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:

Strategic Directions for ADBs future Transport Sector assistance



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Vision

To mobilize **efficient, clean** and **resilient** integrated multimodal transport and logistics systems







Key Focus Areas

- Rail, road, and maritime connectivity and logistics
- Smart mobility including urban transport and mobility services
- Cross-cutting emerging areas including asset management, safety, resilience, and e-mobility







Updates of the E-mobility support and investment platform for Asia and the Pacific

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Past webinars – Asia & Pacific Platform

- 20 September 2023 – Introduction to E-Mobility
- 27 September 2023 – Lessons From an E-Mobility Readiness Project in Indonesia
- 4 October 2023 – E-mobility Policy Framework
- 18 October 2023 – Barriers to EV Adoption and Finding Solutions
- 8 November 2023 – Gender and Inclusivity in Electric Vehicle Adoption
- 29 November 2023 – Green Financing for Electric Vehicles
- 6 December 2023 – Electric Vehicle Roadmap Development
- 17 January 2024 – E-Mobility Trends and Policy Measures: A Peek into Asia and the Pacific
- 31 January 2024 – Implementing Micro Mobility Effectively
- 14 February 2024 – Accelerating Adoption of E-Mobility in Malaysia
- 28 February 2024 – Battery Passport Pilot Scheme
- 13 March 2024 – Developing Inter-Urban EV Charging Network in Bangladesh

All recordings are available here

+ Joint Webinars with IEA:

- 5 October 2023: EV Total Cost of Ownership Tool. Recording available here
- 12 October 2023: EV Charging and Grid Integration Tool. Recording available here

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Upcoming webinars – Asia & Pacific Platform

- 27 March 2024 – Accessing Green Finance. Register here
- 10 April 2024: Opportunities for Second Life of Batteries and Battery Energy Storage Systems in DMCs. Register here
- 24 April 2024: EV Second-hand Market: Korean Case Study. Register here
- 08 May 2024: Mobilising Private Finance for Scalable EV Charging: Insights from India. Register here
- 22 May 2024: GEF 7 Project in Philippines. Register here
- 05 June 2024: Learning from implementing urban living lab to accelerate e-mobility in emerging economies. Register here
- 19 June 2024: Electrifying Petrol-Powered Motorcycles in Indonesia. Register here

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Newsletters

Vol. 1: November 2023 (available here)



EV News

NEWSLETTER

E-Mobility Investment Platform for Asia and the Pacific

November 2023

Welcome to E-mobility Support and Investment Platform

On Friday, 8 September 2023, ADB launched an e-mobility community, financed by the Global Environment Facility (GEF), for ADB staff, key DMC counterparts, and international partner organizations, including UN agencies, Urban Electric Mobility Initiative, Clean Air Asia, among others. The vision of the platform is to become a centre of knowledge in the region to support a just transition towards net-zero pathways.

The platform will bring together representatives from the Developing Member Countries (DMCs) of the Asian Development Bank working toward EV adoption in their countries, as well as private sectors, industry experts, and development partners in the region. The platform will build the capacity to promote dialogue, knowledge exchange, and mutual learning. It will facilitate peer-to-peer networks through regular engagements. The scope of the platform covers the entire value chain of electric vehicles.

Welcome to the first newsletter of the platform. The newsletter will be a rich source of information about what is happening in the EV sphere in the region. This quarterly newsletter will include technical articles, showcase ongoing EV initiatives in the region, inform the state of play of EVs in specific countries and provide updates on regional activities. Be part of the news and contribute to our newsletter. Please contact the Platform Team for your contribution.

BE PART OF THE PLATFORM by filling this survey form

Message from ADB

We, together with platform partners, are pleased to launch this newsletter of the E-Mobility Support and Investment Platform for Asia and the Pacific at our first flagship event in Seoul on 14-16 November 2023. As we build a community of e-mobility practitioners in the region, we hope that the newsletter evolves into a key source of insights on e-mobility developments in the region.

