CLIMATE ENERGY FINANCE

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Hawthorn Town Hall

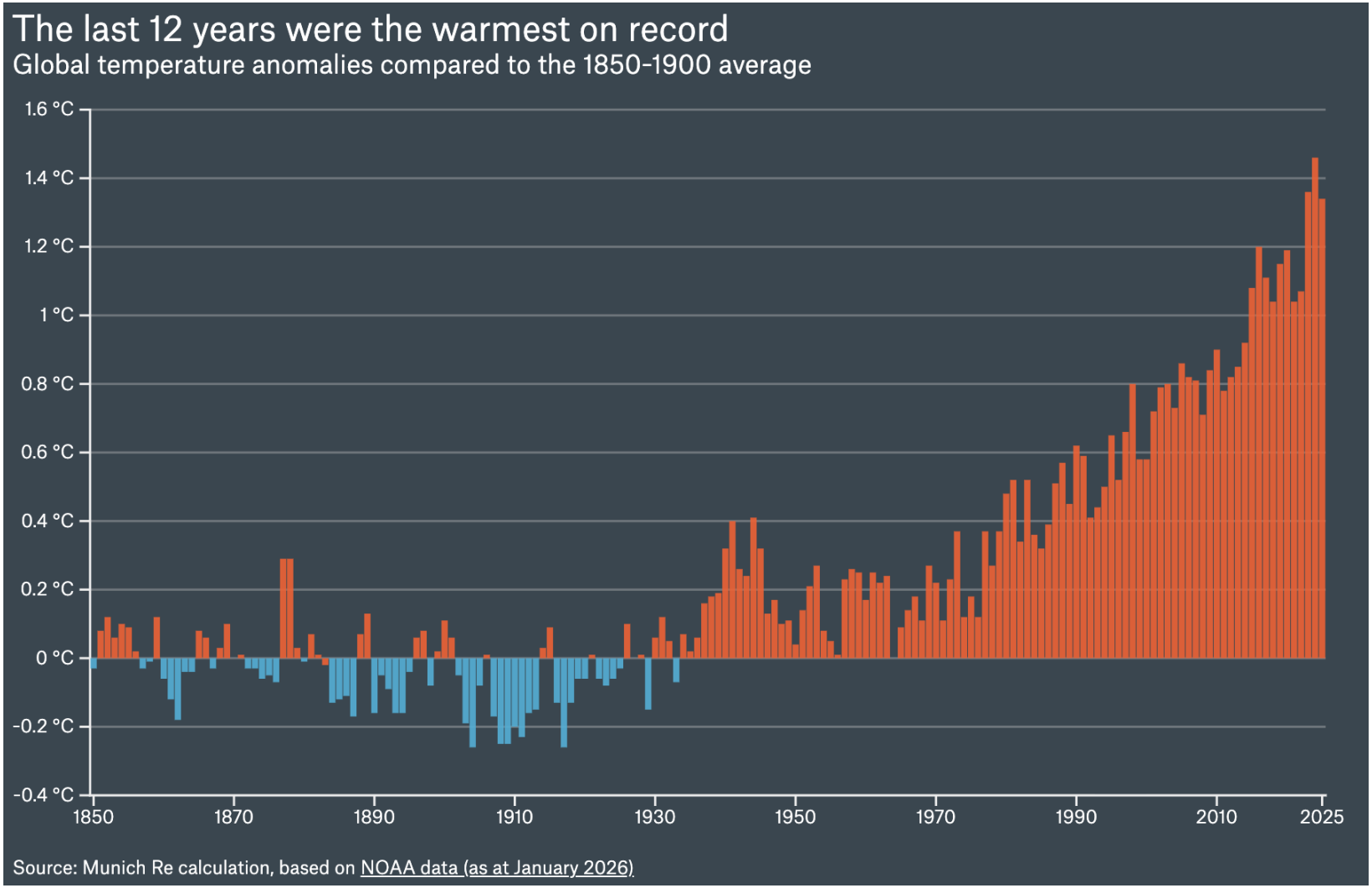
Lighter Footprints & Dr Monique Ryan MP

