

India

Per-Capita Emissions in 2030 rel. 2015 (excl. LULUCF): **+62%**

NDC 2025

NDC 2030

2015 World Rank

2025 World Rank

2030 World Rank

Share of World Emissions excl. LULUCF (Rank):

5.8% #4

8.1% #3

9.5% #3

Per-Capita Emissions (tCO₂eq/cap)

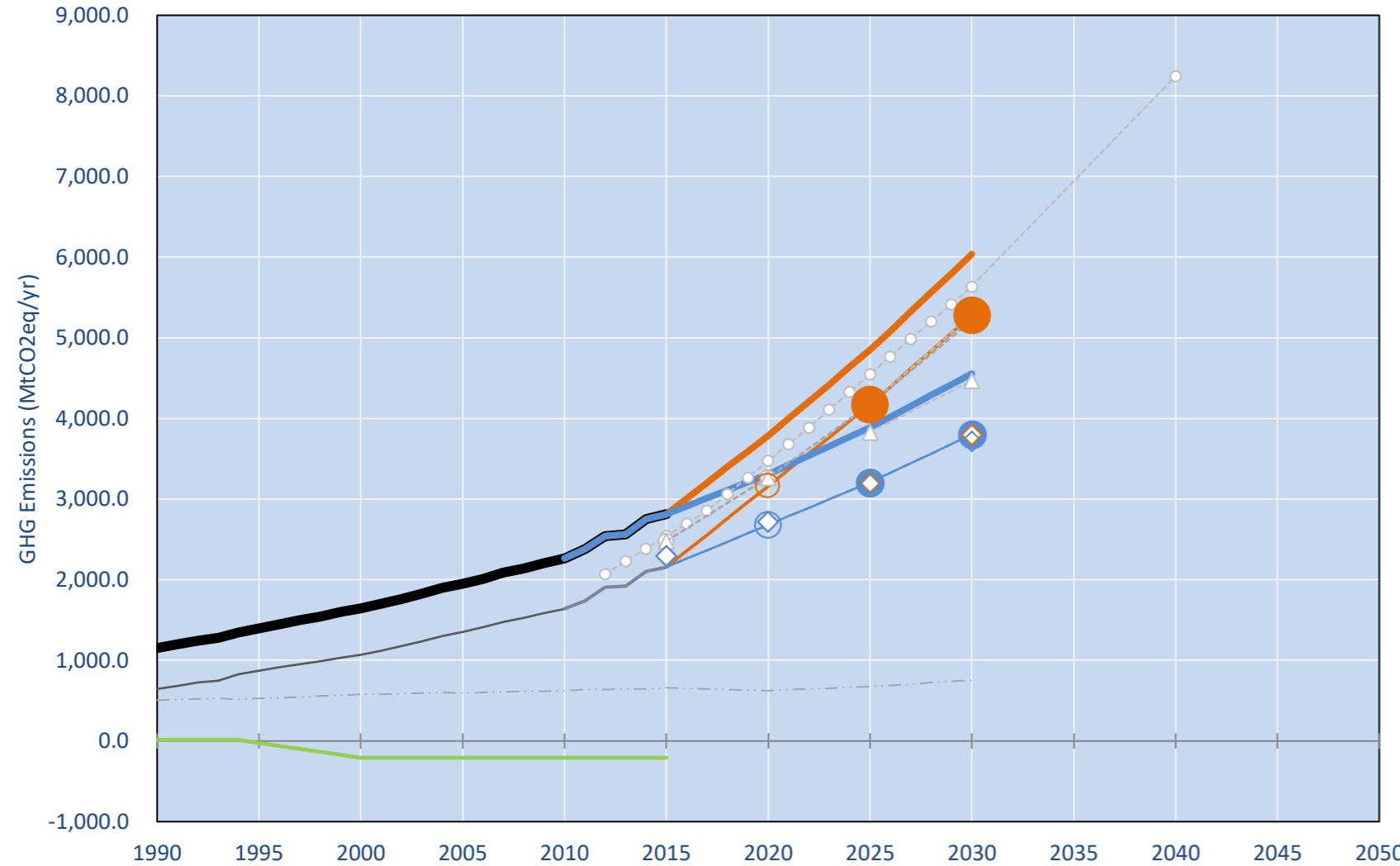
2.1t #147

3t #126

3.5t #117