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Electric Buses Reduce Air Pollution in Bishkek

The ADB-supported Urban Transport Electrification Project will finance the purchase of 120 battery-electric buses in Bishkek, Kyrgyz Republic. The Urban Transport Electrification Project will help improve air quality, enhance energy security, and address traffic congestion. The project will also upgrade the infrastructure of two trolleybus depots and establish a 3.5-kilometer green mobility pilot corridor to increase bus speed and improve service reliability of public transport in Bishkek city center. For more information, watch the video of the initiative here.

Platform webinar updates

The Asia and the Pacific e-mobility pl
were well attended by the e-mobility c

Session: Introduction to e-mobility
20th September 2023
Speaker: Conrad Richardson

- Electrification should be combine Avoid-Shift-Improve framework.
- A 'dirty' grid is not an excu postpone e-mobility adoption can decarbonise the energy syste transport simultaneously.
- Significant investment is need scale up the end-of-life managem batteries.

and charging use cases. The tool outputs are useful for a comparative analysis of typical transformer capacities or with typical time periods of peak loads. The Grid Integration Tool estimates the implications of the charging load profiles based on the expected electric mobility uptake. The Asia and the Pacific e-mobility platform delivered online workshops in October 2023 to introduce both the TCO and the Grid Integration tools.

14th - 16th of November 2023
Main Workshop
The main workshop will be held in Seoul, Republic of Korea. The workshop will be the platform's primary opportunity for face-to-face engagement and relationship building. Representatives across public, private, multilateral and expert organizations will attend the workshop.

Vol. 2: March 2024 (available here)



Advanced EV Technologies

NEWSLETTER

E-Mobility Investment Platform for Asia and the Pacific

March 2024

E-mobility support and investment platform updates

The e-mobility platform for Asia and the Pacific organised a three-day long workshop between 14th and 16th November 2023 in Seoul, Republic of Korea. The workshop was a major success and participated by representatives from Developing Member Countries (DMCs) of the Asian Development Bank (ADB) staff, International Development Partners, and industry experts. Effective discussions and knowledge exchange took place through panel sessions, technical presentations, round-table discussions, and site visit.

On day one, the technical considerations of electric buses, electric two- and three-wheelers, charging infrastructure and electric vessels were presented. Amongst different technologies, deploying electric buses and charging infrastructure was identified as a high priority in Asia. The discussions with the private sector highlighted the need for more public-private engagement to prepare a country's regulatory environment. Domestic supply-chain readiness is also highlighted as a critical factor for private-sector investment. The DMCs would need support to develop a stronger agenda for engaging effectively with the private sector. The public sector representatives identified private sector investment opportunities, particularly around vehicle and battery manufacturing, charging infrastructure and battery end-of-life processing.

On day two, the Korea Transport Institute (KOTI) and the Seoul City Government showcased Korea's e-mobility transition, including the policy drivers, enabling factors and key projects to date. The delegates visited a battery swapping station, bus charging and hydrogen refuelling bus depot and destination charging facility in Seoul. The site visits presented the technical and operational details and implementational challenges of those facilities.

On day three, the delegates reconvened and discussed how different enabling environments can be created to accelerate EVs. It was followed by two round-table discussions about the challenges and opportunities of EV deployment in the region. The countries that are more advanced in EV adoption acknowledged the need for Just Transition policies and greater private sector participation and investments. Countries with lower levels of e-mobility deployment need support in developing the appropriate policy and regulatory framework for guided development. A collective regional approach to developing policy, strategy and regulatory framework could be suitable for the Pacific Island Countries.

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Message from ADB

We are pleased to deliver the 2nd newsletter of the E-Mobility Support and Investment Platform for Asia and the Pacific. The workshop arranged in Seoul in November 2023 was a successful initiative for engaging diverse e-mobility stakeholders in the region. We wish to continue the fruitful discussions and knowledge exchange through the platform in 2024, moving toward decarbonization of transport.

