

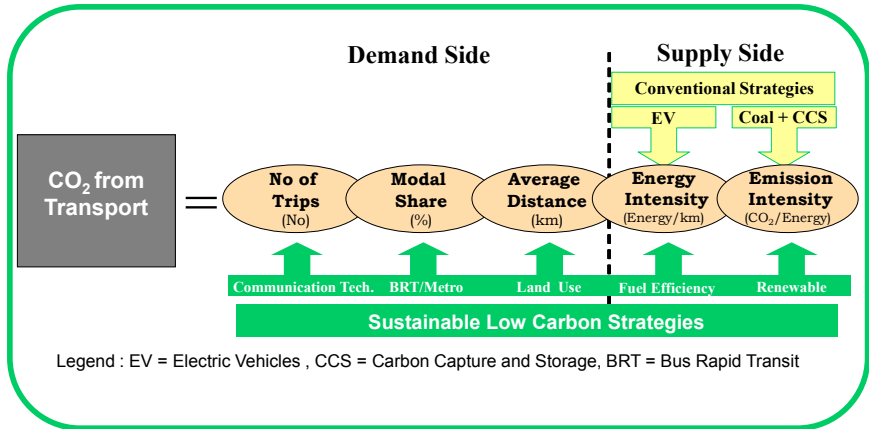
# Promoting Low Carbon Transport in India



**UNEP  
RISØ  
CENTRE**  
ENERGY, CLIMATE  
AND SUSTAINABLE  
DEVELOPMENT

## Sustainable Low Carbon Transport in India – The Context

India's transport sector is responsible for 14 per cent of the country's energy-related CO<sub>2</sub> emissions—and the accompanying impacts on air quality, public health, road safety, and sustainable urban development. In recent years, increased vehicle use has led to an augmentation in congestion, accidents, and local air pollution. If this trend continues, all of these problems will get worse.



*Strategies For Reducing Emissions From Transport*

By aligning development and climate goals, India can make its transport growth more sustainable. India's National Action Plan on Climate Change (NAPCC) outlines a combination of measures that can reduce transport CO<sub>2</sub> emissions, including increased public transit, more biofuel use, enhanced vehicle energy efficiency, and other initiatives.

Building on the Indian government's ongoing efforts to create a low carbon transport system, the project's twin goals are to:

- create an enabling policy environment at the national level for building a sustainable transport system, and
- increase the cities' capacity to improve mobility while lowering CO<sub>2</sub> emissions.

These goals will be attained through two key interventions: developing a national action plan for low carbon transport, and designing low carbon mobility plans (LCMP) for up to four major cities in India.

The cities component is being carried out in close coordination with the Ministry of Urban Development, while the national action plan component will be conducted in coordination with the Ministry of Environment and Forests, and other relevant Indian ministries.

The programme is being implemented by UNEP's Transport Unit and UNEP Risø Centre, in cooperation with key local partners, including the Indian Institute of Management, Ahmedabad, the Indian Institute of Technology, Delhi, and the CEPT University.

## Activities

### Methodology Development for:

- Low carbon mobility indicators,
- Developing a national low carbon transport road map, and
- Creating low carbon mobility plans for cities.

Methodologies and outputs will be developed in consultation with stakeholders.

### Capacity Building:



*Expert consultation for development of Sustainability Indicators, Ahmedabad, 29 August 2011*

- Enhancing institutional capacity and skills of partner institutions with the aim of preparing a national road map for the transport sector, and
- For city managers and consultants: familiarising them with the new methodology so they can implement low carbon mobility options in their cities.

## Knowledge Development and Information Sharing:

- Identifying and measuring indicators, and
- Documenting and disseminating news about transport infrastructures and ongoing interventions.

## Targeted Actions:

- Policy briefs for national policy makers, and
- Developing proposals for funding infrastructures and transport related interventions in participating cities.

## Outcomes

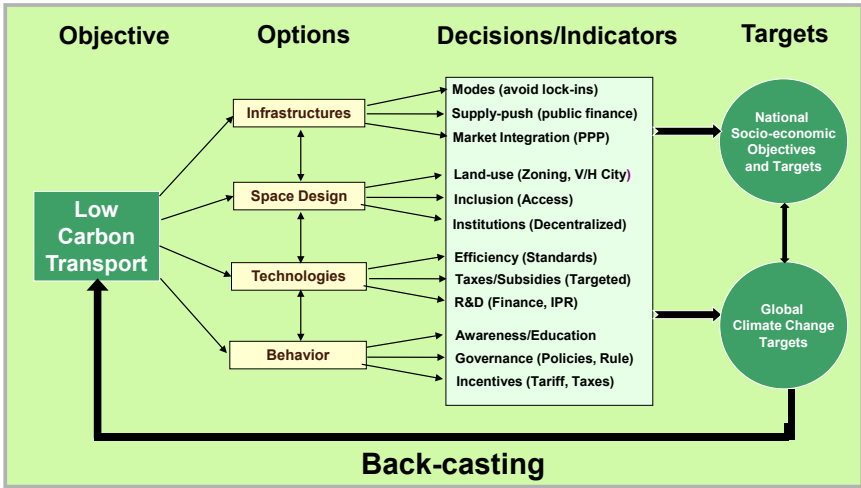
### 1. Transport Action Plan at the National Level, including:

