

# **The World Bank's Air Quality Management Activities in Asia**

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**March 1, 2002**

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## **A Priority of the World Bank Group**

**The World Bank's new Environment Strategy:  
Making Sustainable Commitments**

- ✍ identifies the impacts of air pollution on the quality of life and links them to poverty reduction, the mission of WBG**
- ✍ assigns high priority to addressing air quality management issues**

## Regional Strategy

- ✍ Regional environmental strategy for Asia indicates need for tackling air pollution: urban, indoor air pollution
- ✍ South Asia: indoor air pollution and emissions from two-stroke engines
- ✍ East and Southeast Asia: the use of cleaner fuels, the efficiency of energy use, and reduction of transport emissions

## Our Toolkit

- ✍ Analytical and advisory activities (AAA) (country-level studies, Strategic EAs, advisory services)
- ✍ Lending and TA projects
- ✍ Capacity building programs

## Key Issues

- ✍ Clean fuels in residential and industrial activities (China, Vietnam)
- ✍ Improvement in space heating (China)
- ✍ Switching to unleaded gasoline (Vietnam, Indonesia)
- ✍ Improving fuel quality (Indonesia)
- ✍ Better traffic management (Vietnam, China, the Philippines)

## Key Issues

- ✍ Cleaner vehicles and improved I/M (Thailand)
- ✍ Promoting urban planning (the Philippines)
- ✍ Motorcycle upgrade (Thailand, Bangladesh)
- ✍ Indoor air pollution projects (India, China, Mongolia)

## **Examples of Analytical Work**

- ✍ Urban Air Quality Management Strategy in Asia: Guidebook (1997)
- ✍ Environment monitor on air quality in Thailand and the Philippines
- ✍ Indonesia Motor Vehicle Air Pollution Study (under preparation)
- ✍ Lead phaseout initiative in Vietnam (FY00)

## **Examples of Analytical Work (cont.)**

- ✍ China 2020 Series: Clean Water, Blue Skies (1997)
- ✍ China: Air, Land, and Water (Sector work 2001)
- ✍ RAINS-ASIA: An Assessment Model for Acid Deposition in Asia; Sulfur emissions control policy in China (FY00)

## **Loans with AQ Components**

**Bangladesh:** Air Quality Management Project, Dhaka Urban Transport Project

**Mongolia:** Transport Development Project

**Vietnam:** Traffic Management (Hanoi, Ho Chi Minh City)

GEF and Montreal Protocol projects throughout the region

## **Loans with AQ Components (cont.)**

**China:** Beijing Environment II, Efficient Industrial Boilers (GEF) , Shandong Environment, Liaoning Environment, Urumqi Urban Transport, Guangzhou City Transport, Liaoning Urban Transport

To learn more, please visit  
[www.worldbank.org/cleanair/caiasia/projects/projects.htm](http://www.worldbank.org/cleanair/caiasia/projects/projects.htm)

## **Clean Air Initiative -- Partnership and Capacity Building Program**

- ✍ The World Bank, together with ADB and other partners, jointly launched the Clean Air Initiative for Asian Cities (CAI-Asia) in 2001.
- ✍ The World Bank is committed to CAI-Asia and other regional CAI programs.

## **Our focus in CAI-Asia**

- ✍ Information dissemination (e.g., website, open discussion list server)
- ✍ Training - DL course on AQM
- ✍ Regional workshops (e.g., indoor air pollution and health)
- ✍ Pilot studies (tbd)

## **Example of CAI-Asia Activities - The 10-module DL Course**

1. Introduction
2. Sources and Emission Inventories
3. Air Quality Monitoring and Modeling
4. Indoor Air Pollution
5. Health Impacts and Valuation
6. Policies Instruments and Institutional Framework
7. Prevention and Control of Transport Emissions
8. Prevention and Control of Industrial and Energy Emissions
9. Regional and Global Air Pollution
10. Integrated Local Air Quality Plans

## **Expected Results of DL Course**

- ✍ Better understanding of the complexity of air pollution issues and the need for an integrated approach
- ✍ Improve capacity to evaluate the origin and impacts of contamination
- ✍ Exposure to the application of technical measures and policies in cities around the world