

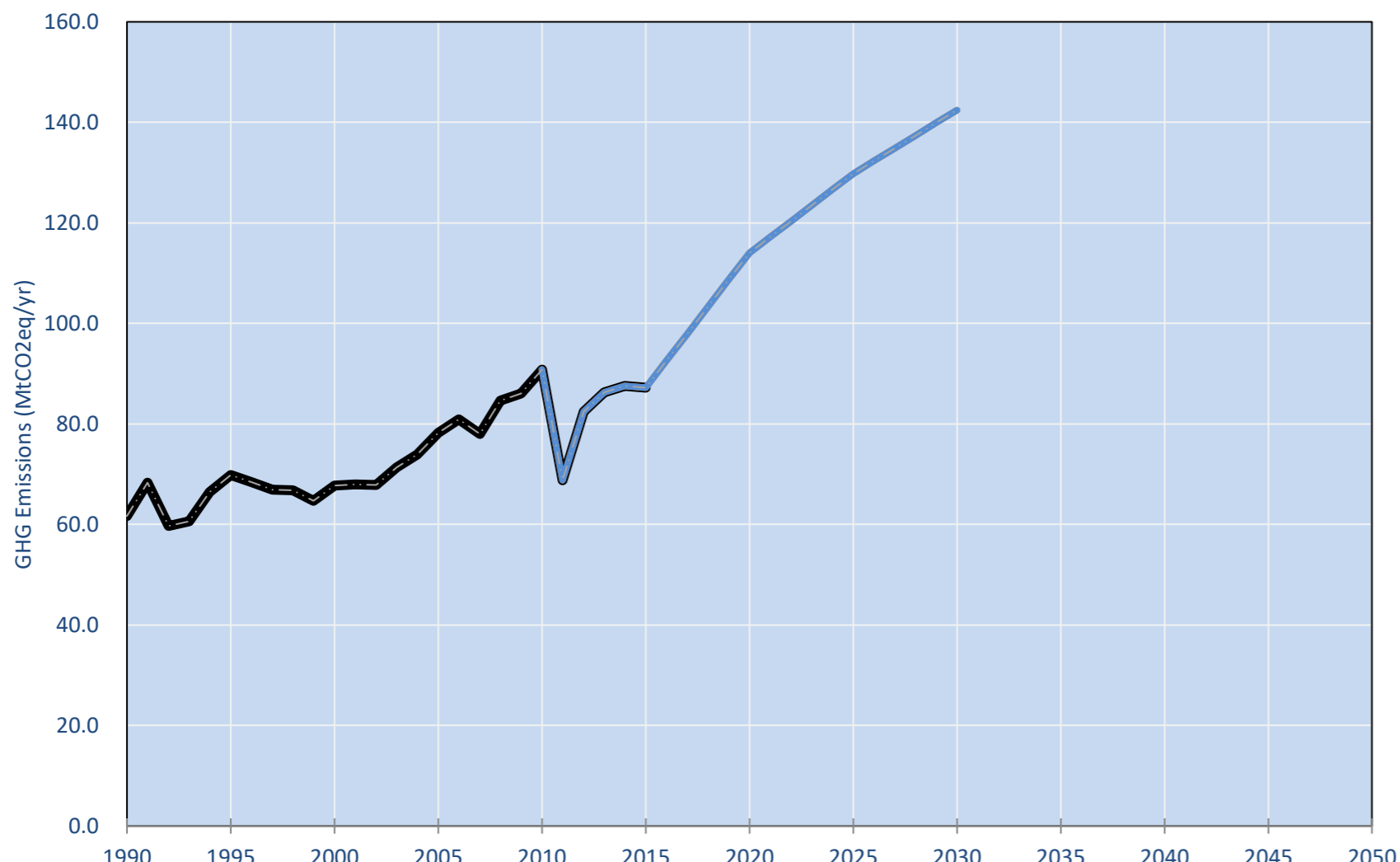
Libya

Per-Capita Emissions in 2030 rel. 2015 (excl. LULUCF): **+38%**

	2015 World Rank	2025 World Rank	2030 World Rank
Share of World Emissions excl. LULUCF (Rank):	0.2% #60	0.2% #49	0.3% #47
Per-Capita Emissions (tCO ₂ eq/cap)	13.9t #20	18.3t #12	19.2t #11

