

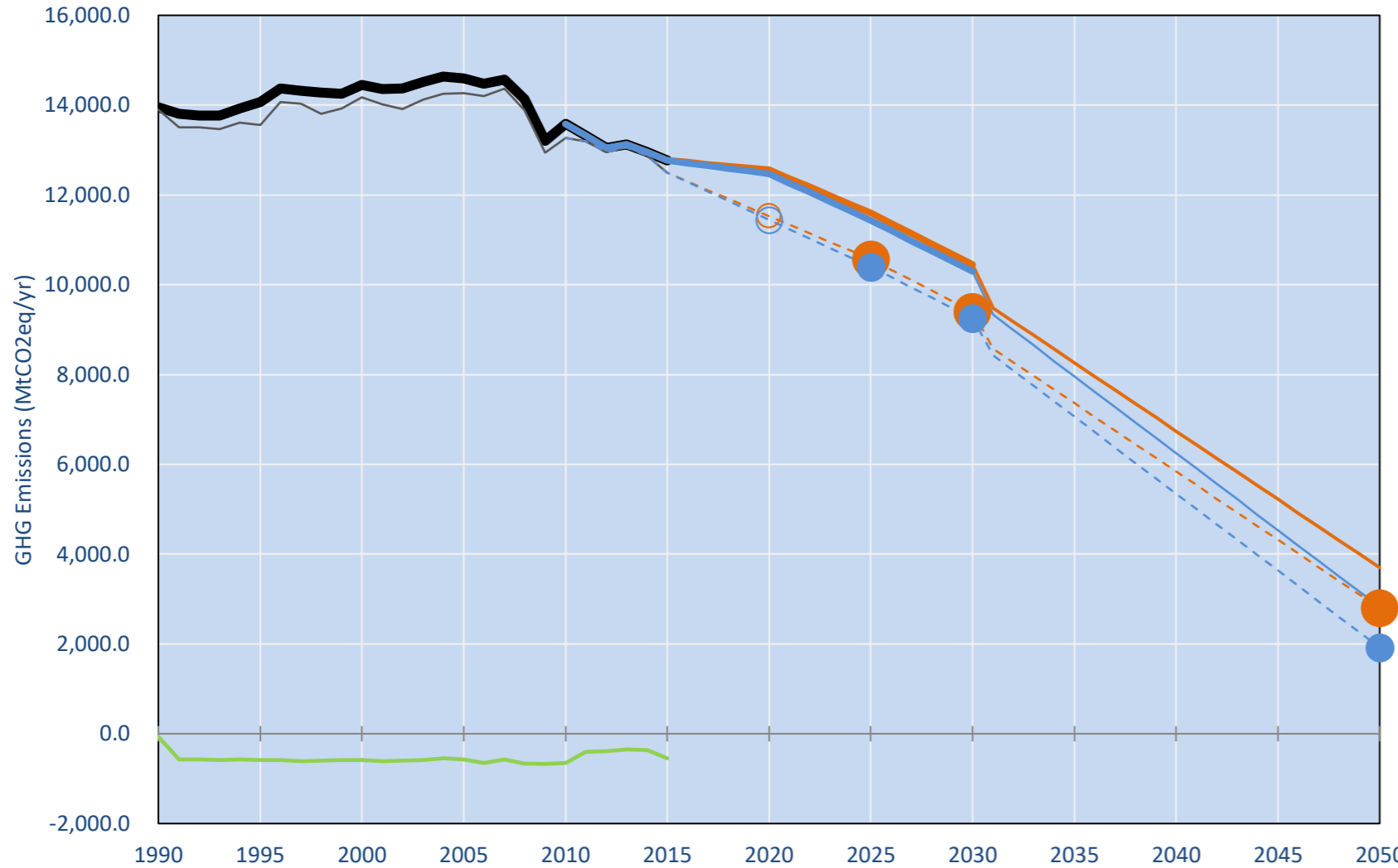
G7

Per-Capita Emissions in 2030 rel. 2015 (excl. LULUCF): **-22%**

	2015	2025	2030
Share of World Emissions excl. LULUCF (Rank):	26.5%	21.6%	18.8%
Per-Capita Emissions (tCO ₂ eq/cap)	12.9t	11.3t	10.1t

