

# Training Workshop for the countries of Eurasia, Central Asia and the Caucasus: Deep dive into tracking NDC mitigation commitments under the Paris Agreement

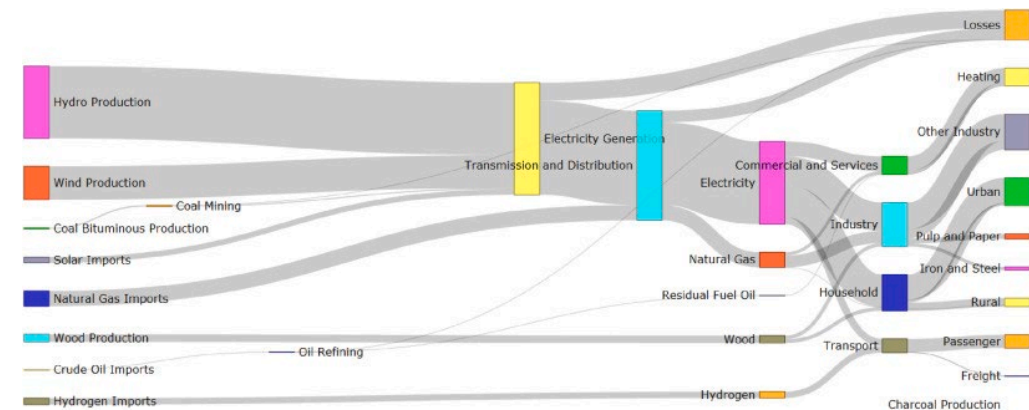
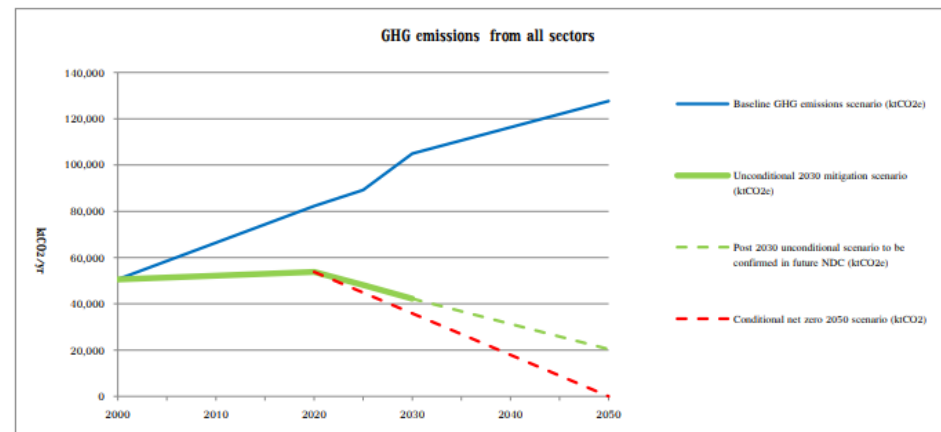
Presentation: Summary of filling CTF  
Reporting Tables using GACMO and LEAP

