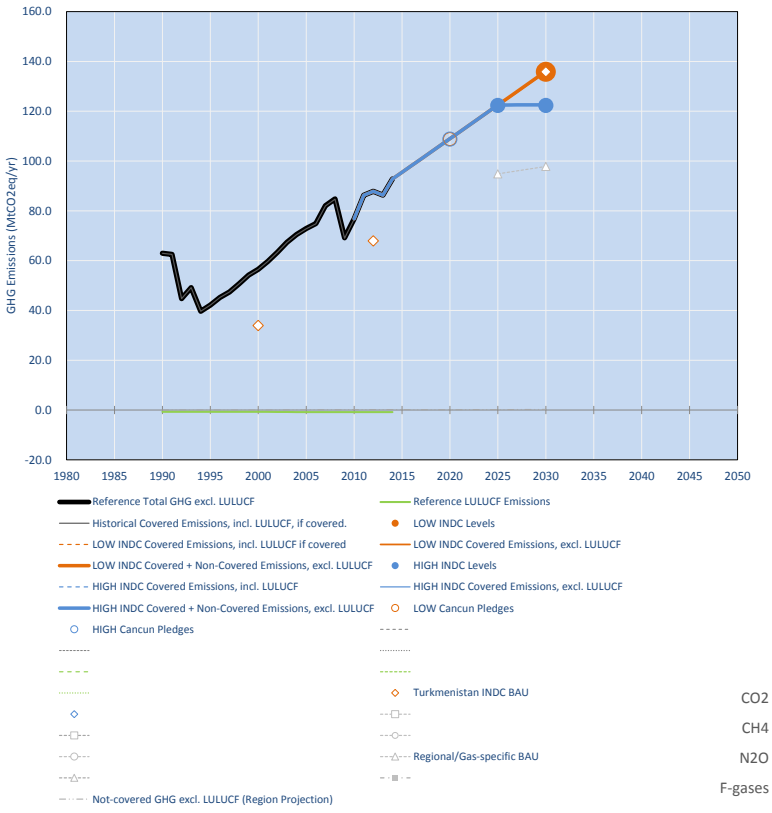
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+38%**

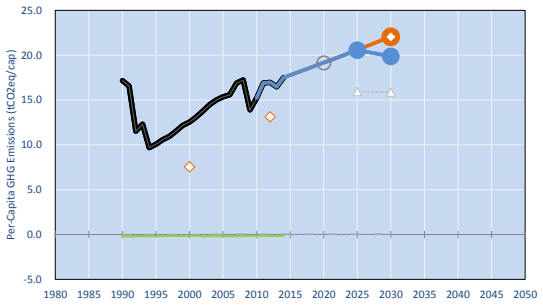
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		135.8 Mt (Policies and Measures)	Share of World Emissions excl. LULUCF (Rank):	0.2% #65	0.2% #53	0.2% #53
		122.3 Mt (Policies and Measures)(cond.)	Per-Capita Emissions (tCO2eq/cap)	15.2t #18	20.6t #11	21t #11

INDC: Reduction of energy and carbon intensity as well as intensity of GHG emissions through policies and actions; if financial and technological support is provided, Turkmenistan could archieve zero growth. (2006 IPCC Guidelines)

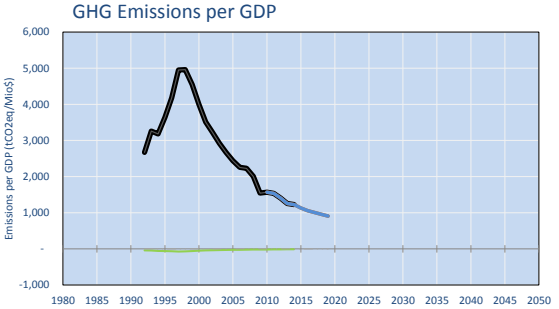
GHG Emissions



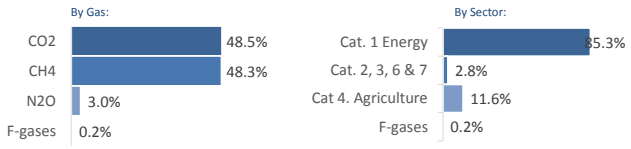
Per-Capita Emissions



GHG Emissions per GDP

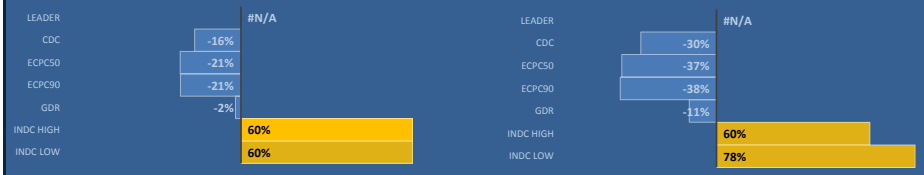


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	63	56	73	77	109	109	122	122	136	122
Total GHG excl. LULUCF	63	56	73	77	109	109	123	123	136	123
Total GHG incl. LULUCF	62	56	72	76	108	108	122	122	135	122

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	90%	116%	122%	173%	173%	195%	195%	216%	195%
Relative 2000	111%	100%	129%	136%	193%	193%	217%	217%	241%	217%
Relative 2005	86%	77%	100%	105%	149%	149%	168%	168%	187%	168%
Relative 2010	82%	74%	95%	100%	142%	142%	160%	160%	177%	160%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4	5	5	5	6	6	6	6	6	6
Per-Capita Emissions (tCO2eq/cap)	17.2	12.5	15.4	15.2	19.2	19.2	20.6	20.6	22.1	19.9
Relative 1990	100%	73%	89%	89%	112%	112%	120%	120%	129%	116%
Relative 2000	137%	100%	122%	121%	153%	153%	164%	164%	176%	159%
Relative 2005	112%	82%	100%	99%	125%	125%	134%	134%	144%	130%
Relative 2010	113%	82%	101%	100%	126%	126%	135%	135%	145%	131%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

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Numbers preliminary

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Mismatch of historical data..

INDC FactSheet

Uganda

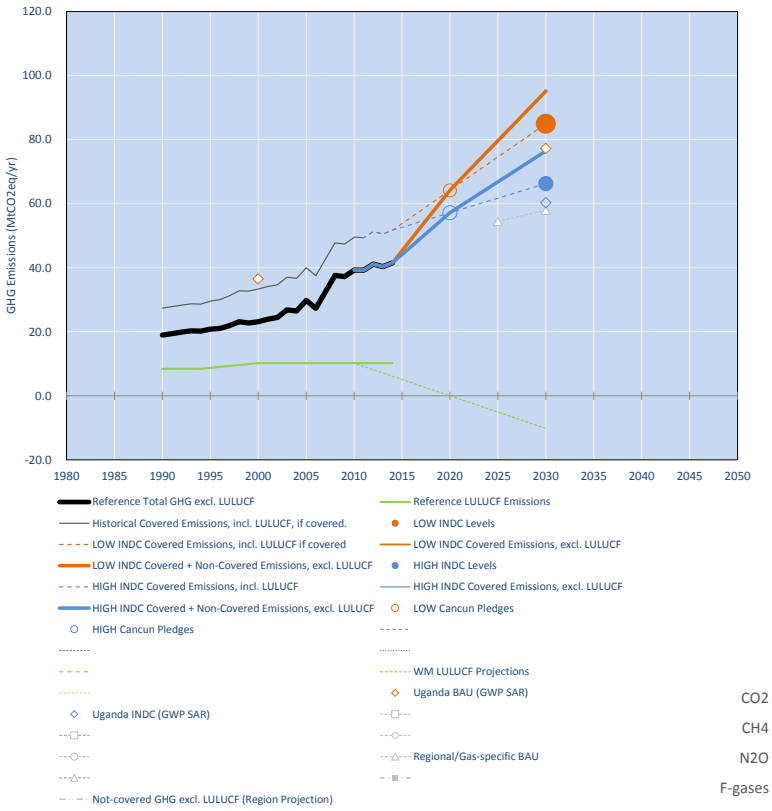
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+17%**

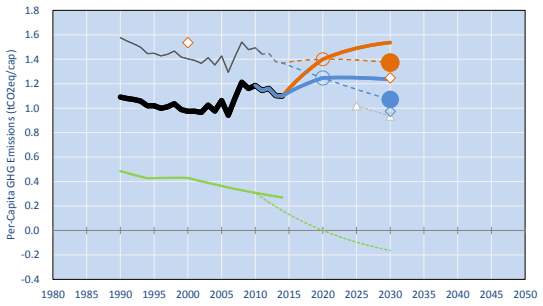
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 77 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #87	0.1% #74	0.2% #69
		-22% rel. BAU of 77 Mt	Per-Capita Emissions (tCO2eq/cap)	1.2t #179	1.4t #173	1.4t #174

INDC: Implementation of a series of policies and measures, estimated as a 22% reduction below a 77.3 Mt BAU in 2030.. (GWP SAR)

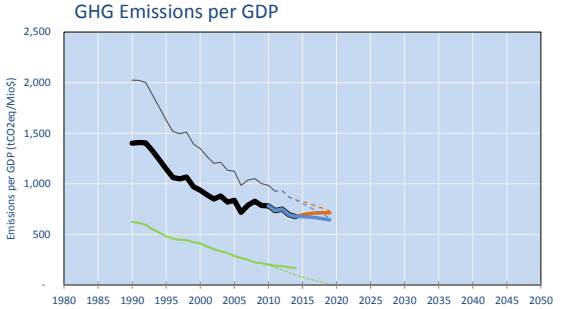
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

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GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	8	10	10	10	0	0	- 5	- 5	- 10	- 10
INDC covered Emissions excl. LULUCF	19	23	30	39	64	57	80	67	95	76
Total GHG excl. LULUCF	19	23	30	39	64	57	80	67	95	76
Total GHG incl. LULUCF	27	33	40	49	64	57	75	62	85	66

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	122%	157%	207%	339%	302%	420%	352%	502%	403%
Relative 2000	82%	100%	129%	170%	277%	247%	344%	289%	411%	331%
Relative 2005	64%	78%	100%	132%	215%	192%	267%	224%	319%	257%
Relative 2010	48%	59%	76%	100%	163%	145%	203%	170%	242%	195%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	17	24	28	33	46	46	53	53	62	62
Per-Capita Emissions (tCO2eq/cap)	1.1	1.0	1.1	1.2	1.4	1.2	1.5	1.2	1.5	1.2
Relative 1990	100%	89%	97%	109%	128%	114%	137%	115%	141%	113%
Relative 2000	112%	100%	109%	122%	144%	128%	153%	128%	158%	127%
Relative 2005	103%	92%	100%	112%	132%	117%	140%	118%	145%	116%
Relative 2010	92%	82%	90%	100%	118%	105%	126%	105%	130%	104%

Data Sources:

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Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
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Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	COUNTRY-SPECIFIC USER DATA
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Numbers preliminary

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INDC FactSheet

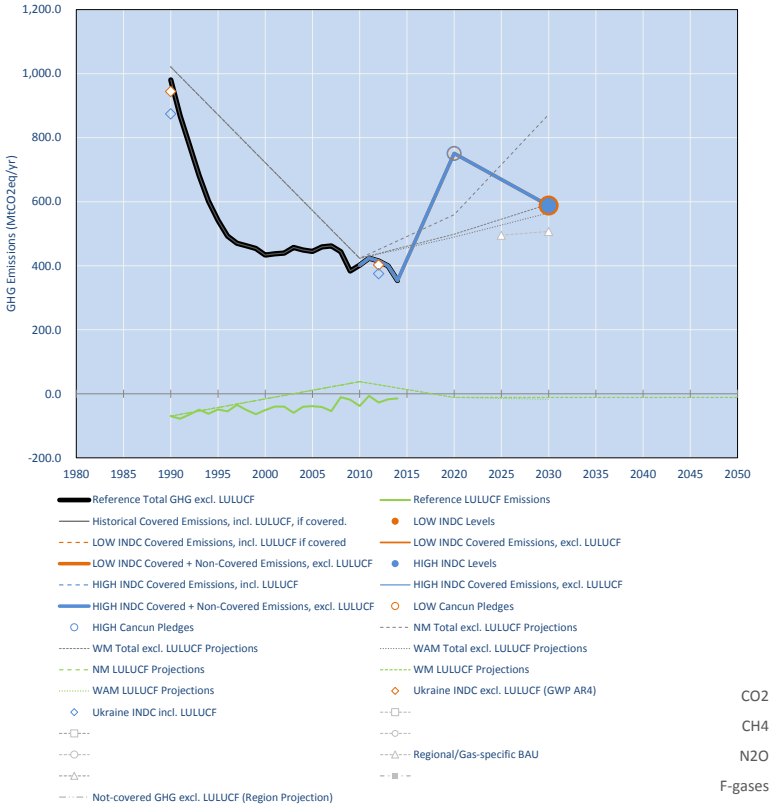
Ukraine

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +63%

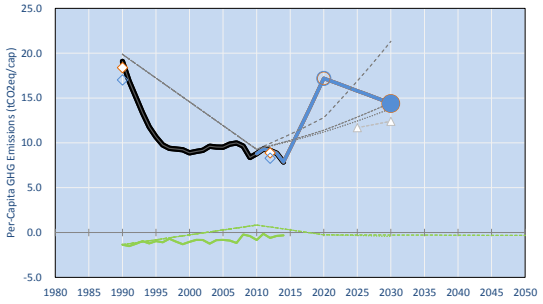
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990		-40% rel.1990	Share of World Emissions excl. LULUCF (Rank):	0.9% #25	1.2% #16	1.1% #18
			Per-Capita Emissions (tCO2eq/cap)	8.8t #49	15.8t #17	14.4t #18

