



# **Costa Rica: Intended Nationally Determined Mitigation Contributions**

PMR Technical Meeting:  
Approaches and Tools to Setting Mitigation Scenarios  
September - Washington DC

# Overview of activities preparation for setting post 2020 mitigation scenarios

- Participation of the Ministry of Environment and Energy (MINAE) around the international and regional ex-ante discussions of Intended Nationally Determined Mitigation Contributions
  - Clarification of main issues
  - Basis for transparency,
  - Understanding of the process
- Setting of the work team:
  - Directorate of Climate Change (MINAE)
  - Technical team
  - Cooperation
  - Sector Stakeholders

# Experience of the country setting mitigation scenarios

- The country is not working in specific projects of scenarios as MAPS.
- Some partial models as LEAP (Long-range Energy Alternatives Planning) has been adopted in last years by MINAE in the planning of the energy sector.
- In 2010 MINAE presents the National Economic, Environment and Development Study for Climate Change (NEEDS) with a modeling for assessment the carbon neutrality goal.
- The PMR assessed the potential of mitigation of 5 sectors for their participation in the Domestic Carbon Market.
- REDD Plus working in forest scenarios of strengthening of the Environmental Service Payment System.

# Phases of the Work Plan

- A. Consultative Process for Policy Identification and Setting of Sector Targets
- B. Mapping and Assessment of Policies
- C. 2020 and Post-2020 Scenarios for Economic Growth, GHG Emissions and Mitigation Policies
- D. Setting National and Sector Abatement Targets
- E. Monitoring, reporting and verification (MRV) system

# Main gaps and challenges

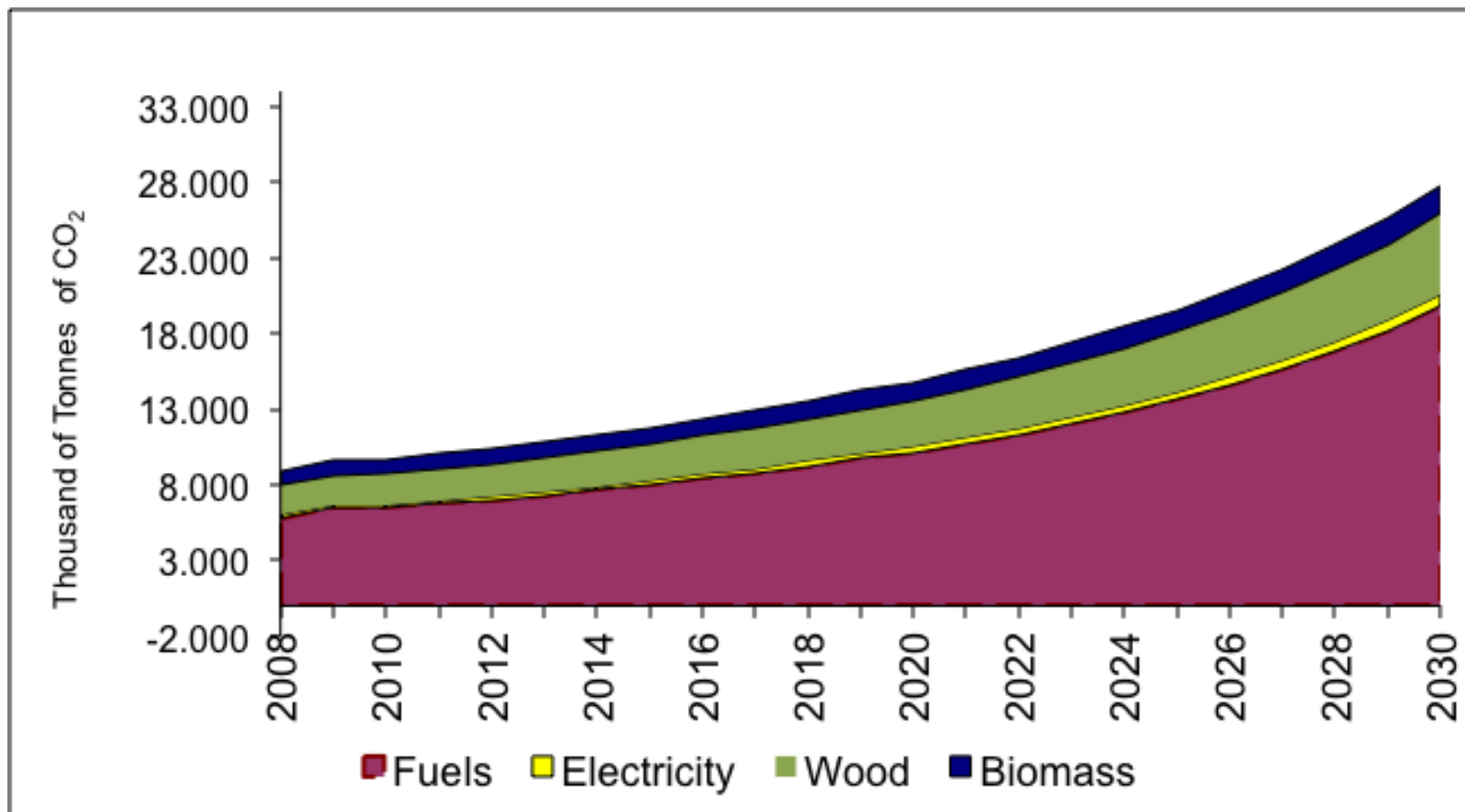
- Most of the **modeling** and **data availability challenges** coming from **agriculture, livestock, solid waste management**. (energy and forest with more recent work).
- **Weak support to policies** in **transport** and **solid waste management** to set intended sector contributions.
- Experience show **barriers** have to be **removed to success** in policy implementation.
- **Recent national GHG inventory** (2010) but with a **top-down** approach to be adjusted to support contributions modeling.
- **Bi-annual reports** also **need to be adjusted** to support the contributions MRV system.
- Requirement of **strategy for implementation**, stakeholders participation and MRV.



