Overview of Low-Carbon Comprehensive Mobility Plan approach

Promoting Low Carbon Transport in India

Capacity Building Workshop for Low-Carbon Comprehensive Mobility Plans for Indian Cities

11 – 13 April 2012
India Habitat Centre, Delhi

In partnership with:

Supported by:
Federal Ministry for the Environment, Nature Conservation and Nuclear Safety

based on a decision of the Parliament of the Federal Republic of Germany
Project Objectives

- Delineating an enabling environment for coordinating policies at national level to achieve a sustainable transport system

- Enhancing capacity of cities to improve mobility with lower CO$_2$ emissions.
Key Interventions

National Level
- Macro Indicators of Low Carbon Transport
- Fuel Efficiency Policy Study
- Case Study of mega infrastructure / dedicated Rail Freight Corridor
- Integrated Assessment of the Transport Sector up to 2050
- Adaptation Framework for Climate Proofing
- Transport Action Plan

City Level
- Case Studies of Urban Transport Technologies - Metro, BRT, NMT
- Sustainability Indicators for Urban Transport Planning
- Methodology for Development of Low Carbon Comprehensive Mobility Plans
- Toolkit on Low Carbon Comprehensive Mobility Plans
- Development of Project Proposals - technology and financial packages for implementation of action plans

Networking and Information Sharing (Workshops, website, publications, case studies)

Completed activity
ongoing activity
Target activity for 2012 /13
Comparison between aims

**CMP**
- Projects to meet present and future mobility demand and achieve desirable development goal

**LCMP**
- Strategies to reduce emissions from transport without compromising the accessibility and mobility needs of people
Comparison between Objectives

CMP
• Understand present day traffic characteristics and forecast travel demand
• Lay vision and goals for desirable urban development of city
• Illustrate a basic plan for urban development and transport infrastructure to achieve the set goals

In addition to the objectives of CMP, LCMP-

– Analyze impacts of existing travel pattern and land use on environment and society
– Analyze impact for alternate scenarios
– Lay plan to meet desirable mobility having minimum impact on environment and improving social sustainability
Institutional Structure: City Level

LCMP Committee
- Other Railways
- Transport
- PWD
- Experts & academia
- Business
- Civil Society

Municipal Corporation

Consultants

UNEP / UNEP Risø Centre

IIT, Delhi
IIM, Ahmedabad
CEPT, University

Analytical Inputs

Team Facilitators

Resources

Close cooperation

Outputs
Methodology framework for LCMP

**Existing status**
- Review existing city profile
- Transport demand survey
- Existing land use pattern
- Existing travel pattern
- Impact on environment (*)
- Impact on society (*)

**Transport scenarios**
- Develop alternate scenarios
- Land use scenarios
- Estimate travel demand
- Modal /Technological choices
  - Impact on environment (*)
  - Impact on society (*)

**Scenario analysis**
- Back Casting for Climate Target

**Stakeholder / Expert Consultation**
- Infrastructure / Technology Prioritization
  - Policy / Project Prioritization

**LCMP**
- Policy Roadmap
- Project Ideas
  - Detailed projects and interventions
  - Investment and implementation program
# Tasks

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<th>Task</th>
<th>Description</th>
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<tbody>
<tr>
<td><strong>Task 0</strong></td>
<td>Delineation of planning area and planning horizon</td>
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<td><strong>Task 1</strong></td>
<td>Analyse existing situation</td>
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| **Task 2** | Modeling Business as Usual Scenario  
Using Urban Planning & Energy Emissions Models |
| **Task 3** | Analyse alternative scenarios (4 strategies)  
Using Urban Planning & Energy Emissions Models |
| **Task 4** | Evaluate BAU & Alternative Scenarios using Indicators  
Macro consistency with per capita national CO2 emissions |
| **Task 5** | Prepare implementation plan (Low-Carbon Comprehensive Mobility Plan) |
Four Strategies for low carbon mobility

- Improving Non-motorized transport
- Improving public transport
- Urban structure
- Technological changes
# Work Plan for LCMP

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<th>Tasks</th>
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## Milestones

1. Inception report and detailed work plan
2. Draft Report for Task 1 including survey data and results
3. Draft Report for Task 2, 3 & 4
4. LCMP Report
Cities

- 4 Cities envisaged in the project
  - Rajkot
    - MoU Signed
  - Vishakapatnam
    - MoU Signed
  - Ludhiana
    - MoU to be finalised
  - One more city in NCR
    - Subject to funding from ADB
LCMP Toolkit

• Based on
  – the methodology used for LCMP in 4 cities
  – approaches used by the 4 consultants
• In year 2013
• To be handed over to MoUD for use by other cities
• To be taken up by UNEP as a methodology for Low Carbon Planning at City level in other cities within developing countries
Thank You

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Project Website :
www.unep.org/transport/lowcarbon