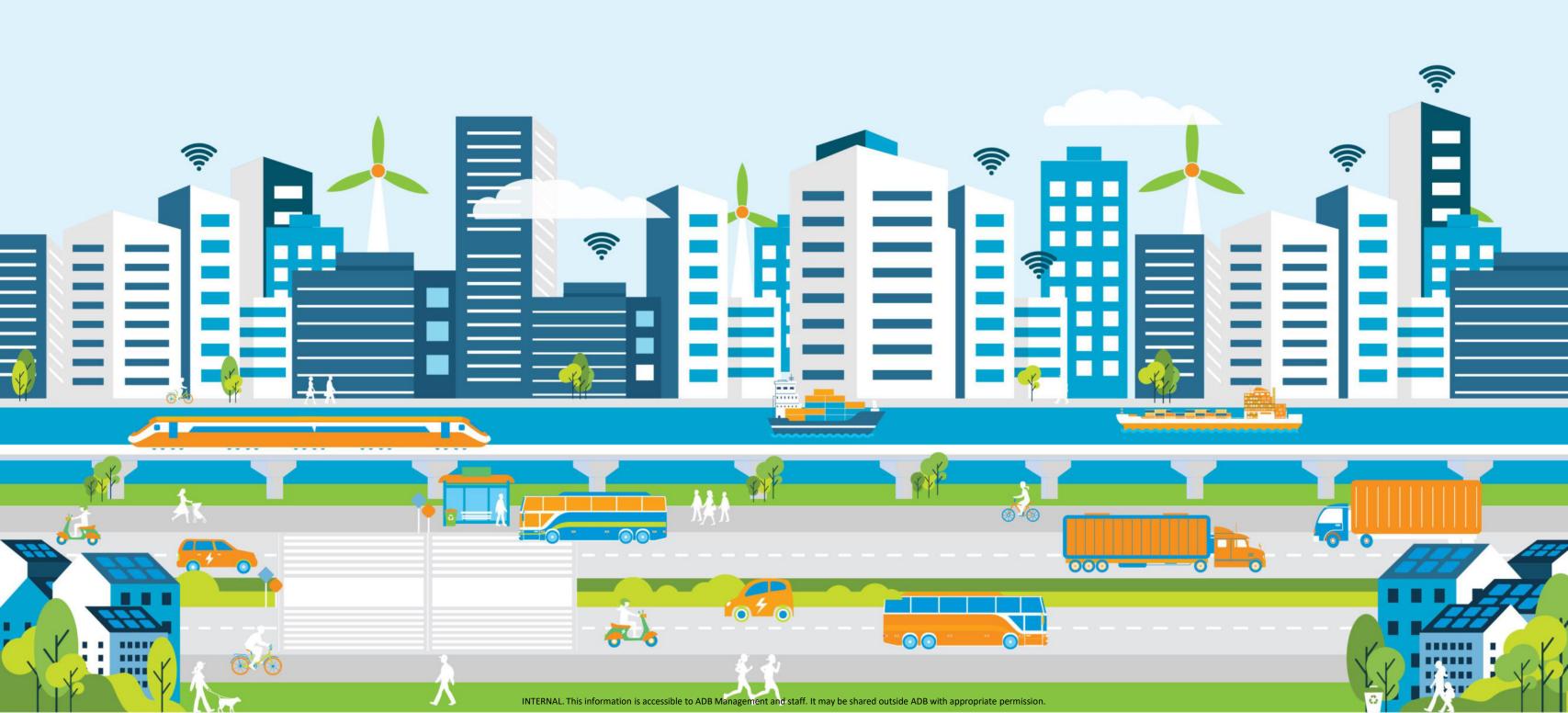
ASIA AND THE PACIFIC TRANSPORT FORUM 2024 CLEAN TRANSPORT FOR ALL



14-17 May 2024 | ADB Headquarters, Manila, Philippines



ASIA AND THE PACIFIC TRANSPORT FORUM 2024 CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines



Climate Ambitions, Net Zero Pathways, and the Role of Trade and Trade Policies

Cyn-Young Park

Director, RCI and Trade Division Climate Change and Sustainable Development Department



ASIA AND THE PACIFIC TRANSPORT FORUM 2024 CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines

Hello!