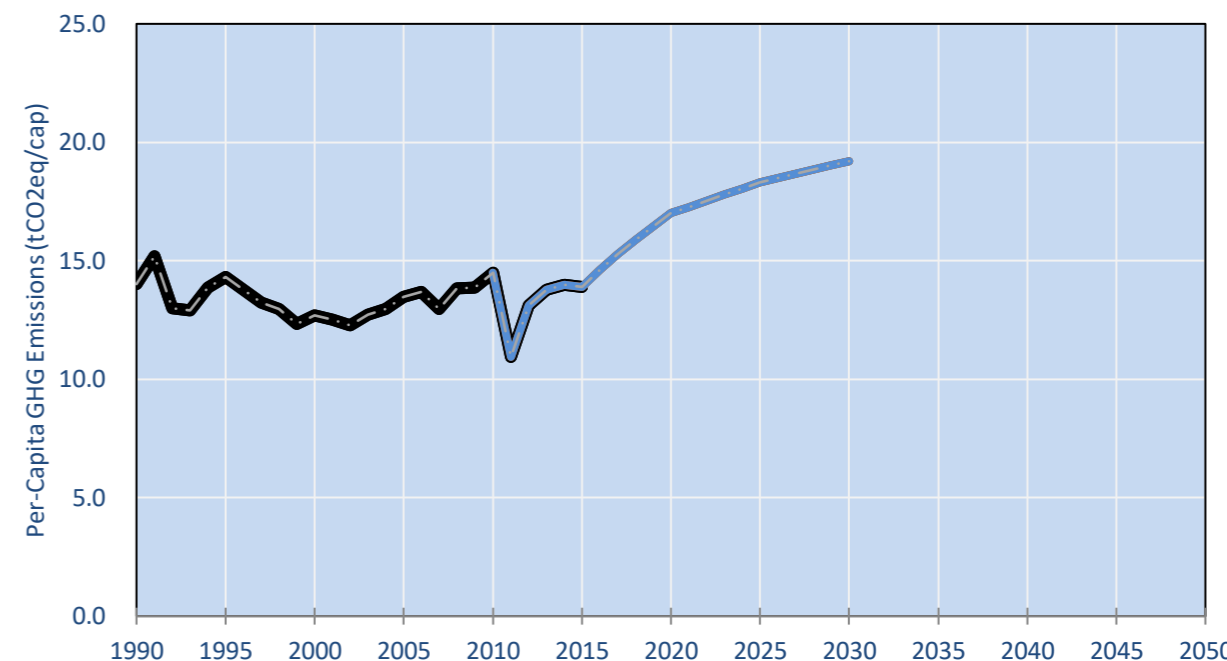
INDC Submitted: NOT YET

GHG Emissions

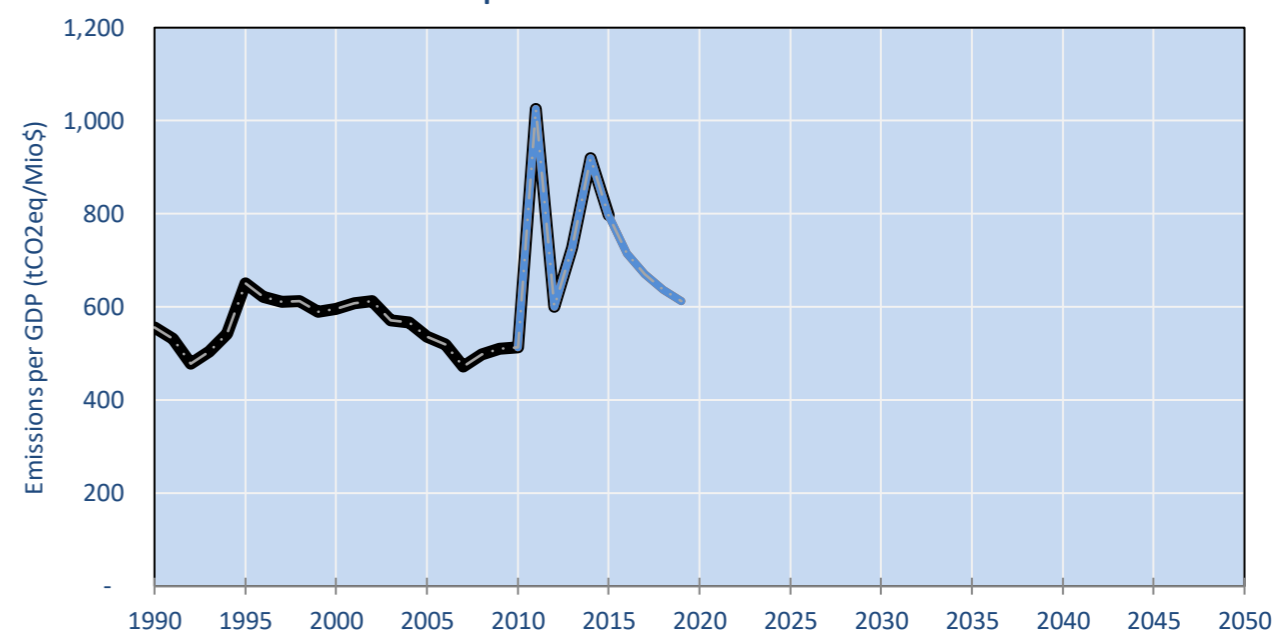


- Reference Total GHG excl. LULUCF
- Historical Covered Emissions, incl. LULUCF, if covered.
- LOW INDC Covered Emissions, incl. LULUCF if covered
- LOW INDC Covered + Non-Covered Emissions, excl. LULUCF
- HIGH INDC Covered Emissions, incl. LULUCF
- HIGH INDC Covered + Non-Covered Emissions, excl. LULUCF
- 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:	By Sector:
CO ₂ 66.4%	Cat. 1 Energy 88.5%
CH ₄ 31.0%	Cat. 2, 3, 6 & 7 7.3%
N ₂ O 2.1%	Cat 4. Agriculture 3.8%
F-gases 0.5%	F-gases 0.5%

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 (+)								
NDC/INDC covered LULUCF Emissions	-	-	-	-	-	-	-	-
NDC/INDC covered Emissions excl. LULUCF	-	-	-	-	-	-	-	-
Total GHG excl. LULUCF	62	68	78	91	87	114 114	130 130	142 142
Total GHG incl. LULUCF	62	68	78	91	87	114 114	130 130	142 142

Relative GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Relative 1990	100%	110%	127%	147%	141%	185% 185%	210% 210%	231% 231%
Relative 2000	91%	100%	115%	134%	129%	168% 168%	192% 192%	210% 210%
Relative 2005	79%	87%	100%	116%	112%	146% 146%	166% 166%	182% 182%
Relative 2010	68%	75%	86%	100%	96%	126% 126%	143% 143%	157% 157%
Relative 2015	71%	78%	90%	104%	100%	131% 131%	149% 149%	163% 163%

Per-Capita Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Population (Mio)	4	5	6	6	6	7 7	7 7	7 7
Per-Capita Emissions (tCO ₂ eq/cap)	14.0	12.7	13.5	14.5	13.9	17.0 17.0	18.3 18.3	19.2 19.2
