

Promoting Low Carbon Transport in India

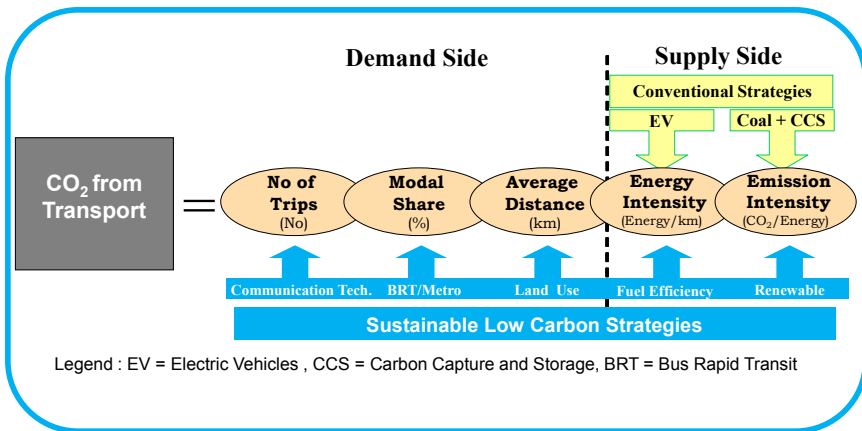


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ENERGY, CLIMATE
AND SUSTAINABLE
DEVELOPMENT

Sustainable Low Carbon Transport in India – The Context

India's transport sector is responsible for 14 per cent of the country's energy-related CO₂ emissions in 2010—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 CO₂ 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 CO₂ emissions.

These goals will be attained through two key interventions: developing a national action plan for low carbon transport, and designing Low-carbon Comprehensive Mobility Plans (LCMPs) 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 Comprehensive Mobility Plans (LCMPs) 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.

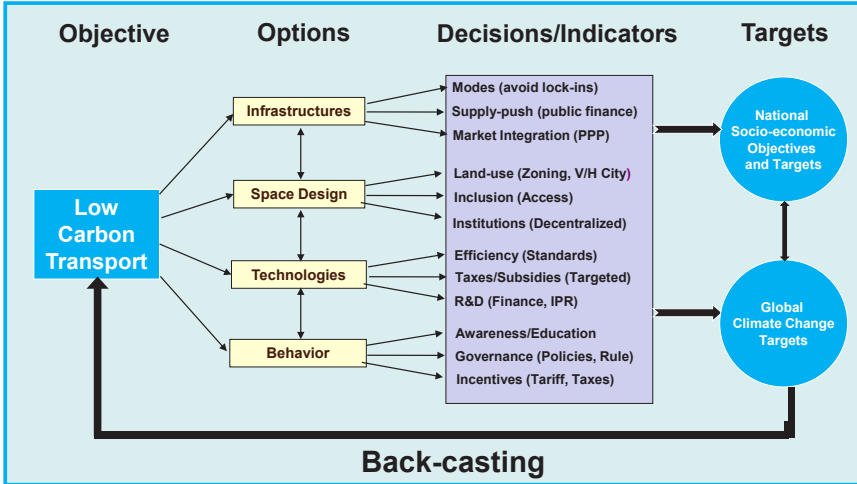
Outcomes

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

ECONOMIC	Carbon Intensity of Transport	Energy Security	Transport Infrastructure Investment	Total Cost of Transport
SOCIAL	Access to Transport	Transport Subsidies	Food Security	
ENVIRONMENTAL	Air Pollution	Water: Pollution & Stress	Safety	
TECHNICAL	Vehicle (fleet) Energy & Emissions Efficiency	Carbon Content of Electricity	Transport Demand Substitution	Operational Efficiency of Transport Infrastructure
META	Sustainable Urban Form and Structure	National Logistics Grid	Investment in Transport Sector Innovations	

Macro Indicators of Low Carbon Transport

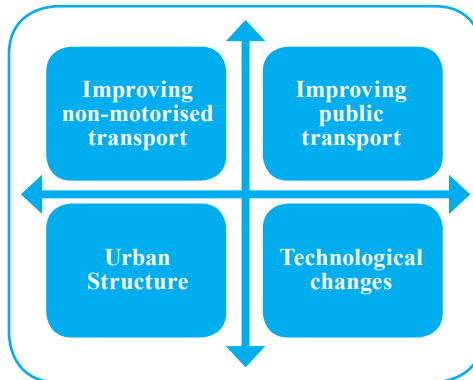
- Macro Indicators for Low Carbon Transport covering economic, social, environmental, technical and strategic domains.
- Long term (up to 2050) integrated assessment of low carbon transport transitions (e.g.,for infrastructure, vehicle & fuel technologies, etc.).
- Case studies of Dedicated Rail Freight Corridor and a large infrastructure project.
- Road Map for a '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 at 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 CO₂ emissions and adapting to climate change impacts.
- Project proposals for funding.

3. Information Sharing and Dissemination:

- The project has created 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.

The screenshot shows the UNEP website for the project 'The Future of Low Carbon Transport in India'. The header includes the UNEP logo and navigation links for About, Calendar, Multimedia, News, Outreach, and Publications. A search bar and language options (Chinese, Spanish, French) are also present. The main navigation menu includes Home, About the Project, Partners, Cities, News & Events, Publications, Newsletter, and Contact us. The main content area features a large title 'The Future of Low Carbon Transport in India' with a graphic of a green archway containing icons for a sun, trees, a building, a bicycle, and a bus. Below the title, there are three news items: 'Developing Policies and Strategies for Low Carbon Transport in India, 24 August 2012, New Delhi, India', 'India to launch \$40bn JnNURM II, July 2012, The Indian Express', and 'Three-Day Training Session on Developing Low Carbon Comprehensive Mobility Plans in New Delhi October, India habitat centre, New Delhi, India'. A large image of a modern brick building is also shown. On the right, there are sections for 'In Focus' (Newsletter, Issue 2 March 2012) and 'Key Project Interventions' (Create an enabling environment for coordinating policies at national level to achieve a sustainable transport system).

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

- Presented results of integrated assessment to stakeholders
- Finalised MoUs with Vishakapatnam, Rajkot and Udaipur for preparing LCMPs and appointed consultants
- Finalised indicators for Low Carbon Transport in Indian Cities



National workshop on developing policies and strategies for low carbon transport in India

- 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



FOR MORE INFORMATION, CONTACT:

United Nations Environment Programme (UNEP)
Division of Technology, Industry and Economics (DTIE)
Transport Unit
P.O Box 30552
Nairobi, Kenya
Tel : +254 20 762 4184
Email : lowcarbon@unep.org
www.unep.org/transport/lowcarbon

Implementing Partners in India



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