

ASIA CLEAN ENERGY FORUM 2025

Empowering the Future: Clean Energy
Innovations, Regional Cooperation and
Integration, and Financing Solutions

2–6 June | ADB Headquarters



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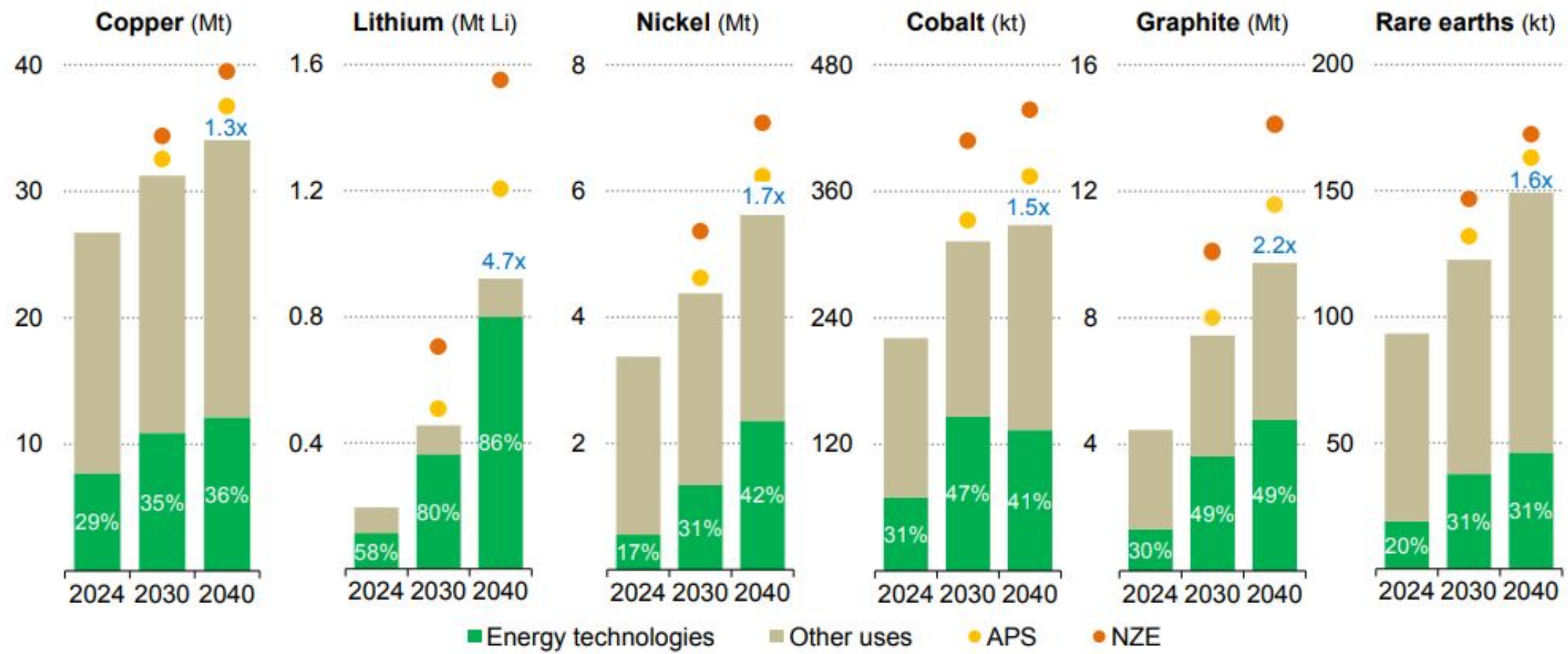


Innovative Solutions for Sustainable and Responsible Critical Mineral and Manufacturing Development

05 June 2025

Unprecedented and Timebound Clean Energy Technology (CET)

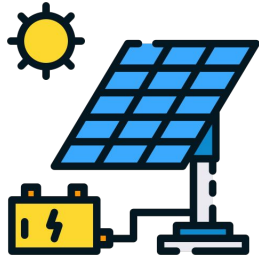
Demand Growth Supercharges Demand for Critical Minerals (CM)



IEA. CC BY 4.0.

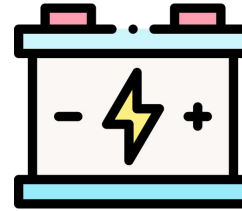
Notes: STEPS = Stated Policies Scenario; Mt = million tonnes; kt = kilotonnes; APS = Announced Pledges Scenario; NZE = Net Zero Emissions by 2050 Scenario. The figures for copper are based on refined copper (excluding direct-use scrap). Those for rare earth elements are for magnet rare earth elements only. Growth rates (in blue) are between 2024 and 2040.

Asia and the Pacific region is well-positioned to meet ambitious clean energy technology manufacturing goals



Solar PV

- 16 TW of solar PV technical potential regionally
- Malaysia, Thailand, and Viet Nam already produce 9% to 10% of the world's solar PV cells and modules



Batteries

- The region holds 25% and 10% of global nickel and cobalt reserves respectively
- Indonesia and the Philippines produce ~50% of the world's nickel output



Electric 2-Wheelers

- Indonesia and Viet Nam account for ~16% of global 2W sales and 6%-10% of the world's E2W assembly capacity
- The region collectively makes up about 25% of the world's 2W market

70GW
Current
footprint



125-150 GW
Potential
2030
Aspiration

0
GWh
Current
footprint



180 GWh
Potential
2030
Aspiration

1.4-1.6
million
units
Current
footprint



4 million
units
Potential
2030
Aspiration

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Panelist Presentations

Battery Recycling Solutions

Speaker:

Simon Rolland, Programme Manager, Southeast Asia, International Energy Agency

Financing solutions for low-carbon power supply for mines in developing Asia.

Speaker:

Jens Rodenhauser, Head of Advisory, Dornier Group

Viability Assessment of Local Manufacturing of Electric Vehicle Service Equipment in the Philippines

Speaker:

Lew Tria, Professor, University of Philippines Diliman

Private sector solutions for local community development

Speaker:

Joan D. Adaci-Cattiling, OceanaGold

Innovative Mobility Solutions, Digitalization and Automation for Mining

Speaker:

Eunice Cuntig, Mining Engineer, Epiroc