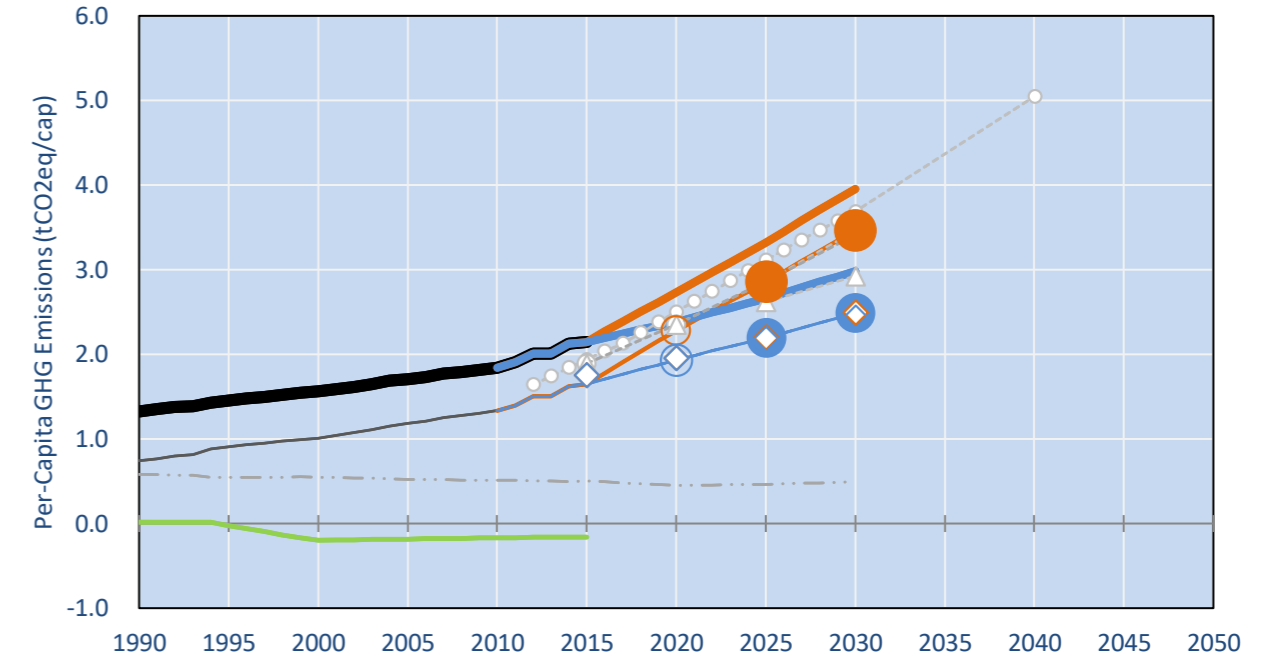
NDC: Reduction of emissions intensity of its GDP by 33- 35% from 2005 levels by 2030, achieve about 40% cumulative electric power installed capacity from non-fossil fuel based energy resources, create additional carbon sink of 2.5-3 billion tonnes of INDC Submitted: 1/10/2015