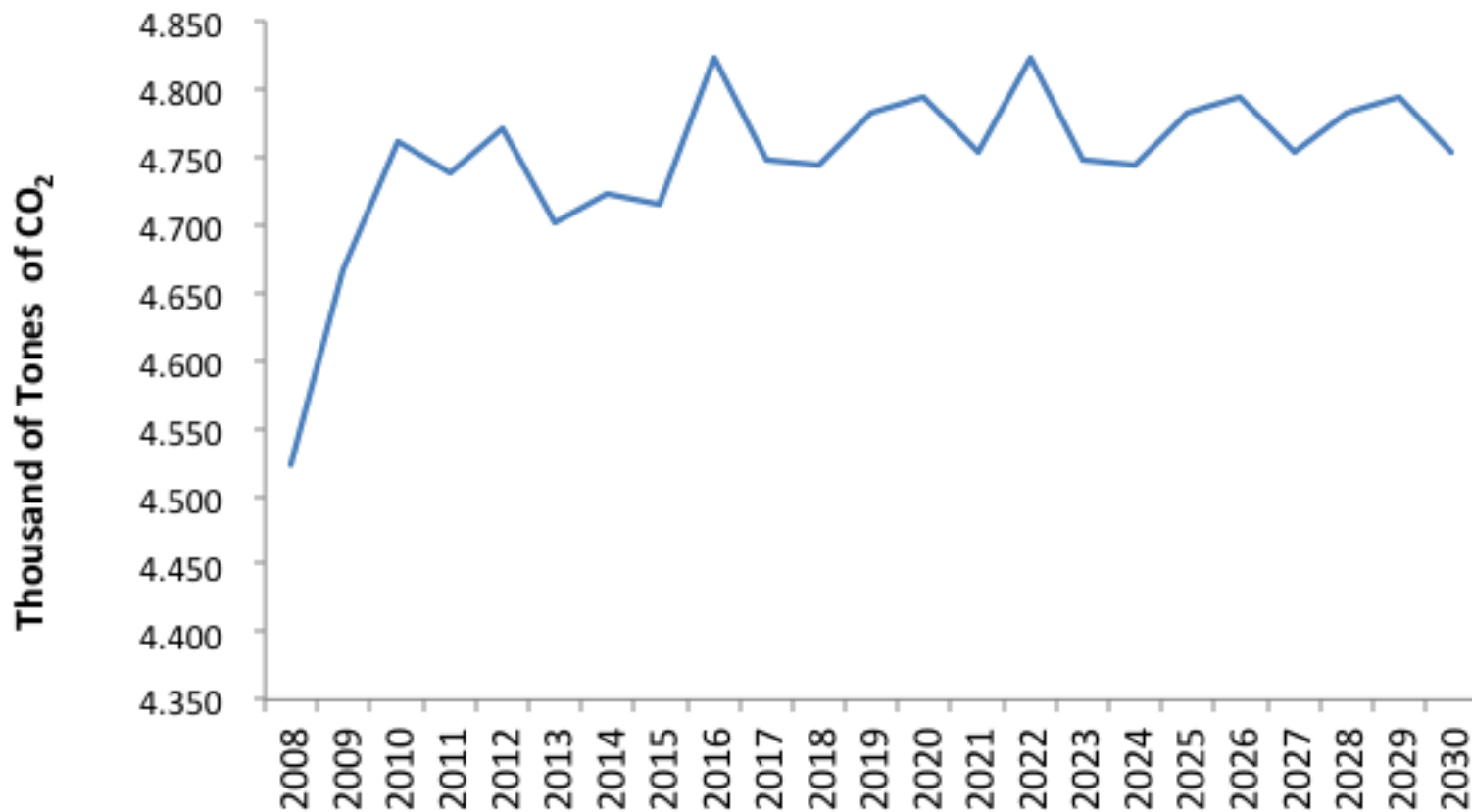
# Main results

## **NEEDS**

# NEEDS: Base scenario for