

# India

Per-Capita Emissions in 2030 rel. 2015 (excl. LULUCF): **+60%**

NDC 2025

NDC 2030

2015 World Rank

2025 World Rank

2030 World Rank

Share of World Emissions excl. LULUCF (Rank):

5.9% #4

8.2% #3

9.5% #3

Per-Capita Emissions (tCO<sub>2</sub>eq/cap)

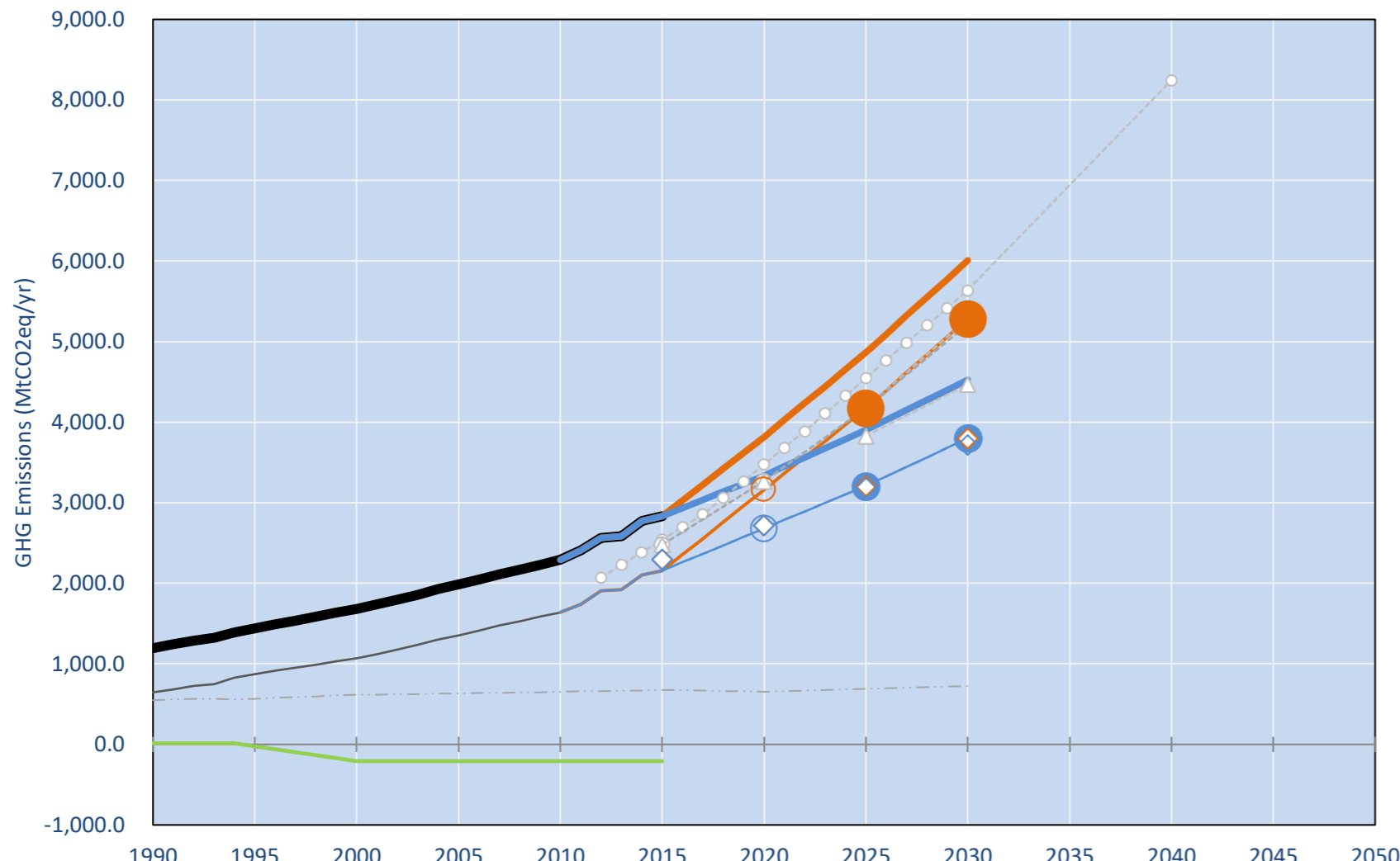
2.2t #146

3t #126

