



Tim Buckley, Director CEF
tim@climateenergyfinance.org

SEC Conference, Sydney

2-3pm Theatre 7

**Future Made - Australia
and Beyond**

**Australia China Smart
Energy Partnership Forum**

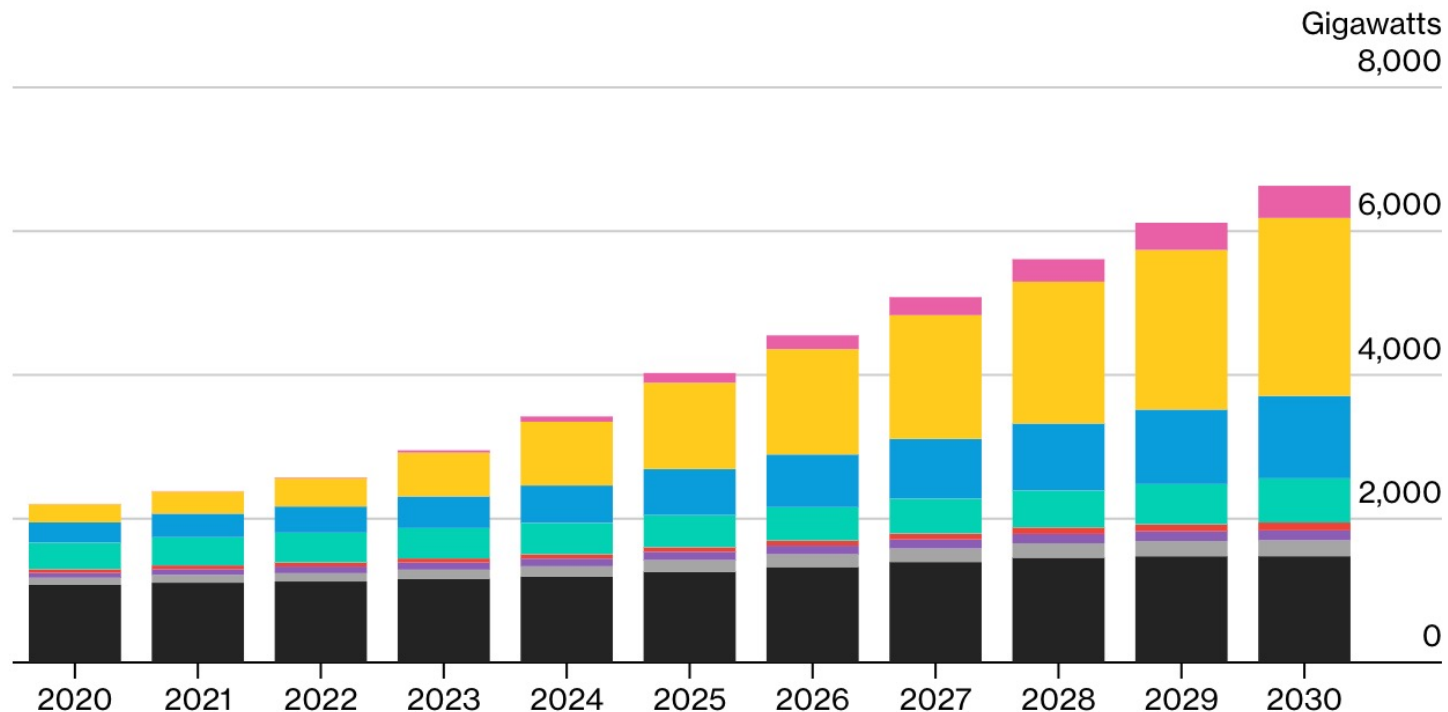
6 May 2026

China is Moving in Decarbonisation, Rapidly

China's Power Capacity Mix Diversifies as Wind and Solar Deployment Scales

China's cumulative installed capacity by technology

■ Coal ■ Gas ■ Other thermal ■ Nuclear ■ Hydro ■ Wind ■ Solar
■ Energy Storage



Note: Other thermal includes biomass and power generation from waste heat and pressure. Values are shown in alternating current.

Source: BloombergNEF, China Electricity Council, National Energy Administration.