I am Cyn-Young Park

You can find me at cypark@adb.org



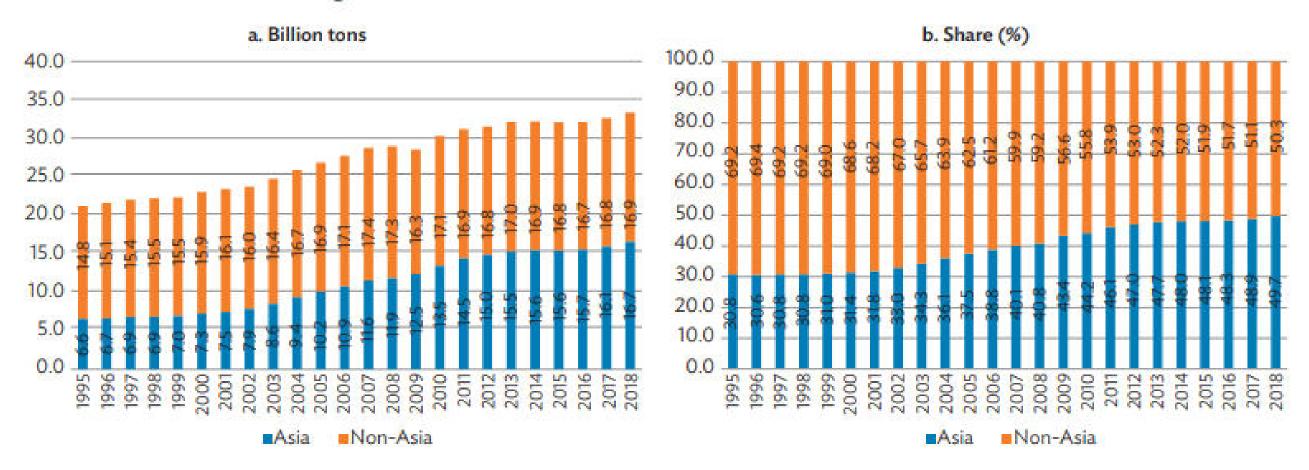
CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines

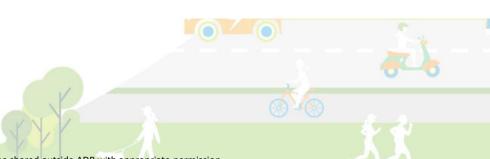


Current Scenario

Figure 1: Asia's Production-Based Carbon Dioxide Emissions



Source: OECD TeCO2 database.



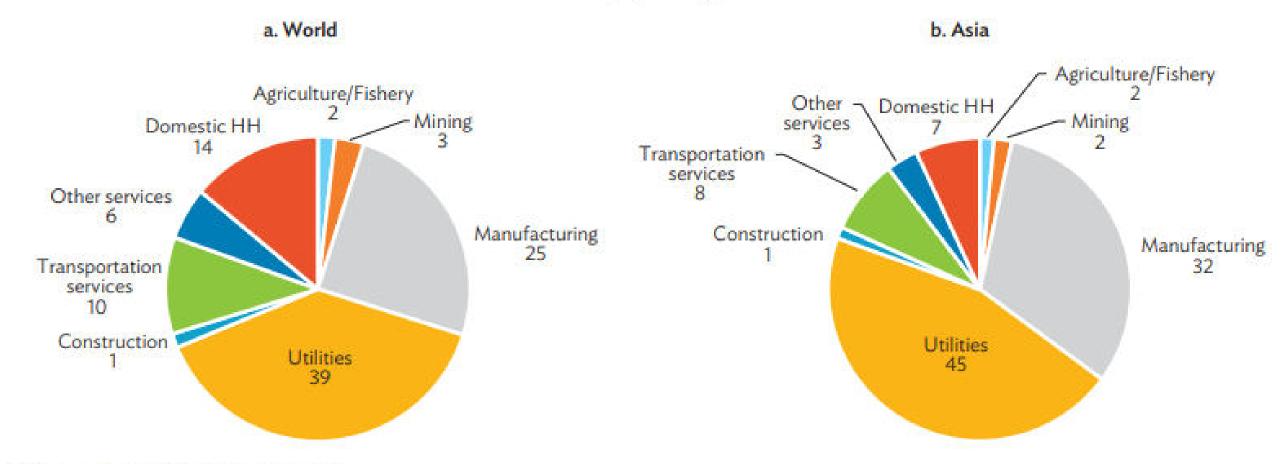
CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines



Current Scenario

Figure 2: Production-Based Carbon Dioxide Emissions by Industry, 2018 (%, share)



CO, = carbon dioxide, HH = household.

