

Developing Integrated Emission Strategies for Existing Land Transport (DIESEL)



Funding and Partnership Overview

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Overview

- Relations to CAI-Asia
- Funding
- Partners
- Next Steps for funding



What is the Clean Air Initiative?

- A network assisting cities in Asia to solve their air quality problems
- Established in 2001
- Partners: cities, private sector, national government agencies, development organizations, NGO's, academia
- Sharing of information and experiences: learn from each other!

CAI-Asia Members

CITIES

Bangkok, Thailand
Chang Mai, Thailand
Chengdu, PRC
Chittagong, Bangladesh
Chongqing, PRC
Colombo, Sri Lanka
Guangzhou, PRC
Hangzhou, PRC
Hanoi, Viet Nam
Harbin, PRC
Ho Chi Minh City, Viet Nam
Hyderabad, India
Islamabad, Pakistan
Kathmandu, Nepal
Makati, Philippines
Mumbai, India
Naga, Philippines
Phnom Penh, Cambodia
Pune, India
Surabaya, Indonesia
Tianjin, PRC
Ulaanbaatar, Mongolia
Yogyakarta, Indonesia

Agencies

Balochistan EPA, Pakistan
Central Pollution Control Board, India
Department of Environment, Bangladesh
Department of Environment and Natural Resources, Philippines
Department of Transportation and Communications, Philippines
Dhaka Transport Coordination Board, Bangladesh
Metro Manila Development Authority, Philippines
Ministry of Environment, Cambodia
Ministry of Environment, Indonesia
Ministry of Public Works and Transport, Cambodia
Ministry of Road Transport and Highways, India
Pollution Control Department, Thailand
State Environmental Protection Administration (PRC focal point)
Viet Nam Register, Viet Nam

**42 NGOs and
Academic
Institutions in the
Region**

DEVELOPMENT AGENCIES

Asian Development Bank
Australian Dept. for Environment
and Heritage
German Agency for Technical
Cooperation (GTZ)
United States Asia Environmental
Partnership
World Bank

FULL PRIVATE SECTOR Member

Ford Motor Company Shell

ASSOCIATE PRIVATE SECTOR Member

AVL Corning
ACFA DEKRA
Cerulean EMITEC
MAHA SGS
IPIECA ESP



Pilot Projects

Criteria

- address significant problems faced by several of CAI-Asia members
- promote innovative approaches to air quality management
- implementation or research
- CAI-Asia involvement of members in implementation

Examples

Health impact of air pollution in Asian Cities

Vehicle emission factors

Diesel Pollution Reduction Strategies (DIESEL)