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Asia EV Outlook: Philippines

Sudhir Gota and Alvin Mejia, Asia Transport Outlook (ATO)

The Asian Transport Outlook (ATO) project - supported by the Asian Development Bank and the Asian Infrastructure Investment Bank - together with the Urban Electric Mobility Initiative (UEMI) and the EU-supported SOLUTIONSplus project, are producing e-mobility profiles that focus on taking stock of the main developments relating to e-mobility transition in Asian economies. This edition of the newsletter presents the profiles for Philippines.

The Philippines is focused on achieving sustained economic growth and social development, anticipating an annual urban population increase of 1.3 million and a GDP per capita growth of 4.4% until 2050. This growth is expected to drive a 3.0% annual increase in passenger transport and a 3.6% growth in freight transport.

In 2018, the Land Transportation Office recorded a significant rise in new battery electric vehicles, particularly motorcycles, reaching 4,362 registrations, double the previous year. Despite limited charging infrastructure, the Electric Vehicle Association of the Philippines forecasts an 8%-12% annual growth until 2024, generating $33.6 million from approximately 200 thousand units sold.

The Electric Vehicle Industry Development Act (EVIDA), effective since April 2022, regulates various aspects of electric vehicles, encouraging the sector's development. The government provides fiscal incentives such as exemptions for fully built EV imports, eight years of duty exemption for charging station imports, and discounts on EV purchases, motor vehicle charges, registration, and inspection fees.

Non-fiscal incentives include priority registration, exemption from certain vehicle reduction programs, and expedited processing for EV-related activities. These initiatives aim to bolster the electric vehicle industry in the Philippines and contribute to sustainable economic and environmental objectives.

Detailed report can be found here

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Ongoing/planned activities

- Three community meetings held (September 2023, February and April 2024)
  - Second community meeting in February 2024 was a panel discussion on Sustainable EV Battery Manufacturing and Mineral Sourcing. Recording available here. Panelists:
    - Georg Bieker, Senior Researcher at the International Council on Clean Transportation (ICCT)
    - Marie Carlsson, Vice President for Electromobility Solutions at Volvo Buses
    - Annika Seiler, Principal Energy Specialist at ADB
    - Atsumasa Sakai is Senior Energy Specialist at ADB
  - Panel discussion on Sustainable EV Battery End-Of-Life Management, Including Reuse and Recycling. Panelists:
    - Georg Bieker, Senior Researcher at the International Council on Clean Transportation (ICCT)
    - Marie Carlsson, Vice President for Electromobility Solutions at Volvo Buses
    - Trupti Deshpande, Senior Programme Manager (Electric Mobility), Shakti Sustainable Energy Foundation
    - ALN Rao, CEO, Exigo Recycling
- E-Mobility Training session in Transport Forum 2024 (ADB HQ in Manila), on 17 May 2024
- Insight Report under development, including 10 country case studies
  - With the support of the Asian Transport Outlook
- Platform website structure under development

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ADB e-mobility assistance

75,000+ e-vehicles financed (72,000 2/3-wheelers, 3,500 e-buses)

- $1 billion finance for e-vehicles
- $9 billion finance for low-emission transport systems
- 5,000 km of electric railway
- 70 million daily users
- 40,000 jobs
- 2,000 EV chargers installed

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ADB-financed E-Mobility Projects

As of 1 May 2023

Electric buses

- PRC: Shandong Spring City Green Modern Trolley Bus Demonstration Project
- PAK: Peshawar Sustainable Bus Rapid Transit Corridor Project
- KYG: Urban Transport Electrification Project
- VIE: VinFast Electric Mobility Green Loan Project
- IND: GreenCell Electric Bus Financing Project
- NEP: Kathmandu Sustainable Urban Transport Project

Electric maritime transport

- PRC: Guangxi Li River Comprehensive Ecological Management and Demonstration Project
- PHI/THA/INO: Pilot Deployment of E-boats for Fishing, Tourism and Public Transport
- THA: E Smart Bangkok Mass Rapid Transit Electric Ferries Project
- MLD: Preparing Outer Islands for Sustainable Energy Development Project