GHG Emissions

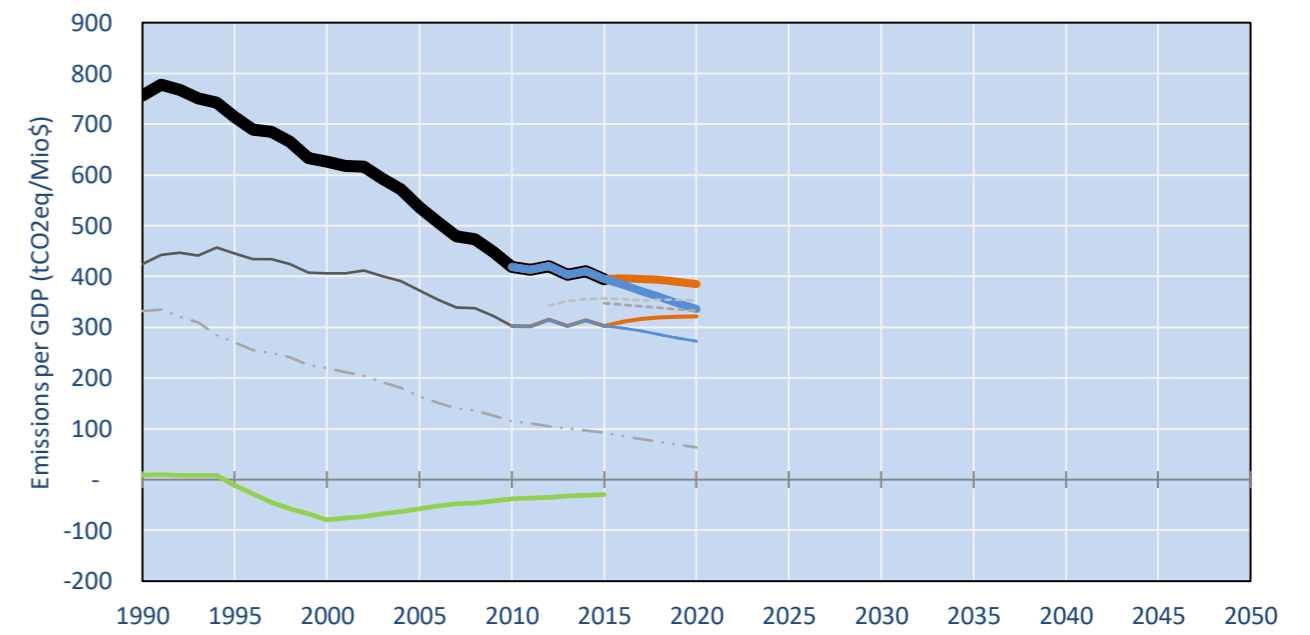


- Reference Total GHG excl. LULUCF
- Historical Covered Emissions, incl. LULUCF, if covered.
- LOW INDC Covered Emissions, incl. LULUCF if covered
- LOW INDC Covered + Non-Covered Emissions, excl. LULUCF
- HIGH INDC Covered Emissions, incl. LULUCF
- HIGH INDC Covered + Non-Covered Emissions, excl. LULUCF
- 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 CO₂ - low GDP const Exp
- India (IndiaEnergy.gov.in) Default scenario
- Regional/Gas-specific BAU
- India LOW INDC CO₂ - low GDP norm Exp
- India - high GDP const sol&wind exp > 2022 CO₂
- India - high GDP norm sol&wind exp > 2022 CO₂
- Not-covered GHG excl. LULUCF (Region Projection)

Per-Capita Emissions



GHG Emissions per GDP



2015 Total GHG Emissions excl. LULUCF

By Gas:

CO₂ 76.6%
CH₄ 17.9%
N₂O 4.5%
F-gases 1.0%

By Sector:

Cat. 1 Energy 72.5%
Cat. 2, 3, 6 & 7 9.7%
Cat 4. Agriculture 16.9%
F-gases 1.0%

GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
(MtCO ₂ eq/yr in GWP AR4)						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	1,153	1,643	1,949	2,266	2,814	3,789	3,308	4,849
Total GHG incl. LULUCF	1,167	1,435	1,741	2,058	2,606	3,582	3,100	4,641

Relative GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Relative 1990	100%	142%	169%	197%	244%	329%	287%	421%
Relative 2000	70%	100%	119%	138%	171%	231%	201%	295%
Relative 2005	59%	84%	100%	116%	144%	170%	249%	310%
Relative 2010	51%	72%	86%	100%	124%	167%	214%	267%
Relative 2015	41%	58%	69%	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 ₂ eq/cap)	1.3	1.6	1.7	1.8	2.1	2.7	2.4	3.3
Relative 1990	100%	118%	129%	139%	162%	206%	180%	251%
Relative 2000	85%	100%	109%	118%	138%	175%	153%	213%
Relative 2005	78%	92%	100%	108%	126%	160%	140%	195%
Relative 2010	72%	85%	93%	100%	117%	148%	129%	180%
Relative 2015	62%	73%	79%	86%	100%	127%	111%	155%

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 AR4

climatecollege.unimelb.edu.au



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

Various 'fair' contributions for a global 'least-cost' 2°C path (total incl. LULUCF):

	2025 rel. 2010:	2030 rel. 2010:
LEADER	68%	80%
CDC	68%	84%
ECPC50	68%	98%
ECPC90	68%	98%
GDR	40%	46%
INDC HIGH	79%	111%
INDC LOW	125%	183%

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