Major Issues in Transport:

3 (b) Environmentally sustainable transport systems and services
(ESCAP/CTR/2022/4)

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Transport Division
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Growing Transport Demand

**Passenger transport demand**
(billion passenger-kilometres)

**Freight transport demand**
(billion tonne-kilometres)

Source: ITF Transport Outlook 2021
Growing Emissions

41% growth of Transport Emissions in Asia, 2010-2019

- Major GHG emitters in Asia
- Transport sector - 25% emissions
- Road transport > 75% emissions
- Passenger- 59% and freight- 41% of global transport CO2 emissions
## Transport Strategies in Asian NDCs

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<td>Fuel economy/energy efficiency standards</td>
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<td>Fuel subsidy removal</td>
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<tr>
<td>Fire &amp; emergency measures</td>
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- 98% of NDCs mention transport
- 82% of NDCs include transport measures
- 18% of NDCs set CO2 reduction targets
Freight Emission Scenario

- Share of **renewable transport** accounts for only **2 per cent** of all the energy consumed in the transport sector in Asia and the Pacific.
- In the majority of the ESCAP members, the **final energy consumption share of road transport** was over **70 per cent**.
- **60 per cent** of urban passenger **carbon dioxide emissions** in Asia were emitted by **private vehicles**.
- IEA estimates that the global private passenger vehicle fleet will grow by more than 30 per cent between 2020 and 2030.

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*Sources: ITF, ITF North and Central Asia Transport Outlook; ITF Southeast Asia Transport Outlook; and ITF South and Southwest Asia Transport Outlook (Paris, 2022).*
Integrated Transport and Energy Modelling

6 scenario analyzed
- A reduction of transport demand (Avoid)
- Mass-transit development (Shift)
- Car sharing (Shift)
- Energy efficient improvement (Improve)
- Electric mobility (Improve)
- Carbon pricing (Improve)

CO2 reduction by 2050
- Electric mobility (Improve) -72%
- Energy efficiency (Improve) -66%
- Car sharing (Shift) -20%
- Demand reduction (avoid) -10%

Electric mobility & energy efficiency improvement
- Technology dependent
- Investment needs
- Technical capacity of countries
The Way Forward

Asia-Pacific initiative on electric mobility
• Call for switch to electric vehicles, reduce GHG emissions at COP26/27
• Potential to accelerate transition to electric mobility in public transport-share of renewable energy in grid
• Advocate exchange of experience and peer learning
• Stakeholders’ consultation and policy support to selected countries

Regional cooperation mechanism on low-carbon transport
• Refine transport specific targets in NDCs
• Identification of national and regional low and zero carbon goals and actions
• Strengthening linkage between regional and global dialogues

Voluntary participation
Supported at a regional meeting
Bhutan, Cambodia, Fiji, Indonesia, Nauru, Nepal, Philippines, Sri Lanka, Thailand, Tuvalu, Viet Nam
Issues for Consideration

The Committee may wish to:

(a) support the establishment of a regional cooperation mechanism on low carbon transport as a way to contribute to reducing GHG emissions
(b) support the Asia-Pacific initiative on electric mobility as a way to accelerate the transition to electric mobility in public transport
(c) share updates and selected highlights with regard to national, subregional and multilateral policies and initiative related to environmentally sustainable transport systems and services