INDC: Will not exceed 60% of 1990 GHG emissions levels by 2030. (GWP AR4)

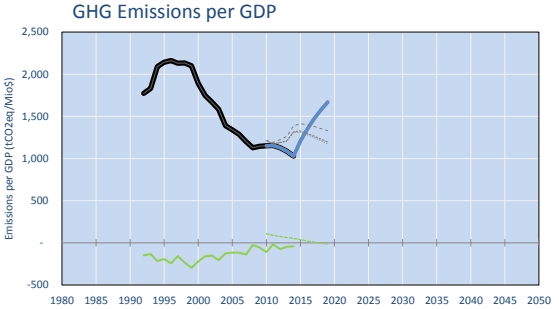
GHG Emissions



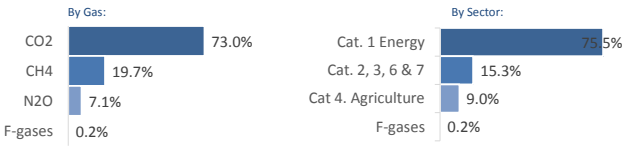
Per-Capita Emissions



GHG Emissions per GDP

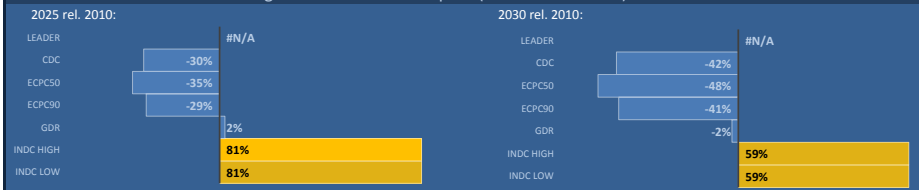


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -28%; CDC:-72%; ECPC50:-74%; ECPC90:-72%; GDR:-59%

2030 rel. 1990 INDC: -37%; CDC:-77%; ECPC50:-79%; ECPC90:-76%; GDR:-61%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					33	33				
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	980	433	445	402	751	751	670	670	588	588
Total GHG excl. LULUCF	980	433	445	402	751	751	670	670	588	588
Total GHG incl. LULUCF	911	383	406	364	740	740	658	658	577	577

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	44%	45%	41%	77%	77%	68%	68%	60%	60%
Relative 2000	226%	100%	103%	93%	173%	173%	155%	155%	136%	136%
Relative 2005	220%	97%	100%	90%	169%	169%	151%	151%	132%	132%
Relative 2010	244%	108%	111%	100%	187%	187%	167%	167%	146%	146%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	51	49	47	46	44	44	42	42	41	41
Per-Capita Emissions (tCO2eq/cap)	19.1	8.9	9.5	8.8	17.2	17.2	15.8	15.8	14.4	14.4
Relative 1990	100%	47%	50%	46%	90%	90%	83%	83%	75%	75%
Relative 2000	215%	100%	107%	99%	193%	193%	178%	178%	162%	162%
Relative 2005	201%	94%	100%	93%	181%	181%	166%	166%	151%	151%
Relative 2010	217%	101%	108%	100%	195%	195%	180%	180%	163%	163%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

2021 Clean energy target approximated as 24% below BAU engergy CO2 in 2020 & const. emissions or perc. below BAU afterwards. BAU of IPCC AR5 scenario growth rate assumed.

INDC FactSheet

United Arab Emirates

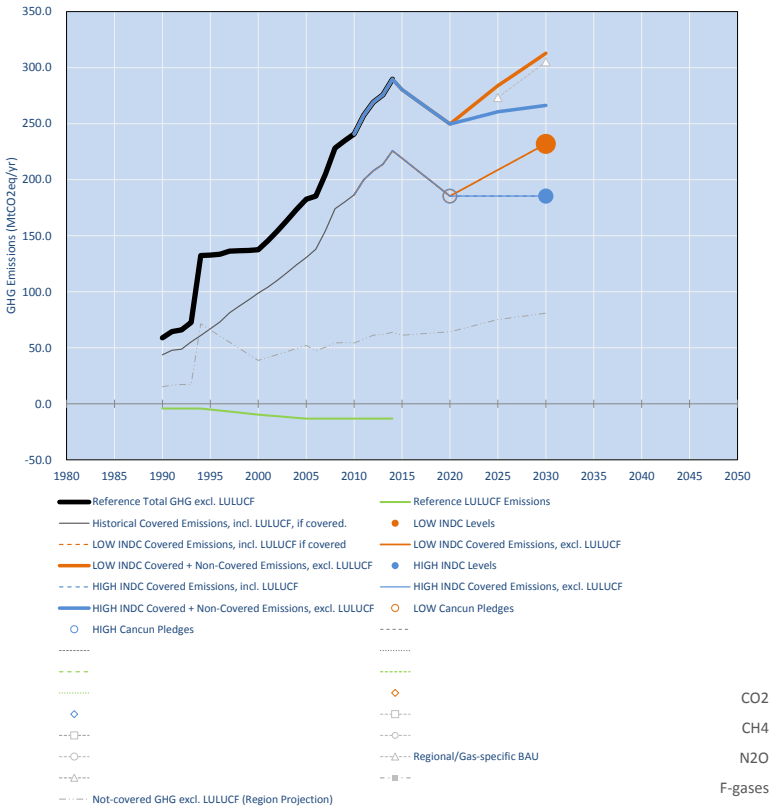
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-9%**

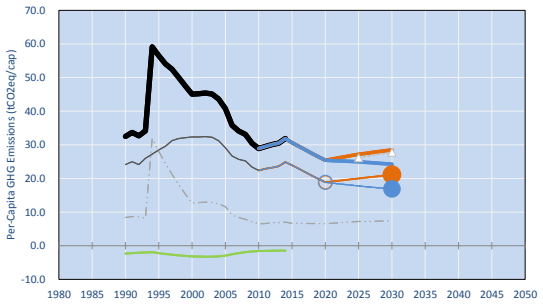
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-24% rel. BAU of 243.9		-24% rel. BAU of 305 Mt	Share of World Emissions excl. LULUCF (Rank):	0.5% #34	0.5% #35	0.5% #35
-24% rel. BAU of 243.9		185.4 Mt (Assuming constant emissions after 2020)	Per-Capita Emissions (tCO2eq/cap)	28.9t #6	26.1t #8	26.4t #8

INDC: Policies and measures, with clean energy (nuclear and renewable) target of 24% by 2021, starting from 0.2% in 2014. . ()

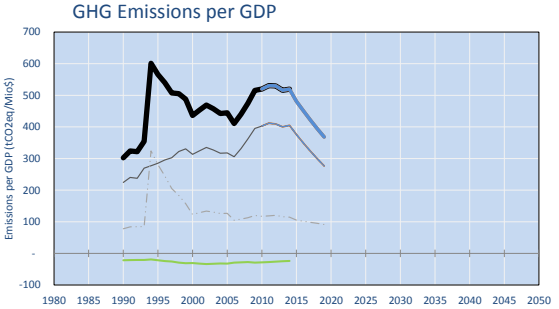
GHG Emissions



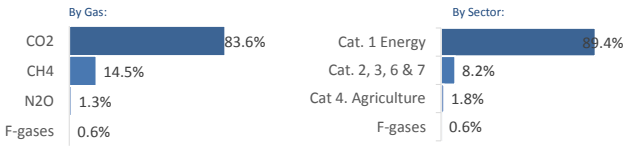
Per-Capita Emissions



GHG Emissions per GDP

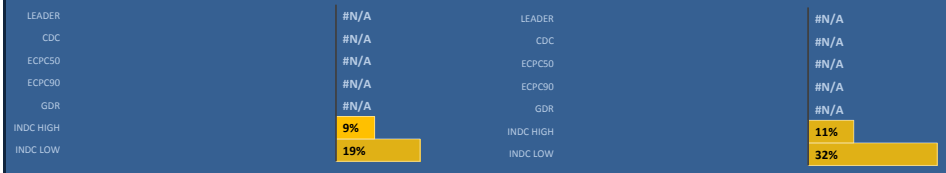


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	44	99	131	186	185	185	209	185	232	185
Total GHG excl. LULUCF	59	137	183	241	250	250	284	261	313	266
Total GHG incl. LULUCF	55	128	169	228	236	236	271	247	300	253

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	233%	310%	409%	424%	424%	482%	443%	531%	452%
Relative 2000	43%	100%	133%	175%	182%	182%	207%	190%	228%	194%
Relative 2005	32%	75%	100%	132%	137%	137%	155%	143%	171%	146%
Relative 2010	24%	57%	76%	100%	104%	104%	118%	108%	130%	111%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	2	3	4	8	10	10	10	10	11	11
Per-Capita Emissions (tCO2eq/cap)	32.5	45.1	40.7	28.9	25.4	25.4	27.2	25.0	28.5	24.3
Relative 1990	100%	139%	125%	89%	78%	78%	84%	77%	88%	75%
Relative 2000	72%	100%	90%	64%	56%	56%	60%	55%	63%	54%
Relative 2005	80%	111%	100%	71%	62%	62%	67%	61%	70%	60%
Relative 2010	112%	156%	141%	100%	88%	88%	94%	86%	99%	84%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

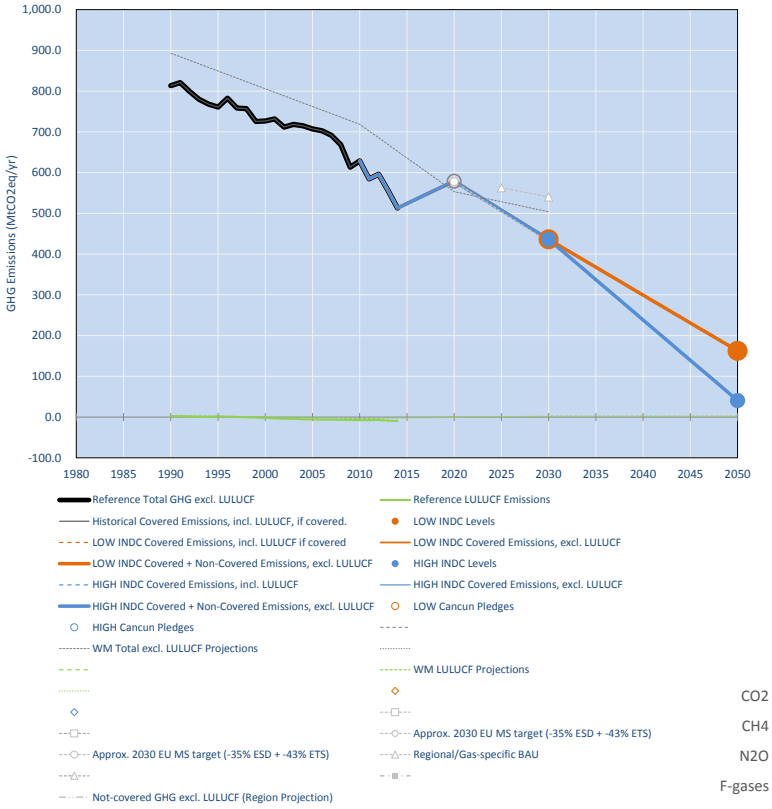
Numbers preliminary | Version: 16 Nov. 2015 | INDC FactSheet

United Kingdom of Great Britain and Northern Ireland

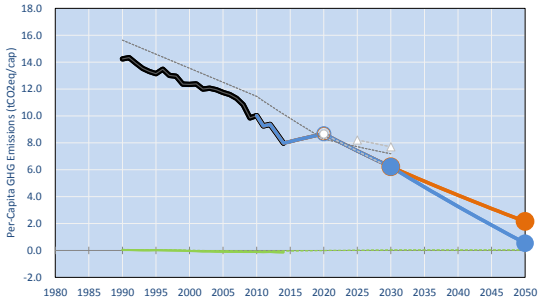
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-38%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-20% rel. 1990 as EU28		40% rel. 1990 within EU28	Share of World Emissions excl. LULUCF (Rank):	1.4% #15	0.9% #21	0.8% #25
			Per-Capita Emissions (tCO2eq/cap)	10t #41	7.4t #61	6.2t #74

