Outlines of the presentation



Introduction

Outline

- National Forestry and Rangeland Policies and Strategies
- National Development Strategies (Climate Resilient Green Economy Strategy)
- Institutional Framework
- Current Planned Projects/Programmes

Conclusions

Introduction



>Forest in Ethiopia:

- **Ethiopia Climate is conducive for development and conservation of forest resources**
- ➤ In late 19th century, studies show about 30% of Ethiopia was covered with forest
- > Rapid population growth causing need for arable land, land for settlement and need for fuel wood has resulted in degradation of Ethiopian Forest over a centuries
- > Studies estimated that due to expansion of rain-fed agricultur, the amount of forest loss vary from 80,000 to 200,000 ha/annum
- > Unsustainable utilization and mismanagement of the resource resluted in less benefit from the sub-sector.
- ➤ WBISPP (2004) estimated a total high forest area of 4.07 million ha. or about 3.56% of the land area of the Country
- ➤ Of which 95% was located in 3 Regions (Oromya, SNNPR and Gambela).
- > As a result estimations show currently less than 3% of the original forest is remained.
- ➤ The Ethiopian Forestry Action Program (EFAP) estimated the full value of forest depletion in 1990 to have been about Birr 138 million or some 25 per cent of the potential forestry GDP of Birr 544 million.

Forest Contribution



- Over 90% of the Energy Consumed is from biomass Fuel
- Forest resources of Ethiopia is estimated to store 2.76billion tons of carbon (about 10 billion tons of CO₂ in the above ground biomass
- It is the habitat of many plant and animal biodiversity
- Great contribution in modifying micro climate in situation where the earth's average temperature is rising.
- It serves to hold soil from degradation and conserve moisture
- Significant contribution to the GDP, 2010 (about 2%)
- etc.

Ranglands Contribution to the Country



- Range lands support a large number of Livestock resources in the country
- Livestock population: Ethiopia is the first in Africa
- It plays a vital role in the economy of the country in terms of livelihood and Export.
- However land degradation is estimated to result a loss of 2 million hectars of pasture land between 1985 and 1995.
- Overstocking in turn is to be mentioned as one of the cause of range land degradation.
- Associated with that it was estimated to loss about 1.1 million tropical livestock unit during that time.



I. National Policies and Strategies and contribution of Forestry and Rangelands to the Ethiopia's Economy

National Policies and Strategies



Considered:

- Expansion of Forest Development Technologies
- Expanding Market Development for Forests
- Administration and Management of State Forest Protecting Forest Resources from Threats
- Establishing Modern Information Systems of Forest Development, Conservation and Utilization
 - 2) With the set of the set rate in the set of the set rate in the set of the
 - 1) Policy and Strategy:
 - Fostering of Private Forest Development and Conservation
 - Expansion of Forest Development Technologies
 - Expanding Market Development for Forests
 - Administration and Management of State Forest
 - Protecting Forest Resources from Threats
 - Establishing Modern Information Systems of Forest Development, Conservation and Utilization
 - 2) Forest Development, Conservation and Utilization Proclamation



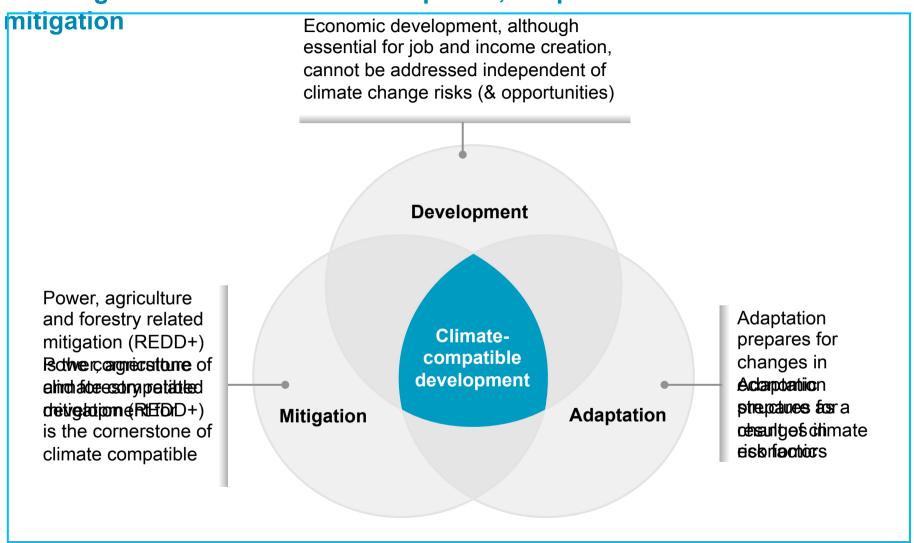
II. National Development Strategy: (Climate Resilient Green Economy Stratgey)

