

Innovative Approaches to Management of Mobile Sources of Pollution

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Concluding Workshop: Reducing Vehicle Emission
Project

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Context

- A Great Deal of Progress in Reducing Mobile Sources of Emissions Has Occurred Throughout the Region
- Four workshops on Fuels, 2-3 wheelers, I&M and Transport Planning and TDM have resulted in large number of success stories
- All are documented in workshop papers on <http://adb.org/vehicle-emissions>

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Fuel Quality and Alternative Fuels (1)

- General Success story has been removal of lead in almost all Asian countries - large progress in last 2 years
- Introduction of Low Sulfur Diesel and Petrol is Beginning (e.g., China, Singapore)
- Use of tax incentives has successfully promoted the use of Ultra Low Sulfur Diesel (>50 ppm) in Hong Kong, China and Unleaded Gasoline in e.g. Philippines



Fuel Quality and Alternative Fuels (2)

- Introduction of CNG in Pakistan, PRC, Thailand, India has significantly reduced PM emissions from selected vehicle categories (e.g., buses, autorikshaws)
- Advocacy by Supreme Court in India has advanced case of alternative fuels
- Several countries have large CNG reserves and are now actively considering use for transport e.g. Philippines, Viet Nam, Indonesia
- **LPG Also Has Important Role in Some Countries**

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Transport Planning and TDM

- Efforts to reduce congestion have also resulted in reduction of air pollution as demonstrated well in Bangkok
- Slowly more emphasis is being given to arriving at documenting linkage increased mobility and pollution - HCMC, Shanghai, Jakarta etc.
- Some cities have demonstrated potential of TDM, esp. Singapore, integration mass transport - land use planning, road pricing
- Buslanes in Kunming



Awareness Raising

- More comprehensive attention is being given to awareness raising and special structures are being created: PCA Manila, Segar Jakartaku
- Some efforts underway to better document health effects pollution
- Increased amounts of awareness raising materials being produced

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Institutional Development

- Growing awareness of institutional complexity, even if not successfully addressed
- Increased acknowledgement of the need to involve private sector and NGOs in policy discussion and in implementation



Donor Interest

- Multi and bilateral donors increasingly interested in investing in management of mobile sources of pollution - Manila, Jakarta, Bangkok, Dhaka, Shanghai
- Establishment of CAI-Asia and Air Pollution in Megacities of Asia (APMA) demonstrates commitment of donor community to work more on management of mobile sources of pollution

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