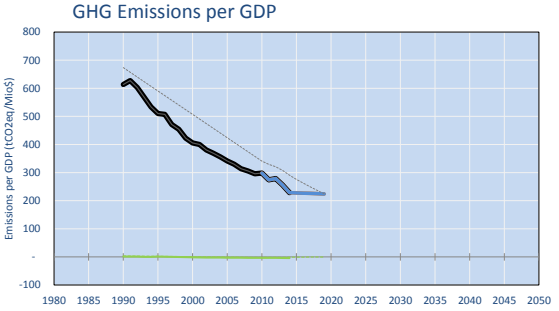
GHG Emissions



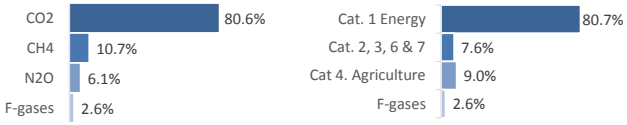
Per-Capita Emissions



GHG Emissions per GDP

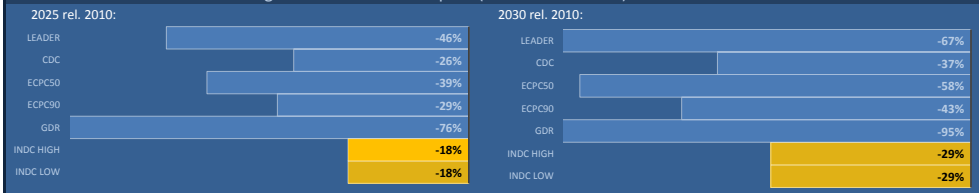


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

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CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-1	-1	-7	-7	-7	-7
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	813	727	707	629	579	579	508	508	436	436
Total GHG excl. LULUCF	813	727	707	629	579	579	508	508	436	436
Total GHG incl. LULUCF	815	725	701	622	579	579	508	508	438	438

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	89%	87%	77%	71%	71%	62%	62%	54%	54%
Relative 2000	112%	100%	97%	87%	80%	80%	70%	70%	60%	60%
Relative 2005	115%	103%	100%	89%	82%	82%	72%	72%	62%	62%
Relative 2010	129%	116%	112%	100%	92%	92%	81%	81%	69%	69%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	57	59	60	63	67	67	69	69	70	70
Per-Capita Emissions (tCO2eq/cap)	14.2	12.3	11.7	10.0	8.7	8.7	7.4	7.4	6.2	6.2
Relative 1990	100%	87%	82%	70%	61%	61%	52%	52%	44%	44%
Relative 2000	115%	100%	95%	81%	70%	70%	60%	60%	50%	50%
Relative 2005	121%	105%	100%	85%	74%	74%	63%	63%	53%	53%
Relative 2010	142%	123%	117%	100%	87%	87%	74%	74%	62%	62%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

Uncertain Forestry & Agriculture Emissions. Nat. Comm. 10x higher. Average of 138 to 153 BAU range taken.

INDC FactSheet

United Republic of Tanzania

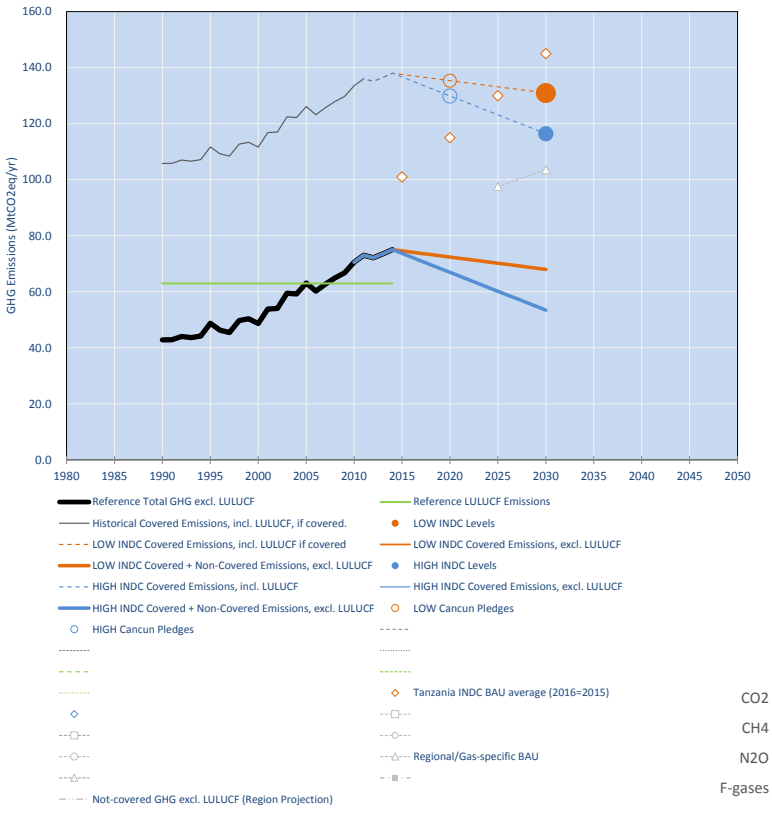
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-53%**

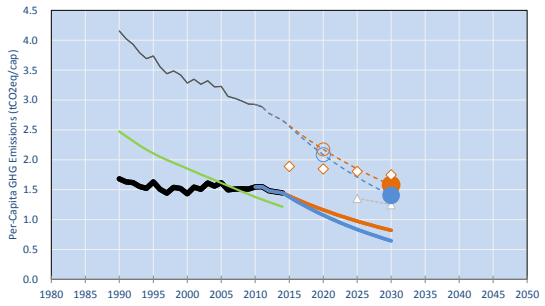
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		-10% rel. BAU of 146 Mt(cond.)	Share of World Emissions excl. LULUCF (Rank):	0.2% #69	0.1% #79	0.1% #83
		-20% rel. BAU of 146 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.5t #164	0.9t #187	0.7t #190

INDC: Reduction of GHG emissions between 10-20% relative to BAU by 2030. (GWP unclear)

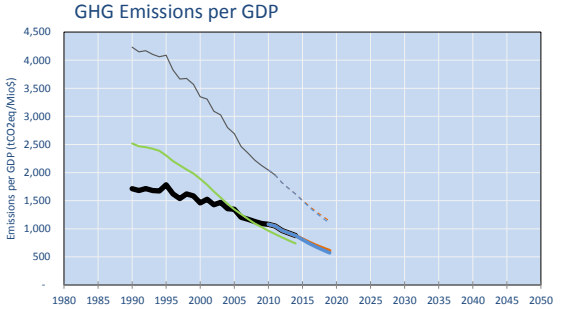
GHG Emissions



Per-Capita Emissions



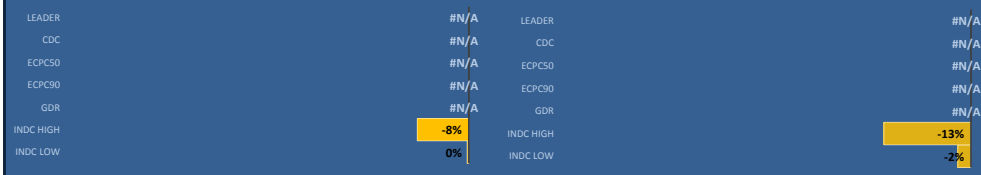
GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	63	63	63	63	63	63	63	63	63	63
INDC covered Emissions excl. LULUCF	43	49	63	71	72	67	70	60	68	53
Total GHG excl. LULUCF	43	49	63	71	72	67	70	60	68	53
Total GHG incl. LULUCF	106	112	126	134	135	130	133	123	131	116

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	114%	147%	165%	169%	156%	164%	141%	159%	125%
Relative 2000	88%	100%	130%	145%	149%	138%	144%	124%	140%	110%
Relative 2005	68%	77%	100%	112%	115%	106%	111%	95%	108%	85%
Relative 2010	61%	69%	89%	100%	103%	95%	99%	85%	96%	76%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	25	34	39	46	62	62	72	72	83	83
Per-Capita Emissions (tCO2eq/cap)	1.7	1.4	1.6	1.5	1.2	1.1	1.0	0.8	0.8	0.6
Relative 1990	100%	85%	96%	92%	69%	64%	58%	50%	49%	38%
Relative 2000	117%	100%	113%	108%	81%	75%	68%	58%	57%	45%
Relative 2005	104%	89%	100%	96%	72%	67%	60%	52%	51%	40%
Relative 2010	109%	93%	105%	100%	75%	70%	63%	54%	53%	42%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat5GMCMWM_C	UNFCCC CRF
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Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
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PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary — Version: 16 Nov. 2015

INDC FactSheet

United States of America

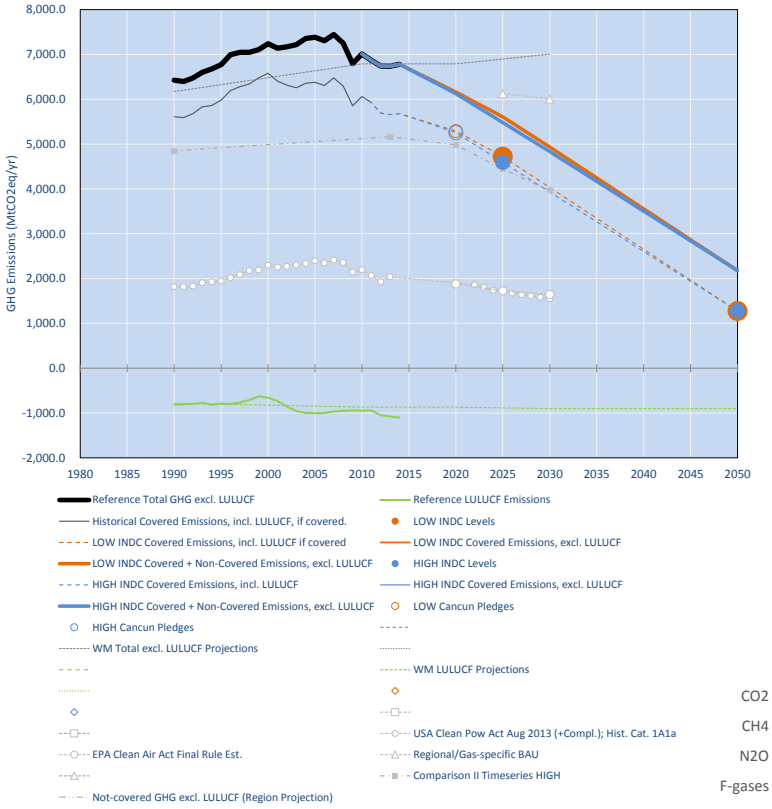
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-39%**

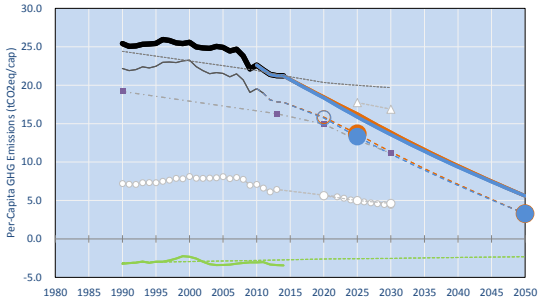
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
-17% rel. 2005	-26% rel.2005		Share of World Emissions excl. LULUCF (Rank):	15.2% #2	10.2% #2	8.8% #3
-17% rel. 2005	-28% rel.2005		Per-Capita Emissions (tCO2eq/cap)	22.6t #11	16.1t #16	13.7t #21

INDC: Reduce GHG emissions by 26-28 per cent below its 2005 level in 2025 and to make best efforts to reduce its emissions by 28%.. (GWP AR4)

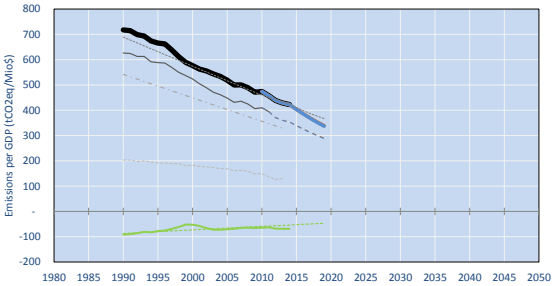
GHG Emissions



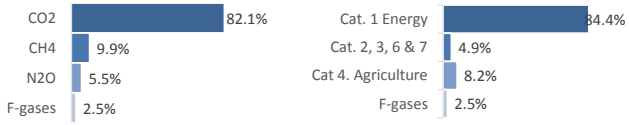
Per-Capita Emissions



GHG Emissions per GDP

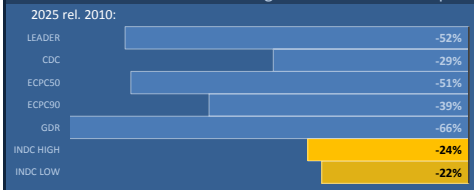


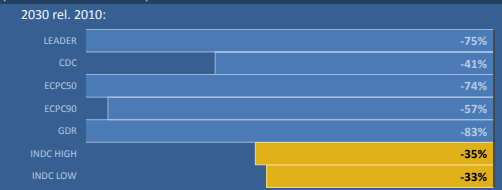
2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org





"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 2005 INDC: -26 to -28%; Leader:-54%; CDC:-33%; ECPC50:-53%; ECPC90:-42%; GDR:-68% — 2030 rel. 2005 INDC: -37 to -38%; Leader:-76%; CDC:-44%; ECPC50:-75%; ECPC90:-59%; GDR:-84%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					4	4				
INDC covered LULUCF Emissions	- 817	- 659	- 1,004	- 947	- 871	- 871	- 887	- 887	- 902	- 902
INDC covered Emissions excl. LULUCF	6,426	7,239	7,383	7,009	6,162	6,124	5,607	5,479	4,933	4,831
Total GHG excl. LULUCF	6,426	7,239	7,383	7,009	6,162	6,124	5,607	5,479	4,933	4,831
Total GHG incl. LULUCF	5,609	6,580	6,379	6,062	5,291	5,253	4,720	4,593	4,031	3,929

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	113%	115%	109%	96%	95%	87%	85%	77%	75%
Relative 2000	89%	100%	102%	97%	85%	85%	77%	76%	68%	67%
Relative 2005	87%	98%	100%	95%	83%	83%	76%	74%	67%	65%
Relative 2010	92%	103%	105%	100%	88%	87%	80%	78%	70%	69%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	253	283	296	310	334	334	345	345	356	356
Per-Capita Emissions (tCO2eq/cap)	25.4	25.6	24.9	22.6	18.5	18.4	16.2	15.9	13.9	13.6
Relative 1990	100%	101%	98%	89%	73%	72%	64%	62%	55%	53%
Relative 2000	99%	100%	97%	88%	72%	72%	63%	62%	54%	53%
Relative 2005	102%	103%	100%	91%	74%	74%	65%	64%	56%	54%
Relative 2010	112%	113%	110%	100%	82%	81%	72%	70%	61%	60%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
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Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
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Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
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Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Numbers preliminary

Version: 16 Nov. 2015

Disaggregated targets. Quantification difficult and uncertain.

