DECARBONISING PATHWAYS FOR ULAANBAATAR’S URBAN MOBILITY

Dissemination event
22 March 2023
OVERVIEW OF SIPA ULAANBAATAR PROJECT POLICY RECOMMENDATIONS

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What is the Sustainable Infrastructure Programme in Asia (SIPA)?

- A four-year program supporting the development of cleaner infrastructure in Central and Southeast Asia
- Led by the OECD and funded by the International Climate Initiative (IKI) of Germany’s Ministry for the Environment
- Transport related studies are led by the ITF. It aims to provide transport policy guidance with a focus on decarbonising and enhanced connectivity by:
  - Producing an assessment of transport infrastructure at both the regional level and national level
  - Providing policy makers with simulation tools to assess the impact of policy options and identify effective decarbonising measures
Mongolia National Study

What is the national roadmap study for Mongolia?

The national roadmap study for Mongolia developed **decarbonising pathways** for **urban passenger transport** in the capital city, Ulaanbaatar. It focused on the role of public transport and its development. It comprises three parts:

1. **Understanding the urban transport context in Ulaanbaatar**: data collection, analysis of policy priorities
2. **Quantitative assessment of decarbonising pathways for Ulaanbaatar**: tailoring of the ITF modelling tool to forecast carbon emissions under 3 different scenarios (Baseline, Current Policy, Climate Ambition)
3. **Dissemination of best practices for low-carbon transport systems**

Timeline of the project/study

- **Pre-kickoff (virtual)**
- **Kickoff and mission in Ulaanbaatar**
- **Scenario workshop (virtual)**
- **Final dissemination event**
POLICY DIRECTIONS FOR ULAANBAATAR

Developing the public transport Service

Building on new technologies & active mobility

Planning mobility

CO₂
**Policy scenarios for CO2 reduction**

The ITF designed three distinct scenarios to assess the CO2 reduction potential of different policy pathways. The scenarios explore alternative futures, their impacts on the transport system and their externalities.

1. **Baseline scenario**: no measures are implemented for sustainable mobility
2. **Current Policy scenario**: expected and planned measures are implemented
3. **Climate Ambition scenario**: planned measures are enhanced and new measures are added

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**Data collection** in cooperation with stakeholders in Mongolia

**Adjustment** of the existing ITF urban transport model to accommodate city-specific data

**Scenario definition** with partners in Mongolia: analysis of existing, planned and potential measures

**Model handover** to the Ministry of Transport for supporting local policy building
Decarbonising Pathways for Ulaanbaatar

Trajectories of CO₂ emissions until 2050 by scenario

(thousand tonnes CO₂)

Main intakes

- **Baseline scenario**, population and income growth and shift towards private vehicles result in a sharp increase in CO₂ emissions.

- **Current Policy scenario**, policy actions in the plan manage to stop the emission growth, however, not sufficient to achieve Ulaanabatar’s climate goals.

- **Climate Ambition scenario**, strong policy measures allow for cutting CO₂ emissions further and achieving decarbonising goals

Evolution of transport-related CO2 emissions from 2015 to 2050

<table>
<thead>
<tr>
<th>Year</th>
<th>Baseline</th>
<th>Current Policy</th>
<th>Climate Ambition</th>
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<tbody>
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<td>2015</td>
<td>100</td>
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**Factor Changes**

- x 4
- +50%
- -40%
INTERNATIONAL TRANSPORT FORUM

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