China is Moving in Decarbonisation, Consistently

New Capacity Installed in China in 1QCY2026 (GW)

Gigawatts (GW)	March'2026 Total Capacity	Share of total capacity	Jan-Mar'26 Net Adds	% Share of new adds	% yoy change in net adds	Mar'26 Adds GW
Fossil Power	1,563	39%	24.0	30%	160%	4.1
Hydropower	449	11%	1.4	2%	-33%	0.2
Nuclear Power	64	2%	1.2	2%	-	-
Wind Power	656	16%	15.8	17%	8%	4.7
Solar Power	1,243	31%	41.4	49%	-31%	8.9
Total capacity	3,975	100%	83.8	100%	-2%	17.9
Renewable Energy adds			58.6	70%		13.8
Zero Emissions Capacity Adds			59.8	71%		13.8

Source: National Energy Administration; CEF calculations

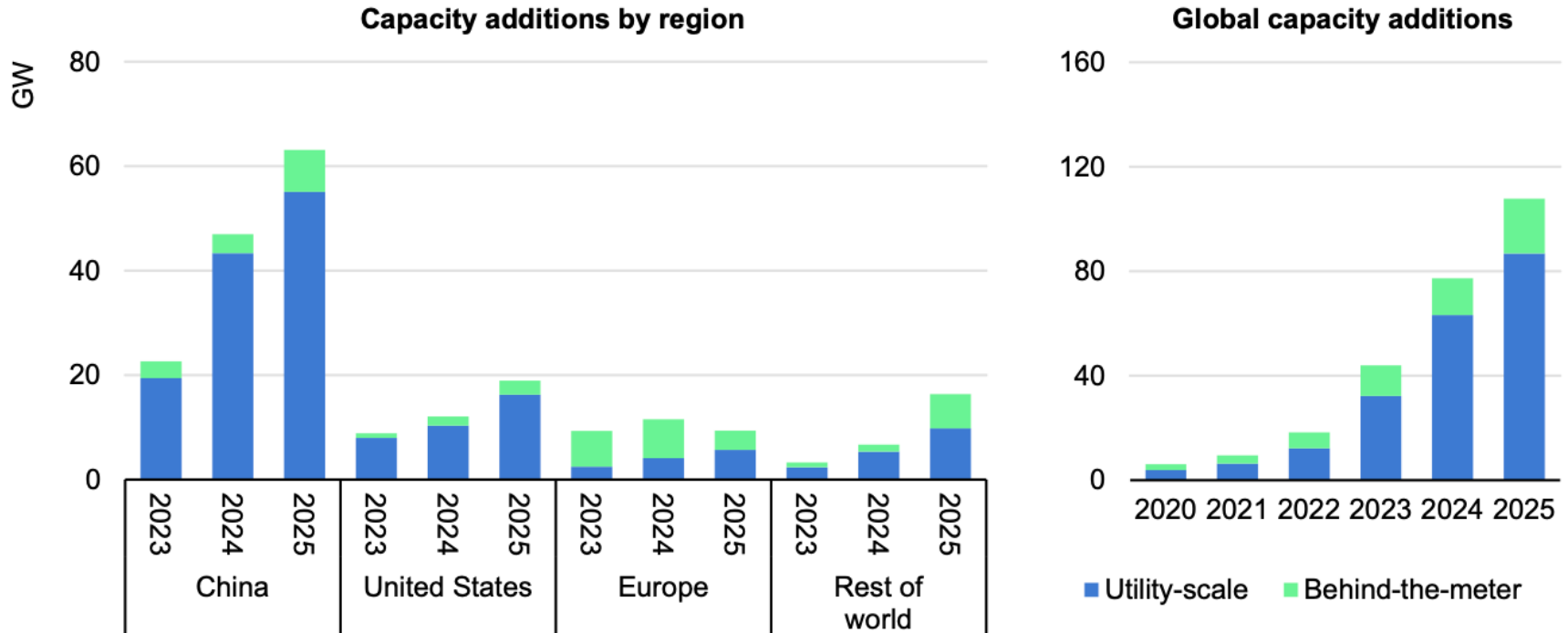
China is Moving in Decarbonisation, Consistently

	1Q2026 TWh	1Q2025 TWh	% change yoy	Share of YTD26 Generation	Mar'26 TWh	Mar'26 Change yoy
Coal	1,456	1,406	3.5%	56.7%	489	4.1%
Gas	79	72	9.9%	3.1%	27	10.5%
Thermal	1,539	1,482	3.9%	60.0%	517	4.5%
Bioenergy	53	49	7.3%	2.1%	18	8.0%
Hydropower	243	224	8.7%	9.5%	87	11.3%
Nuclear Power	114	117	-3.3%	4.4%	38	-11.4%
Wind Power	311	304	2.5%	12.1%	99	-12.3%
Solar Power	305	233	31.0%	11.9%	115	31.4%
Total power generation (TWh)	2,565	2,409	6.5%	100.0%	873	4.9%
Variable Renewable Energy	616	536	14.9%	24.0%	214	6.8%
Zero Emissions	1,026	927	10.7%	40.0%	357	5.6%