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

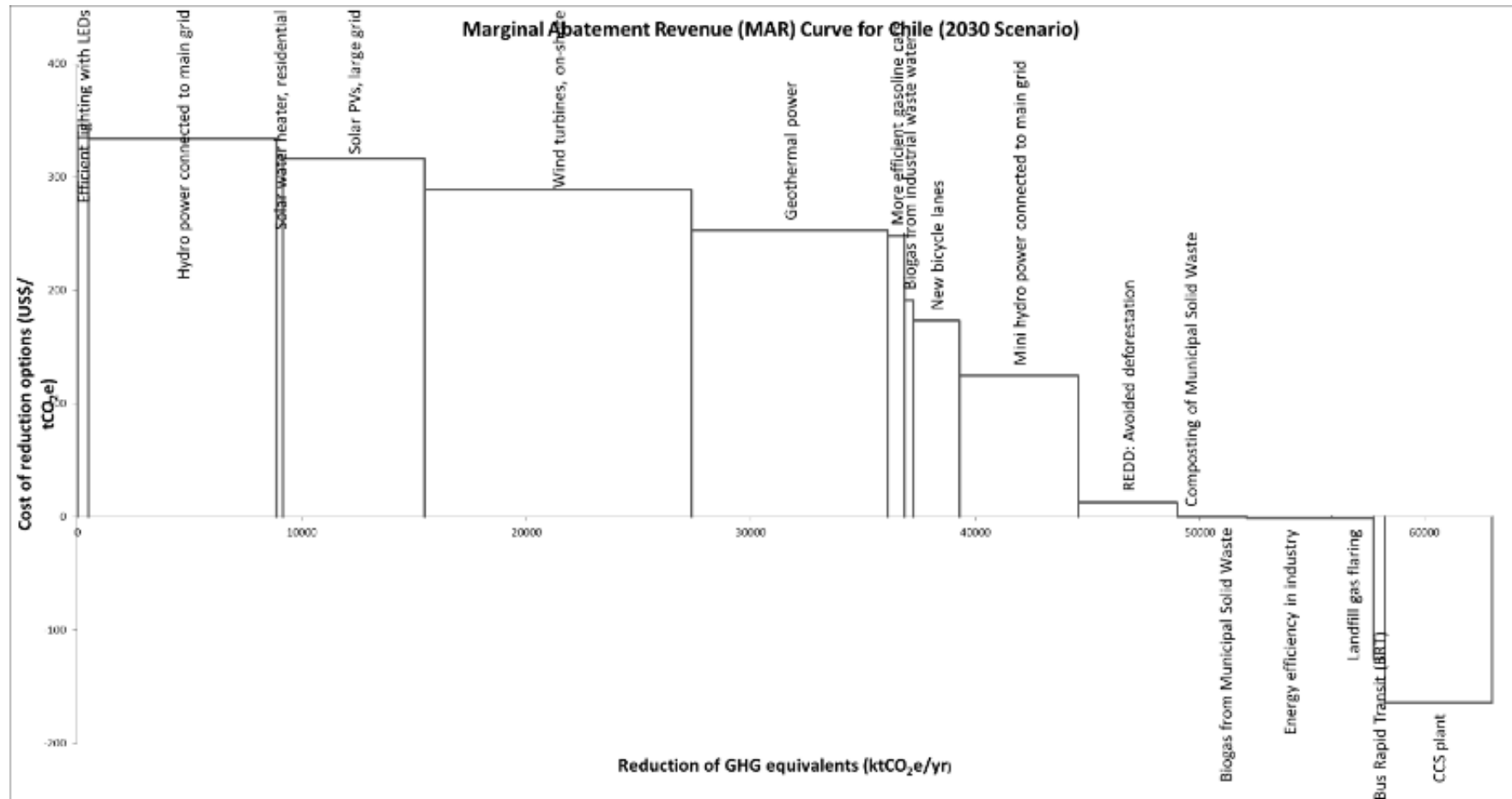
GACMO and LEAP tools allow to:

- compare mitigation potential and abatement costs of mitigation measure/measures
- **identify economy-wide GHG target** based on the set of mitigation measures
- **identify sectoral targets** (capacity of renewable energy, hectares of reforestation, number of electric vehicles etc.) in line with economy-wide GHG emissions target



