



**Philippines**

# 44<sup>th</sup> Meeting of the APEC EGEEC

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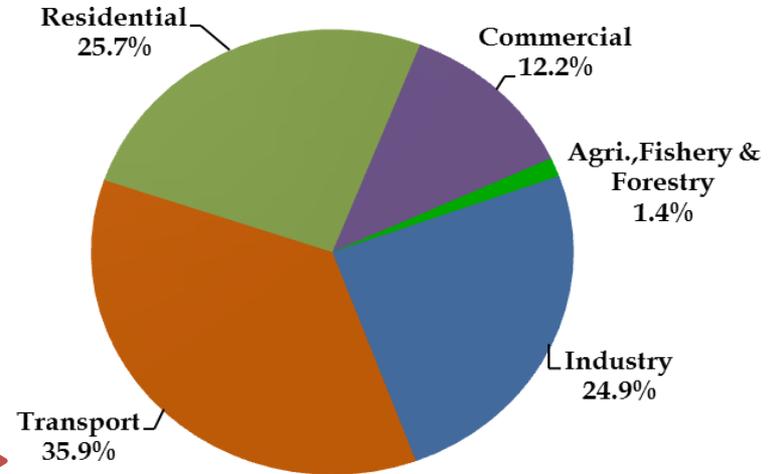
# 1) Main modes of Transport and its contribution to the energy demand and emissions

## Road Transports:

1. Private Vehicles
2. Vehicle Fleets
3. Public Utility Vehicles
  - Bus
  - Taxi
  - Jeepney
  - Tricycle (3-wheeled vehicle)

## Railway:

- Electric driven Rail Transit
- Motorized (diesel engine) Rail Transit



**2012 Final Energy Demand Consumption (% Share)**

## 2) Priorities and Targets set for the Transport Energy Efficiency Including the Policies and programs to reach the set Target

### Programs / Activities

#### 1. Emission Control, Standards, I/M

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|--|------|
| ❖ Implement Euro 4 emission standard (DOTC)                                  | 2016 |
| ❖ Introduction of Motor Vehicle Type Approval System Testing facility (DOTC) | 2014 |

#### 2. Vehicle Technology

- |  |           |
|--|-----------|
| ❖ Conversion of gasoline fed Tricycles to Electric Tricycles (100,000 units) (DOE)   | On-going  |
| ❖ Issuance of Order promoting CNG fueled vehicles and the operation of CNG buses (DOTC)  | completed |
| ❖ 33 units of CNG and 10 units LPG buses were granted franchises and 19,052 or 59% of taxis nationwide were converted to LPG fed engine (DOE/DOTC) | On-going  |
| ❖ Conversion 2-stroke engine into 4-stroke engine (motorcycle) (DOTC/DOE)  | completed |

- ❖ **Standard & Labelling Program for Passenger Cars and Light Duty Vehicles (Multi-agency cooperation)** On-going
- **Enactment of National Energy Efficiency and Conservation Bill into law (SB 1085; SB 167; HB 4393)**



## 2) Priorities and Targets set for the Transport Energy Efficiency Including the Policies and programs to reach the set Target

### Programs / Activities

#### 3. Public Transport

- |   |          |
|---|----------|
| ❖ Bus Rapid Transit System for Metro Manila, Cebu City and Davao City: (WB assisted project) (DOTC)           | On-going |
| ❖ Expansion of Metro Rail Transit (MRT) and Light Rail Transit (LRT) (DOTC)                                   | On-going |
| ❖ 12 Kilometer Mass Transit Loop Subway System connecting the cities of Makati, Taguig and Pasay City. (DOTC) | Proposal |

#### 4) Current Status of Policies and Programmes (under development, under review..)

Most of government Policies on the transport sector are on its implementation stage but there are some that needs to undergo Legislation Process (i.e., National Energy Efficiency and Conservation Bill)

## 5) Key successes or Learning

### ❖ Alternative Fuel Program of the Government

- The imposition of 10% bioethanol in gasoline and 5% CME in Diesel resulted in the reduction of gasoline and diesel demand.
- The increase on the use of CNG for Public Bus transport resulted in reduction of harmful emission – this has yet under commercialization stage process
- The increase on the use of Auto-LPG for Public Taxis displaced large volume of petrol in the market thus resulted in the reduction of harmful gas emission.

❖ The expansion of Electric Driven Railway System as an emerging mode of mass transport system for the country has seen to be as an energy efficient technology in terms of energy consumption per ridership or per capita notwithstanding its big contribution to the environment.

**BRIGHT NOW!**  
DO RIGHT. BE BRIGHT.



## 6) Key Challenges and Opportunities with respect to EE in the transport sector

- ❖ Enactment of National Energy Efficiency and Conservation Bill into Law
- ❖ Implementation of Green Procurement policy in Government Transactions ( specifically on government vehicle procurement)
- ❖ Reactivate developmental cooperation with the appropriate sectoral stakeholders on the development of Fuel economy Standard for Road Transport (previously initiated by Multi-sectoral group led by the Climate Change Commission, the Dept. of Environment and Natural Resources and the Dept of Energy)



## Current Government Priority Program on Energy Efficiency and Conservation

Enforce implementation of Demand-Side Management (DSM) Program in the Government Sector under its “Government Energy Management Program”

- ❖ Replacement of Aircon Units with an energy efficient Inverter Type or Solar Assisted Type ac
- ❖ Replacement of all 40 watts and 36 watts Fluorescent Lamps with 16 watts LED Linear Lamps.

Issuance of *Department Order (DC 2014-08-11)* to the Commercial, Industrial, and Electric Distribution utilities, enjoining these sectors to implement DSM in their respective establishments/facilities.





*Thank You ....!*