INDC FactSheet

Uruguay

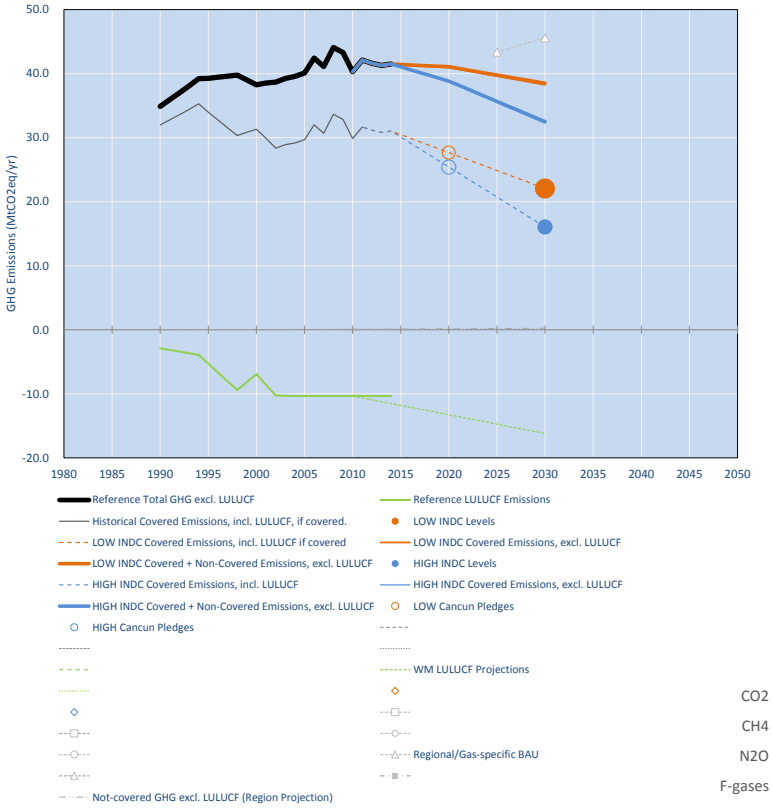
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -17%

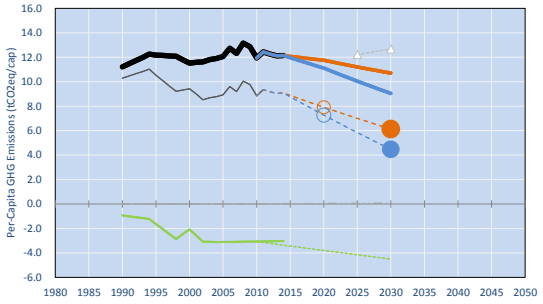
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		targets, with suggested intensity improvments, they 16.1 Mt (Disaggregated targets. Quantification	Share of World Emissions excl. LULUCF (Rank):	0.1% #86	0.1% #104	0.1% #108
			Per-Capita Emissions (tCO2eq/cap)	11.9t #27	10.6t #32	9.9t #34

INDC: Sectoral intensity target covering all sectors Conditional target: achieve higher reduction pending on external sources. (GWP unclear)

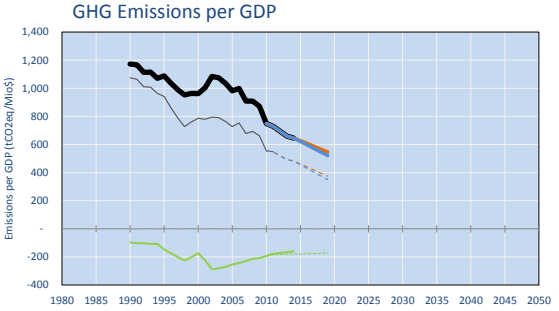
GHG Emissions



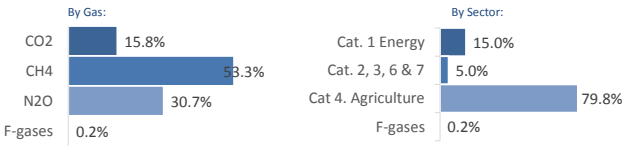
Per-Capita Emissions



GHG Emissions per GDP

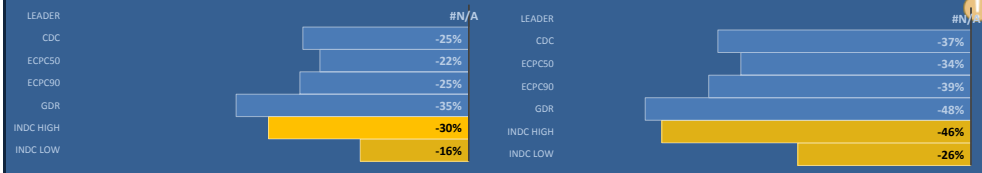


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 3	- 7	- 10	- 10	- 13	- 13	- 15	- 15	- 16	- 16
INDC covered Emissions excl. LULUCF	35	38	40	40	41	39	40	35	38	32
Total GHG excl. LULUCF	35	38	40	40	41	39	40	36	39	33
Total GHG incl. LULUCF	32	31	30	30	28	26	25	21	22	16

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	110%	115%	116%	118%	111%	114%	102%	110%	93%
Relative 2000	91%	100%	105%	105%	107%	102%	104%	93%	101%	85%
Relative 2005	87%	95%	100%	100%	102%	97%	99%	89%	96%	81%
Relative 2010	87%	95%	100%	100%	102%	96%	99%	88%	96%	81%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	3	3	3	3	3	3	4	4	4	4
Per-Capita Emissions (tCO2eq/cap)	11.2	11.5	12.1	11.9	11.8	11.1	11.2	10.0	10.7	9.0
Relative 1990	100%	103%	108%	106%	105%	99%	100%	90%	96%	81%
Relative 2000	97%	100%	105%	104%	102%	96%	97%	87%	93%	79%
Relative 2005	93%	96%	100%	99%	98%	92%	93%	83%	89%	75%
Relative 2010	94%	96%	101%	100%	98%	93%	94%	84%	90%	76%

Data Sources:

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Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
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Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
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AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Vanuatu

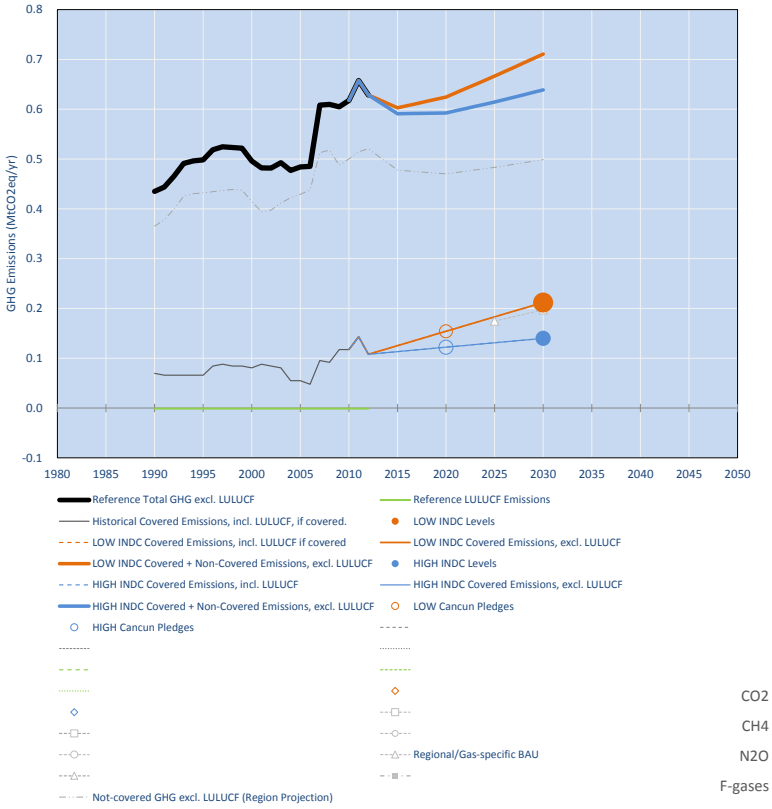
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-27%**

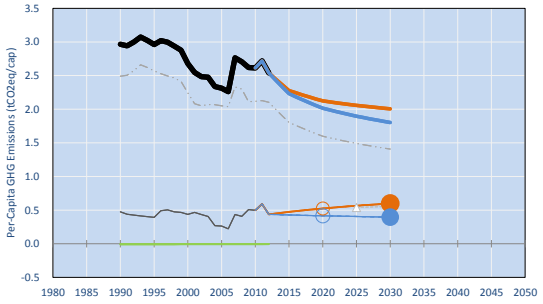
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		0% rel. BAU of 0 Mt	Share of World Emissions excl. LULUCF (Rank):	0.0% #177	0.0% #177	0.0% #178
		-34% rel. BAU of 0 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.6t #133	2t #154	1.9t #155

INDC: Reduction of emissions by 100% below BAU for electricity sub-sector and 30% for the energy sector by approaching 100% renewable energy subject to funding and support. (n/a (only CO2))

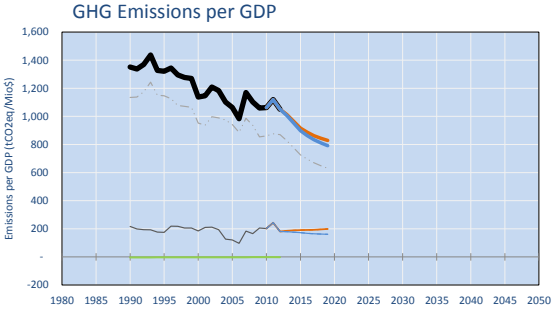
GHG Emissions



Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF

Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
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ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	0	0	0	0	0	0	0	0	0	0
Total GHG excl. LULUCF	0	0	0	1	1	1	1	1	1	1
Total GHG incl. LULUCF	0	0	0	1	1	1	1	1	1	1

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	114%	111%	142%	144%	136%	153%	141%	163%	147%
Relative 2000	88%	100%	98%	125%	126%	119%	134%	124%	143%	129%
Relative 2005	90%	102%	100%	128%	129%	122%	138%	127%	147%	132%
Relative 2010	70%	80%	78%	100%	101%	96%	108%	99%	115%	103%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	0	0	0	0	0	0	0	0	0	0
Per-Capita Emissions (tCO2eq/cap)	3.0	2.7	2.3	2.6	2.1	2.0	2.1	1.9	2.0	1.8
Relative 1990	100%	90%	78%	88%	72%	68%	69%	64%	68%	61%
Relative 2000	111%	100%	86%	98%	79%	75%	77%	71%	75%	67%
Relative 2005	128%	116%	100%	113%	92%	87%	89%	82%	87%	78%
Relative 2010	114%	103%	88%	100%	81%	77%	79%	73%	77%	69%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

