



Partnership on Transparency  
in the Paris Agreement



forestry, fisheries  
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Department:  
Forestry, Fisheries and the Environment  
REPUBLIC OF SOUTH AFRICA

# Filling UNFCCC Reporting tables using GACMO tool Day 3.

Training workshop for Anglophone African countries:  
Deep dive into tracking NDC mitigation commitments  
under the Paris Agreement

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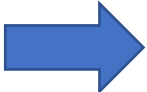
Federal Foreign Office



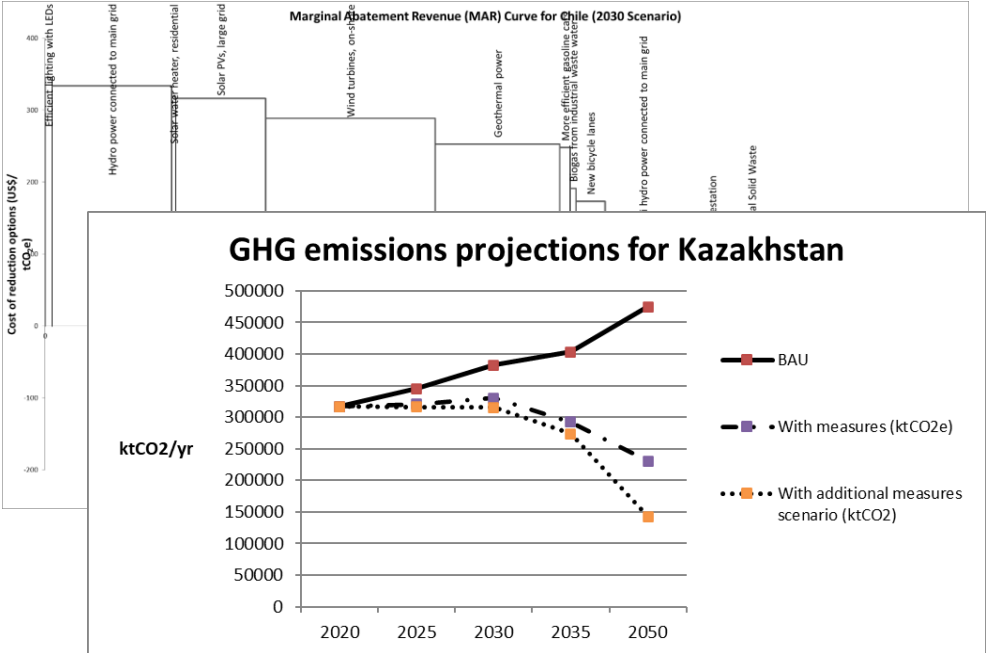
on the basis of a decision  
by the German Bundestag

# GACMO can be useful for identifying target level for NDC indicator

GACMO tool can be useful to identify target level of GHG emission reduction, as well as sectoral targets (capacity of renewable energy, hectares of reforestation, number of electric vehicles etc.)



CTF Table 1. Description of selected indicator



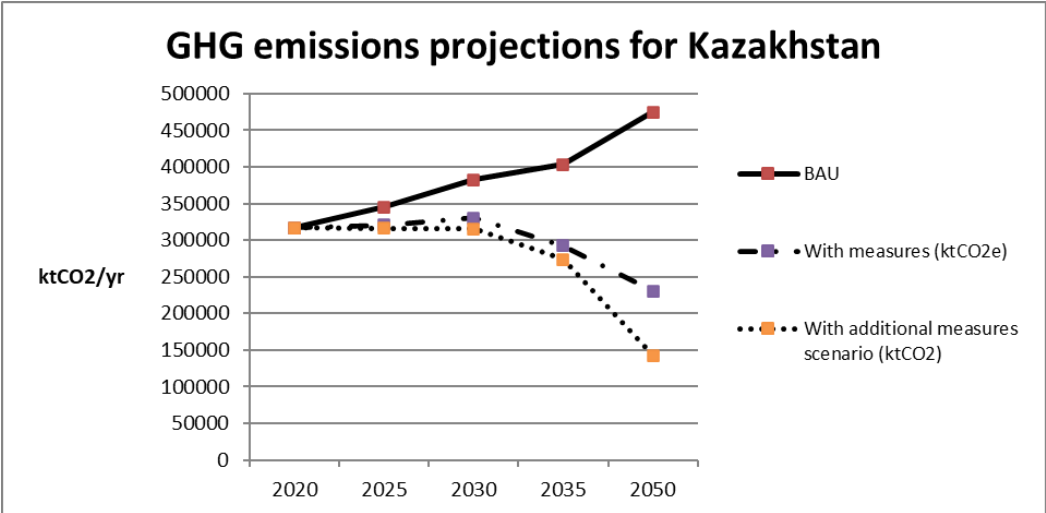
CTF Table 2. Definitions needed to understand NDC



CTF Table 3. Methodologies and accounting approaches – consistency with Article 4, paragraphs 13 and 14, of the Paris Agreement and with decision 4/CMA.1

# GHG emissions projections from GACMO tool can be used to fill in CTF Tables for NDC tracking

## Result of GACMO tool



CTF Table 7. Information on projections of greenhouse gas emissions and removals under a **'with measures' scenario**



CTF Table 8. Information on projections of greenhouse gas emissions and removals under a **'with additional measures' scenario**



CTF Table 9. Information on projections of greenhouse gas emissions and removals under a **'without measures' scenario**



CTF Table 10. **Projections of key indicators**







## Applied exercises

Filling in CTF tables for NDC tracking

# Exercise 1 Mitigation policies and measures

- Fill in the data on **one mitigation policy or measure of your country** in the **CTF Table 5**.
- Add expected GHG emissions reduction in 2030 from the GACMO model exercise