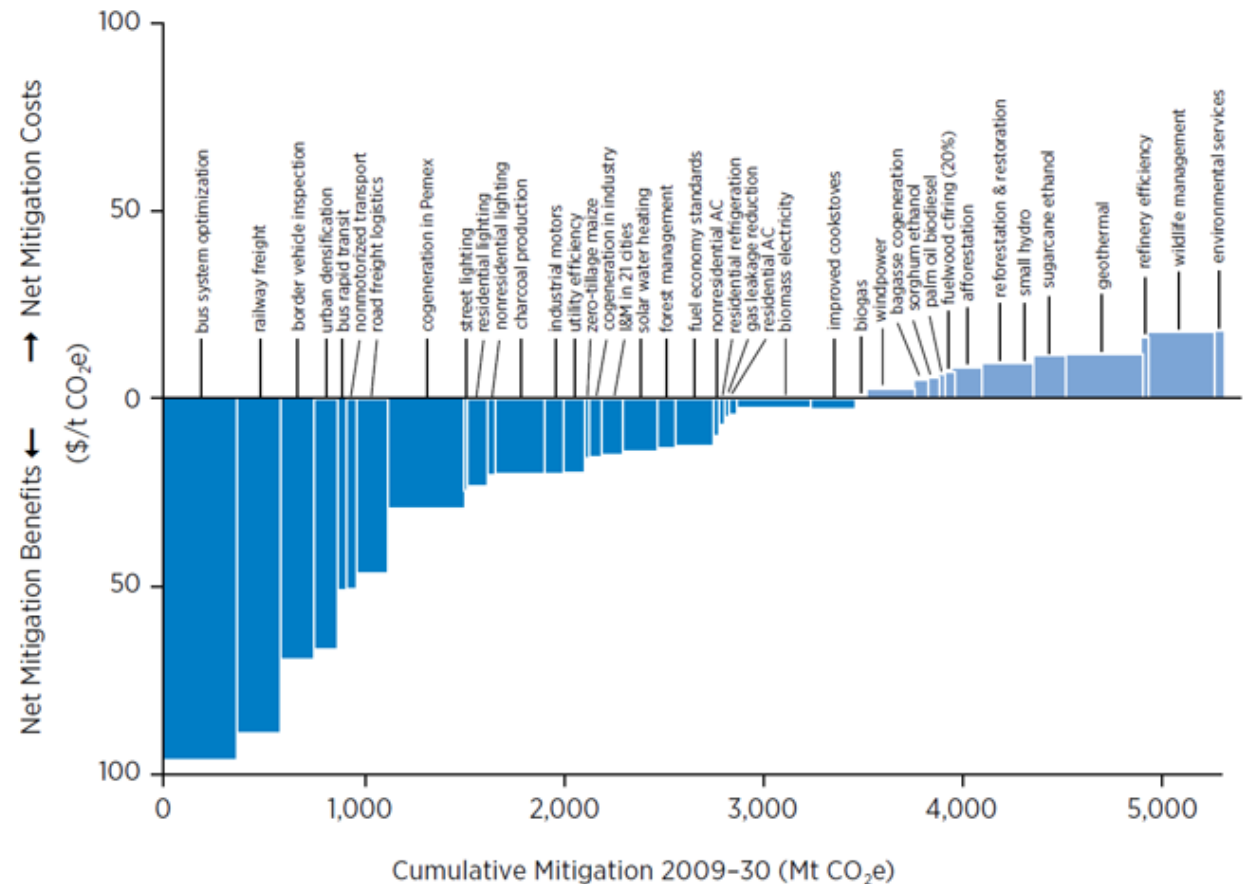
# Marginal Abatement Revenue Curve in GACMO

- The MAR curve allows a user to have a quick graphical comparison among all the selected options **in terms of their cost efficiency and emissions reduction.**
- In the graph of the MAR curve made by GACMO, all the options which are located above the X-axis are **"win-win" options.**
- It means that their implementation would allow reducing the GHG emissions compared to the reference option while, at the same time, their implementation would allow the country **to make a cost saving in comparison to the implementation cost of the reference option.**