3.4t #117

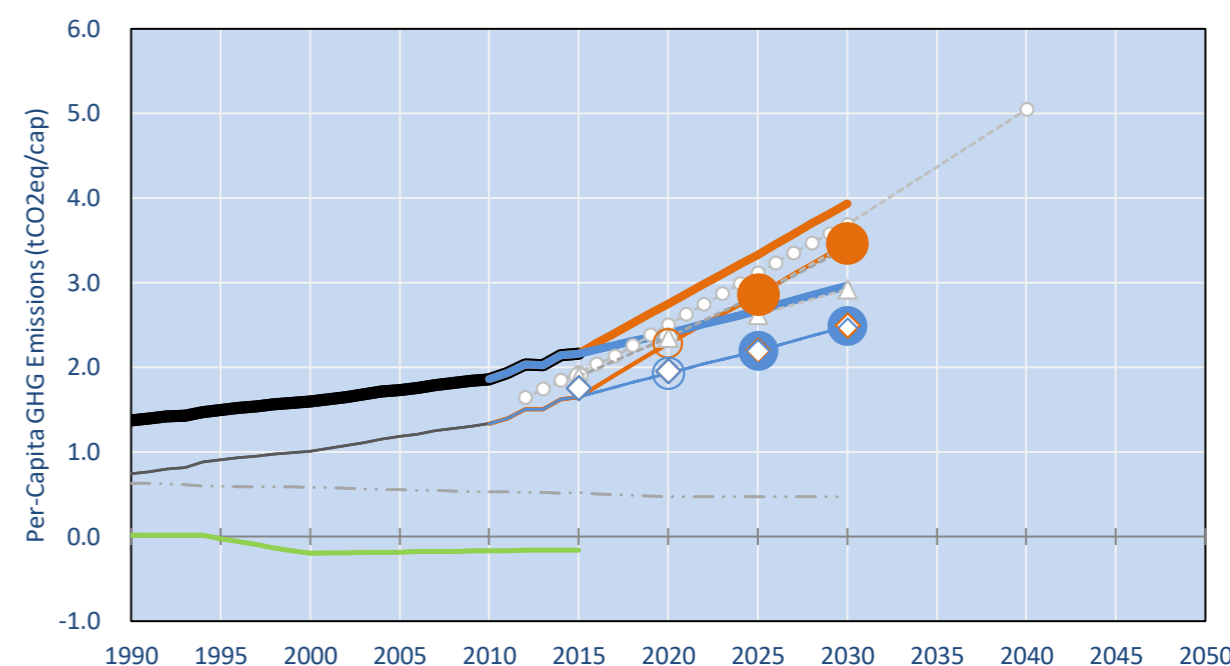
NDC: Reduction of emissions intensity of its GDP by 33- 35% from 2005 levels by 2030, achieve about 40% cumulative electric power installed capacity from non-fossil fuel based energy resources, create additional carbon sink of 2.5-3 billion tonnes of INDC Submitted: 1/10/2015