Ethiopia's Vision: building a Climate Resilient

Green Economy and achieve a Middle income country in 2025

Developing a climate resilient green growth plan requires the integration of economic development, adaptation and





1 Reduction in emissions from deforestation and forest degradation + sequestration from afforestation/reforestation

SOURCE: McKinsey

2. Climate Resilient Green Economy



Ethiopia: declared nationally and internationally 'Climate Resilient Green Economy (CRGE) as a priority in its development through including the CRGE strategy in its five year ambitious Growth and Transformation Plan



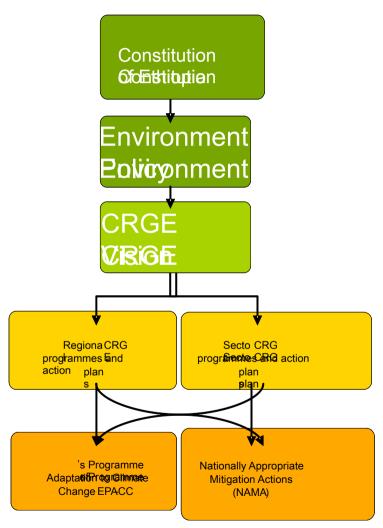
- Ethiopia: declared nationally and internationally 'Climate Resilient Green Economy (CRGE) as a priority in its (10 + 6) expressibilities (10 + 6)
- The CRGE strategy has two main components: Adaptation to Climate Change

and

Mitigation of Green

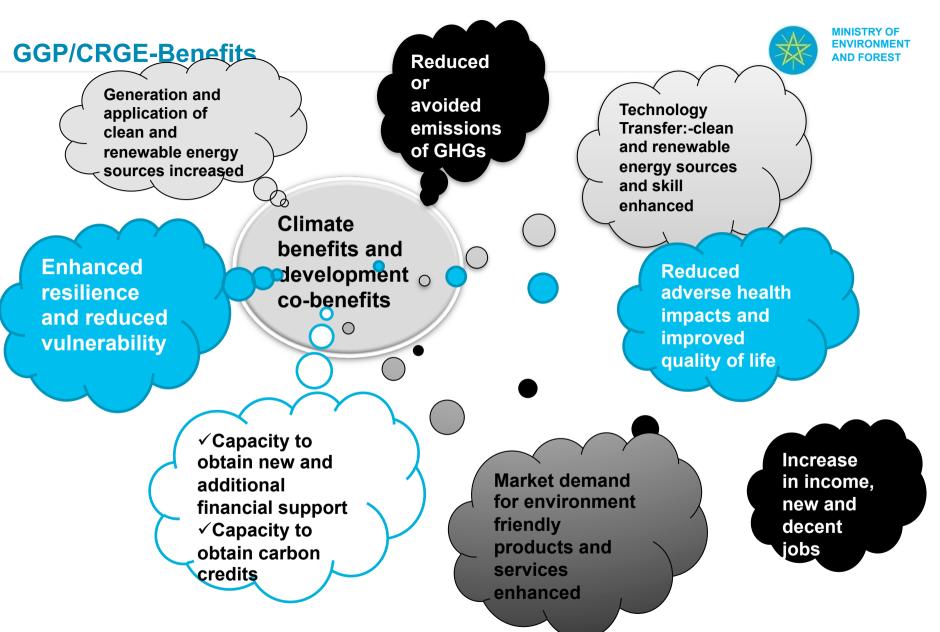
2. Climate Resilient Green Economy...