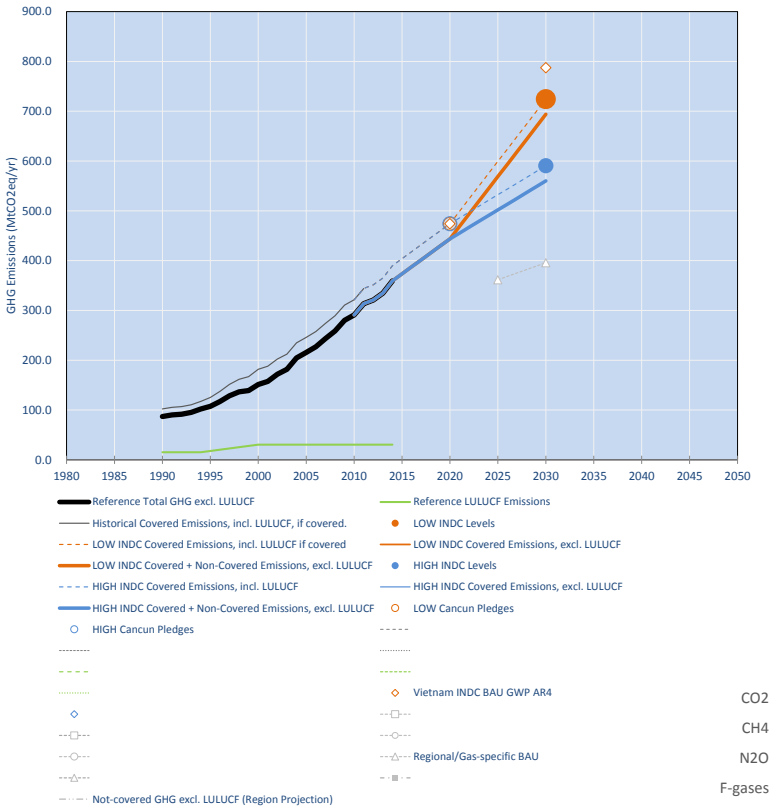
Viet Nam

Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

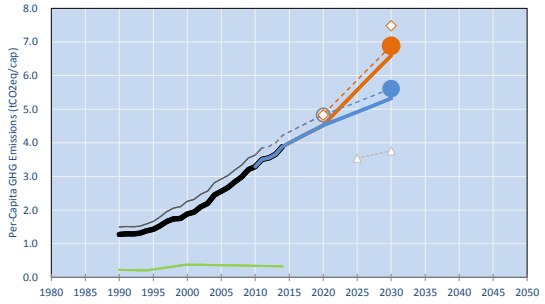
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+81%**

Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
0% rel. BAU of 474.1		-8% rel. BAU of 787 Mt	Share of World Emissions excl. LULUCF (Rank):	0.6% #31	1.0% #19	1.1% #15
0% rel. BAU of 474.1		-25% rel. BAU of 787 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	3.3t #117	5.2t #90	6t #78

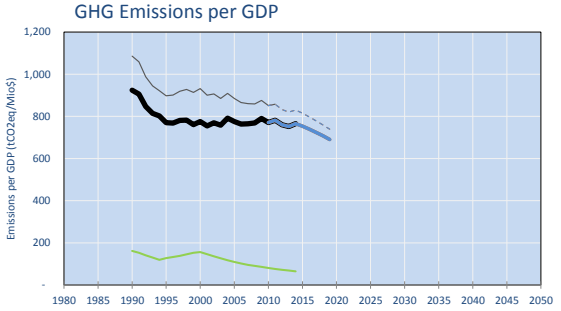
GHG Emissions



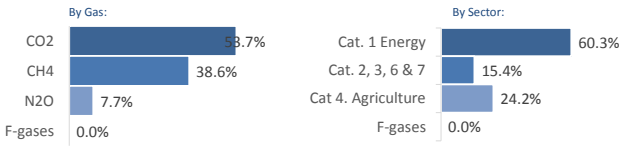
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	15	30	30	30	30	30	30	30	30	30
INDC covered Emissions excl. LULUCF	87	151	216	291	444	444	569	502	694	560
Total GHG excl. LULUCF	87	151	216	291	444	444	569	502	694	560
Total GHG incl. LULUCF	102	182	246	321	474	474	599	532	724	591

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	174%	248%	335%	510%	510%	654%	577%	798%	644%
Relative 2000	57%	100%	142%	192%	293%	293%	376%	332%	459%	370%
Relative 2005	40%	70%	100%	135%	206%	206%	264%	233%	322%	260%
Relative 2010	30%	52%	74%	100%	153%	153%	196%	173%	239%	193%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	68	80	84	88	98	98	102	102	105	105
Per-Capita Emissions (tCO2eq/cap)	1.3	1.9	2.6	3.3	4.5	4.5	5.6	4.9	6.6	5.3
Relative 1990	100%	148%	201%	258%	355%	355%	437%	386%	517%	418%
Relative 2000	68%	100%	136%	175%	240%	240%	296%	261%	350%	282%
Relative 2005	50%	74%	100%	129%	176%	176%	218%	192%	258%	208%
Relative 2010	39%	57%	78%	100%	137%	137%	169%	149%	200%	162%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST15	Cat5GMCMWM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST15	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST15	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST15	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
Population	UN 2015 Population Projections MEDIUM		
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IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Numbers preliminary

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Stated 2010 Emissions in INDC higher than other sources.

INDC FactSheet

Zambia

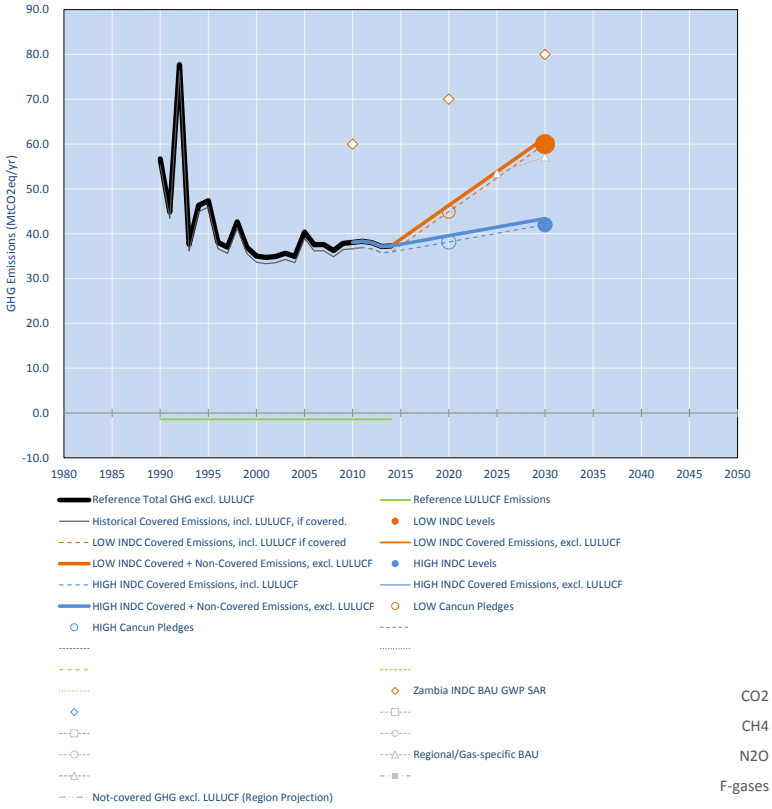
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-24%**

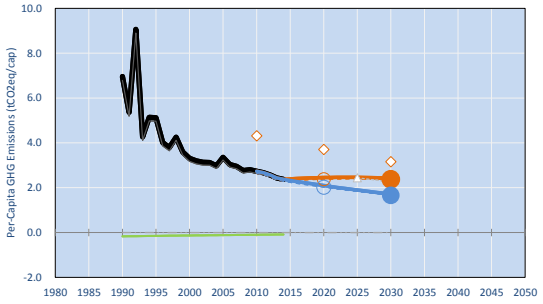
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
		60 Mt (Policies)	Share of World Emissions excl. LULUCF (Rank):	0.1% #90	0.1% #91	0.1% #88
		42 Mt (Policies)(cond.)	Per-Capita Emissions (tCO2eq/cap)	2.7t #131	2.2t #147	2.1t #148

INDC: Intends to reduce emissions by implementing programs driven by county's Climate Response Strategy and supported by national development policies, extent of reduction dependend on domestic effort and international resources. (GWP SAR)

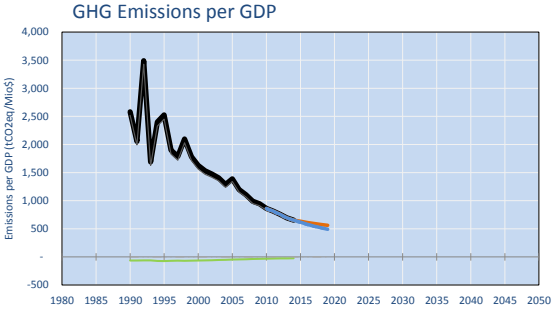
GHG Emissions



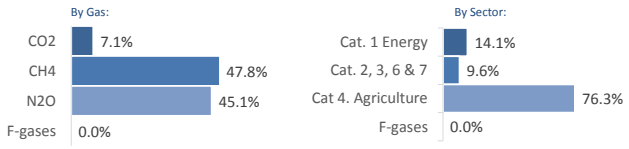
Per-Capita Emissions



GHG Emissions per GDP

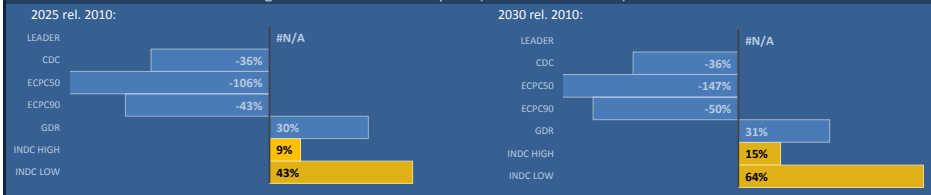


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



Shown fair contributinos only indicative

"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1	- 1
INDC covered Emissions excl. LULUCF	57	35	40	38	46	40	54	41	61	43
Total GHG excl. LULUCF	57	35	40	38	46	40	54	41	61	43
Total GHG incl. LULUCF	55	34	39	37	45	38	52	40	60	42

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	62%	71%	67%	82%	70%	95%	73%	108%	77%
Relative 2000	162%	100%	115%	109%	132%	113%	154%	118%	175%	124%
Relative 2005	140%	87%	100%	94%	115%	98%	133%	103%	152%	107%
Relative 2010	149%	92%	106%	100%	122%	104%	142%	109%	161%	114%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	8	11	12	14	19	19	22	22	25	25
Per-Capita Emissions (tCO2eq/cap)	7.0	3.3	3.4	2.7	2.5	2.1	2.5	1.9	2.4	1.7
Relative 1990	100%	48%	48%	39%	35%	30%	35%	27%	35%	25%
Relative 2000	210%	100%	101%	83%	74%	63%	74%	57%	73%	52%
Relative 2005	208%	99%	100%	82%	73%	63%	73%	57%	72%	51%
Relative 2010	255%	121%	123%	100%	90%	77%	90%	69%	89%	63%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST15	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
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Cat1_CH4	PRIMAPHIST15	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST15	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	COUNTRY-SPECIFIC USER DATA	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST15	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST15	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
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Cat5_N2O	PRIMAPHIST15	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST15		
Cat0_PFCs	PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	PRIMAPHIST15		
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GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

Zimbabwe

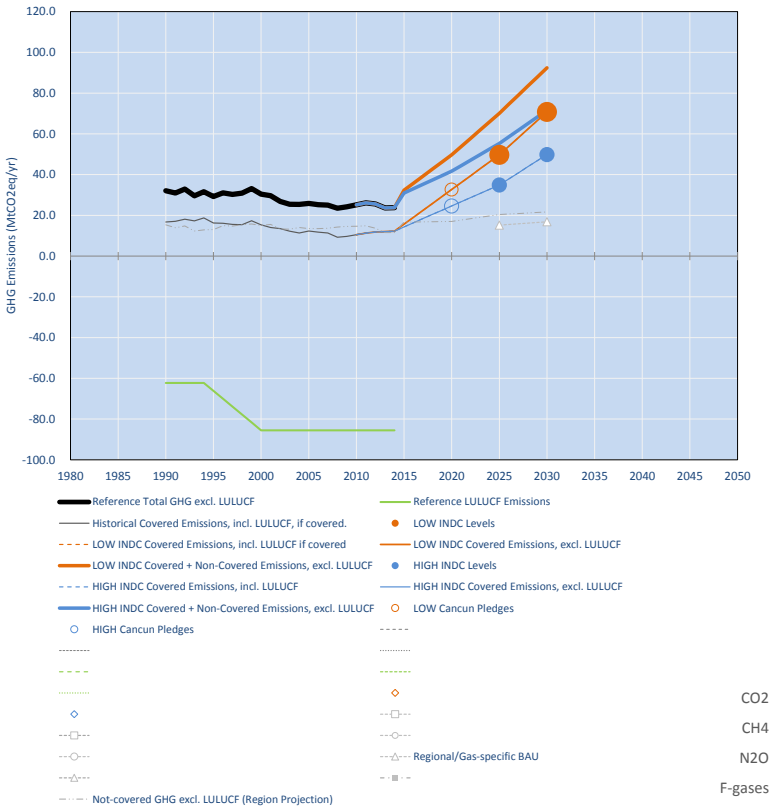
Shown are averages for low and high or conditional and unconditional INDCs and their inter-/extrapolations

