Promoting Low Carbon Transport in India
India’s transport sector is responsible for 14 per cent of the country’s energy-related CO$_2$ emissions—and the accompanying impacts on air quality, public health, road safety, and sustainable urban development. In recent years, increased vehicle use has lead to an augmentation in congestion, accidents, and local air pollution. If this trend continues, all of these problems will get worse.

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$_2$ 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$_2$ 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:**

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:

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<th>Social</th>
<th>Environmental</th>
<th>Technical</th>
<th>Meta</th>
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<tr>
<td>Carbon Intensity of Transport</td>
<td>Access to Transport</td>
<td>Air Pollution</td>
<td>Vehicle (fleet) Energy &amp; Emissions Efficiency</td>
<td>Sustainable Urban Form and Structure</td>
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<td>Energy Security</td>
<td>Transport Subsidies</td>
<td>Water: Pollution &amp; Stress</td>
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<td>Transport Infrastructure Investment</td>
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<td>Total Cost of Transport</td>
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*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.

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.

- Mobility plans for cities which include a mix of infrastructures, technologies, and practices for mitigating CO$_2$ 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.

**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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