Source: OECD TeCO, database.







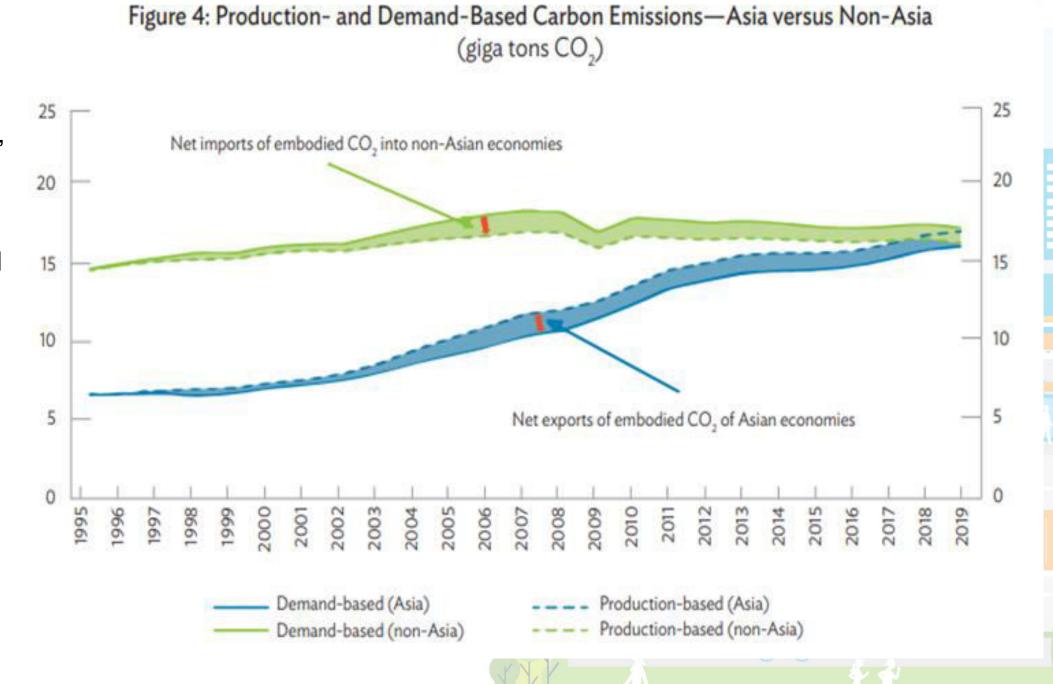
CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines



Asia is a net exporter of carbon emissions

ADB (2023a) finds that since 2011 the ratio of carbon emissions per production unit, called carbon intensity, is decreasing, likely through technology enhancement, environmental regulation, and deepening environmental consciousness.



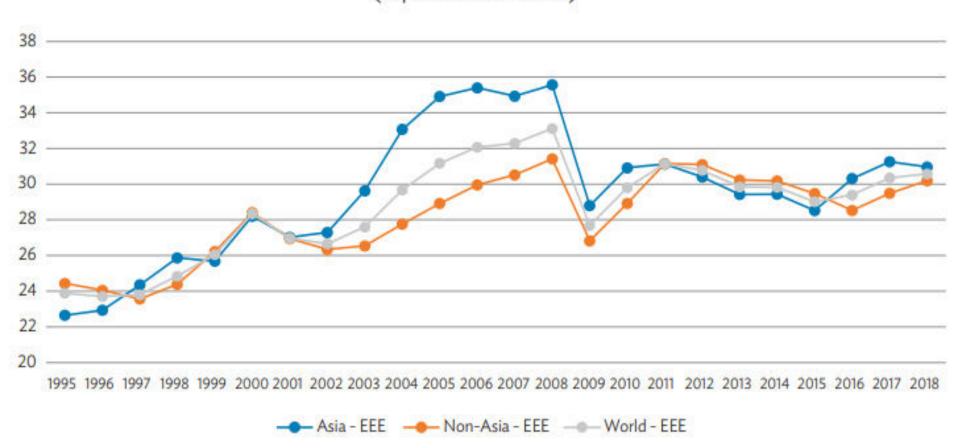
CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines



Mapping out Trade and Climate Change

Figure 5: Asia's CO₂ Emissions Embodied in Exports (% production-based)



CO, = carbon dioxide, EEE = emissions embodied in exports.