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **+113%**

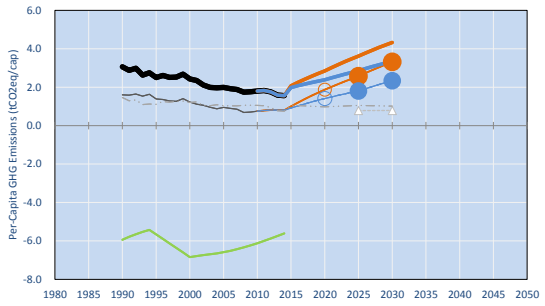
Cancun 2020	INDC 2025	INDC 2030		2010 World Rank	2025 World Rank	2030 World Rank
	0% rel. BAU of 49.7 Mt	0% rel. BAU of 71 Mt	Share of World Emissions excl. LULUCF (Rank):	0.1% #112	0.1% #81	0.1% #71
	-30% rel. BAU of 49.7 Mt	-30% rel. BAU of 71 Mt(cond.)	Per-Capita Emissions (tCO2eq/cap)	1.8t #158	3.2t #123	3.8t #111

INDC: Reduction of emissions per capita by 33% compared to BAU conditional to full implementation by developed contries to their commitments relating to finance, technology and capacity persuant to Article 4 of the Convention. (GWP unclear)

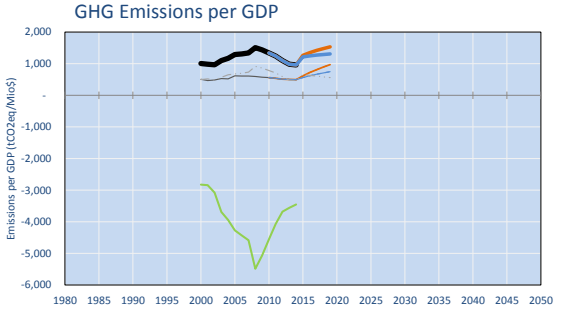
GHG Emissions



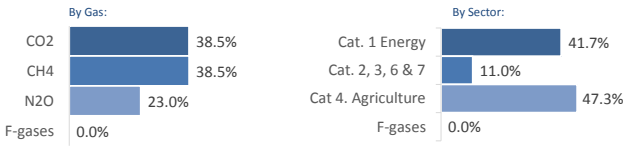
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org

	2025 rel. 2010:		2030 rel. 2010:	
LEADER	#N/A	LEADER	#N/A	No results shown, as 2010 total incl. LULUCF emissions below zero
CDC	#N/A	CDC	#N/A	
ECPC50	#N/A	ECPC50	#N/A	"Fair" contributions for a global 'least-cost' 2°C track:
ECPC90	#N/A	ECPC90	#N/A	LEADER Leader
GDR	#N/A	GDR	#N/A	CDC Common-but-diff. per-cap. convergence
INDC HIGH	#N/A	INDC HIGH	#N/A	ECPC50 Eq. cum. Per-capita since 1950
INDC LOW	#N/A	INDC LOW	#N/A	ECPC90 Eq. cum. Per-capita since 1990
				GDR Greenhouse Development Rights
				#N/A No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)										
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	17	15	12	10	33	25	50	35	71	50
Total GHG excl. LULUCF	32	30	26	25	50	42	70	55	92	71
Total GHG incl. LULUCF	- 30	- 55	- 60	- 60	- 36	- 44	- 15	- 30	7	- 14

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	95%	80%	78%	155%	130%	218%	172%	288%	223%
Relative 2000	106%	100%	85%	83%	164%	137%	231%	182%	304%	235%
Relative 2005	124%	118%	100%	97%	193%	161%	271%	214%	358%	277%
Relative 2010	128%	121%	103%	100%	198%	166%	279%	220%	367%	284%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	10	12	13	14	17	17	19	19	21	21
Per-Capita Emissions (tCO2eq/cap)	3.1	2.4	2.0	1.8	2.8	2.4	3.6	2.9	4.3	3.3
Relative 1990	100%	79%	65%	59%	93%	78%	118%	93%	141%	109%
Relative 2000	126%	100%	82%	74%	117%	98%	149%	117%	178%	138%
Relative 2005	154%	122%	100%	91%	143%	120%	182%	144%	218%	168%
Relative 2010	170%	135%	110%	100%	158%	132%	201%	159%	240%	186%

Data Sources:

Cat1_CO2	PRIMAPHIST15	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST15	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
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a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

INDC FactSheet

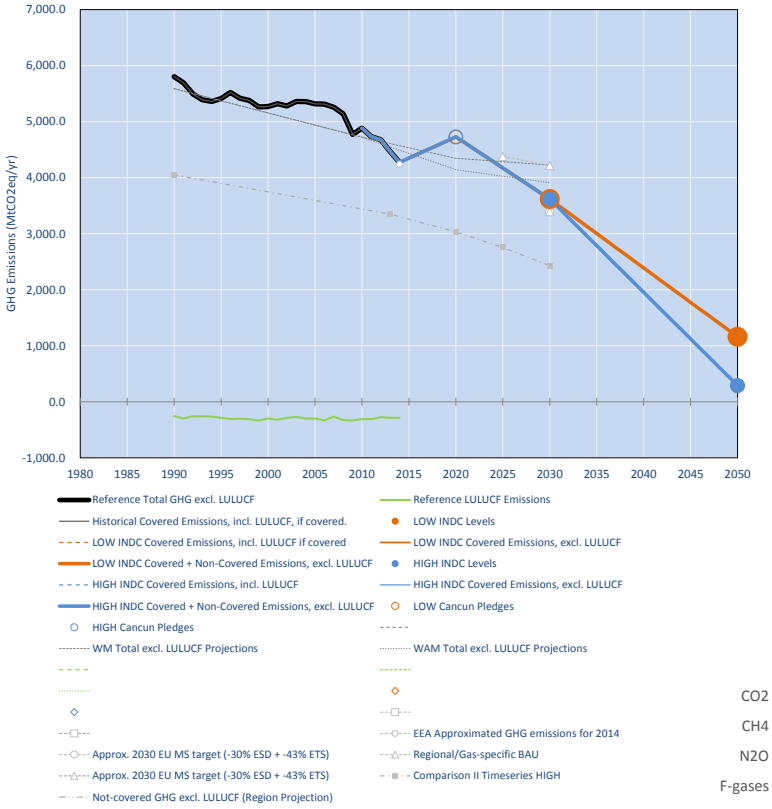
EU28

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): -27%

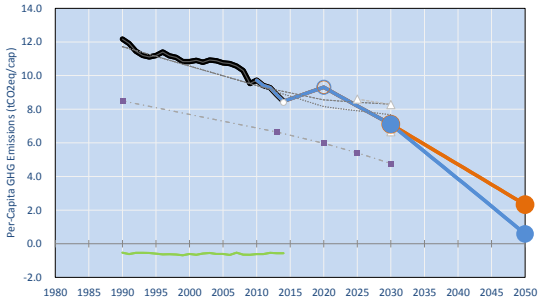
Cancun 2020	INDC 2025	INDC 2030		2010	2025	2030
-20% rel. 1990		-40% rel.1990	Share of World Emissions excl. LULUCF (Rank):	10.6%	7.7%	6.5%
			Per-Capita Emissions (tCO2eq/cap)	9.7t	8.2t	7.1t

INDC: At least 40% reduction of GHG emissions by 2030 compared to 1990. ()

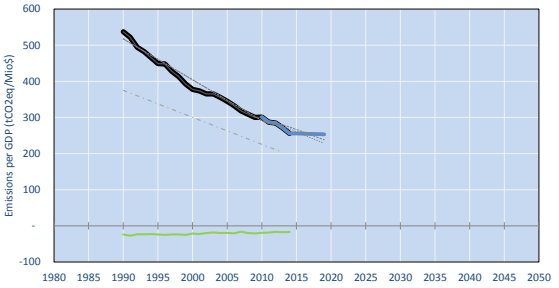
GHG Emissions



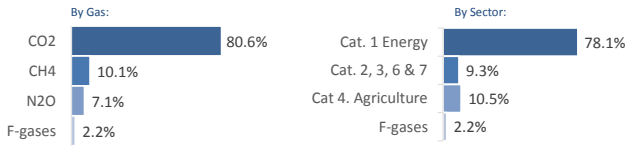
Per-Capita Emissions



GHG Emissions per GDP

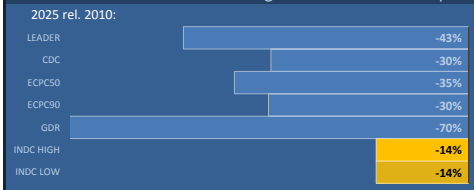


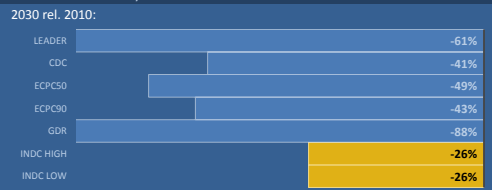
2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org





"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

Total incl. LULUCF: 2025 rel. 1990 INDC: -29%; Leader:-53%; CDC:-42%; ECPC50:-47%; ECPC90:-42%; GDR:-75% — 2030 rel. 1990 INDC: -39%; Leader:-68%; CDC:-51%; ECPC50:-58%; ECPC90:-53%; GDR:-90%

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 85	- 85	- 137	- 137	- 137	- 137
INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-	-	-
INDC covered Emissions excl. LULUCF	5,803	5,271	5,318	4,882	4,728	4,728	4,173	4,173	3,619	3,619
Total GHG excl. LULUCF	5,803	5,271	5,318	4,882	4,728	4,728	4,173	4,173	3,619	3,619
Total GHG incl. LULUCF	5,548	4,974	5,018	4,573	4,459	4,459	3,934	3,934	3,391	3,391

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	91%	92%	84%	81%	81%	72%	72%	62%	62%
Relative 2000	110%	100%	101%	93%	90%	90%	79%	79%	69%	69%
Relative 2005	109%	99%	100%	92%	89%	89%	78%	78%	68%	68%
Relative 2010	119%	108%	109%	100%	97%	97%	85%	85%	74%	74%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	477	487	494	502	508	508	509	509	509	509
Per-Capita Emissions (tCO2eq/cap)	12.2	10.8	10.8	9.7	9.3	9.3	8.2	8.2	7.1	7.1
Relative 1990	100%	89%	88%	80%	76%	76%	67%	67%	58%	58%
Relative 2000	112%	100%	99%	90%	86%	86%	76%	76%	66%	66%
Relative 2005	113%	101%	100%	90%	87%	87%	76%	76%	66%	66%
Relative 2010	125%	111%	111%	100%	96%	96%	84%	84%	73%	73%

Data Sources:

Cat1_CO2	PRIMAPHIST15
Cat2367_CO2	PRIMAPHIST15
Cat4_CO2	PRIMAPHIST15
Cat5_CO2	PRIMAPHIST15
Cat1_CH4	PRIMAPHIST15
Cat2367_CH4	PRIMAPHIST15
Cat4_CH4	PRIMAPHIST15
Cat5_CH4	PRIMAPHIST15
Cat1_N2O	PRIMAPHIST15
Cat2367_N2O	PRIMAPHIST15
Cat4_N2O	PRIMAPHIST15
Cat5_N2O	PRIMAPHIST15
Cat0_HFCs	PRIMAPHIST15
Cat0_PFCs	PRIMAPHIST15
Cat0_SF6	PRIMAPHIST15
Population	UN 2015 Population Projections MEDIUM
GDP	IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	UNFCCC CRF + Nat. Comms.
Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

World emissions here do not contain land-use, but aggregate LULUCF emissions. Not directly comparable to IPCC AR5 scenarios.