energy emissions

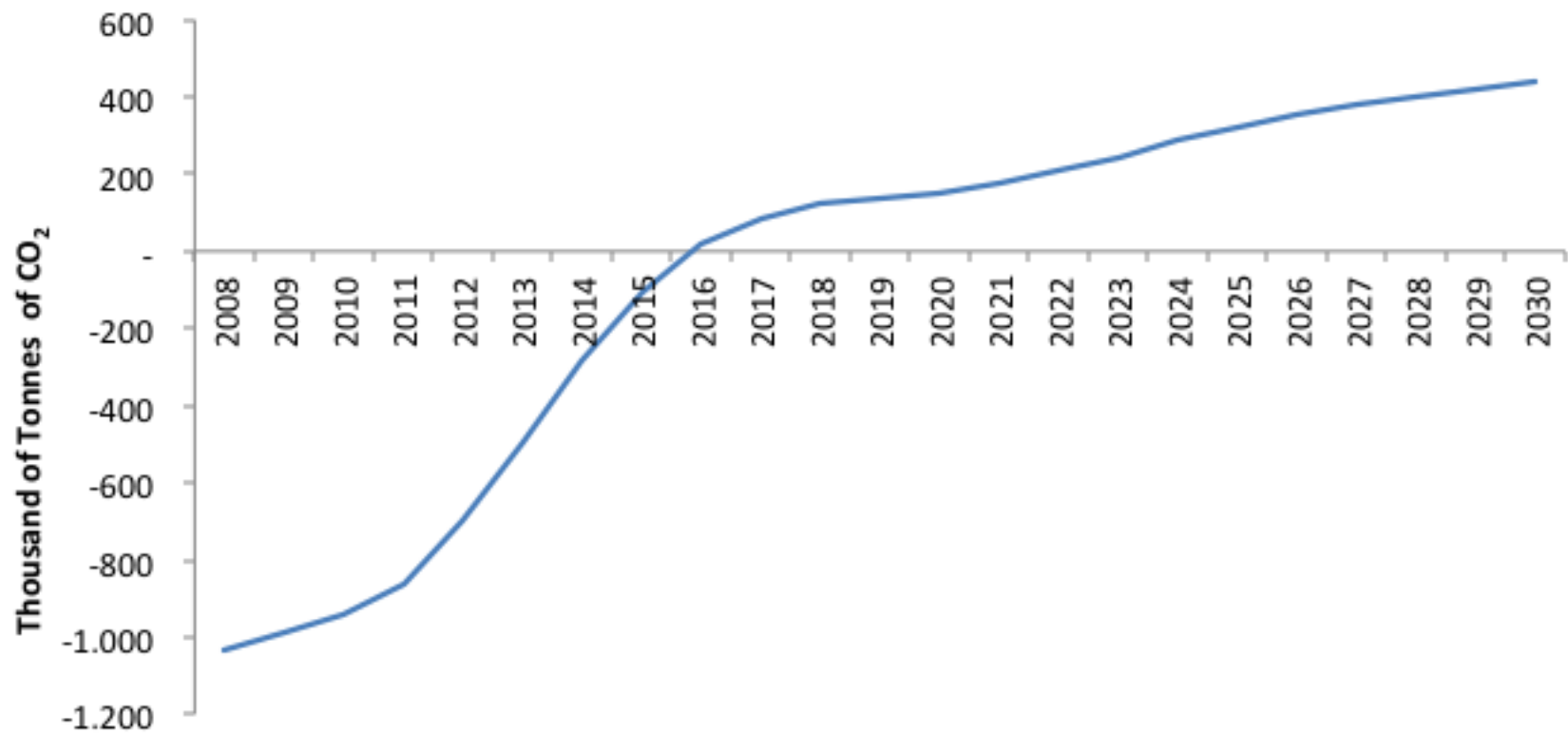


# NEEDS: Base scenario for agriculture and