

# Panama

Per-Capita Emissions in 2030 rel. 2015 (excl. LULUCF): **+8%**

NDC 2025

NDC 2030

2015 World Rank

2025 World Rank

2030 World Rank

Share of World Emissions excl. LULUCF (Rank):

0.0% #126

0.0% #124

0.0% #124

Per-Capita Emissions (tCO2eq/cap)

4t #106

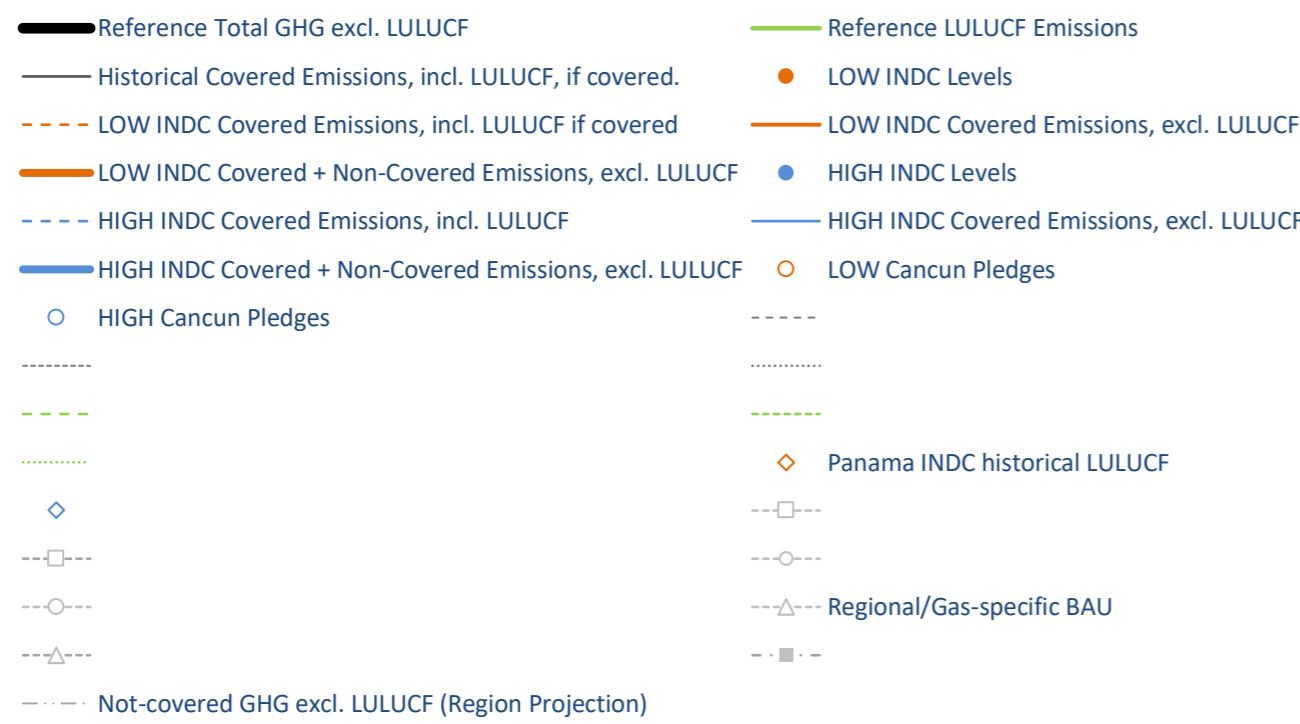
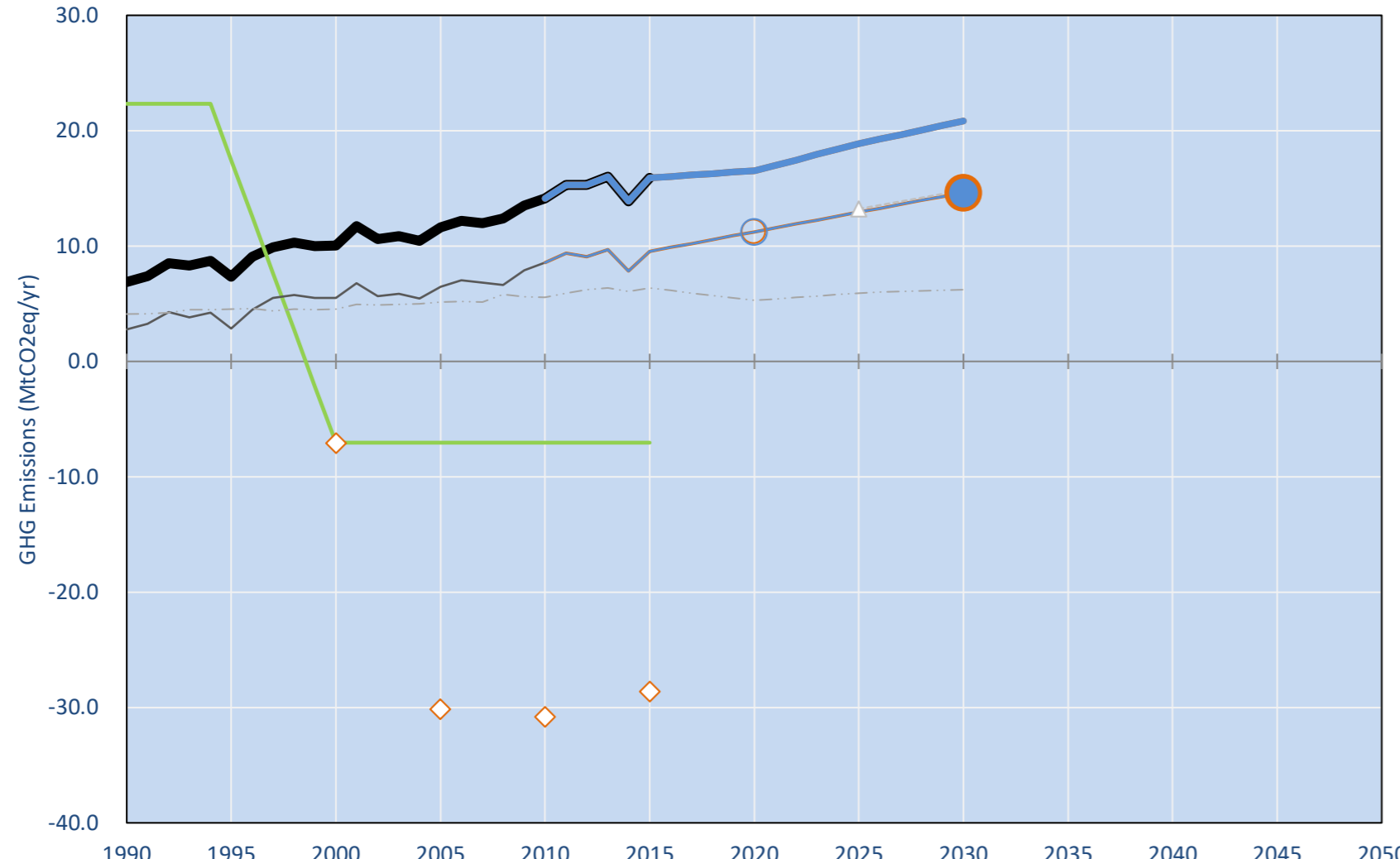
4.2t #105