## 5. Mitigation policies and measures, actions and plans, including those with mitigation co-benefits resulting from adaptation actions and economic diversification plans, related to implementing and achieving a nationally determined contribution under Article 4 of the Paris Agreement <sup>(a, b)</sup>

No.	Name <sup>(c)</sup>	Description <sup>(d, e, f)</sup>	Objectives	Type of instrument <sup>(g)</sup>	Status <sup>(h)</sup>	Sector(s) affected <sup>(i)</sup>	Gases affected	Start year of implementation	Implementing entity or entities	Estimates of GHG emission reductions (kt CO <sub>2</sub> eq) <sup>(j, k)</sup>	
										Achieved	Expected

# Exercise 1

## Mitigation policies and measures

If the data is not available for your country, use the example of the policy of Mauritius

- Name: Electric Vehicle Integration Roadmap for Mauritius
- Objectives: Reducing consumption of fossil fuels through increased adoption of lower-carbon vehicles.
- Description: Increasing the use of electric cars to 26000 in 2030.
- Status: adopted.
- Type of instrument: regulatory, economic
- Start year of implementation: 2021
- Implementing entity or entities: Ministry of Land Transport and Light Rail
- Expected emissions reduction - from GACMO model



## Exercise 2A

### Scenario of GHG emissions under a “with measures” scenario

- Fill in the data on GHG emissions **projections under a “with measures”** scenario for your country in the CTF Table 7.
- Use the data from NDC, BUR, NC.

7. Information on projections of greenhouse gas emissions and removals under a ‘with measures’ scenario <sup>a,b</sup>				
	Most recent year in the Party’s national inventory report (kt CO <sub>2</sub> eq) <sup>c</sup>	Projections of GHG emissions and removals, (kt CO <sub>2</sub> eq) <sup>c</sup>		
	20XX	20X(0)(5)	20X(0)(5)	20X(0)(5)
<b>Sector<sup>d</sup></b>				
Energy				
Transport				
Industrial processes and product use				
Agriculture				
LULUCF				
Waste				
Other (specify)				
<b>Gas</b>				
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF				
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF				
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF				
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF				
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF				
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF				
HFCs				
PFCs				
SF <sub>6</sub>				
NF <sub>3</sub>				
Other (specify)				
<b>Total with LULUCF</b>				
<b>Total without LULUCF</b>				

## Exercise 2A

### Scenario of GHG emissions under a “with measures” scenario

If the data is not available for your country, use the data for Country X

Sectoral split of mitigation scenario emissions					
ktCO <sub>2</sub> e/year	2020	2025	2030	2035	2050
Total	316,859	320,591	330,537	292,387	230,567
Power	105,019	104,000	109,416	79,289	21,053
Industry	93,494	103,701	115,625	115,996	139,661
Transport	22,296	27,066	32,602	29,728	23,083
Households	29,921	30,484	19,456	14,571	-3,848
Services	7,652	7,796	2,018	2,292	7,523
Agriculture & Fishery	42,778	42,374	53,525	54,755	58,616
Forestry	8,375	-2,689	-10,528	-12,310	-22,733
Waste	7,323	7,859	8,422	8,066	7,212

## Exercise 2B

### Scenario of GHG emissions under a “without measures” scenario

- Fill in the data on GHG emissions projections under a “without measures” scenario for your country in the CTF Table 9.
- Use the data from NDC, BUR, NC.

#### 9. Information on projections of greenhouse gas emissions and removals under a ‘without measures’ scenario<sup>a,b</sup>

	Most recent year in the Party's national inventory report (kt CO <sub>2</sub> eq) <sup>c</sup>			
	20XX	Projections of GHG emissions and removals, (kt CO <sub>2</sub> eq) <sup>c</sup>		
	20X(0)/(5)	20X(0)/(5)	20X(0)/(5)	20X(0)/(5)
<b>Sector<sup>d</sup></b>				
Energy				
Transport				
Industrial processes and product use				
Agriculture				
LULUCF				
Waste				
Other (specify)				
<b>Gas</b>				
CO <sub>2</sub> emissions including net CO <sub>2</sub> from LULUCF				
CO <sub>2</sub> emissions excluding net CO <sub>2</sub> from LULUCF				
CH <sub>4</sub> emissions including CH <sub>4</sub> from LULUCF				
CH <sub>4</sub> emissions excluding CH <sub>4</sub> from LULUCF				
N <sub>2</sub> O emissions including N <sub>2</sub> O from LULUCF				
N <sub>2</sub> O emissions excluding N <sub>2</sub> O from LULUCF				
HFCs				
PFCs				
SF <sub>6</sub>				
NF <sub>3</sub>				
Other (specify)				
<b>Total with LULUCF</b>				
<b>Total without LULUCF</b>				

## Exercise 2B

Scenario of GHG emissions  
under a “without  
measures” scenario

If the data is not available for your country, use the data for  
Country X

<b>Sectoral split of BAU scenario emissions</b>					
ktCO <sub>2</sub> e/year	2015	2025	2030	2035	2050
Total	472,374	809,908	1,065,631	1,283,633	1,704,898
Power	185,295	331,835	444,070	540,279	727,144
Industry	139,020	200,943	248,370	289,025	367,988
Transport	72,834	130,434	174,550	212,367	285,818
Households	32,974	59,052	79,025	96,146	129,400
Services	23,858	42,727	57,178	69,566	93,627
Agriculture & Fishery	65,533	92,057	109,578	123,390	148,061
Forestry	-64,020	-64,020	-64,020	-64,020	-64,020
Waste	16,880	16,880	16,880	16,880	16,880