livestock emissions

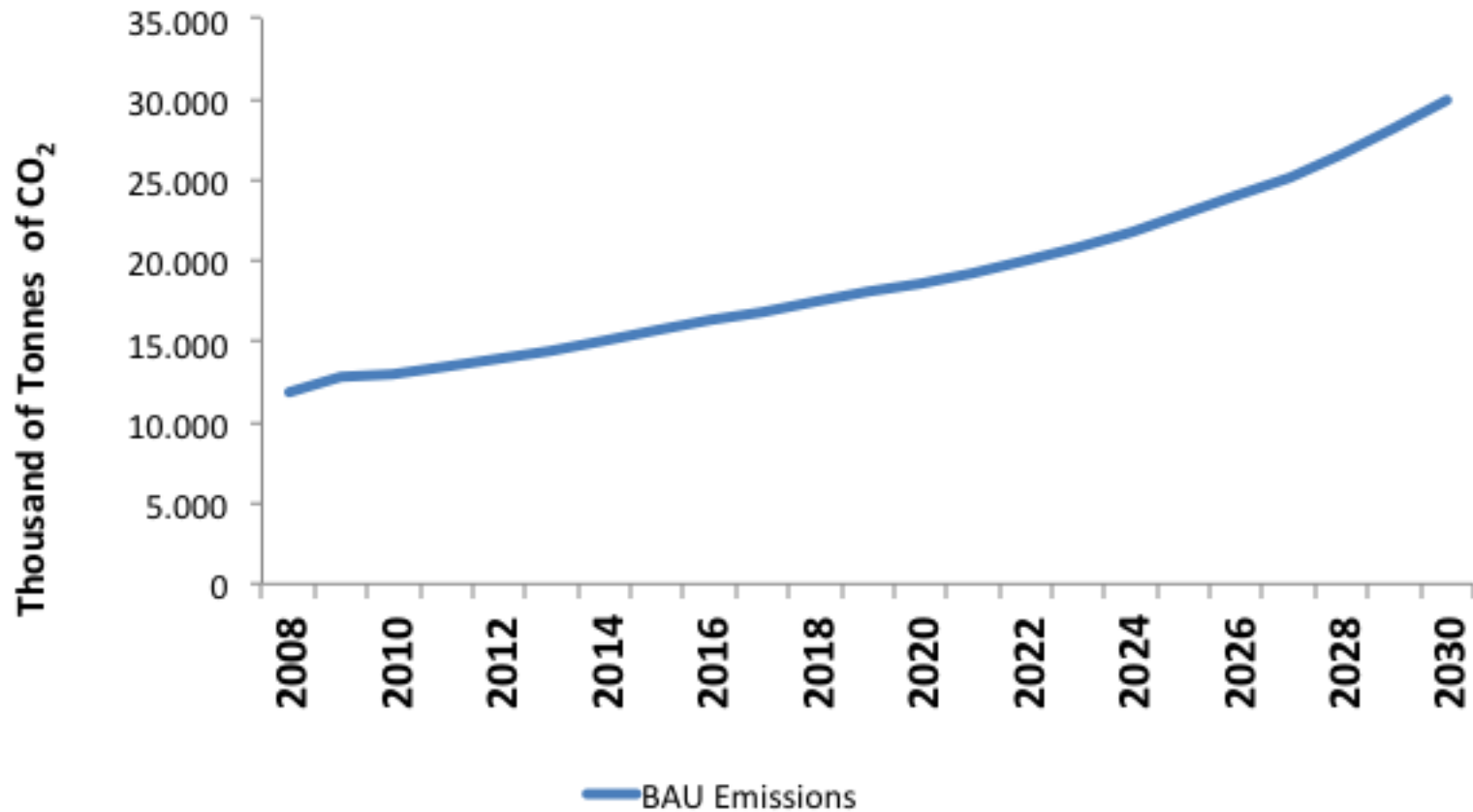




# NEEDS: Base scenario for forest