4.4t #103

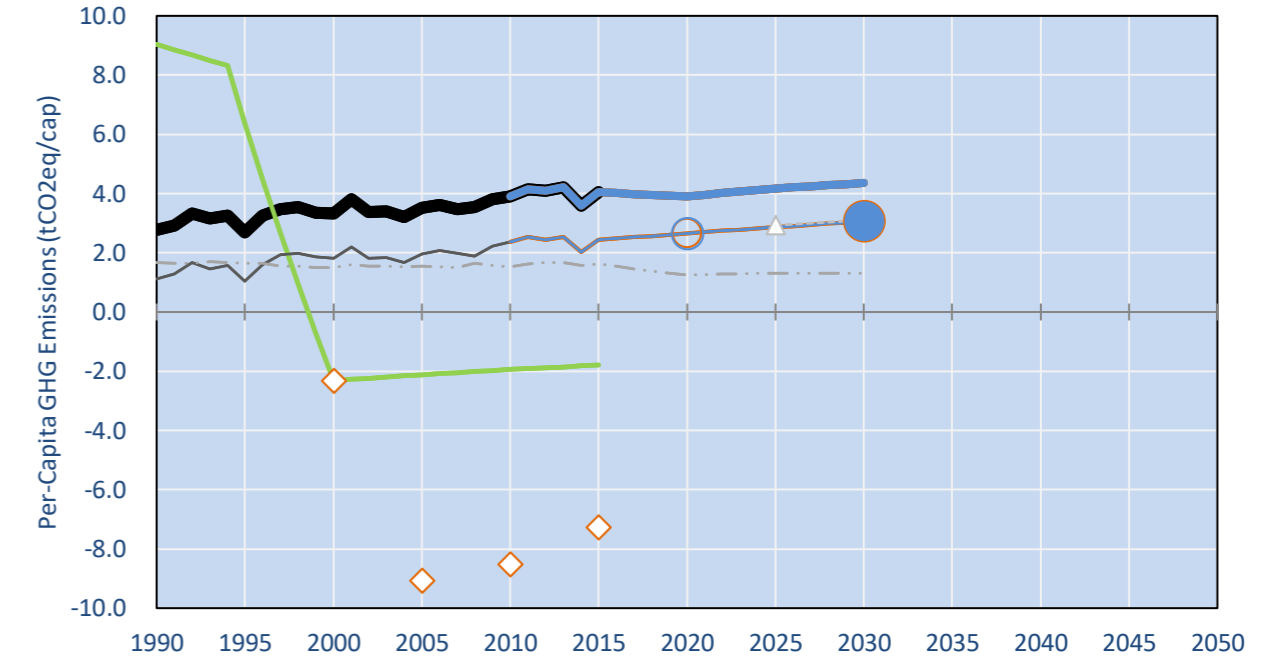
NDC: 15/30% share of non-conventional renewables in energy sector by 2030/50. 10% unc. and 80% cond. increase in LULUCF sink by 2050.. (GWP unclear)