Source: Ember; CEF Estimates; Note - this includes distributed energy resource generation

Global Battery Storage Infrastructure Capacity is Expanding, Rapidly

Battery storage capacity additions in selected regions, 2023-2025, and global capacity additions, 2000-2025

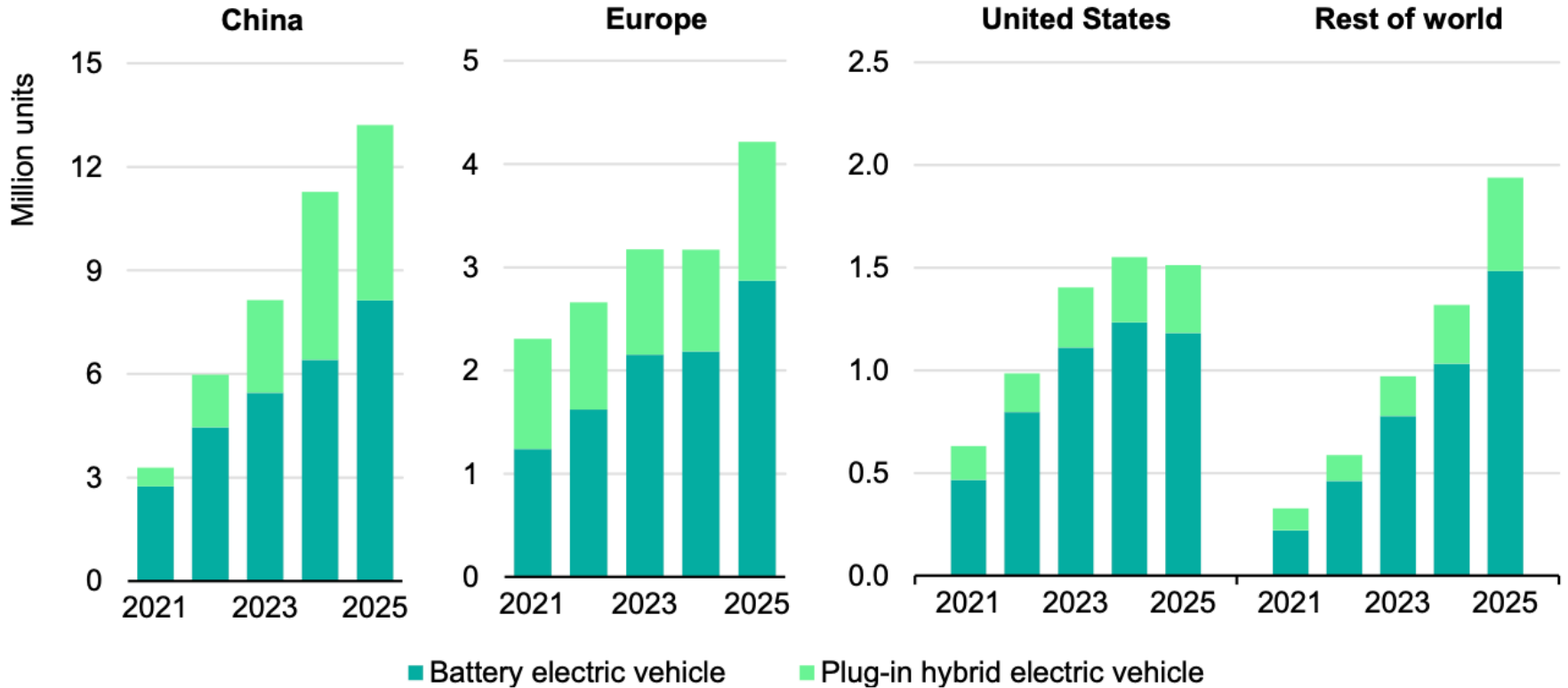


Note: 2025 values are based on [Benchmark \(2026\)](#) data.



The World is Pivoting to EVs, led by China

Electric car sales in selected markets, 2021-2025



Note the different Y-axis scales, the IEA doesn't want to embarrass the US as they lose global leadership.



China leads the world in cleantech R&D, manufacturing, domestic deployments, OFDI and in exports.

China exported a record \$21.9bn in solar, batteries and EVs in March 2026

Value of key exports (billion USD)



Source: Ember analysis of GACC monthly bulletin

"New Three" total is the sum of lithium ion battery, solar, and electric vehicles exports.

CEF's Report Advocating for Carbon Pricing

Climate Energy Finance

05 June 2025



A Price on Carbon: Building Towards an Asian CBAM

A focus on the harmonisation and integration of carbon pricing mechanisms in Asia-Pacific for the steel, aluminium and cement value chains.

