



Ethiopian Initiatives to Cleaner Public Transport

Workshop On Promoting soot-free Public Transport in Accra, Ghana

Mr. Kasahun H. Mariam

Ethiopian Transport Authority

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Introduction

- **Ethiopia is a country found in the horn of Eastern Africa,**
- **It is the most populous nation in Eastern Africa and the second-most populous in Africa after Nigeria**
- **It has over 100,000,000 population.**
- **Economically,** Ethiopia is one of the world's fastest-growing countries
 - **It is REGISTERED AVERAGE OF GROWTH OF 10%** for the last **10 years**
 - **set a vision to reach a middle-income country by 2025**
 - **The vision will be achieved by building a green economy**

Introduction

- ❑ Ethiopia Develops a **Climate-Resilient Green Economy (CRGE) Strategy**
- ❑ The country aims to limit its GHG emissions **not to exceed 150 Mt CO₂e**
- ❑ On a conventional way it may emit more than 450Mt CO₂ by 2030
- ❑ The green economy plan is based on **four pillars:**
 - 1. Agriculture:** Improving crop and livestock production practices for higher food security and farmer income while **reducing emissions**
 - 2. Forest:-** Protecting and re-establishing forests for their economic and ecosystem services, including as **carbon stocks**
 - 3. Power:** Expanding electricity generation from renewable energy for **domestic and regional markets**
 - 4. Transport, industrial sectors and buildings:** Leapfrogging to modern and energy efficient Technologies

Introduction

Cont...d

- ❑ As a Result of the **CRGE Strategy** Ethiopia gives special emphasis to the **Renewable Energy Sources;**
- ❑ It builds many
 - **Hydro electric Dams and generates hydro power, (14 completed, 7 under construction),**
 - **wind energy, 324 MW, 3 projects**
 - **Geothermal energy, 1000 MW from 2 projects**
 - **Waste Energy 50 MW AT ADDIS**
 - **Bio fuel Energy: more than 9 million Energy Efficient Stoves Distributed up to 2015**
 - **Ethiopian Renaissance Dam is under Construction which will Generate 6,450 MW**
 - **Massively distributes Solar stoves and lights to the rural people.**
 - **Ethiopia produces more power than it consumes, it has become a regional power exporter.**
 - **We had gride connection with Kenya, Sudan and Djibouti for export power and has future contracts for power sales to Tanzania, Rwanda and South Sudan**

Transport Sector in Ethiopia

- Ethiopia has more than 800,000 Vehicles**
- MOTORIZATION INCREASE MORE THAN 11% PER YEAR**
- 88% of the Green House Gas emission in Ethiopia comes from transport and energy sectors**

Challenges Faced Ethiopian Transport; Specially in the capital City of Addis Ababa

- ❑ Imbalance PUBLIC Transport Demand and Supply**
- ❑ INCREASING Traffic congestions**
- ❑ ROAD SIDE PARKING**
- ❑ Air pollutions due to the prevalence of old vehicles**
- ❑ Poor of integration different mode**

Challenges Faced Ethiopian Transport

❖ Imbalance of Demand and Supply

People waiting for Transport Service



❖ Presence of old and pollutant vehicles

❖ Poor technological Utilizations in the sector

Lack of Integration DIFFERENT MODE transport



Challenges faced Cont

❖ Traffic congestions

- ❖ Air pollution problems:- due to lack of integration, Traffic congestion, presence of old vehicles



Challenges faced Cont

- ❖ **Management problems**
- ❖ **Rent seeking and good governance problems**
- ❖ **Capacity problems**

Measures Taken to Solve Transport Challenges

- ❑ **As part of the CRGE strategy the government works in the transport sector and makes a lot of changes**
- ❑ **As a result**
 - **Introduces two CORIDOR east-west and north – south Light Rail Transit in the Capital City,**
 - **Cross boundary standard gage Train transport 720 km up to Djibouti boarder to port completed**
 - **Second project raile to north part ETHIOPIA under conconstruction 48% COPLETED**
 - **These all uses Electric power,**

LIGHT RAILE ADDIS



CROSS BORDER RAILE



Measures Taken Contd

- ❖ ***To balance the Demand and Supply gap***
 - ***The government focuses on Mass Transport services***
 - ***Introduces government Employees Transport Service Buses in the National and Regional States Capital cities***
 - ***Encourages Private taxi Operators to shift to mass transport busses by incentivise custem Duty free and 70% Bank Loans facility if they form a company minimum of 50 buss***
 - ***In Addis Ababa **Bus Rapid Transit (BRT)** is under construction, one corrdor and other five rout identified***

Measures Taken Contd

- With this incentive they establish three (3) New private companies having 500 buses**
- Strengthening existing public bus company by introducing Intelligent Transport System and increasing their fleet by a New and clean buses**

Measures Taken Contd

□ Public Service Buses:

- **Owned by the government having 450 buses**
- **Gives transport service for all civil Servants free of payement working Addis Ababa city and Vicinity for employees of Addis Ababa City, Federal government and Oromiya region**

Public servant buss Oromiya region



Mass Transport Buses

❑ **Lion Bus Service Enterprise**

- **Owned by the government**
- **Strengthen to introduce new buses**
- **Serving the City and its' satellite towns**



Introduces New Mass Transport Companies

❑ **SHEGER Express Bus Transport;**

- ❖ **It is public Owned Enterprise 300 buss initial**
- ❖ **Serving the People of the capital city**
- ❖ **EURO 3 Less emission**
- ❖ **Used Modern Technologies :- GPS trucking, cctv ,Fleet management**



Introduces New Mass Transport Companies ... cont

❑ Alliance Buses;

- ❖ Owned by private Share Company**
- ❖ Serving the people of the City and it's satellite towns**
- ❖ Euro3 emission**
- ❖ Used Modern Technologies :- GPS, Sound Track, etc**



Measures Taken Contd

- **The city uses mostly mass transport such as LIGHT Train and Buses but also Taxis and Midi buses working integrate with the mass transport,**
- **In addition there is informal transport such as three wheel vehicles working as a feeder to the above**
- **The city introduces meter taxis in order to integrate with Buses and Train then to push out the old cars and taxis out side of the city**

Measures Taken Contd

- ❑ **The City government of Addis Ababa**
THEY CONSTRUCT SOME EXCHANGE
- **Builds pathways to minimize traffic congestions and air emission**



Mass Transport Buses ... Contd

- **Most of the regional states
Cities are started to use mass
transport by integrating with
the**
 - **Formal transport:** taxis, mini buses, midi buses and 3 wheel vehicles and
 - **Informal transport:** such as carts,

Non Motorized Transport

- ❑ **In the regional and other small cities and towns Non Motorized Transport specially Riding a bicycle and carts is common**
- ❑ **Due to the traffic congestion and other related problems the NMT is becomes reducing**
- ❑ **Recently the government give emphasis to enhance NMT**
- ❑ **Youths are organized to rent bicycle in Addis**
- ❑ **They are working as Feeders to the Formal transport**



Mass Transport Buses ... Contd

□ To Improve the Integration and minimize Congestions

- **Smart parking, Surface parking, Building parking areas constructed and others are under construction**
- **Freight vehicles are prevented to enter the city center at peak hours**
- **Parking prices are under revision to discourage private vehicles**





THANK YOU!!!!