<b>Economic</b>	Carbon Intensity of Transport	Energy Security	Transport Infrastructure Investment	Total Cost of Transport
<b>Social</b>	Access to Transport	Transport Subsidies	Food Security	
<b>Environmental</b>	Air Pollution	Water: Pollution & Stress	Safety	
<b>Technical</b>	Vehicle (fleet) Energy & Emissions Efficiency	Carbon Content of Electricity	Transport Demand Substitution	Operational Efficiency of Transport Infrastructure
<b>Meta</b>	Sustainable Urban Form and Structure	National Logistics Grid	Investment in Transport Sector Innovations	

*Macro Indicators of Low Carbon Transport*

- Macro Indicators for Low Carbon Transport covering economic, social, environmental, technical and strategic domains.
- Long term (up to 2050) integrated assessment of low carbon transport transitions (e.g., for infrastructure, vehicle & fuel technologies, etc.).
- Case studies of Dedicated Rail Freight Corridor and a large infrastructure project.
- Road Map for ‘Sustainable Low Carbon Transport System’ in India, including technology needs, research and development, technology transfer, finance, and pathways for international cooperation.

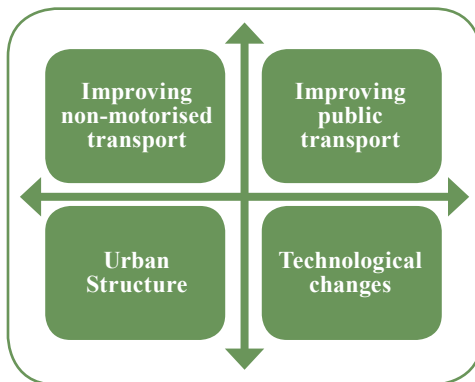
- Policy recommendations for creating a sustainable transport system.



*Sustainable Low Carbon Mobility Framework*

## 2. Low Carbon Mobility Plans for up to Four Cities, including:

- City level indicators for promoting low carbon transport.
- Case studies of key transport technologies and practices on a city level.
- Methodology for developing low carbon mobility plans at city level.



*Types of Scenarios for Low Carbon Transport Strategies at City Level*

- Mobility plans for cities which include a mix of infrastructures, technologies, and practices for mitigating CO<sub>2</sub> emissions and adapting to climate change impacts.
- Project proposals for funding.

### 3. Information Sharing and Dissemination:

- The project is creating an online network for information sharing and coordination to facilitate stakeholder cooperation and encourage public engagement. The project aims to serve as a model for sustainable transport projects in other developing countries.

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**The Future of Low Carbon Transport in India**

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**Low Carbon Transport in India**

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**News & Events**

**Survey: Indicators for Sustainable Transport System in India.**

**Key Project Interventions**

- Key Project Intervention 1
- Key Project Intervention 2

**Highlights**

**Low Carbon Transport in India - Newsletter**

**The Future of Low Carbon Transport in India**

India is currently the fourth largest greenhouse gas (GHG) emitter in the world, with its transport sector being the second largest contributor of CO<sub>2</sub> emissions. The sector also provokes road congestion, local air pollution, noise and accidents, particularly in urban areas.

Opportunities exist to make India's transport growth more sustainable by creating an enabling environment for building transport systems which will help in reducing climate risks through mitigation within the transport sector, and by building adaptation capacity.

The project will contribute to the efforts of the Indian Government in realizing a low-carbon transport system, through its National Action Plan on Climate Change (NAPCC) that recognizes the need to reduce transport emissions through adoption of a sustainability approach.

[Read More >>](#)

### Project Steering Committee

- Ministry of Urban Development, India (MoUD)
- Asian Development Bank (ADB)
- Self Employed Women's Association (SEWA)
- Gesellschaft für Internationale Zusammenarbeit (GIZ)
- National Institute of Urban Affairs
- United Nations Environment Programme (UNEP)

## Milestones Completed

- Finalised cities for preparing LCMP
- Finalised indicators for Low Carbon Transport in Indian Cities



*National workshop on indicators for cities and LCMP*

- Finalised macro indicators for low carbon transport in India
- Project Inception Workshop



*The project was launched by the former Minister of Environment and Forests, India, Shri Jairam Ramesh on 12 November 2010*



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## Implementing Partners in India



Supported by:



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