## GHG Emissions

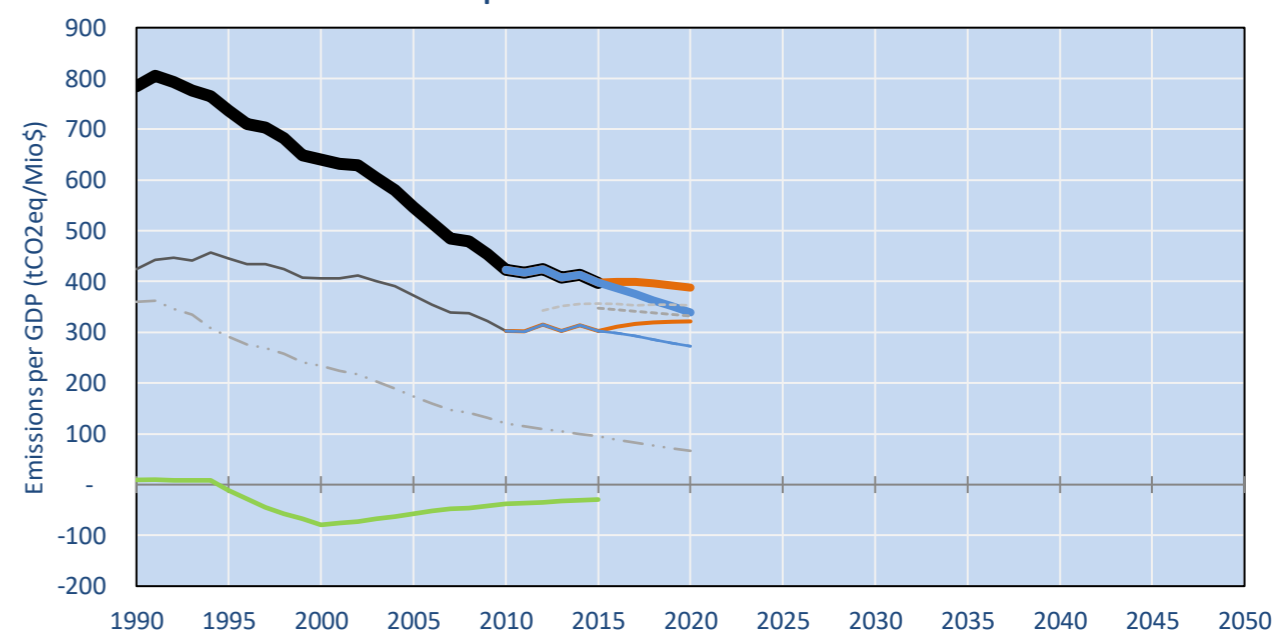


- Reference Total GHG excl. LULUCF
- Historical Covered Emissions, incl. LULUCF, if covered.
- LOW INDC Covered Emissions, incl. LULUCF if covered
- LOW INDC Covered + Non-Covered Emissions, excl. LULUCF
- HIGH INDC Covered Emissions, incl. LULUCF
- HIGH INDC Covered + Non-Covered Emissions, excl. LULUCF
- 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
- India LOW INDC CO<sub>2</sub> - low GDP const Exp
- India (IndiaEnergy.gov.in) Default scenario
- Regional/Gas-specific BAU
- India LOW INDC CO<sub>2</sub> - low GDP norm Exp
- India - high GDP const sol&wind exp > 2022 CO<sub>2</sub>
- India - high GDP norm sol&wind exp > 2022 CO<sub>2</sub>
- Not-covered GHG excl. LULUCF (Region Projection)

## Per-Capita Emissions

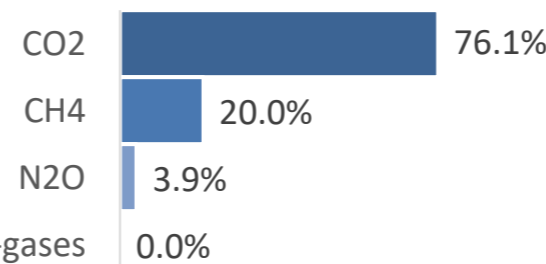


## GHG Emissions per GDP

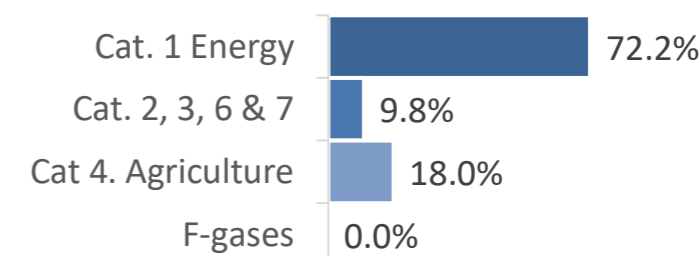


## 2015 Total GHG Emissions excl. LULUCF

By Gas:



By Sector:



## GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
(MtCO <sub>2</sub> eq/yr in GWP AR5)						low high	low high	low high
Assumed LULUCF Accounting Credits (-)/Debits (+)								
NDC covered LULUCF Emissions								
NDC covered Emissions excl. LULUCF	646	1,066	1,352	1,640	2,155	3,164	2,682	4,172
Total GHG excl. LULUCF	1,195	1,680	1,984	2,290	2,833	3,818	3,337	4,864
Total GHG incl. LULUCF	1,209	1,472	1,776	2,083	2,625	3,610	3,129	4,656

