National Agenda for sustainable Transport in Egypt

Dr. Mona Kamal
Head of Environmental Quality Sector, EEAA
Ministry of Environment, Egypt

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1. Introduction.
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1- Introduction

✓ The past two decades have witnessed a significant increase in the number of licensed vehicles in Egypt as a result of development and increased demand for transportation, leading to increased air pollution emissions of these vehicles.

✓ The air pollution is a major problem, and a serious challenge to the environmental work in Egypt.

✓ The sources of air pollution are mainly from:
  • Industry
  • Traffic & vehicles emissions.
  • Open air burning of the municipal & agriculture waste.

Ministry of Environment
In addition to the effect of natural factors resulting from the desert climate which is the characteristic of Egypt, where the scarcity of rainfall and blow of dusty winds.

Therefore, the Egyptian Ministry of Environment has developed a strategy to improve air quality aiming to reduce the pollution loads resulting from all sources in general, and from vehicle exhaust in particular, with the participation of stakeholders from ministries, governorates and non-governmental organizations.
2 - Ministry of Environment Vision to reduce air pollution from the Transport Sector

✓ Forwarding to mass transit, and private sector participation in the management and operation.

✓ Upgrading the old vehicles through recycling and replacement by cleaner vehicles e.g. CNG, Hybrid and Electric vehicles.

✓ Develop the vehicles emission test operated by privet sector to issued the exam certificate & car license.

✓ Improve the quality of diesel fuel used in Egypt, and reduce the sulfur content.

✓ Introduce electric vehicles and bicycles as zero emission means of transport in Egypt.
3- Programs and projects implemented by EEAA to reduce air pollution emissions from vehicles

1. Programs for vehicles exhaust inspection.

2. Old vehicles scraping and replacement programs.

3. Expand the use of natural gas CNG as fuel in transportation.
1. Programs of vehicles exhaust inspection

a) Vehicles exhaust inspection on the roads

Since 2005, The Ministry of Environment in collaboration with the Ministry of the Interior (Traffic Department) are implementing joint campaigns to inspect the exhaust of vehicles on the roads.

Accordingly, violations may lead to withdrawal of licenses and fines, as set in environmental law.
The owner of the vehicle is given a month as grace period to repair the engine and re-check again at the technical center for the exhaust of vehicles to ensure conformity with the emissions limits in the executive regulations of the environment law before allowing him to re-run the vehicle again.

The program also include implementation of awareness campaigns to urge drivers to the importance of the engine tune-up to reduce emissions.
b) Program for Inspection of Buses of Public Transport Authority

Since 2007, The Ministry of Environment in collaboration with the Public Transport Authority are implementing a program to regularly inspect PTA buses.

Based on the test results, buses may have to tuned up and/or repaired.
Since that time, The Ministry of Environment in cooperation with the Public Transport Authority are scrapping and replacing old buses by new cleaner buses (e.g. natural gas operated).

This matches country's plan to eliminate polluting old vehicles, that consume large amounts of fuel and cause traffic disturbance.
2. **Old vehicles replacement programs**

a) **Old taxis scrapping and replacement CDM project.**

The Ministry of Environment has implemented a pilot project in Greater Cairo to replace 1100 old taxi of more than 20 years in old with new ones operated by natural gas.

Based on the success of the pilot, the Ministry of Finance adopted full implementation of replacing more than 45,000 taxis.
b) **Old microbuses replacement Project**

The Ministry of Environment is currently implementing a pilot project in Cairo governorate to replace 1000 old microbus with new ones working with natural gas.

As a result of the potential success of project, this policy will be extended to other governorates.
c) Project of replacement of 2-stroke motorcycles with 4-stroke new ones

Since 2008, two stroke motorcycles have been banned (imports and local manufacture). The Ministry of Environment is currently implementing a pilot project in Fayoum governorate to replace 1000 two-stroke motorcycles with new 4-stroke ones, 750 motorcycles have been already replaced successfully, and the project will be expanded on large scale.
Since 1993, the Ministry of Petroleum is implementing a program for converting gasoline cars to utilize compressed natural gas (CNG). A smart card is used to allow conversion to CNG, without advance payment. The conversion cost will be paid from gasoline and natural gas price difference.

The following activities have been conducted:

1- Conversion of 217,000 vehicles to be operated with natural gas.
2- Increase the number of fuel stations to 181 station, and 72 centers for conversion to CNG.
3. Six private companies are now working in this field in Egypt.
Ministry of Environment
The MoE is implementing 2 national projects in cooperation with other ministries, governorates, and private sector. These projects are:

a) “Sustainable Transport Project for Egypt” funded by the United Nations Development Programme (UNDP) and the Global Environment Facility (GEF),

b) "Support to an Improved Urban Transport System in Cairo” funded by the French Development Agency (AFD).
The projects aim to:

✓ Re-planning of the transport system in Egypt to reduce air polluting emissions, and increase fuel consumption efficiency.

✓ Switch to mass transit, and the use of non-motorized transport (cycling and walking).

✓ Reduction of air pollutants and greenhouse gas emissions that cause climate change.

✓ Support the stakeholders for the development of transport systems and applying the environmental management in the transport sector (Governorates - Ministries).
Activities of the projects that are being implemented:

1- Construct new networks for walking and cycling in Fayoum and Shebin El Kom cities with total length of about 14 km in each city.

2- Establishing 3 new high quality public services to be operated by private Sector, and connecting 6 October City, Sheikh Zayed City and Dream Land with Metro stations in Giza Governorate.

4- Conducting studies to measure and calculate emission factors for motor vehicles.

5- Converting a pilot garage belongs to Cairo Public Transport to be a Green Garage.
Thank You
For Attention