Ethiopia- CRGE by 2025

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Organization of the Green Economy initiative

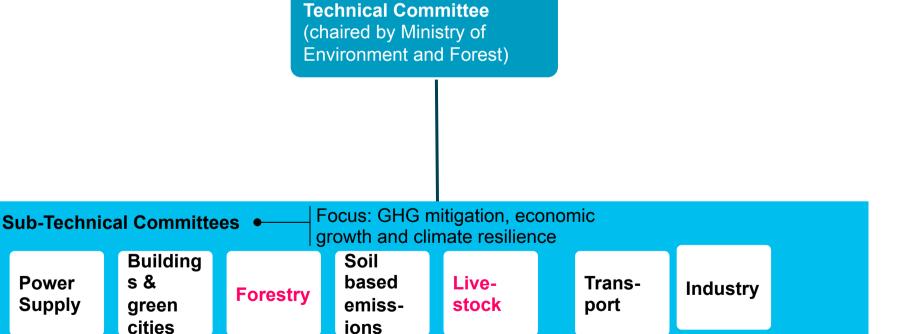
s &

green cities

Power

Supply





Organizing structure approved

12 SOURCE: EPA

Ministerial Steering

(chair: Ato Newai, EDRI)

Committee

The 7 Pillars of the Ethiopian CRGE Strategy



Goal of the sector and implications

- **Power**
- Build generation capacity to satisfy growing demand

Buildings/ **Gr. Cities**



3 **Forestry**



Soil



Livestock



Industry

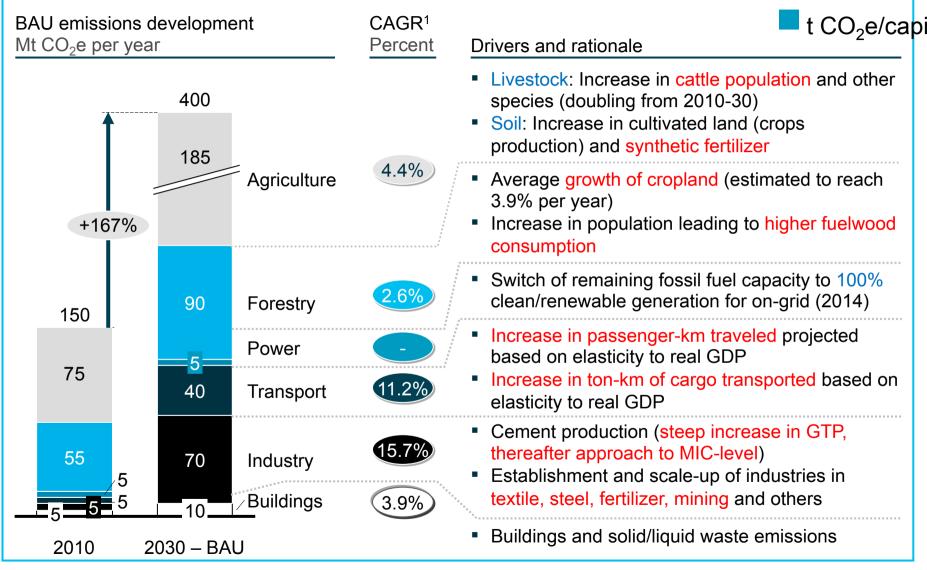
- Reach economic growth targets as planned in GTP
- Economic growth of each sector will lead to higher emissions

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 BAU emissions
 - Develop list of green growth interventions
 - Estimate abatement, growth contributions and feasibility of interventions
 - Develop implementation plans

If a typical development path were followed, emissions would increase from 150 Mt to 400 Mt (2010 to 2030)



