



Workshop on  
**Promoting Low Carbon Transport in India**

**February 10 & 11, 2010**  
**India Habitat Centre (Magnolia)**  
**New Delhi**

UNEP DTIE, Paris and UNEP Riso Centre, Roskilde

in association with

**Indian Institute of Technology, Delhi**  
**Indian Institute of Management, Ahmedabad**





# Workshop on

## Promoting Low Carbon Transport in India

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### CONTEXT

India is a major emerging economy. It holds a sixth of global population and ranks fourth in GHG emissions, though its per capita emissions are well below the world average. Transport sector accounted for 13% of direct CO<sub>2</sub> emissions in 2005, mostly contributed by the road sector. The business-as-usual trend shows the road sector increasingly gaining its share; taking away the share from rail in freight as well as passenger transport. This, despite improvements in vehicle efficiencies, is leading to lower energy service efficiency; besides adding to congestion, accidents and local air pollution. Continuation of this trend can only be expected to worsen these conditions.

India's National Action Plan on Climate Change recognizes that sizable fraction of CO<sub>2</sub> emissions from transport can be mitigated through: i) increased use of public transport, ii) enhanced supply of rail infrastructure, iii) higher penetration of biofuels, and iv) improved energy efficiency of transport vehicles. These are among the common measures of a sustainable transport systems. This beyond, sustainable transport system includes a wide set of measures that promote demand substitutions (e.g., transport with information), urban planning (to reduce trips, trip lengths, promote non motorized modes and make transport more accessible) and dedicated transport corridors which can deliver deep cuts in emissions. Sustainable transport measures also pay attention to enhance resilience of transport system to long term risks, including risks from climate variability and extreme events, so as to create a transport system which is economically efficient, socially equitable and environmentally sound.

### OBJECTIVE:

The workshop will bring together key stakeholders to:

1. Review the current state of transport policies in the context of climate change
2. Discuss components of a Sustainable Transportation system and their economic, social and environmental impacts (including CO<sub>2</sub> emissions)
3. Understand the barriers to implementing sustainable transport projects
4. Develop visions for a low carbon transport system

**PARTICIPANTS:** Government Policy Makers, Civil Society Representatives, Industry Representatives, Researchers and other Experts working in the areas of Transport, Urban Development, Sustainability and Climate Change Policies.





## WORKSHOP PROGRAMME

Day 1, 10<sup>th</sup> February 2010 Magnolia, India Habitat Centre, New Delhi

### Inaugural Session

(Chair: Prof. Dinesh Mohan, IIT Delhi)

- 09:30 - 10:00 Registration
- 10:00 – 10:20 Inaugural speech (*Vijai Sharma, Secretary, MoEF, GoI*) \*tbc
- 10:20 – 10:40 Key Note Speech (*M Ramachandran, Secretary, MoUD, GoI*) \*tbc
- 10:40 – 11:00 UNEP Activities related to Climate and Transport (*Kamala Ernest*)

### Tea /Coffee Break

#### Visions of a Low Carbon Transport

(Chair: Dr. Subodh Sharma, Senior Advisor, MoEF) \* tbc

- 11:30 – 11:50 Transport in the Low Carbon Scenarios (*Prof. P. R. Shukla, IIMA*)
- 11:50 – 12:10 Transport in Sustainable Low Carbon Cities (*Prof. Prem Pangotra, IIMA*)
- 12:10 – 12:30 Discussion & Chair summary

### Lunch Break

#### Transport Policies and Climate Change

(Chair: K.L. Thapar, AITD )

- 14:00 – 14:20 Transport, Health and Climate Change (*James Woodcock, London School of Hygiene and Tropical Medicine, UK – Live Video Presentation*)
- 14:20 – 14:40 National Urban Transport Policy and JNNURM (*S.K. Lohia, Jt Secretary, MoUD, GoI*)
- 14:40 – 15:00 Discussion & Chair summary

### Tea /Coffee Break

#### Sustainable & Integrated Transport Solutions

(Chair: Prem Pangotra, IIMA)

- 15:30 – 15:50 Urban Planning & Transport (*Prof. Geetam Tiwari, IIT Delhi*)
- 15:50 – 16:10 Transport and social sustainability (*Prof Darshini Mahadevia, CEPT, Ahmedabad*)
- 16:10 – 16:30 Integrated Transport Planning for Public Transport (*Sanjiv Sahai ,MD, DIMITs*)



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16:30 – 17:00 Discussion & Chair summary



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**Day 2, 11<sup>th</sup> February 2010 Magnolia, India Habitat Centre, New Delhi**

**Transport & Environment  
(Chair: S. Gangopadhyay, Dir., CRRI)**

- 09:30 – 09:50 Climate Change & Transport Road Map for India (Dr. *Prodipto Ghosh, TERI*)
- 09:50 – 10:10 Transport and Local Environmental (*Anumita Roychoudhry, CSE*)
- 10:10 – 10:30 CDM in Transport Projects, Indore Case Study ( *Anjan Katna, Consultant, Emergent Ventures India Pvt Ltd* )
- 10:30 – 10:50 Discussion & Chair summary

**Tea /Coffee Break**

**Barriers for Sustainable Transport  
(Chair: Dr. Prodipto Ghosh, TERI)**

- 11:20 – 11:40 Institutional Barriers: Context and background of transport planning at the city level (*Pradeep S Kharola*)
- 11:40 – 12:00 Social barriers: The Demand Perspective (Dr. *Anvita Arora*)
- 12:00 – 12:20 Technology & Financial Barriers
- 12:20 – 12:40 Discussion & Chair summary

**Lunch Break**

**Clean & Efficient Energy Solutions for Transport  
(Chair: Jorge Rogat, UNEP Risoe Centre)**

- 14:00 – 14:20 Transport fuel economy (Dr. *Sandeep Garg, BEE*)
- 14:20 – 14:40 Transport and Alternative fuels (Prof. *S. Chella Rajan, IIT Chennai*)
- 14:40 – 15:00 Transport and Electricity (*R. Chandramouli, Reva*)
- 15:00 – 15:20 Discussion & Chair summary

**Tea /Coffee Break**

**Concluding Session  
(Moderator : Geetam Tiwari, IIT-D)**

- 15:40 – 16:40 Panel Discussion:  
Summary of the workshop to open the Panel Debate (*Subash Dhar, UNEP Risoe Centre*)  
Sustainable Development Policies and Measures for Achieving Low Carbon Transport (Lead Panelists: *Anumita Roy (CSE), Dilip Chennoi(SIAM), Dinesh Mohan (IITD), Dunnu Roy*)





## High Tea



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