INDC FactSheet

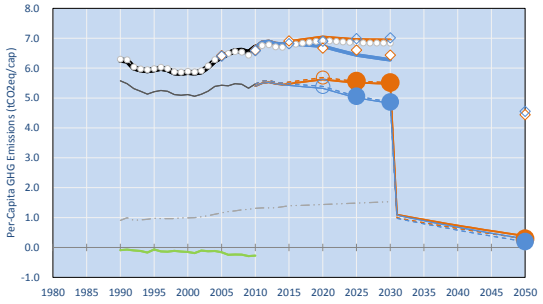
World

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-1%**

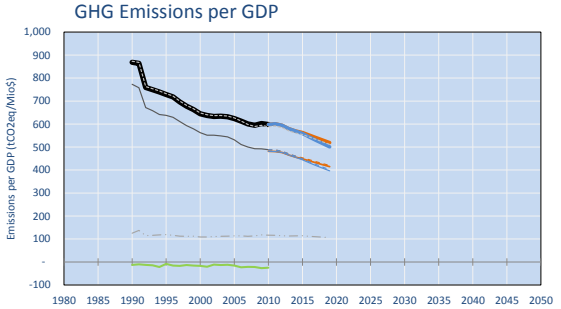
Cancun 2020	INDC 2025	INDC 2030		2010	2025	2030
			Share of World Emissions excl. LULUCF (Rank):	100.0%	100.0%	100.0%
			Per-Capita Emissions (tCO2eq/cap)	6.7t	6.7t	6.6t

GHG Emissions

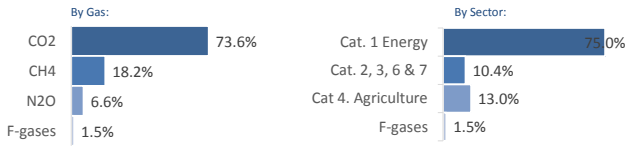
Per-Capita Emissions



GHG Emissions per GDP

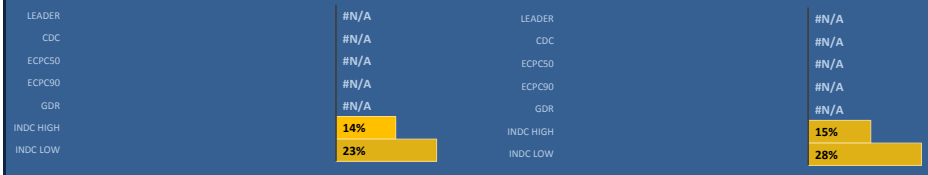


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-	-				
INDC covered LULUCF Emissions	1,143	1,504	1,407	537	515	515	401	401	288	288
INDC covered Emissions excl. LULUCF	28,251	29,606	33,711	37,103	43,332	41,053	44,608	40,534	46,289	40,797
Total GHG excl. LULUCF	33,025	35,629	41,220	46,106	54,202	51,922	56,209	52,135	58,559	53,067
Total GHG incl. LULUCF	32,557	34,707	40,194	44,220	52,297	50,017	54,268	50,194	56,531	51,039
Total GHG incl. land-use, harmonised	38,498	40,329	45,204	48,383	54,347	52,068	56,491	52,417	58,711	53,219

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	108%	125%	140%	164%	157%	170%	158%	177%	161%
Relative 2000	93%	100%	116%	129%	152%	146%	158%	146%	164%	149%
Relative 2005	80%	86%	100%	112%	131%	126%	136%	126%	142%	129%
Relative 2010	72%	77%	89%	100%	118%	113%	122%	113%	127%	115%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	5,272	6,079	6,471	6,882	7,711	7,711	8,093	8,093	8,451	8,451
Per-Capita Emissions (tCO2eq/cap)	6.3	5.9	6.4	6.7	7.0	6.7	6.9	6.4	6.9	6.3
Relative 1990	100%	94%	102%	107%	112%	108%	111%	103%	111%	100%
Relative 2000	107%	100%	109%	114%	120%	115%	118%	110%	118%	107%
Relative 2005	98%	92%	100%	105%	110%	106%	109%	101%	109%	99%
Relative 2010	93%	87%	95%	100%	105%	101%	104%	96%	103%	94%

Data Sources:

Cat1_CO2	Def: PRIMAPHIST15	Cat5A1_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat2367_CO2	Def: PRIMAPHIST15	Cat5A2_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat4_CO2	Def: PRIMAPHIST15	Cat5LtoNonFL_CO	Def: UNFCCC CRF + Nat. Comms.
Cat5_CO2	Def: PRIMAPHIST15	Cat5GMCMWM_C	Def: UNFCCC CRF
Cat1_CH4	Def: PRIMAPHIST15	Cat5A1ForestFires	Def: UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	Def: PRIMAPHIST15	Cat5A1HWP_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat4_CH4	Def: PRIMAPHIST15	Cat5bisA_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5_CH4	Def: PRIMAPHIST15	Cat5bisB_CO2	Def: UNFCCC CRF + NATCOMM.
Cat1_N2O	Def: PRIMAPHIST15	Cat5bisC_CO2	Def: UNFCCC CRF + NATCOMM.
Cat2367_N2O	Def: PRIMAPHIST15	Cat5bisD_CO2	Def: UNFCCC CRF + NATCOMM.
Cat4_N2O	Def: PRIMAPHIST15	Cat5bisE_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5_N2O	Def: PRIMAPHIST15	PRO_WM_Cat5_G	Def: UNFCCC Annex I Reports
Cat0_HFCs	Def: PRIMAPHIST15		
Cat0_PFCs	Def: PRIMAPHIST15	Metric	GWP AR4
Cat0_SF6	Def: PRIMAPHIST15		
Population	Def: UN 2015 Population Projections MEDIUM		
GDP	Def: IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...		
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST		

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

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Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary Version: 16 Nov. 2015

INDC FactSheet

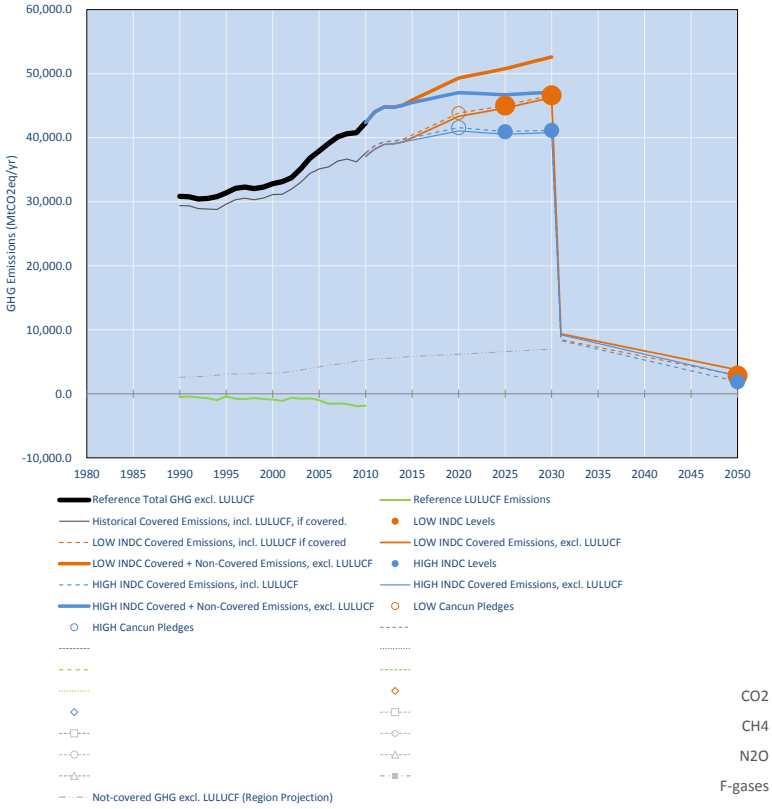
INDC countries

Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-3%**

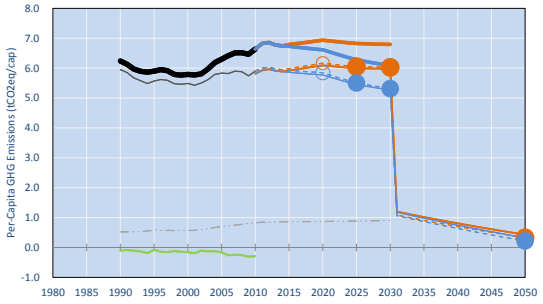
Cancun 2020 | INDC 2025 | INDC 2030

	2010	2025	2030
Share of World Emissions excl. LULUCF (Rank):	91.9%	90.0%	89.3%
Per-Capita Emissions (tCO2eq/cap)	6.6t	6.6t	6.4t

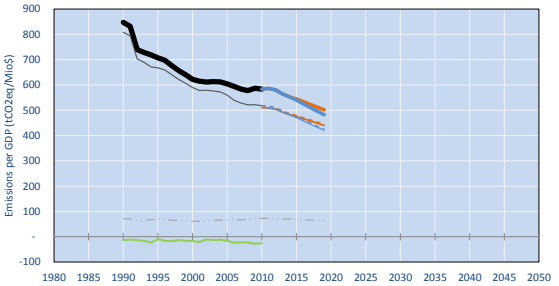
GHG Emissions



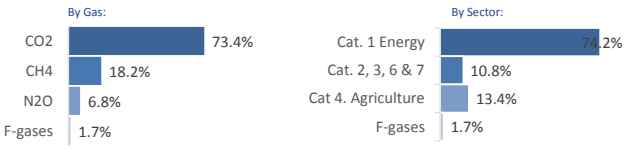
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					-	-				
INDC covered LULUCF Emissions	1,143	1,504	1,407	537	515	515	401	401	288	288
INDC covered Emissions excl. LULUCF	28,251	29,606	33,711	37,103	43,332	41,053	44,608	40,534	46,289	40,797
Total GHG excl. LULUCF	30,829	32,816	37,916	42,373	49,310	47,031	50,773	46,699	52,603	47,112
Total GHG incl. LULUCF	30,325	31,925	36,920	40,517	47,435	45,156	48,863	44,789	50,606	45,114

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	106%	123%	137%	160%	153%	165%	151%	171%	153%
Relative 2000	94%	100%	116%	129%	150%	143%	155%	142%	160%	144%
Relative 2005	81%	87%	100%	112%	130%	124%	134%	123%	139%	124%
Relative 2010	73%	77%	89%	100%	116%	111%	120%	110%	124%	111%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	4,941	5,670	6,020	6,382	7,112	7,112	7,439	7,439	7,742	7,742
Per-Capita Emissions (tCO2eq/cap)	6.2	5.8	6.3	6.6	6.9	6.6	6.8	6.3	6.8	6.1
Relative 1990	100%	93%	101%	106%	111%	106%	109%	101%	109%	98%
Relative 2000	108%	100%	109%	115%	120%	114%	118%	108%	117%	105%
Relative 2005	99%	92%	100%	105%	110%	105%	108%	100%	108%	97%
Relative 2010	94%	87%	95%	100%	104%	100%	103%	95%	102%	92%

Data Sources:

Cat1_CO2	Def: PRIMAPHIST15
Cat2367_CO2	Def: PRIMAPHIST15
Cat4_CO2	Def: PRIMAPHIST15
Cat5_CO2	Def: PRIMAPHIST15
Cat1_CH4	Def: PRIMAPHIST15
Cat2367_CH4	Def: PRIMAPHIST15
Cat4_CH4	Def: PRIMAPHIST15
Cat5_CH4	Def: PRIMAPHIST15
Cat1_N2O	Def: PRIMAPHIST15
Cat2367_N2O	Def: PRIMAPHIST15
Cat4_N2O	Def: PRIMAPHIST15
Cat5_N2O	Def: PRIMAPHIST15
Cat0_HFCs	Def: PRIMAPHIST15
Cat0_PFCs	Def: PRIMAPHIST15
Cat0_SF6	Def: PRIMAPHIST15
Population	Def: UN 2015 Population Projections MEDIUM
GDP	Def: IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST

Cat5A1_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	Def: UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	Def: UNFCCC CRF
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Cat5bisA_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	Def: UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	Def: UNFCCC Annex I Reports
Metric	GWP AR4

PRIMAPHIST15 description: http://bit.ly/1X1gSAY

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a project with PRIMAP at PIK:

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary

Version: 16 Nov. 2015

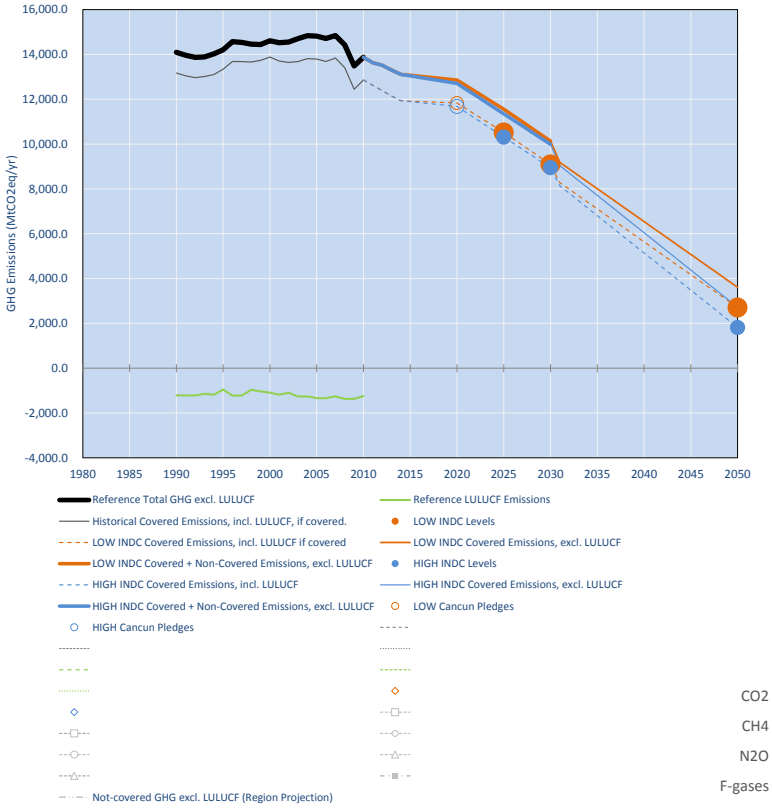
INDC FactSheet

G7

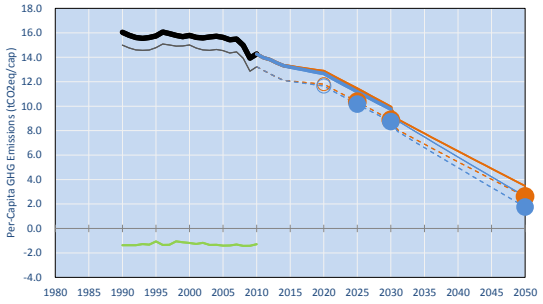
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): **-31%**