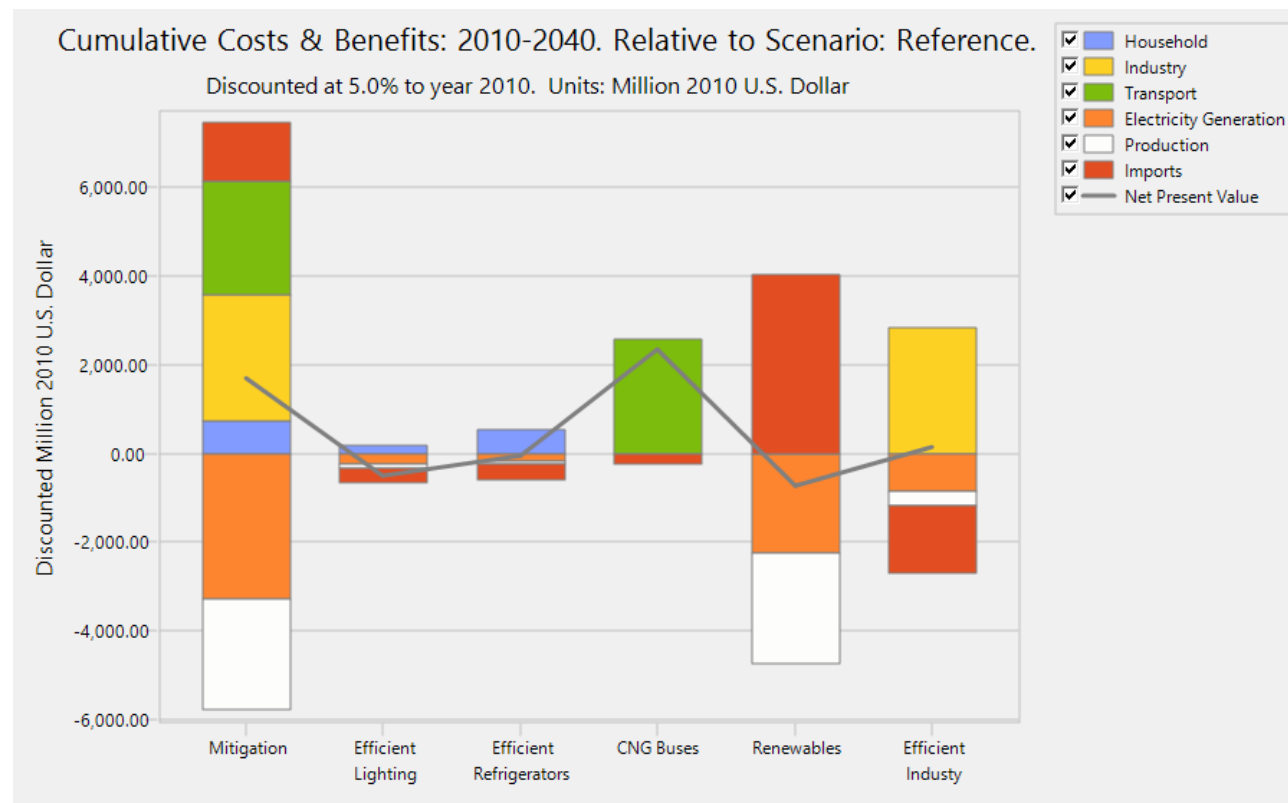
# MACC Curve in LEAP

- Marginal Abatement Cost Curves (MACCs) are a useful tool for assessing the cost and abatement potential of various mitigation options and for prioritizing which of a list of potential measures might be most actively pursued.



# Cost-benefit analysis with LEAP

- Costs relative to the baseline scenario are shown as positive values, while benefits are shown as negative values.
- The cost summary can also compare the environmental externality costs of each scenario.
- [Cost-Benefit Summary Report \(sei.org\)](#)



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

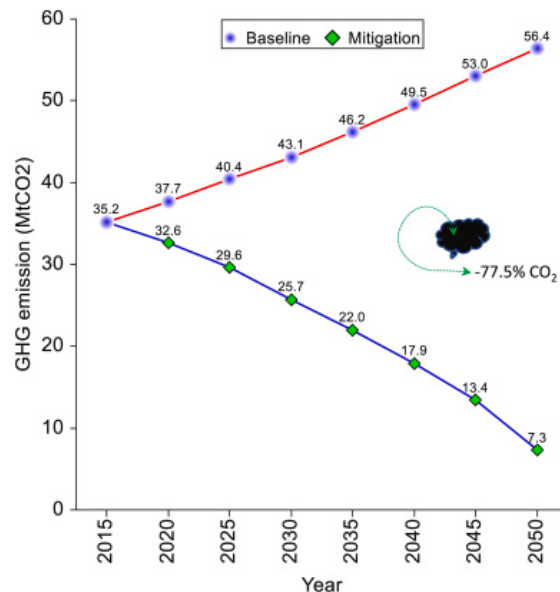
**GACMO and LEAP tools can be useful identify economy-wide GHG target and sectoral-level target/targets**