Authors:

Matt Pollard, Net Zero Transformation Analyst, CEF

Tim Buckley, Director, CEF

The Safeguard Mechanism was reformed in 2023. It will be reviewed by the DCCEEW in late 2026.

Australia's #1 trade partner, China will expand its national ETS by 50% by 2027.

Australia needs to leverage the EU / UK ETS & CBAM into Asia to provide finance the price signal required.

CEF Chinese FDI reports: Rising Tide and Raw Power

Climate Energy Finance

08 December 2025



Rising Tide:

China's Outbound Cleantech Capital Surge Drives Global Collaboration Toward Net Zero

Authors:

Caroline Wang, China Analyst, CEF

Contributing editor:

Dr AM Jonson, Editorial director CEF

Climate Energy Finance

19 March 2026



Raw Power:

China locks-in global dominance of critical minerals and metals with \$120bn outbound investment surge

China's 'going global' strategy to secure value chains in zero-emissions industries is also boosting its partner economies, with lessons for Australia.

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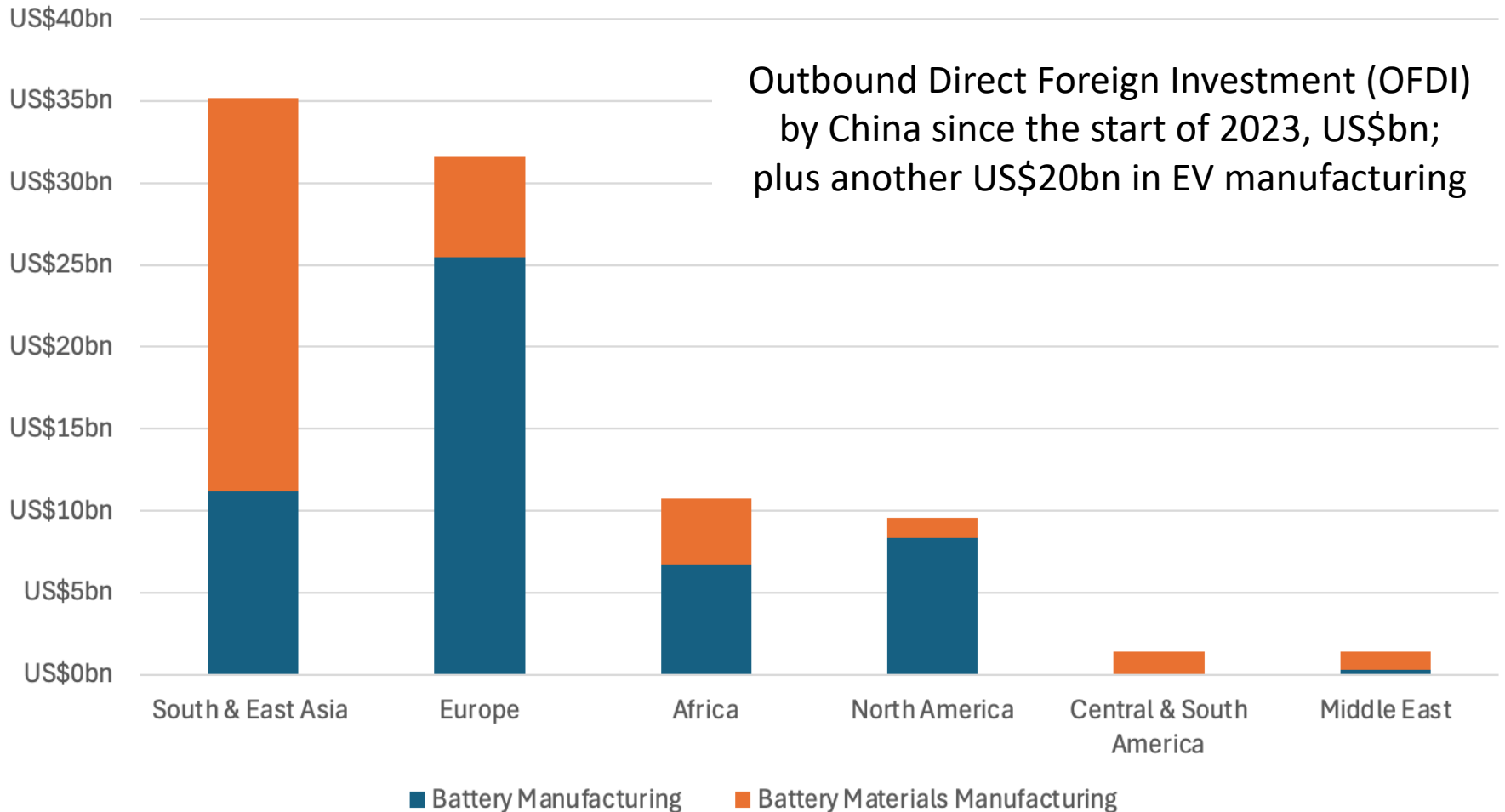
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Chinese OFDI is flowing into Global Battery Materials (Cathodes & Anodes) and Battery Manufacturing Facilities