## Relative GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Relative 1990	100%	141%	166%	192%	237%	320%	279%	407%
Relative 2000	71%	100%	118%	136%	169%	227%	199%	290%
Relative 2005	60%	85%	100%	115%	143%	192%	168%	245%
Relative 2010	52%	73%	87%	100%	124%	167%	146%	212%
Relative 2015	42%	59%	70%	81%	100%	135%	118%	172%

## Per-Capita Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Population (Mio)	871	1,053	1,144	1,231	1,311	1,389	1,389	1,462
Per-Capita Emissions (tCO <sub>2</sub> eq/cap)	1.4	1.6	1.7	1.9	2.2	2.7	2.4	3.3
Relative 1990	100%	116%	126%	136%	157%	200%	175%	242%
Relative 2000	86%	100%	109%	117%	136%	172%	151%	209%
Relative 2005	79%	92%	100%	107%	125%	159%	139%	192%
Relative 2010	74%	86%	93%	100%	116%	148%	129%	179%
Relative 2015	64%	74%	80%	86%	100%	127%	111%	154%

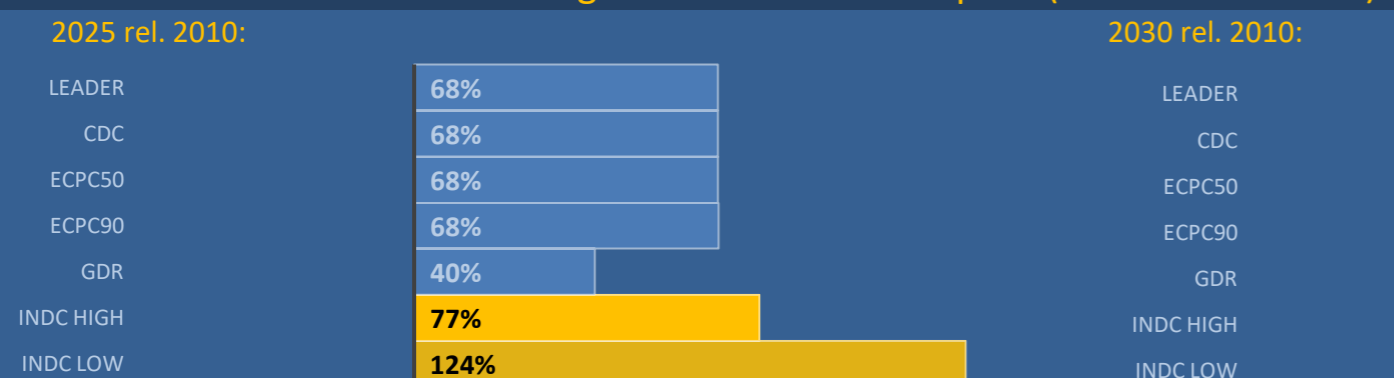
## Data Sources:

- Cat1\_CO2 PRIMAPHIST17
- Cat2367\_CO2 PRIMAPHIST17
- Cat4\_CO2 PRIMAPHIST17
- Cat5\_CO2 PRIMAPHIST17
- Cat1\_CH4 PRIMAPHIST17
- Cat2367\_CH4 PRIMAPHIST17
- Cat4\_CH4 PRIMAPHIST17
- Cat5\_CH4 PRIMAPHIST17
- Cat1\_N2O PRIMAPHIST17
- Cat2367\_N2O PRIMAPHIST17
- Cat4\_N2O PRIMAPHIST17
- Cat5\_N2O PRIMAPHIST17
- Cat0\_HFCs PRIMAPHIST17
- Cat0\_PFCs PRIMAPHIST17
- Cat0\_SF6 PRIMAPHIST17
- Population UN 2015 Population Projections MEDIUM
- GDP 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
- 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, infographics.pbl.nl/indc, live.primap.org, www.unep.org/climatechange/pledgepipeline, and our twitter feed @ClimateCollege
- Cat5A1\_CO2 UNFCCC CRF + Nat. Comms.
- Cat5A2\_CO2 UNFCCC CRF + Nat. Comms.
- Cat5LtoNonFL\_CO2 UNFCCC CRF + Nat. Comms.
- Cat5GCMCMWM\_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 AR5

climatecollege.unimelb.edu.au



## 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