**CTF Table 1.** Description of selected indicator

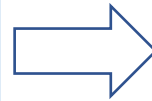


**CTF Table 2.** Definitions needed to understand NDC



# Methodologies

**GACMO and LEAP tools**



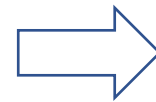
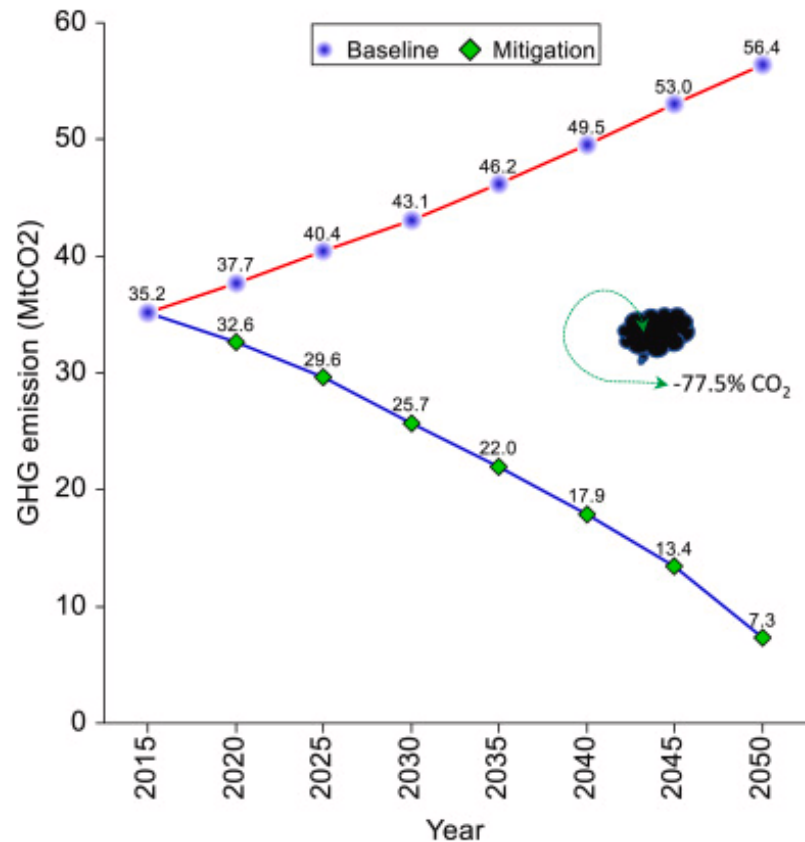
**CTF Table 3.** Methodologies and accounting approaches

- Key parameters, assumptions, definitions, data sources **and models** used.
- Sector-, category, or activity specific assumptions, **methodologies** ad approaches

# GHG emissions projections

## Result of GACMO and LEAP tools

Result of LEAP: Total GHG (MtCO<sub>2</sub>) in Norway in Baseline and Mitigation Scenarios



**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



# Key underlying assumptions and parameters used for the projections

## Assumptions used in modeling tools

**Table 1**

Key assumptions, parameters, and and mathematical functions considered in the study.

Key assumptions parameters	Household (ml)	Household size (Person)	Urban share (%)	Rural Share (%)	Population (ml)	Population Growth rate (%)	Income (\$)	Income growth rate (%)	GDP (\$Billion)	Household electricity consumption (kWh/Year per HSS)	Mathematical functions (-)
2015: Current account scenario	2.5	2.2	81.1	18.9	5.4	-	61,500			26,500	Simple: AL*FEI
2050: Projections and policy			71.8		6.4 7.2	0.75 up to 0.8	Growth	0.7-1.2	Growth		Interp, Growth, Step, GrowthAs



**CTF Table 11.** Key underlying assumptions and parameters used for projections







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# Thank you for your attention!

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