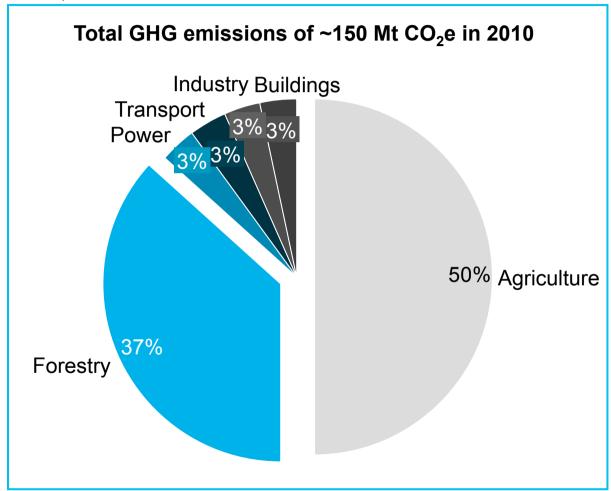


¹ Compound average growth rate

More than 85% of today's GHG emissions in Ethiopia come from forestry and agriculture



Share of GHG emissions, 2010



The strategy for a green economy is based on four pillars



Agriculture – Improving crop and livestock practices

- Reduce deforestation by agricultural intensification and irrigation of degraded land
- Use lower-emitting techniques
- Improve animal value chain
- Shift animal mix
- Mechanize draft power

Forestry – Protecting and growing forests as carbon stocks

- Reduce demand for fuelwood via efficient stoves
- Increase sequestration by afforestation/reforestation and forest management

Power – Deploying renewable and clean power generation

- Build renewable power generation capacity and switch-off fossil fuel power generation
- Export renewable power to substitute for fossil fuel power generation abroad

Industry, transport and buildings – Using advanced technologies

- Improve industry energy efficiency
- Improve production processes
- Tighten fuel efficiency of cars
- Construct electric rail network
- Substitute fossil fuel by biofuels
- Improve waste management









Green economy strategy

The Green Economy Plan is based on 4 pillars:

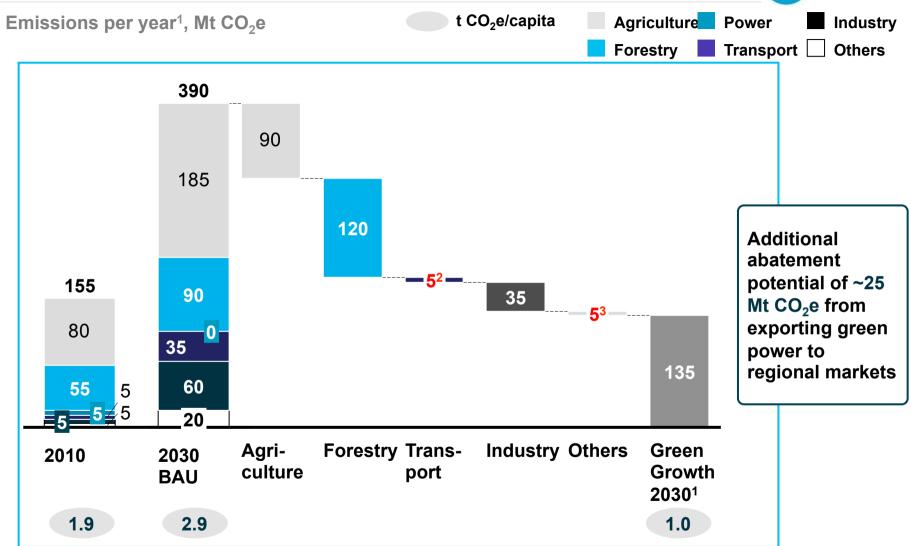


- Improving crop and livestock production practices for higher food security and farmer income while reducing emissions.
- Protecting and re-establishing forests for their economic and ecosystem services, including as carbon stocks.
- Expanding electricity generation from renewable sources of energy for domestic and regional markets
- Leapfrogging to modern and energy-efficient technologies in transport, industrial sectors, and buildings.