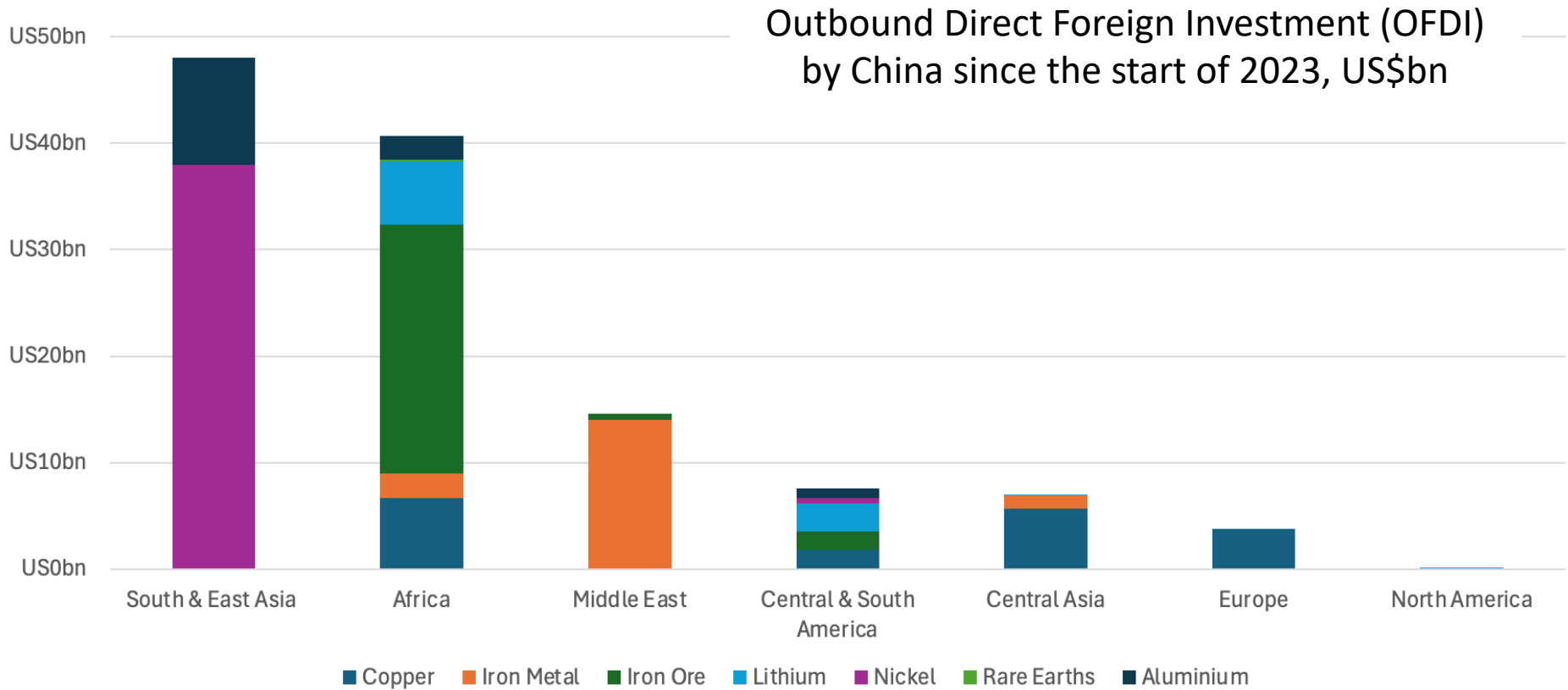
But none to Australia



Source: CEF modelling

Chinese OFDI in Critical Minerals and Strategic Metals Mining & Upstream Value-adding

But none to Australia



Source: CEF modelling

Chinese Share of the Global Battery Supply Chain

Figure 2.25: China Dominates Battery Materials Manufacturing Capacity: Cathode Active Material (CAM) Demand and Supply (t, 2025)

Share of core steps along lithium-ion (Li-ion) value chain by project location, 2035 (estimated),¹ %

