

# Ethiopian Initiatives fuel economy and Clean Mobility Workshop On Africa Clean Mobility Week 2018 Nairobi Kenya

Mr. Kasahun H.Mariam Ethiopian Transport Authority

March 2018 Nairobi -Kenya

#### Introduction

- Ethiopia is a country found in 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 fastest-growing countries
  - It has REGISTERED AVERAGE
     GROWTH OF 10% for the last 10 years
     set by 2025 become a vision to reach a middle-income
  - The vision will achieve by building a green economy

#### **TARGET**

- □On a conventional way it may emit more than 450Mt CO2 by 2030
- □ The country target to limit it's GHG emissions not to exceed 150 Mt CO2e

## **General Policies Developed**

- ☐ The four policy 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 /FUEL ECONOMY/ Technologies

# Projects under going to ward reneabel energy

#### ☐ 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.

#### **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; Especially in the capital City of Addis Ababa

- □HIGH FUEL CONSUMPTION FROM TRANSPORT
- □ INCREASING Traffic congestions
- **□ ROAD SIDE PARKING**
- □Air pollutions due to the prevalence of old vehicles
- □Poor integration of different modes of TRANSPORT

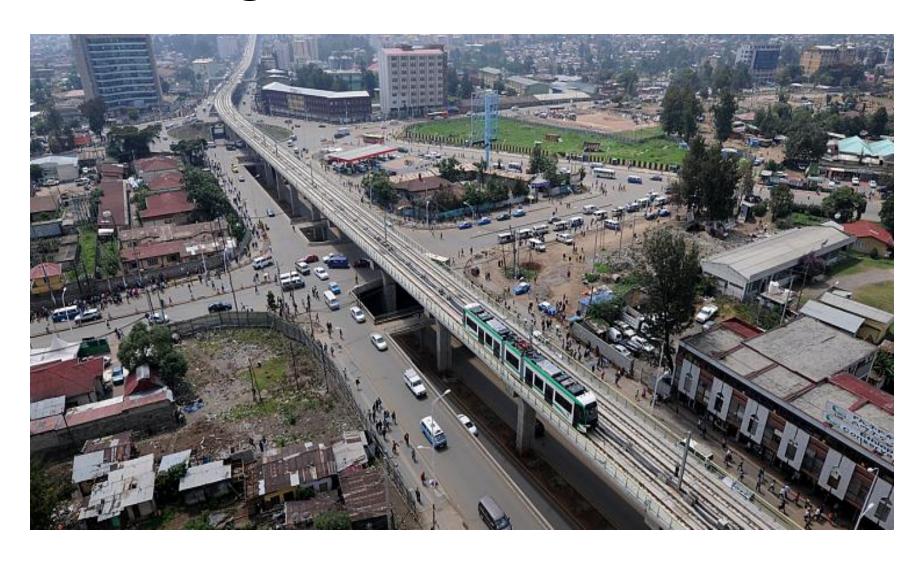
# Some of the policies implemented in transport sector

- Introduces two CORIDOR east-west and north south Light Rail Transit in the Capital City,
- Cross boundary standard gauge Train transport
   720 km up to Djibouti boarder to port completed
- Second project rail to north part ETHIOPIA under construction 48% COPLETED
- These all uses Electric power,

## Light Rail Addis Ababa



# Light Rail Addis Ababa



#### CROSS BOARDER PASSGER RAIL



#### CROSS BOARDER PASSGER RAIL



# Replacemnt Old salon Taxi

#### Government give financial Incentivize

- tax free privilege those who file
- -form accompany minimum 35 individual
- They have to buy a Minimum of 35 new salon taxi
- They were in the business of taxi industry before
- -so far 1063 new meter taxi star operation

#### **Current Salon Taxi**



#### New Meter Taxi 5 seat



#### New meter taxi 7 seat



# Replacement of old minibus taxi by bus

#### **Government give financial Incentivize**

- tax free privilege
- 70% bank loan
- -form accompany minimum 50 individual
- They have to buy a Minimum of 50 bus
- They were in the business of minibus taxi industry Addis before
- -so far 100 buss star operation 400 bus at the process

# Very Old Minibus taxi



### New Euro 111 buss



#### Introduce School Bus

- New police introduce school bus
- The first initiative taken by gov.
- 50 busses
- For private and government schools
- Will extend after the results are assessed

#### Current school service



#### The new school buss





#### Introduce New Double Deck Bus



#### Introduce New Double Deck Bus



#### Introduce Of Electric Three Wheel



## **ROSE Three Wheeler**