emissions



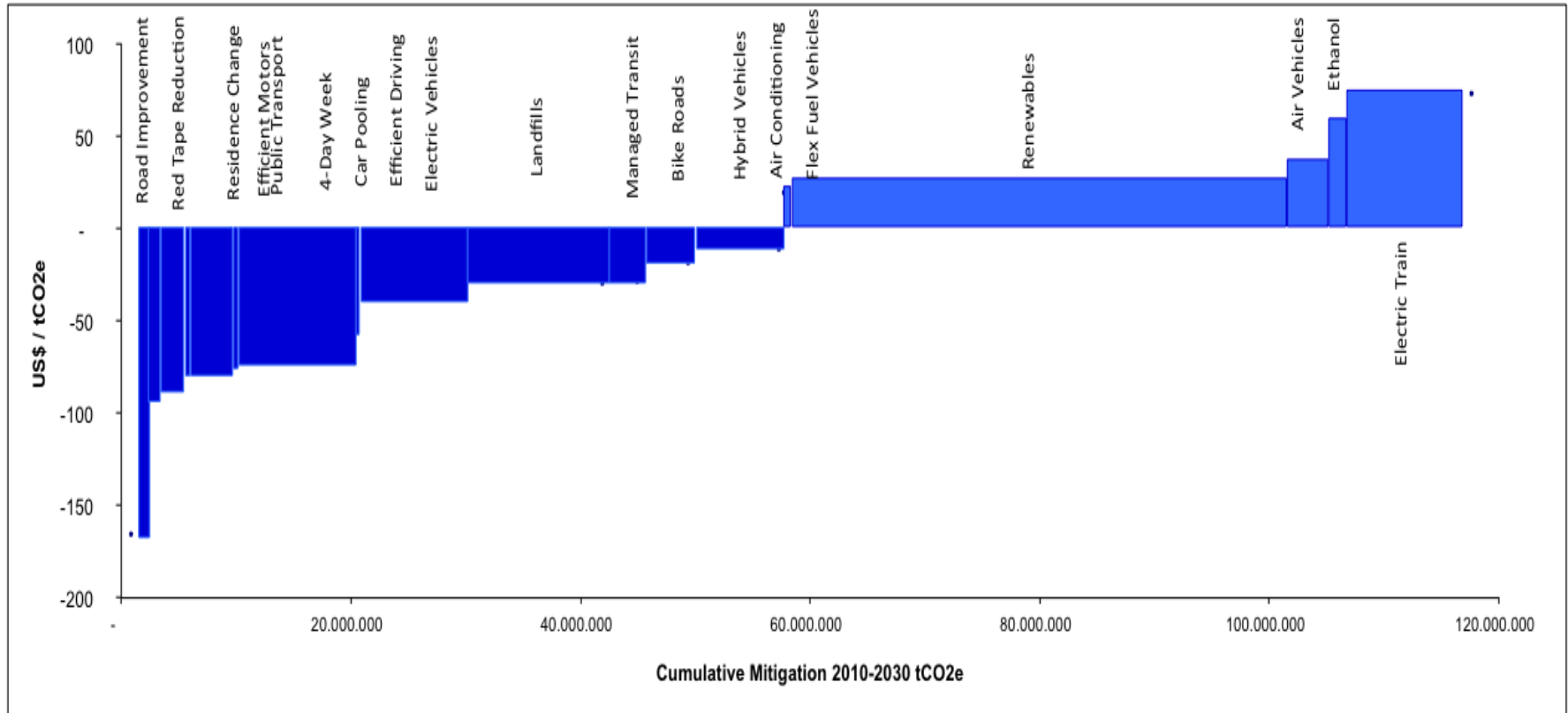
# NEEDS: Base scenario for total emissions