Electric two- and three-wheelers

- IND: ADB Ventures –Three Wheelers United
- IND: ADB Ventures – Euler Motors
- PHI: Market Transformation through Introduction of Energy-Efficient Electric Vehicles

Railway and metro systems

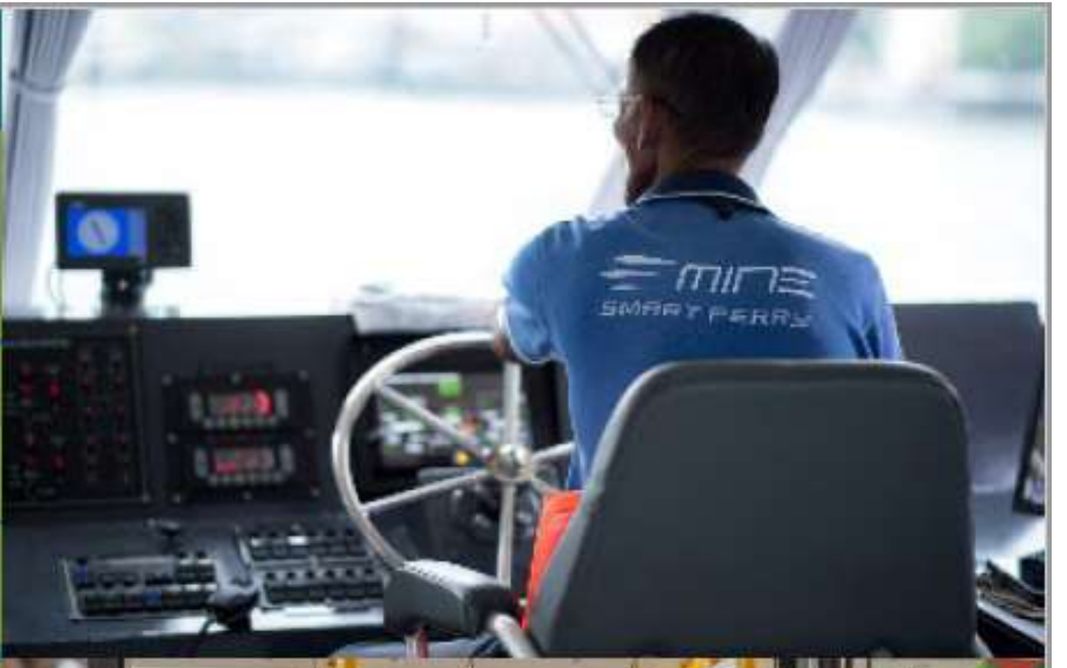
- THA: Bangkok Mass Rapid Transit Project (Pink and Yellow Lines)
- IND: Chennai Metro Rail Investment Project
- PHI: South Commuter Railway Project
- IND: Mumbai Metro Rail Systems Project
- PHI: Malolos-Clark Railway Project
- BAN: Railway Rolling Stock Operations Improvement Project
- IND: Delhi-Meerut Regional Rapid Transit System Investment Project
- UZB: Central Asia Regional Economic Cooperation Corridor 2 Railway Electrification
- IND: Kochi Metro Extension Project
- IND: Bengaluru Metro Rail Project
- UZB: Railway Efficiency Improvement Project
- BAN: South Asia Subregional Economic Cooperation Chittagong– Cox's Bazar Railway
- IND: Railways Track Electrification Project
- VIE: Ha Noi Metro Rail System Project (Line 3: Nhon–Ha Noi Station Section)
- IND: Railway Sector Investment Program

Enabling infrastructure for electrification

- THA: Green Loan for Renewable Energy and Electric Vehicle Charging Network
- VIE: VinFast Electric Mobility Green Loan Project
- PHI: Wyntron Electric Vehicle Charger Production Expansion Project

