

Experience Sharing Dialogue  
on  
**Improving Quality and Performance of Natural Gas Vehicles Program in South  
Asia**

**Presentation on-**

**Safety and Regulatory regime of CNG driven vehicles -  
Challenges**

Presented By-

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## CNG as a Transport Fuel

-First introduced to Bangladesh in 1982 through a World Bank pilot project.

-Scenarios:

**-CNG vehicles:**

-6500(2002), 0.2 million(2010)

**-CNG Conversion Workshop:**

-5(2002), 177(2010)

**-CNG filling stations:**

-12(2002) and 75 (2005) and 177(2010)

# CNG vehicles dominating city – Challenges

-Increasing Demand

-Installation and maintenance and  
operational safety

-Emission and Climate change

# Regulation and Institutional measures

- ▶ Framing related rules and regulations, specification and standards
- ▶ Develop institutional capacity to address regulatory , safety and operational issues
- ▶ Need certification and monitoring
- ▶ Third party inspection

# Policy and guidance documents

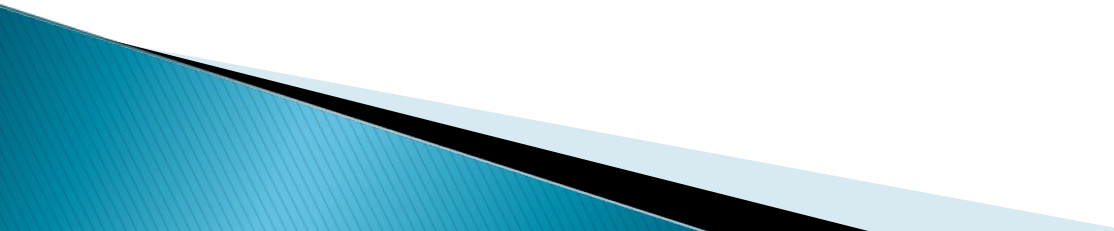
-Bangladesh CNG rules 2005 (*Department of Explosives; Energy and Mineral resource division, Ministry of Power, energy and Mineral Resources*)

**->>Safety Codes & Standard for CNG FUEL Systems for Vehicles – 2007**  
(Draft, BRC Act, Bangladesh Energy Regulatory Commission)

-Motor Vehicle Ordinance 1983/ MV Tax Act 1932

**- >> Proposed Road Transport and Traffic Act (RTTA)**

## Weakness of MVO

- ▶ MVO does not recognize CNG, LPG and Solar energy as vehicle power source
  - ▶ As such CNG vehicles , its fitment, serviceability and safety do not fall under mandatory fitness inspection
  - ▶ Modern regulation and Management issues like Route franchising, Company based operation, phasing out of motor vehicles are not covered by the law
  - ▶ Emission standards are not incorporated in the MVO law
  - ▶ MVO covers motorized traffic only
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# Road Transport and Traffic Act (RTTA)

**Total 19 chapters replacing previous 11 chapters**

**Proposed additional Chapters those will improve MVO**

- Chapter II (split pre. Ch1), Definition where CNG will be defined as transport Fuel
- Chapter IX, Manufacturer, Assembler and Dealers
- Chapter XVII, Road Regulations (May be modified)
- Chapter XI, Pedestrians and NMTs
- Chapter XII, Road Accidents and Accident Reports
- Chapter XIII, Anti Auto-Crime Measures
- Chapter XVI, Taxes on Motor Vehicle

**Proposed additional Clause added related to presentation topic**

- Violates standards in relation to road safety, control of noise and air pollution
- Penalty increase for vehicles fails to comply with emission and safety standard.

## Way forward:

- Need for more stringent emissions standards for future CNG vehicles
- Learning and Benefiting from CNG driven Safety Incidents
- Quality of Natural Gas

# Thank You all