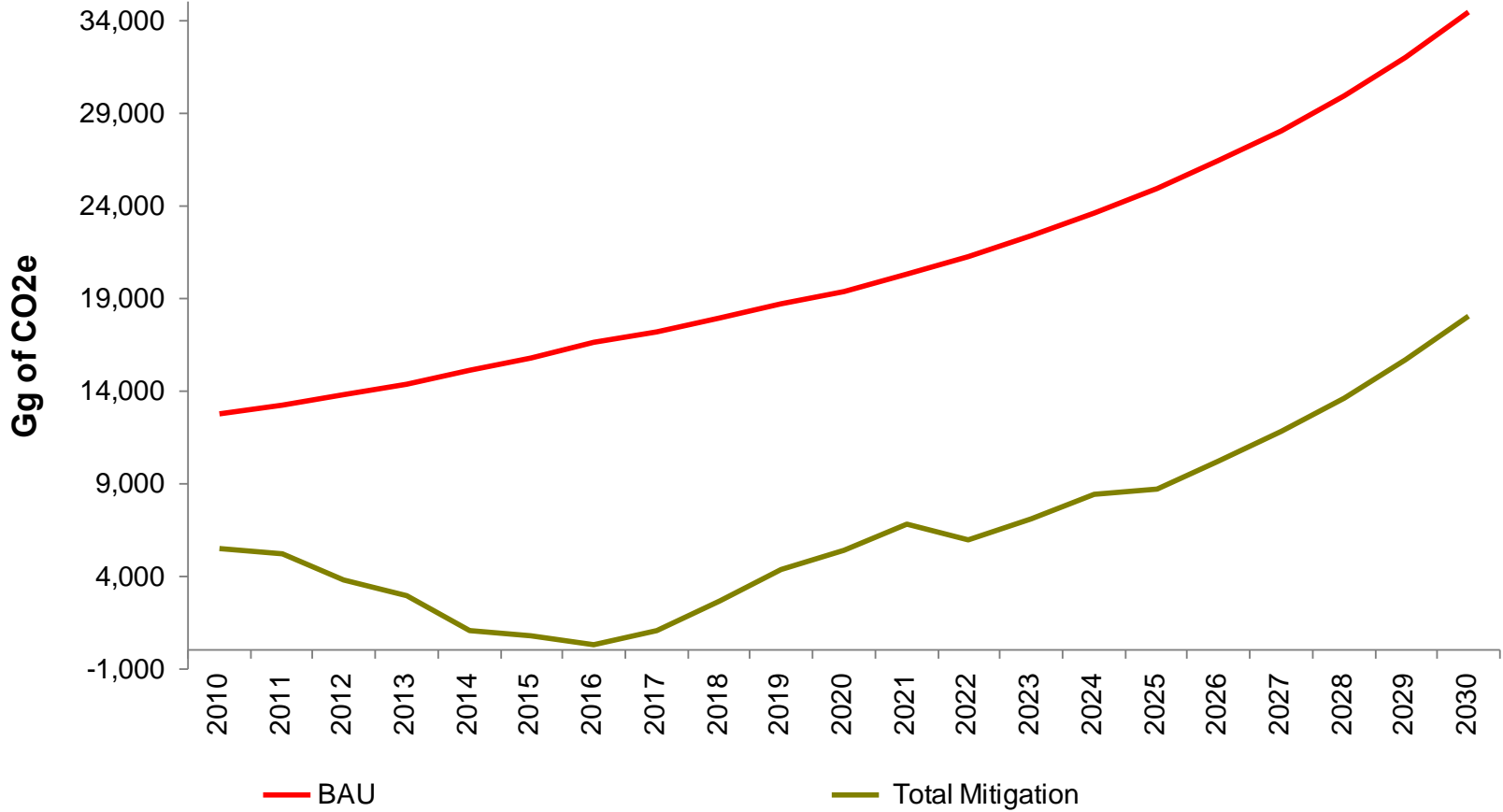
# Mitigation activities

1. Restrictions on vehicle use
2. Biofuels
3. Hybrid vehicles
4. Streamlining procedures
5. Flex-fuel vehicles
6. Car pooling
7. Electric trains
8. Public transport
9. Electric vehicles
10. Cycle paths
11. Decongesting roads
12. Four-day week
13. Moving home
14. Efficient driving
15. Improved road infrastructure (PRUGAM)
16. Compressed air vehicles
17. Industry efficient boilers
18. Industry efficient motors
19. Industry fluorescent lighting
20. Industry solar heaters
21. Industry efficient air conditioning
22. Education of households
23. Residential fluorescent light bulbs
24. Residential timers on water heaters
25. ICE expansion plan based on renewable sources
26. Landfills
27. Low-cost housing
28. Continuation of the current PES program in Forestry
29. Implementation of the strengthened PES program
30. Agro-pasture systems
31. Reduction of agrochemical use

# Abatement cost curve



# NEEDS: BAU and potential of mitigation activities





# Costa Rica: Intended Nationally Determined Mitigation Contributions

PMR Technical Meeting:  
Approaches and Tools to Setting Mitigation Scenarios  
September - Washington DC

