Implemented Technologies to control Air pollution in Dhaka City

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AIR QUALITY MONITORING NETWORK (31 STATION) IN BANGLADESH
(PM$_{2.5}$, PM$_{10}$, SO$_x$, NO$_x$, O$_3$ AND CO INCLUDING WEATHER PARAMETERS)
Implemented Technologies to control air pollution in Dhaka City

- Ban Two-Stroke Three-Wheelers vehicle and Introduced CNG Vehicles
- Metro Real Services in Dhaka city
- Lead Phase Out from Gasoline
- Gas based power production
- Transformed the Brick Kilns technology
- Fired brick to non fired block promotion
- Majority household use Urban stoves uses natural gas
- Traditional cooking stove transformed to Improved cook stove
- Introduced solar and energy efficient technologies
- Improvement of waste management
Ban Two stroke Three-wheeler and introduced CNG Vehicle

Ban Two-Stroke Three-Wheelers vehicle (2001)  Introduced CNG vehicle
Introduced metro rail service in December, 2022
Pb-free gasoline in Bangladesh from July 1, 1999.
Gas based power station including industrial generator
Traditional Brick kilns to Zigzag technology brick kilns Conversion (2010 to 2020)
Fired brick technology to Non Fired (Block) technology development (2020 to onward ... )
Majority urban household of big city use (pipe line) natural gas (started 1975... )
Partially introduced Improve cook stoves

- Bhondu chula
- Electric cook stove
- LPG Cook stove
- Traditional solid fuel cook stove
Partially Introduced solar and energy efficient technologies

solar technology

Energy efficient technology
secondary transfer station development for waste management in Dhaka

Open road side waste burning  secondary transfer station
Air Quality Improvement - Challenges

- Regular basis vehicle emission monitoring, introduce the large scale electric vehicle and metro rail services
- Online Industrial emission monitoring (Brick Kilns, cement factory etc.)
- creating market demand and ensure availability the raw material for non fired Brick (Block)
- Ensure the fossil fuel quality
- Control Waste management and Biomass burning
- Ensure 100% uses of Improve cook stove
- Waste, Road and soil dust management
- large scale solar system development and ensure the effective rooftop solar system
- Financial capability development for the energy efficient technologies uses
- Modernization of oil refinery
- Institutional strengthening
Thank you