Relative 1990	100%	90%	96%	103%	99%	121% 121%	131% 131%	137% 137%
Relative 2000	111%	100%	106%	114%	109%	134% 134%	144% 144%	151% 151%
Relative 2005	104%	94%	100%	108%	103%	126% 126%	136% 136%	142% 142%
Relative 2010	97%	88%	93%	100%	96%	117% 117%	126% 126%	132% 132%
Relative 2015	101%	91%	97%	104%	100%	123% 123%	132% 132%	138% 138%

Data Sources:

Cat1_CO2	PRIMAPHIST17	Cat5A1_CO2	UNFCCC CRF + Nat. Comms.
Cat2367_CO2	PRIMAPHIST17	Cat5A2_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CO2	PRIMAPHIST17	Cat5LtoNonFL_CO2	UNFCCC CRF + Nat. Comms.
Cat5_CO2	PRIMAPHIST17	Cat5GCMWMM_C	UNFCCC CRF
Cat1_CH4	PRIMAPHIST17	Cat5A1ForestFires	UNFCCC Cat5 + EDGAR(IPCC Database)
Cat2367_CH4	PRIMAPHIST17	Cat5A1HWP_CO2	UNFCCC CRF + Nat. Comms.
Cat4_CH4	PRIMAPHIST17	Cat5bisA_CO2	UNFCCC CRF + NATCOMM.
Cat5_CH4	PRIMAPHIST17	Cat5bisB_CO2	UNFCCC CRF + NATCOMM.
Cat1_N2O	PRIMAPHIST17	Cat5bisC_CO2	UNFCCC CRF + NATCOMM.
Cat2367_N2O	PRIMAPHIST17	Cat5bisD_CO2	UNFCCC CRF + NATCOMM.
Cat4_N2O	PRIMAPHIST17	Cat5bisE_CO2	UNFCCC CRF + NATCOMM.
Cat5_N2O	PRIMAPHIST17	PRO_WM_Cat5_G	UNFCCC Annex I Reports
Cat0_HFCs	PRIMAPHIST17	Metric	GWP AR5
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			

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	#N/A	LEADER	#N/A
CDC	-16%	CDC	-26%
ECPC50	-31%	ECPC50	-48%
ECPC90	-18%	ECPC90	-30%
GDR	-12%	GDR	-21%
INDC HIGH	0%	INDC HIGH	0%
INDC LOW	0%	INDC LOW	0%

More info on www.mitigation-contributions.org

Shown fair contributions 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