Cancun 2020	INDC 2025	INDC 2030		2010	2025	2030
			Share of World Emissions excl. LULUCF (Rank):	30.1%	21.2%	18.1%
			Per-Capita Emissions (tCO2eq/cap)	14.3t	11.3t	9.8t

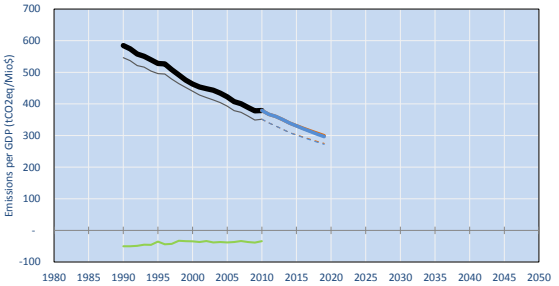
GHG Emissions



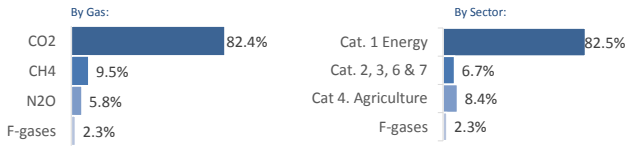
Per-Capita Emissions



GHG Emissions per GDP

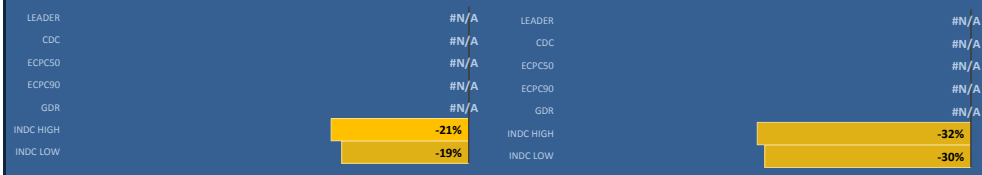


2010 Total GHG Emissions excl. LULUCF



Various 'Fair' contributions for a global "least-cost" 2°C path (Total incl. LULUCF):

More info on www.mitigation-contributions.org



"Fair" contributions for a global 'least-cost' 2°C track:

LEADER	Leader
CDC	Common-but-diff. per-cap. convergence
ECPC50	Eq. cum. Per-capita since 1950
ECPC90	Eq. cum. Per-capita since 1990
GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

(MtCO2eq/yr in GWP AR4)	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Assumed LULUCF Accounting Credits (-)/Debits (+)					84	112	151	151	151	151
INDC covered LULUCF Emissions	926	724	1,022	1,015	1,027	1,027	1,036	1,036	1,044	1,044
INDC covered Emissions excl. LULUCF	14,098	14,608	14,819	13,873	12,859	12,709	11,557	11,351	10,135	9,990
Total GHG excl. LULUCF	14,098	14,608	14,819	13,873	12,859	12,709	11,557	11,351	10,135	9,990
Total GHG incl. LULUCF	12,888	13,515	13,480	12,621	11,564	11,413	10,207	10,001	8,789	8,644

Relative GHG Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Relative 1990	100%	104%	105%	98%	91%	90%	82%	81%	72%	71%
Relative 2000	97%	100%	101%	95%	88%	87%	79%	78%	69%	68%
Relative 2005	95%	99%	100%	94%	87%	86%	78%	77%	68%	67%
Relative 2010	102%	105%	107%	100%	93%	92%	83%	82%	73%	72%

Per-Capita Emissions

Total excl. LULUCF	1990	2000	2005	2010	2020 low	2020 high	2025 low	2025 high	2030 low	2030 high
Population (Mio)	879	925	949	972	1,003	1,003	1,015	1,015	1,024	1,024
Per-Capita Emissions (tCO2eq/cap)	16.0	15.8	15.6	14.3	12.8	12.7	11.4	11.2	9.9	9.8
Relative 1990	100%	98%	97%	89%	80%	79%	71%	70%	62%	61%
Relative 2000	102%	100%	99%	90%	81%	80%	72%	71%	63%	62%
Relative 2005	103%	101%	100%	91%	82%	81%	73%	72%	63%	62%
Relative 2010	112%	111%	109%	100%	90%	89%	80%	78%	69%	68%

Data Sources:

Cat1_CO2	Def: PRIMAPHIST15
Cat2367_CO2	Def: PRIMAPHIST15
Cat4_CO2	Def: PRIMAPHIST15
Cat5_CO2	Def: PRIMAPHIST15
Cat1_CH4	Def: PRIMAPHIST15
Cat2367_CH4	Def: PRIMAPHIST15
Cat4_CH4	Def: PRIMAPHIST15
Cat5_CH4	Def: PRIMAPHIST15
Cat1_N2O	Def: PRIMAPHIST15
Cat2367_N2O	Def: PRIMAPHIST15
Cat4_N2O	Def: PRIMAPHIST15
Cat5_N2O	Def: PRIMAPHIST15
Cat0_HFCs	Def: PRIMAPHIST15
Cat0_PFCs	Def: PRIMAPHIST15
Cat0_SF6	Def: PRIMAPHIST15
Population	Def: UN 2015 Population Projections MEDIUM
GDP	Def: IMF WEO 2015, PPP adjusted GDP, constant 2009 prices...
IPCC WG3 Scenario	IMAGE | AMPERE2-550-FullTech-HST
PRIMAPHIST15 description: http://bit.ly/1X1gSAY	

Cat5A1_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat5A2_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat5LtoNonFL_CO	Def: UNFCCC CRF + Nat. Comms.
Cat5GMCMWM_C	Def: UNFCCC CRF
Cat5A1ForestFires	Def: UNFCCC Cat5 + EDGAR(IPCC Database)
Cat5A1HWP_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat5bisA_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisB_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisC_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisD_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5bisE_CO2	Def: UNFCCC CRF + NATCOMM.
PRO_WM_Cat5_G	Def: UNFCCC Annex I Reports
Metric	GWP AR4

... And multiple other sources. Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team.

This Factsheet is available at www.climatecollege.unimelb.edu.au/indc-factsheets. Check out as well: www.climateactiontracker.org, www.mitigation-contributions.org, cait.wri.org and infographics.pbl.nl/indc

Malte Meinshausen et al., www.climatecollege.unimelb.edu.au/indc-factsheets, The University of Melbourne

a project with PRIMAP at PIK:

PIK

THE UNIVERSITY OF MELBOURNE

AUSTRALIAN-GERMAN CLIMATE & ENERGY COLLEGE

Numbers preliminary Version: 16 Nov. 2015

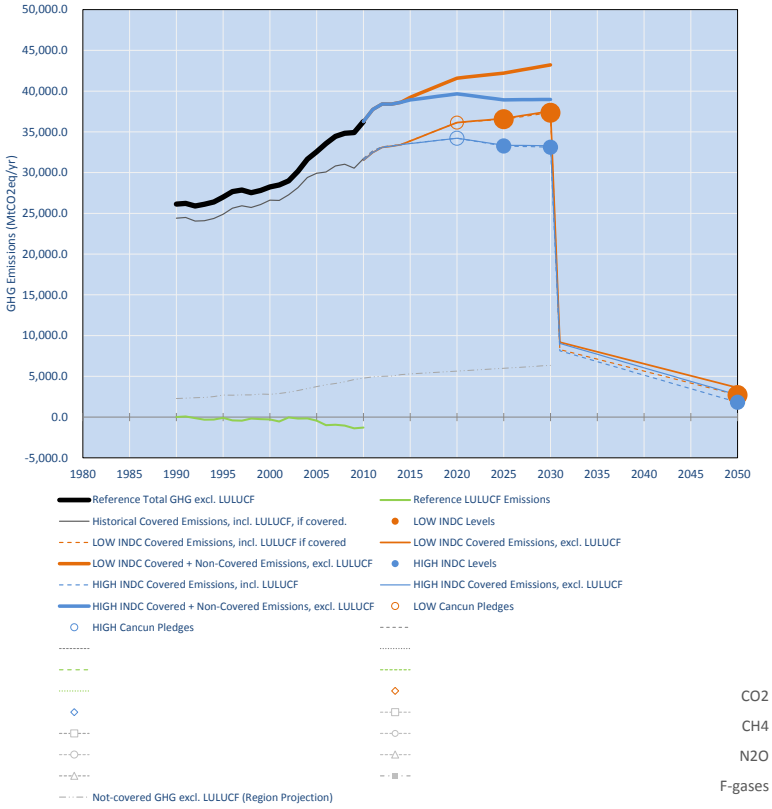
INDC FactSheet

G20

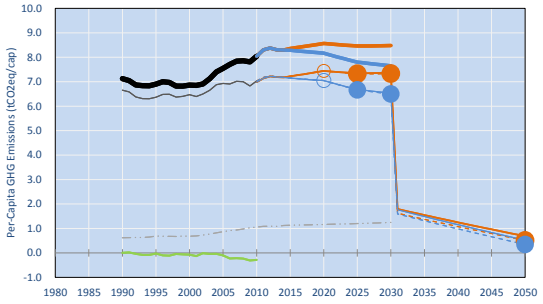
Per-Capita Emissions in 2030 rel. 2010 (excl. LULUCF): +0%

Cancun 2020	INDC 2025	INDC 2030		2010	2025	2030
			Share of World Emissions excl. LULUCF (Rank):	78.7%	74.9%	73.6%
			Per-Capita Emissions (tCO2eq/cap)	8t	8.1t	8.1t

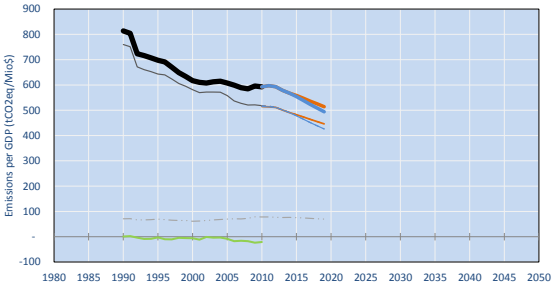
GHG Emissions



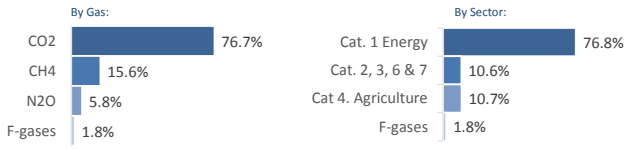
Per-Capita Emissions



GHG Emissions per GDP



2010 Total GHG Emissions excl. LULUCF



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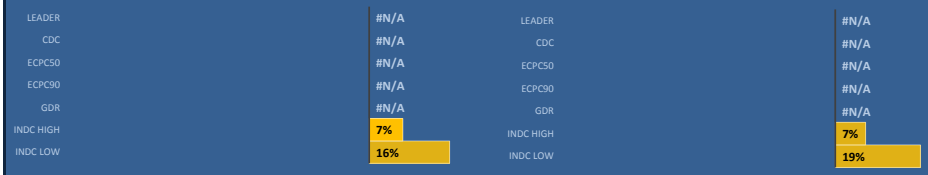

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GDR	Greenhouse Development Rights
#N/A	No available data

GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
(MtCO2eq/yr in GWP AR4)					low	high	low	high	low	high
Assumed LULUCF Accounting Credits (-)/Debits (+)					- 430	- 458	- 632	- 632	- 621	- 621
INDC covered LULUCF Emissions	545	1,174	1,075	208	7	7	- 90	- 90	- 186	- 186
INDC covered Emissions excl. LULUCF	23,861	25,449	28,836	31,501	36,141	34,218	36,637	33,354	37,539	33,303
Total GHG excl. LULUCF	26,137	28,248	32,569	36,272	41,586	39,663	42,203	38,921	43,215	38,979
Total GHG incl. LULUCF	26,151	27,963	32,134	34,988	40,040	38,117	40,635	37,353	41,573	37,337

Relative GHG Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Relative 1990	100%	108%	125%	139%	159%	152%	161%	149%	165%	149%
Relative 2000	93%	100%	115%	128%	147%	140%	149%	138%	153%	138%
Relative 2005	80%	87%	100%	111%	128%	122%	130%	120%	133%	120%
Relative 2010	72%	78%	90%	100%	115%	109%	116%	107%	119%	107%

Per-Capita Emissions

	1990	2000	2005	2010	2020		2025		2030	
Total excl. LULUCF					low	high	low	high	low	high
Population (Mio)	3,669	4,117	4,315	4,511	4,856	4,856	4,989	4,989	5,096	5,096
Per-Capita Emissions (tCO2eq/cap)	7.1	6.9	7.5	8.0	8.6	8.2	8.5	7.8	8.5	7.6
Relative 1990	100%	96%	106%	113%	120%	115%	119%	110%	119%	107%
Relative 2000	104%	100%	110%	117%	125%	119%	123%	114%	124%	111%
Relative 2005	94%	91%	100%	107%	113%	108%	112%	103%	112%	101%
Relative 2010	89%	85%	94%	100%	107%	102%	105%	97%	105%	95%

Data Sources:

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Cat4_CO2	Def: PRIMAPHIST15
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