STATE OF PLAY - LOW CARBON TRANSPORT

Regional Cooperation Mechanism on Low Carbon Transport: Establishment and Implementation of Low Carbon Transport Targets and Timelines in Asia and the Pacific

July 17th 2024
HAVE WE MADE ANY PROGRESS ON TRANSPORT SECTOR DECARBONIZATION?

The scenarios before the implementation of the Paris Agreement projected a trajectory that could see transport CO2 emissions increase to about 7 Gt by 2050 in Asia.

Recent reference scenarios suggest emissions will be just above 3 Gt by 2050.

However, current decarbonization policies are insufficient from the perspective of the Paris Agreement, i.e., an estimated average of 0.3 Gt by 2050.

Source: Asian Transport Outlook
DOMINANCE OF ROAD TRANSPORT IN TERMS OF GHG

Transport GHG Emissions

Emissions Index (1970 = 100)

Source: Asian Transport Outlook

1970 = 100
INVESTMENT SHIFT TOWARDS LOW-CARBON

Transport infrastructure investments (construction + maintenance)

- 2000-2010:
  - Road, 65%
  - Heavy rail, 23%
  - Metro, 6%
  - HSR, 5%

- 2011-2021:
  - Road, 59%
  - Heavy rail, 17%
  - Metro, 9%
  - HSR, 14%

Official development assistance in the transport sector

- 2000-2010:
  - Road, 55%
  - Rail, 28%
  - Ports, 6%

- 2011-2021:
  - Road, 64%
  - Rail, 44%
  - Ports, 7%

Public-private partnership investments in the transport sector

- 2000-2010:
  - Road, 55%
  - Rail, 11%
  - Airports, 10%

- 2011-2023:
  - Road, 64%
  - Rail, 22%
  - Airports, 9%
Asia is a key battleground for e-mobility. Between 2015 and 2023, 60% of the additional e-cars, and 90% of the additional e-buses were in Asia.

Source: Based on data from WTO

Source: Based on data from IEA

Source: Asian Transport Outlook
LIMITED INTEGRATION OF ASIA'S TRANSPORT SECTOR IN PARIS AGREEMENT & SDG REPORTING

Cumulative distribution of Climate Change Mitigation related measures

Cumulative distribution of SDG relevant policy measures

Source: Asian Transport Outlook
Policy landscape is rapidly evolving fast towards adopting more relevant targets and measures.
TRANSPORT ACCESS REMAINS LIMITED

Transport access gap

- **Asia-Pacific**: 1.8 billion population
- **Sub-Saharan Africa**: 0.6 billion population
- **Latin America and the Caribbean**: 0.33 billion population
- **Northern Africa and Western Asia**: 0.25 billion population
- **Europe and Northern America**: 0.08 billion population

Population without access

- **Transport-related access**:
  - Rural population without access to all-season roads, 2022
  - Urban population without convenient access to public transport, 2022

- **Other access**:
  - to clean cooking, 2021
  - to electricity, 2021

Source: Asian Transport Outlook

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