Smarter Freight Movement through Fuel Efficiency

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Mission: to promote better air quality and livable cities by translating knowledge to policies and actions that reduce air pollution and greenhouse gas emissions from transport, energy and other sectors.

Source: Clean Air Asia 2013
Growth in Road Freight

Road freight growth highest in Asia and outpacing rail freight

2000 | 2010
---|---
+ 4.5% | + 113.5%
+ 10.5% | + 102%
+ 7% | + 600%

Source: GFAN Study  Macro economical indicators 2013
Logistics cost relative to GDP highest in developing Asia: greater risks of fuel security and prices

Source: GFAN Study  Macro economical indicators 2013
Diesel trucks large contribution to CO2 and PM emissions

Source: Clean Air Asia 2012
Breaking the Vicious Cycle in the Road Freight Sector

Old/inefficient trucks

High emissions

Low efficiency

Low profitability

Fragmented industry

Lack of supportive policies

Lack of awareness and training

Poor access to technologies and finance

Source: CAI-Asia 2012
Why save?
Tendency no. 1: High losses due to inefficiencies

In India,

trucks make up only 5% of the vehicle fleet but have a disproportionate contribution to:

- Diesel Use
- Carbon Emissions
- Road Accidents

Inefficiencies in the logistics system result in US$ 45 billion in additional costs every year!

Source: McKinsey & Company 2010
Strategies to improve fuel efficiency and reduce emissions

1. Standards and Schemes
   - Fuel and vehicle emissions standards
   - Fuel economy standards
   - Vehicles labeling schemes

2. Behavior & maintenance
   - Inspection and maintenance
   - Eco-driving

3. Technologies
   - Vehicles
   - Engines
   - Fuels

4. Fleets
   - Fleet renewal / scrappage
   - Fleet management
   - Improved logistics
   - Modal shift

Source: Clean Air Asia 2012
# Collaboration on Freight

## 1 Green freight programs
- Overarching framework for plans, policies and regulations
- Involve and supported by partnerships
- Build on existing efforts
- Harmonized through common components
- Integrate green freight efforts in broader green growth strategy

## 2 Plans, policies and regulations
- Fuel economy standards
- Fuel quality and emission standards
- Clean fleet management systems
- Freight logistics
- Shift of road freight to rail and water
- Intermodal transfer
- Freight movement in cities
- Road safety program
- HIV/AIDS programs for trucks drivers

## 3 Methodology and indicators
- Standard methodology for emissions from freight movement
- Standards data and indicators to measure progress of programs, plans, policies and regulations

## 4 Partnerships
- Private sector
- Development agencies and banks
- NGOs and research institutes
- Other initiatives and partnerships

Source: Clean Air Asia 2013
First two workshops in 2012

Discussion of expectations, challenges, focus areas

Source: Green Freight India 2013
Our vision
Identification of five focus areas

- Awareness across the supply chain
- Local expertise and skill development
- Green Technologies development and adoption
- Measurement and monitoring tools that are easy to access
- Government Policies that drive efficiency and compliance

Source: Green Freight India 2013
From vision to reality
Establishing a road carrier data collection platform

Save time with transparency
Save money with efficiency
Save emissions with reductions

Source: Green Freight India 2013
Green Freight programs worldwide

Be part of a worldwide initiative

Source: Green Freight India 2013
From Vicious Cycle to Virtuous Cycle
For more information: [www.cleanairasia.org](http://www.cleanairasia.org)

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