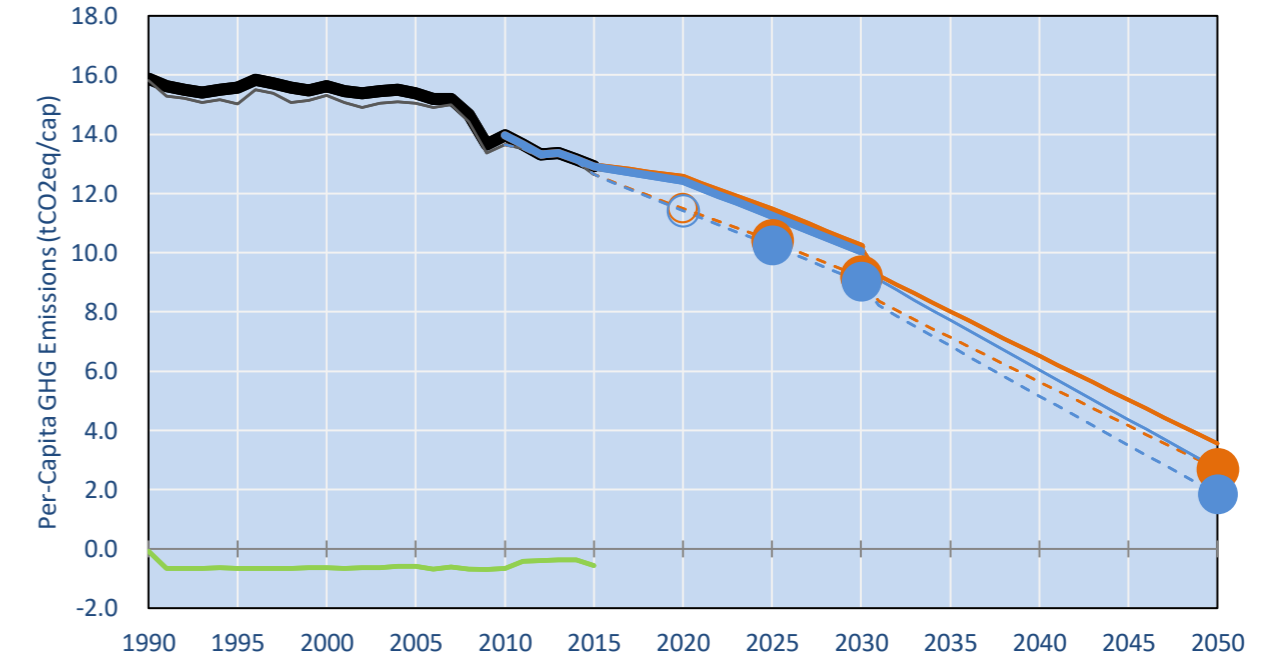
INDC Submitted: 1/09/5356

GHG Emissions

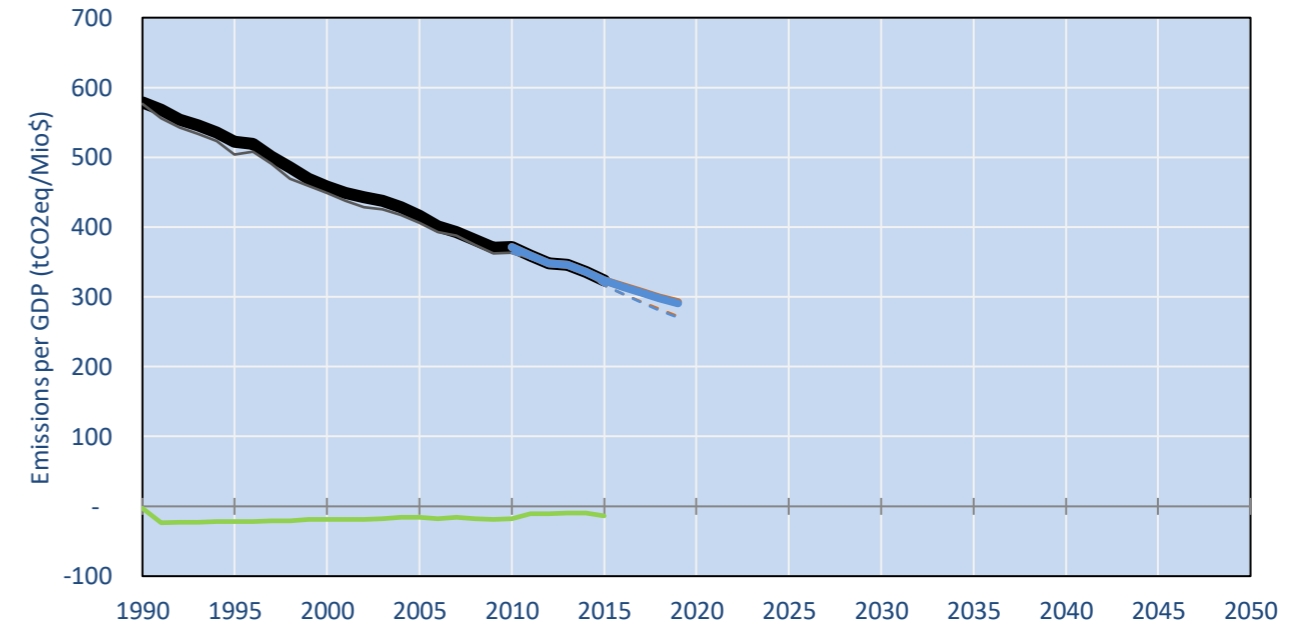


- Reference Total GHG excl. LULUCF
- Historical Covered Emissions, incl. LULUCF, if covered.
- LOW INDC Covered Emissions, incl. LULUCF if covered
- LOW INDC Covered + Non-Covered Emissions, excl. LULUCF
- HIGH INDC Covered Emissions, incl. LULUCF
- HIGH INDC Covered + Non-Covered Emissions, excl. LULUCF
- HIGH Cancun Pledges
- Reference LULUCF Emissions
- LOW INDC Levels
- LOW INDC Covered Emissions, excl. LULUCF
- HIGH INDC Levels
- HIGH INDC Covered Emissions, excl. LULUCF
- LOW Cancun Pledges
- Not-covered GHG excl. LULUCF (Region Projection)

Per-Capita Emissions



GHG Emissions per GDP



2015 Total GHG Emissions excl. LULUCF

By Gas:	Percentage	By Sector:	Percentage
CO ₂	84.4%	Cat. 1 Energy	84.5%
CH ₄	10.9%	Cat. 2, 3, 6 & 7	7.1%
N ₂ O	4.5%	Cat 4. Agriculture	8.3%
F-gases	0.1%	F-gases	0.1%

GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
(MtCO ₂ eq/yr in GWP AR5)						low high	low high	low high
Assumed LULUCF Accounting Credits (-)/Debits (+)						- 84 - 112	- 151 - 151	- 151 - 151
NDC/INDC covered LULUCF Emissions						- 1,027 - 1,027	- 1,036 - 1,036	- 1,044 - 1,044
NDC/INDC covered Emissions excl. LULUCF	13,954	14,445	14,601	13,580	12,768	12,556 12,472	11,602 11,434	10,451 10,296
Total GHG excl. LULUCF	13,954	14,445	14,601	13,580	12,768	12,556 12,472	11,602 11,434	10,451 10,296
Total GHG incl. LULUCF	13,889	13,854	14,034	12,932	12,219	11,260 11,176	10,211 10,043	9,063 8,909