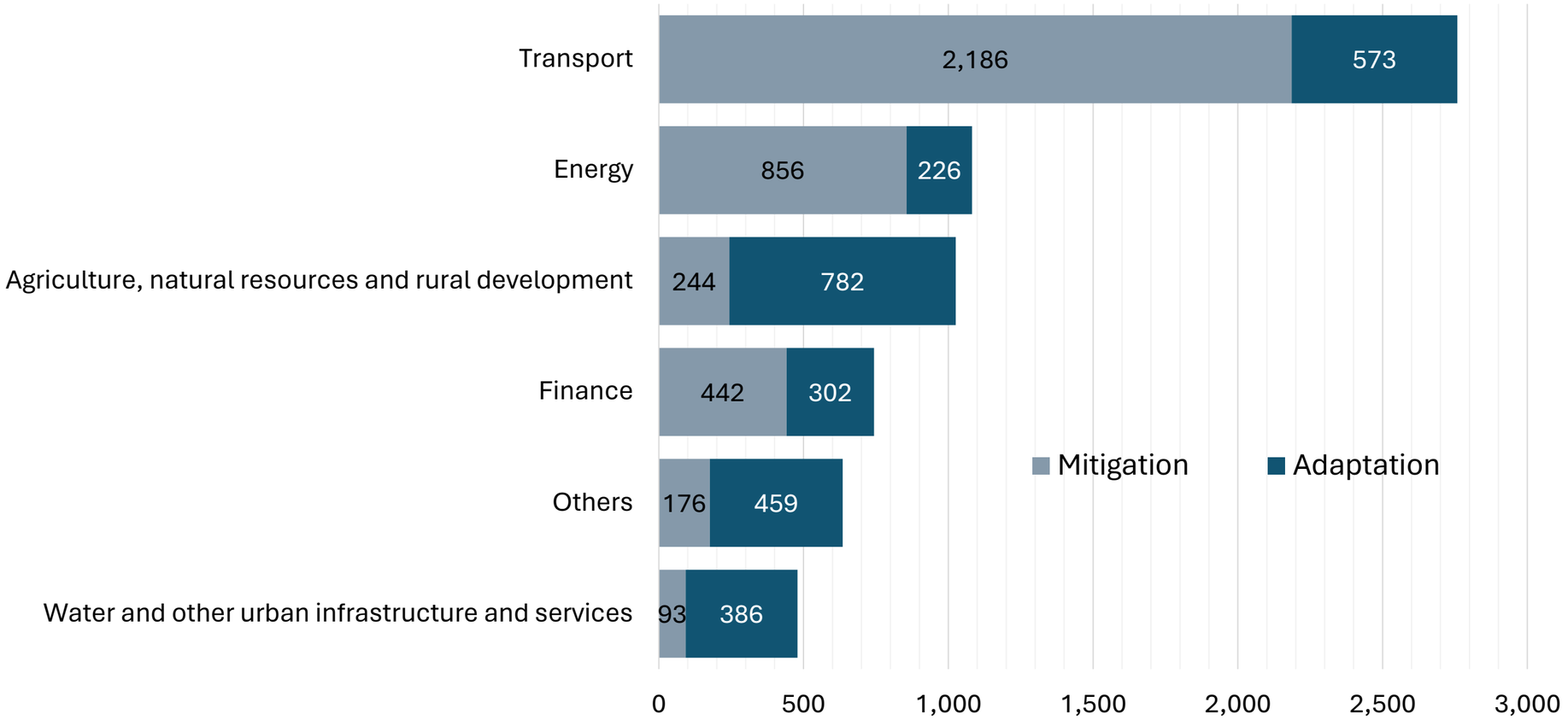
Policies and studies

- PRC: Beijing–Tianjin–Hebei Air Quality Improvement–Hebei Policy Reforms Program
- PRC: Study on the Development of Green Ports and Shipping
- IND: Promoting Clean Energy Usage through Enhanced Adoption of Electric Vehicles and Grid Integration of Battery Energy Storage Systems





Climate Finance by Sector (2022), ADB Resources Only ($ million)



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THANK YOU!

Jamie Leather, Director Transport ADB



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