Low-carbon Comprehensive Mobility Plan approach

Roundtable on
Low-carbon Comprehensive Mobility Plans: Sustainable Mobility with Lower Emissions
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Manekshaw Centre, Delhi

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Promoting Low Carbon Transport in India

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Contents

1. About Project
2. Cities
3. LCMP Approach
4. Issues for Roundtable
Key Interventions

National Level

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

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

Transport Action Plan

- 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
Cities Participating in LCMP

**Rajkot**
- MoU with Rajkot Municipal Corporation
- Consultant – CEPT, Ahmedabad
- Population – 1.4 million (2011)
- Area – 105 Sq.Km

**Visakhapatnam**
- MoU with GVMC
- Consultant – iTrans, Delhi
- Population – 1.7 million (2011)
- Area – 544 sq.km.

**Udaipur**
- MoU with Urban Improvement Trust
- Consultant – UMTC, Delhi
- Population – 0.6 million (2011)
- Area – 544 sq.km.
Methodology framework for LCMP

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

Transport scenarios
- Develop alternate scenarios
  - Land use scenarios
    - Modal /Technological choices
      - Impact on environment (*)
      - Impact on society (*)
    - Back Casting for Climate Target

Scenario analysis

Stakeholder / Expert Consultation
- Infrastructure / Technology Prioritization
  - Policy / Project Prioritization
    - Policy Roadmap
      - Detailed projects and interventions
    - Project Ideas
      - Investment and implementation program

Policy Roadmap

Project Ideas

Detailed projects and interventions

Investment and implementation program
Four Strategies for low carbon mobility

- Improving Non-motorized transport
- Improving public transport
- Urban structure
- Technological changes
Levers for Emission Reduction

Emissions Reduction in Sustainable Low Carbon Scenario

- Sustainable mobility (1)
- Sustainable logistics (2)
- Fuel Economy (3)
- Bio fuels (4)
- EVs & Electricity Cleaning (5)

Residual Emissions
Issue No. 1 for discussion

• Sustainable mobility with lower emissions requires changes in public transport, urban form, technology for vehicles, electricity, etc. to bring an overall improvement in indicators for safety, affordability and environmental quality.

  – How to move from a project centric to a holistic approach?

  – What would be the appropriate institutional mechanism for monitoring indicators on safety, inclusiveness, environment and climate?
Issue No. 2 for discussion

• A low carbon scenario relies on changes to urban form therefore

  – What institutional mechanisms are required for integrating land use plan and transport plans?
Issue No. 3 for discussion

- LCMP relies on good quality secondary data.

- How to set up city level data repository, integrate and improve availability of data at city level?
- What are strategies for consultants to address variations in data quality at city level?
Thank You

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