Relative GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Relative 1990	100%	104%	105%	97%	92%	90% 89%	83% 82%	75% 74%
Relative 2000	97%	100%	101%	94%	88%	87% 86%	80% 79%	72% 71%
Relative 2005	96%	99%	100%	93%	87%	86% 85%	79% 78%	72% 71%
Relative 2010	103%	106%	108%	100%	94%	92% 92%	85% 84%	77% 76%
Relative 2015	109%	113%	114%	106%	100%	98% 98%	91% 90%	82% 81%

Per-Capita Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Population (Mio)	879	925	949	972	988	1,003 1,003	1,015 1,015	1,024 1,024
Per-Capita Emissions (tCO ₂ eq/cap)	15.9	15.6	15.4	14.0	12.9	12.5 12.4	11.4 11.3	10.2 10.1
Relative 1990	100%	98%	97%	88%	81%	79% 78%	72% 71%	64% 63%
Relative 2000	102%	100%	99%	89%	83%	80% 80%	73% 72%	65% 64%
Relative 2005	103%	101%	100%	91%	84%	81% 81%	74% 73%	66% 65%
Relative 2010	114%	112%	110%	100%	93%	90% 89%	82% 81%	73% 72%
Relative 2015	123%	121%	119%	108%	100%	97% 96%	88% 87%	79% 78%

Data Sources:

Cat1_CO2	Def: PRIMAPHIST17	Cat5A1_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat2367_CO2	Def: PRIMAPHIST17	Cat5A2_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat4_CO2	Def: PRIMAPHIST17	Cat5LtoNonFL_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat5_CO2	Def: PRIMAPHIST17	Cat5GMCMWWM_C	Def: UNFCCC CRF
Cat1_CH4	Def: PRIMAPHIST17	Cat5A1ForestFires	Def: UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	Def: PRIMAPHIST17	Cat5A1HWP_CO2	Def: UNFCCC CRF + Nat. Comms.
Cat4_CH4	Def: PRIMAPHIST17	Cat5bisA_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5_CH4	Def: PRIMAPHIST17	Cat5bisB_CO2	Def: UNFCCC CRF + NATCOMM.
Cat1_N2O	Def: PRIMAPHIST17	Cat5bisC_CO2	Def: UNFCCC CRF + NATCOMM.
Cat2367_N2O	Def: PRIMAPHIST17	Cat5bisD_CO2	Def: UNFCCC CRF + NATCOMM.
Cat4_N2O	Def: PRIMAPHIST17	Cat5bisE_CO2	Def: UNFCCC CRF + NATCOMM.
Cat5_N2O	Def: PRIMAPHIST17	PRO_WM_Cat5_G	Def: UNFCCC Annex I Reports
Cat0_HFCs	Def: PRIMAPHIST17	Metric	GWP AR5
Cat0_PFCs	Def: PRIMAPHIST17		
Cat0_SF6	Def: PRIMAPHIST17		
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		
PRIMAPHIST16 description:	www.pik-potsdam.de/primap-live/primap-hist/		
Gratefully acknowledged in particular: PRIMAP, CAIT, CDIAC, EDGAR, IPCC, IEA, UNEP GAP Team, AMPERE Team and comments on earlier versions, in particular by Giacomo Grassi. Errors and misjudgements are our own. Malte Meinshausen & Ryan Alexander; The "Fiji COP23" Edition was enabled through support via the BMUB project UM14 41 4060			
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Various 'fair' contributions for a global 'least-cost' 2°C path (total incl. LULUCF):

2025 rel. 2010:	2030 rel. 2010:	2025 rel. 2010:	2030 rel. 2010:
LEADER	#N/A	LEADER	#N/A
CDC	#N/A	CDC	#N/A
ECPC50	#N/A	ECPC50	#N/A
ECPC90	#N/A	ECPC90	#N/A
GDR	#N/A	GDR	#N/A
INDC HIGH	-22%	INDC HIGH	-31%
INDC LOW	-21%	INDC LOW	-30%

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