Source: OECD TeCO, database.



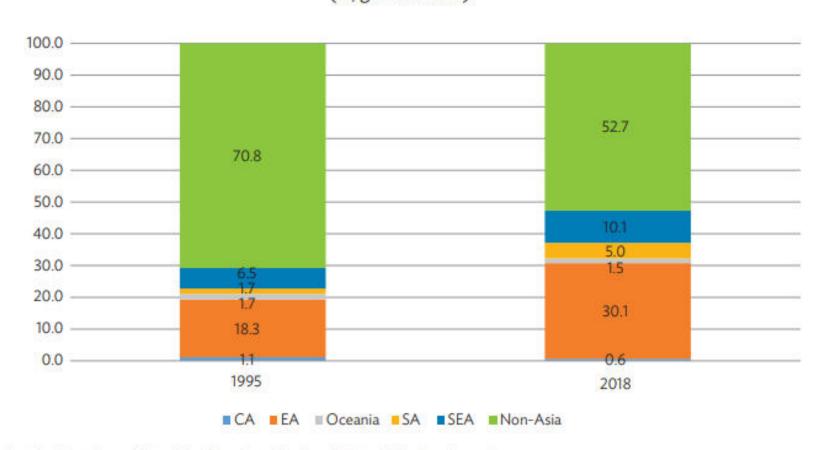
CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines



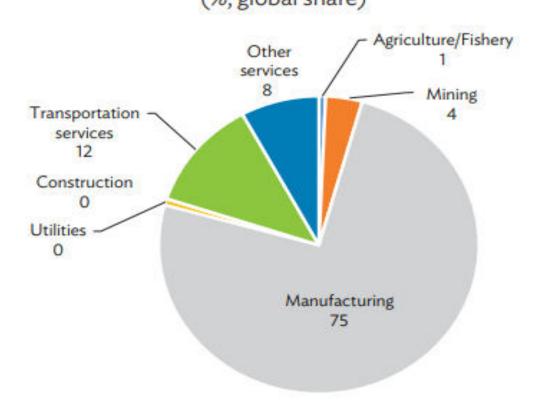
Mapping out Trade and Climate Change

Figure 6: Asia CO₂ Emissions Embodied in Exports by Subregion (%, global share)



CO₂ = carbon dioxide, CA = Central Asia, EA = East Asia, SA = South Asia, SEA = Southeast Asia. Source: OECD TeCO₂ database.

Figure 7: Asia Emissions Embodied in Exports by Industry (%, global share)



Source: OECD TeCO2 database.







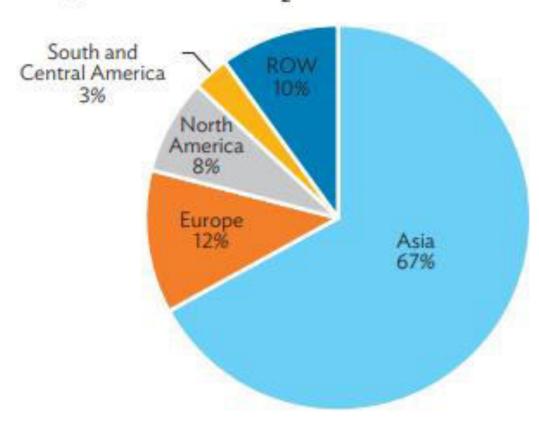
CLEAN TRANSPORT FOR ALL

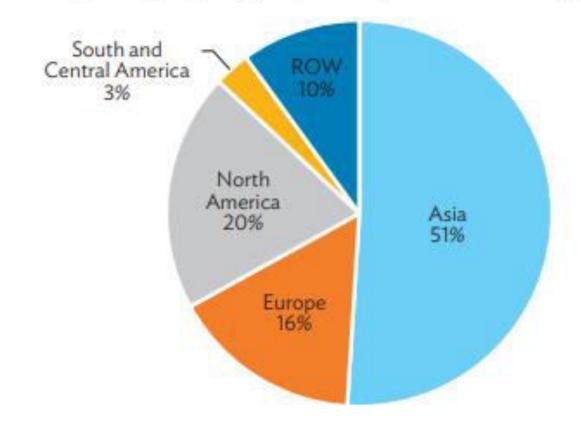
14-17 May 2024 | ADB Headquarters, Manila, Philippines



