

Ethiopia

GMI – Municipal Solid Waste Subcommittee Country Update

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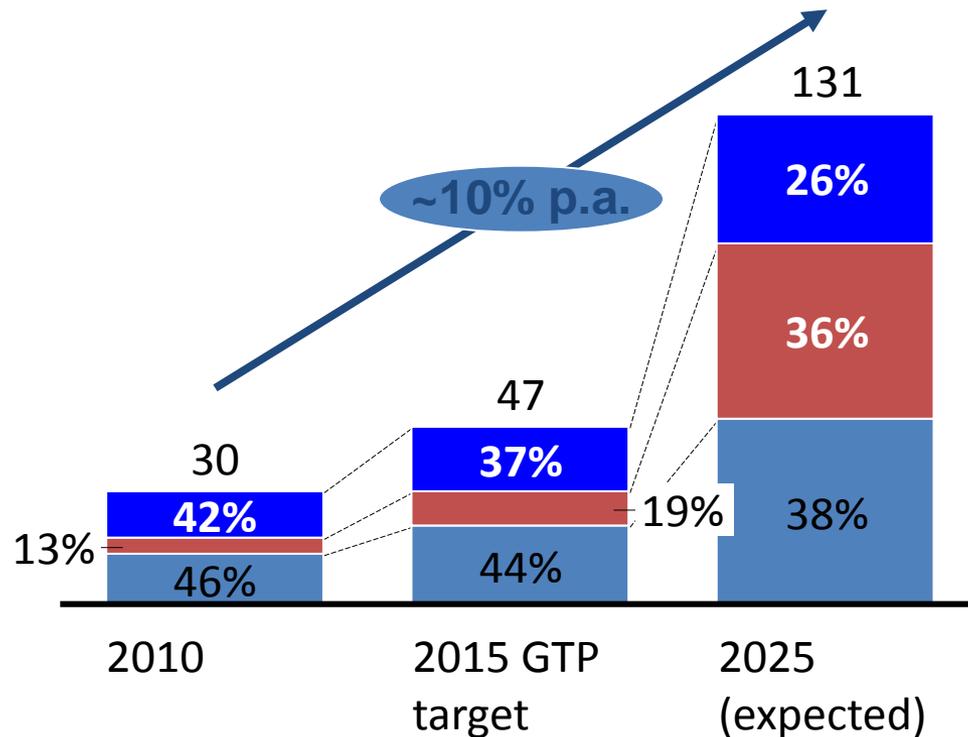
Regulatory Update

- **Climate Resilient Green Economy**
- **Ethiopia: a middle income country by 2025**
- **Net emission of GHGs to become zero/ neutral**

Middle Income Status by 2025

GDP, USD billions

■ Agriculture
■ Industry
■ Services



Key transitions

- Diminishing weight of agriculture from 42% to 26% of GDP
- Migration from agriculture jobs to services and industry
- Attainment of middle-income status before 2025

Population
mln

80

91

117

GDP p.c.
In USD

380

520

1,170

Seven Sub-Sectors

Goal of the sectors and implications

- 1 **Power** 
 - Build generation capacity to satisfy growing demand
- 2 **Gr. Cities** 
 - Reach economic growth targets as planned in the GTP
- 3 **Forestry** 
 - Economic growth of each sector will lead to higher emissions
- 4 **Soil** 
 - Economic growth of each sector will lead to higher emissions
- 5 **Livestock** 
 - Economic growth of each sector will lead to higher emissions
- 6 **Transport** 
 - Economic growth of each sector will lead to higher emissions
- 7 **Industry** 
 - Economic growth of each sector will lead to higher emissions

Contribution of CRGE

- **Enable** infrastructure development by developing strategy to **obtain financing**
- Develop green growth initiatives to **achieve GTP targets** while **reducing emissions**
- Provide essential analytics required to **secure carbon funding**
 - Estimate business-as-usual (BAU) emissions
 - Develop list of green growth interventions
 - Estimate abatement, growth contributions and feasibility of interventions
 - Develop implementation plans

Sectors Modeled

Sectors modelled and emissions sources & reduction targets

- Forestry (deforestation and degradation)
- Livestock (CH₄ from enteric fermentation and N₂O from manure left on pastureland)
- Soil (crops, fertilizers, manure)
- Transport [passenger (inner city, intra city, and international) freight (dry cargo, liquid cargo, construction and mining)]
- Industry (Chemicals & Agro processing & paper/pulp, textile & leather, cement, mining)
- **Green cities (solid waste, liquid waste, off-grid fossil fuel)**
- Power (conventional and renewable)

Green Cities

- **Increase solid waste collection.**
- **Increase proper disposal mechanisms.**
 - Landfills
 - Composting
- **Increase recycling.**

NAMA

Waste management

- Reduce methane emission in the following cities
 - Addis Ababa
 - Mekele
 - Adama/ Nazret
 - Bahir Dar
 - Diredawa
 - Hawasa
 - Harari

And Kaliti liquid waste disposal center

Methane Action Plan

- Completed
- Identified challenges and opportunities
 - Lack of capacity
 - Rapid urbanization
- Future actions
 - CRGE – Green cities
 - Investment Plan

National Plan

- Complement local & international initiatives
- World Bank & KFW
 - Municipality Improvements Project fund construction and capital investment
- Missing component
 - Local capacity
 - Composting and recycling initiatives

Addis Ababa – Repi Landfill

- Closure of 60% underway
- Initial plan flaring
 - CDM (PDD and registration funded from UNDP)
- New plan
 - Waste to energy

Addis Ababa Repi



Awasa Landfill

