

Ethiopian Initiatives to Cleaner Public Transport Workshop On Promoting soot-free Public Transport in Accra,Ghana

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Introduction

- Ethiopia is a country found in horne 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 AVREGE OF GROTH OF 10% for the last 10 years -set avision to reach a middle-income country by 2025
 - The vision will achieve by building a green economy

Introduction

- Ethiopia Develops a Climate-Resilient Green Economy (CRGE) Strategy
- □ The country aims to limit it's GHG emissions not to exceed 150 Mt CO2e
- On a conventional way it may emits 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 hade 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
- MOTERIZATION INCREASE MORE THAN 11% PER YEAR
- Base 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

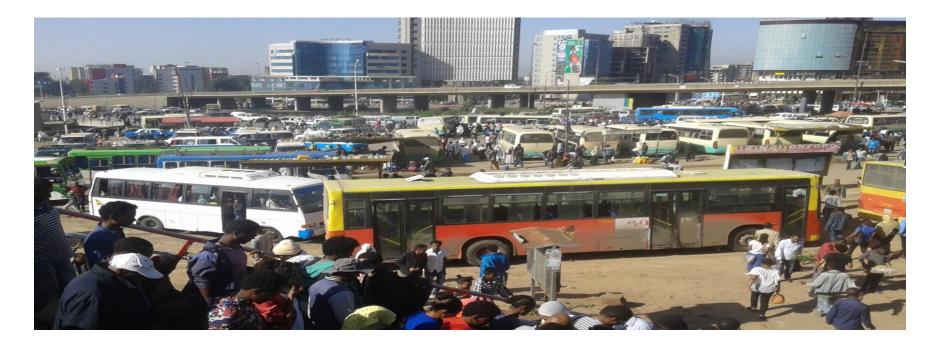


* Presence of old and pollutant vehicles

* 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 trasport
 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 BOARDER RAILE



- * 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

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

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





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 inital
Some the Book of the conital situ

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



- 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

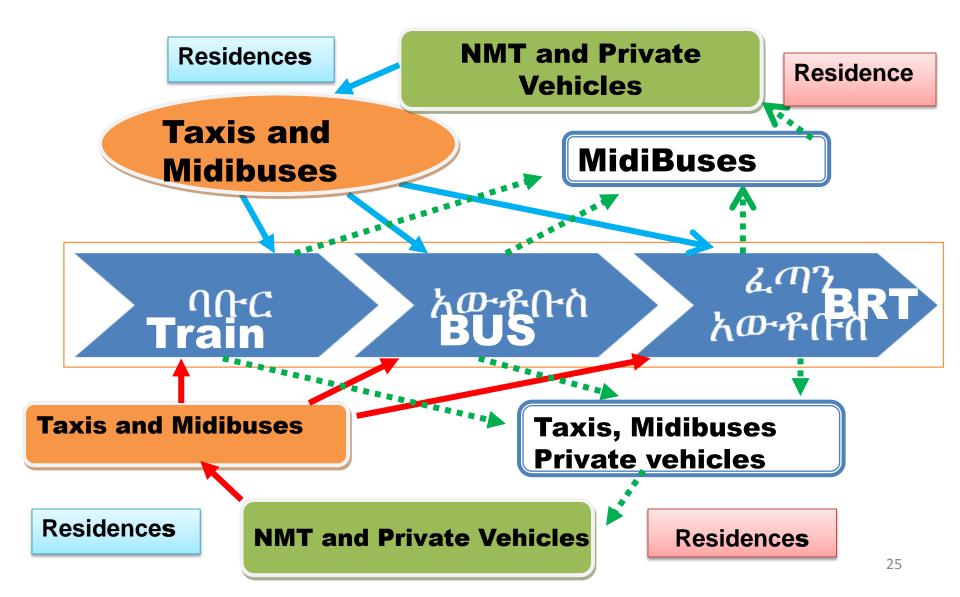
The City government of Addis Ababa THEY CONSTRACT SOME EXCHAGE > Builds pathways to minimize traffic congestions and air emission



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,

Integration of Transport Modes



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