INDC Submitted: 19/04/2016

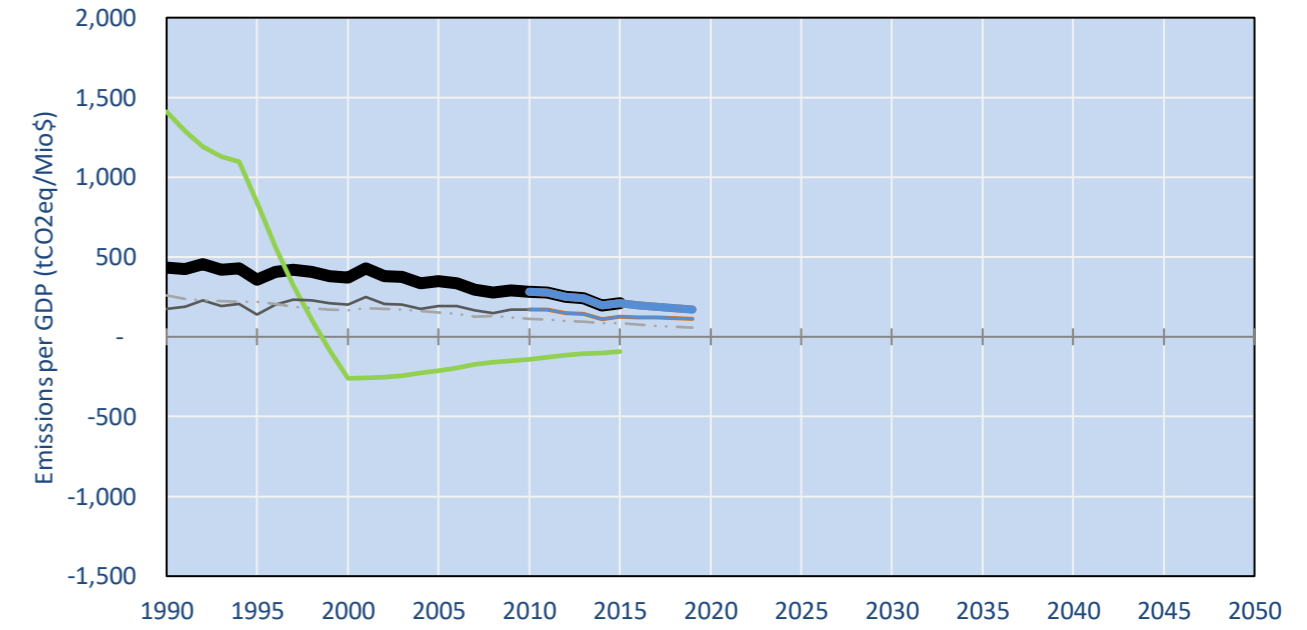
## GHG Emissions



## Per-Capita Emissions

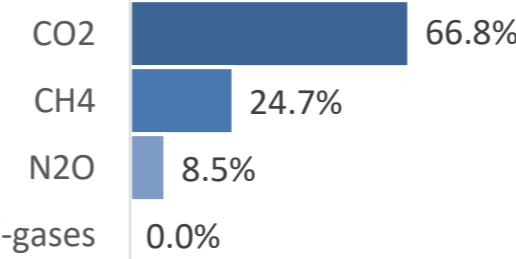


## GHG Emissions per GDP

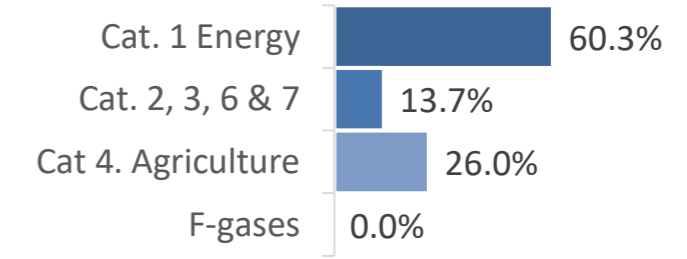


## 2015 Total GHG Emissions excl. LULUCF

By Gas:



By Sector:



## GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
(MtCO2eq/yr in GWP AR5)						low high	low high	low high
Assumed LULUCF Accounting Credits (-)/Debits (+)								
NDC covered LULUCF Emissions								
NDC covered Emissions excl. LULUCF	3	6	6	9	10	11	13	15
Total GHG excl. LULUCF	7	10	12	14	16	17	19	21
Total GHG incl. LULUCF	29	3	5	7	9	9	12	14

## Relative GHG Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Relative 1990	100%	146%	169%	205%	231%	240%	274%	303%
Relative 2000	68%	100%	116%	140%	158%	164%	187%	207%
Relative 2005	59%	86%	100%	121%	137%	142%	162%	179%
Relative 2010	49%	71%	83%	100%	113%	117%	134%	148%
Relative 2015	43%	63%	73%	89%	100%	104%	119%	131%

## Per-Capita Emissions

	1990	2000	2005	2010	2015	2020	2025	2030
Total excl. LULUCF						low high	low high	low high
Population (Mio)	2	3	3	4	4	4	5	5
Per-Capita Emissions (tCO2eq/cap)	2.8	3.3	3.5	3.9	4.0	3.9	4.2	4.4
Relative 1990	100%	119%	126%	140%	145%	140%	150%	156%
Relative 2000	84%	100%	106%	117%	122%	117%	126%	131%
Relative 2005	79%	95%	100%	111%	115%	111%	119%	124%
Relative 2010	72%	85%	90%	100%	104%	100%	107%	112%
Relative 2015	69%	82%	87%	96%	100%	96%	103%	108%

## 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	Cat5GMCMWMM_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		

climatecollege.unimelb.edu.au



## 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	39%	CDC 34%
ECPC50	10%	ECPC50 6%
ECPC90	42%	ECPC90 44%
GDR	1%	GDR -18%
INDC HIGH	68%	INDC HIGH 95%
INDC LOW	68%	INDC LOW 95%



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