Mapping out Trade and Climate Change

Figure 8: Asia's CO₂ Emissions Embodied in Imports by Origin (left), Exports by Destination (right)





CO, = carbon dioxide ROW = rest of the world.

Source: OECD TeCO, database.









CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines



Carbon Balance and Carbon Leakage

The "industrial structure effect" suggests that the carbon intensity of the exports of some economies will be greater than others even when conditions are fair.

This effect has been called "**weak carbon leakage**" and has been described by Peters and Hertwich (2007) as production in developing countries to meet consumption in the developed countries.



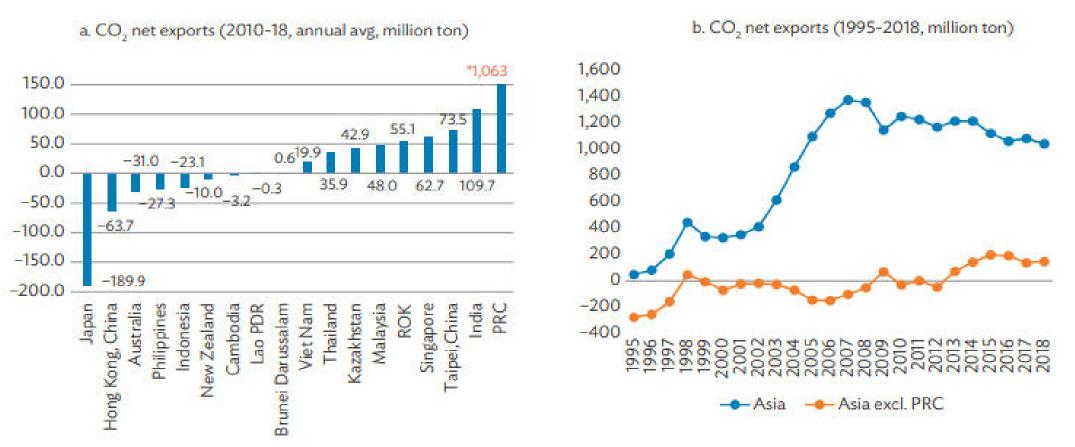
CLEAN TRANSPORT FOR ALL

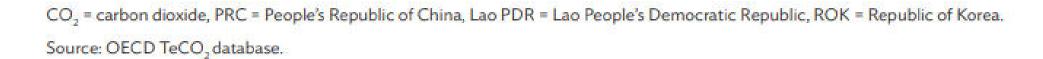
14-17 May 2024 | ADB Headquarters, Manila, Philippines



Carbon Balance and Carbon Leakage

Figure 9: Carbon Balance (CO₂ emissions, production versus final demand)







CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines



Carbon Tax: Case Study of the EU Carbon Border Adjustment Mechanism

- Levy on carbon-intensive products in six sectors that are imported into the EU (iron and steel, cement, fertilizers, aluminum, electricity, and hydrogen)
- Important landmark to prevent carbon leakage by putting an established fee on carbon emissions generated during production of identified goods that are imported into the EU market
- Entered into force on 16 May 2023.

14-17 May 2024 | ADB Headquarters, Manila, Philippines



Policy Tools for the Future

- 1 Mainstream trade and trade policy into NDCs
- Reduce tariffs and trade restrictions on environmental goods and services
- 3 Promote transfer of technology
- 4 Accelerate trade facilitation and logistics reforms
- Develop national carbon-pricing strategies and strengthen regional carbon market cooperation
- 6 Strengthen international cooperation

ASIA AND THE PACIFIC TRANSPORT FORUM 2024 CLEAN TRANSPORT FOR ALL

14-17 May 2024 | ADB Headquarters, Manila, Philippines