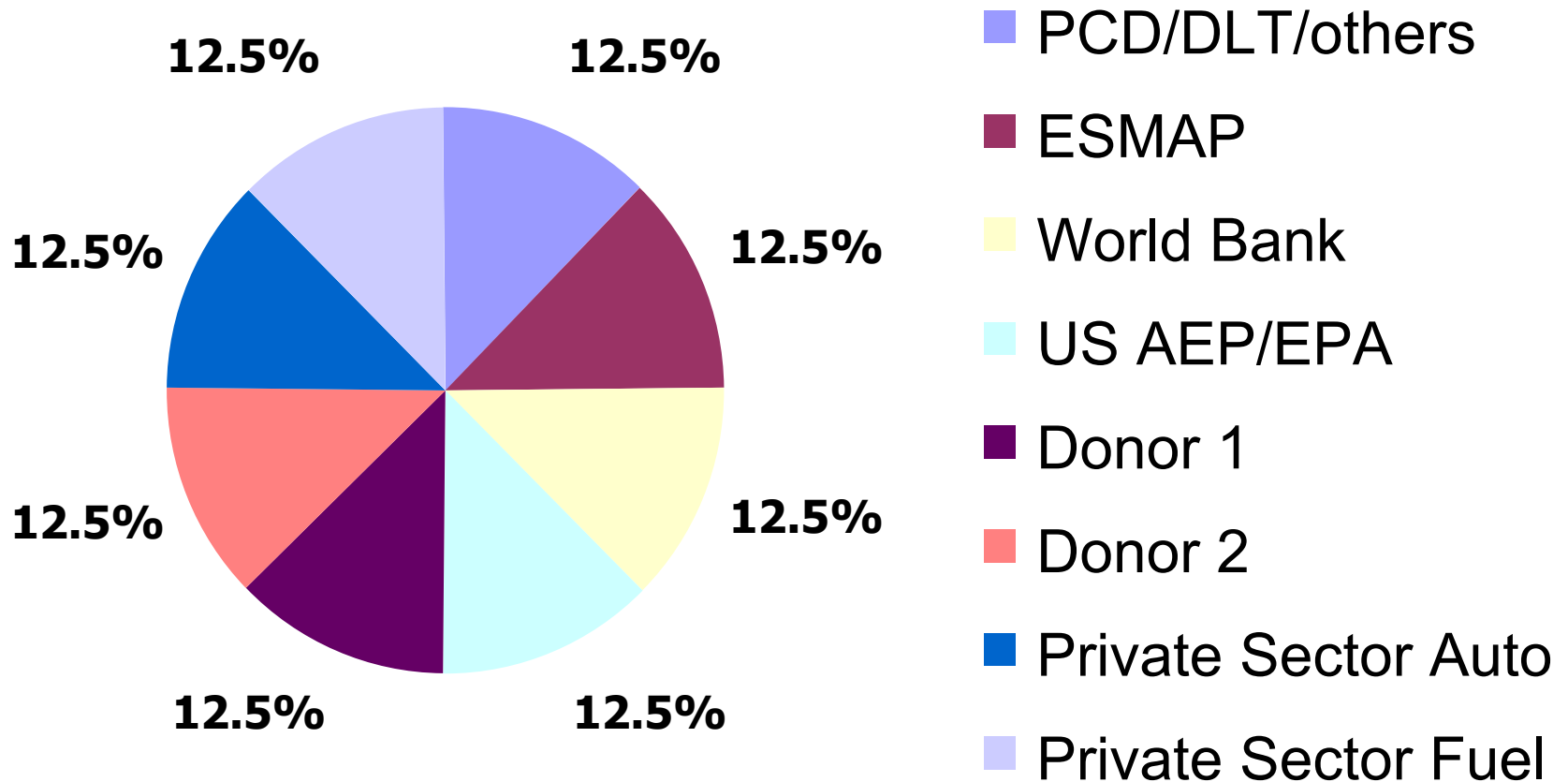
Test protocol for fuel additives

Modeling PM reduction through reduced sulfur in diesel

Air Quality Governance

DIESEL Pilot Funding Requirement

(US \$ 2 Million)





Where are we with funding?

- Local Agencies Funding (DIESEL and related programs) in place 400,000
- International agencies funding so far
 - WB 500,000 + 100,000
 - US AEP/EPA 150,000?
 - PILOT, GTZ, etc. 200,000
- Private sector contribution
 - Volvo, Lubrizol, Johnson Mathey, CATF, MITSUI, SMART, AVL, etc. +++



DIESEL Partner Organizations: Thailand

- Pollution Control Department
- Department of Land Transport
- DOEB/NEPO
- BMTA and Other Transport Companies
- PTT
- Kasetsart University, Bangkok
- Asian Institute of Technology



DIESEL Partner Organizations: International

- World Bank , ESMAP, Norwegian, Netherlands
- US-AEP/EPA
- PILOT CDM Project - Japan
- GTZ
- ESCAP - SUTP
- CAI-Asia
- Hong Kong EPD
- Asian Development Bank (ADB)
- SMART Urban Transport



DIESEL Partner Organizations: Private Sector

- ACFA
- AVL
- Clean Air task Force
- Cummins-Westport
- EMA
- E-max
- Finnkat
- Ford
- Innovative Instruments
- Johnson Mathey
- Lubrizol
- MECA MITSUI Japan
- Novo Energy
- Shell
- Smart Urban Transport, Australia
- Unical
- Volvo International
- Watana
- ++++++



Method of contributions by Private Sector and NGOs

- Cash for DIESEL program identified activities
- Parts or equipments
- Vehicles for testing and for use as replacement vehicles for a day or two
- In kind support with staff Technical experts, Technicians to assist with the Tests,
- Information, data, review of reports and advise
- Various Quality of fuels
- Other



Next Steps

- Solicit Private Sector Funding
- Obtain funding for Expanded Testing for more options
- Regionalization of the program – more funding for transferring knowledge to other cities and countries
- Harmonization with other initiatives