A total abatement potential of up to 280 Mt CO₂e has been identified, with 75% of related to agriculture and forestry



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¹ Rounded numbers 2 Only 4 out of 11 initiatives incorporated

Source: STCs

³ Currently estimated emissions form buildings and waste, will be updated

Forestry – List of identified abatement levers



Macro levers	Levers	Description
 Reduce pressure from agriculture on forestaduce pressure 	 Agriculture intensification on existing land 	 Decrease requirements for new agricultural land
reradades presente	 Prepare new land for agriculture through medium and large scale irrigatiepare new land for agriculture 	 Shift of new agricultural land from forest to degraded land brought into production thanks to irrigatitinof new agricultural land from forest to
	 Prepare new land for agriculture Prepare new land for agriculture 	 Shift of new agricultural land from forest to degraded land brought into production thanks to irrightitinof new agricultural land from forest to
 Reduce demand for fuelwood 	=	Reduce wood requirements thanks to efficient
	Electric stoves	Switch to electric stoves (in urban areas mostly)
	LPG stoves	Switch to LPG stoves
	 Biogas stoves 	Switch to biogas stoves (in rural areas)
Increase sequestration	Afforestation and reforestation	 Large scale afforestation and reforestation degraded areas
	 Forest management 	Large scale forest management programs

Source: Forestry STC analysis



I. Institutiona Framework

Institutional Framework



- The Previous Environmental Protection Authority is newly established as the Ministry of Environment and Forest (MEF) with new and additional responsibilities and mandates: Established by Proclamation Established having 2 State Ministers
 - 1. Environment State Minister
 - 2. For the track that the Usin test wire number of the track of the tr
 - The revironment ratrostation exists poesilated cardelitoinan nesposasibilities as and colored by Proclamation Established having 2 State Ministers
 - Then Toines treated that is the isomession of the information of Agriculture have transferred to MEF under the information State Minister is responsible for Environment and Climate

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- 1. Forest Programme and Systems Development and Monitoring Directorate
- 2. Protected and Degraded Forest Conservation and Development Directorate
- 3. Forest fund Coordination and Carbon Fund Support Directorate
- 4. Forest Registration, Follow up and Management Directorate
- 5. Community Forest and Agro forestry Extension Directorate
- 6. State Production Forest Development Directorat
- 7. Private Forest Development and Marketing Expansion Directorate 8.
- REDD Project Office

The Ministry of Agriculture: Range Land Management and other Agriculture and NRM related Issue

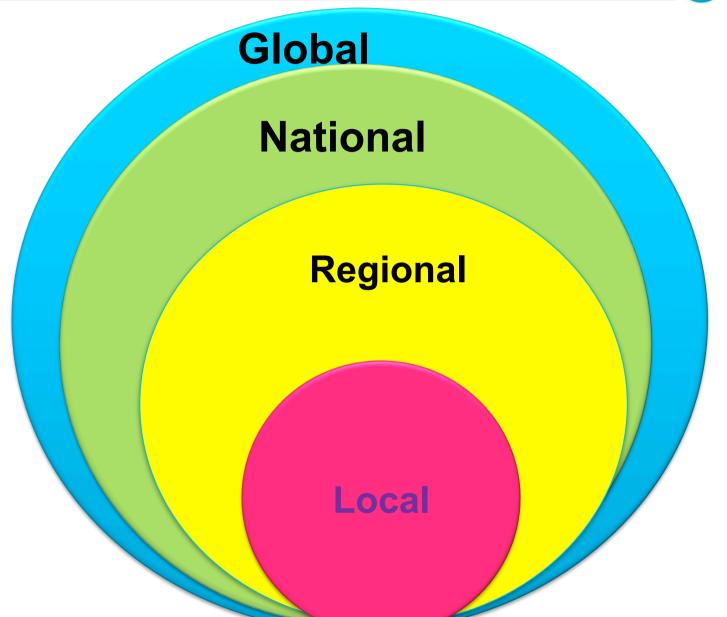
Current Major Initiatives in the Forest Area



- REDD (MEF)
- The Great Green Wall for Sahel S都面的口(机抽形)e (MoA)
- The Great Green Wall for Sahel

Conclusion...







Thank your attention!!!