The Global Energy System Transition – and implications for Australia

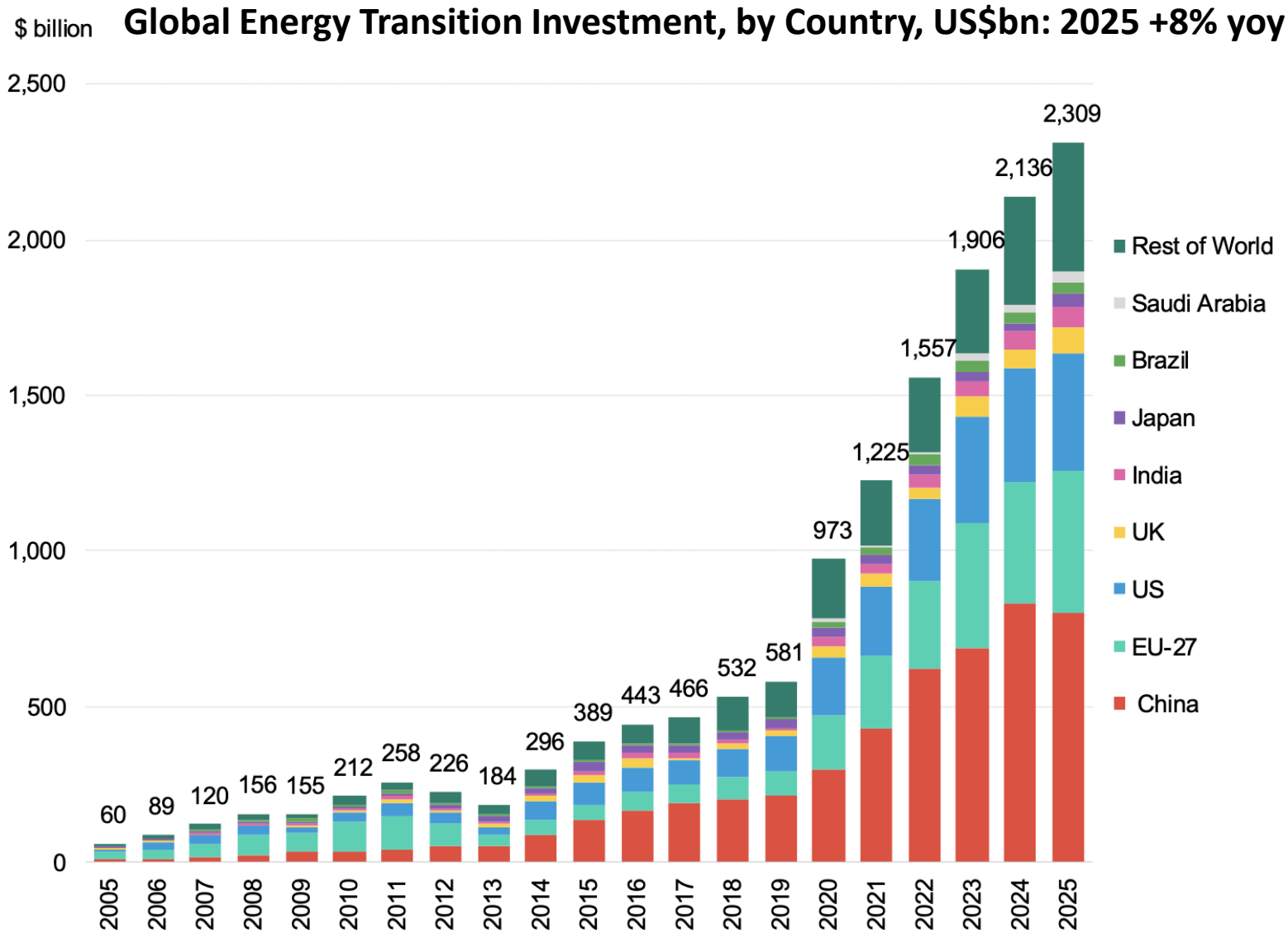
9 June 2026

CEF accepts the climate science

CEF is a public interest thinktank with no government or corporate funding



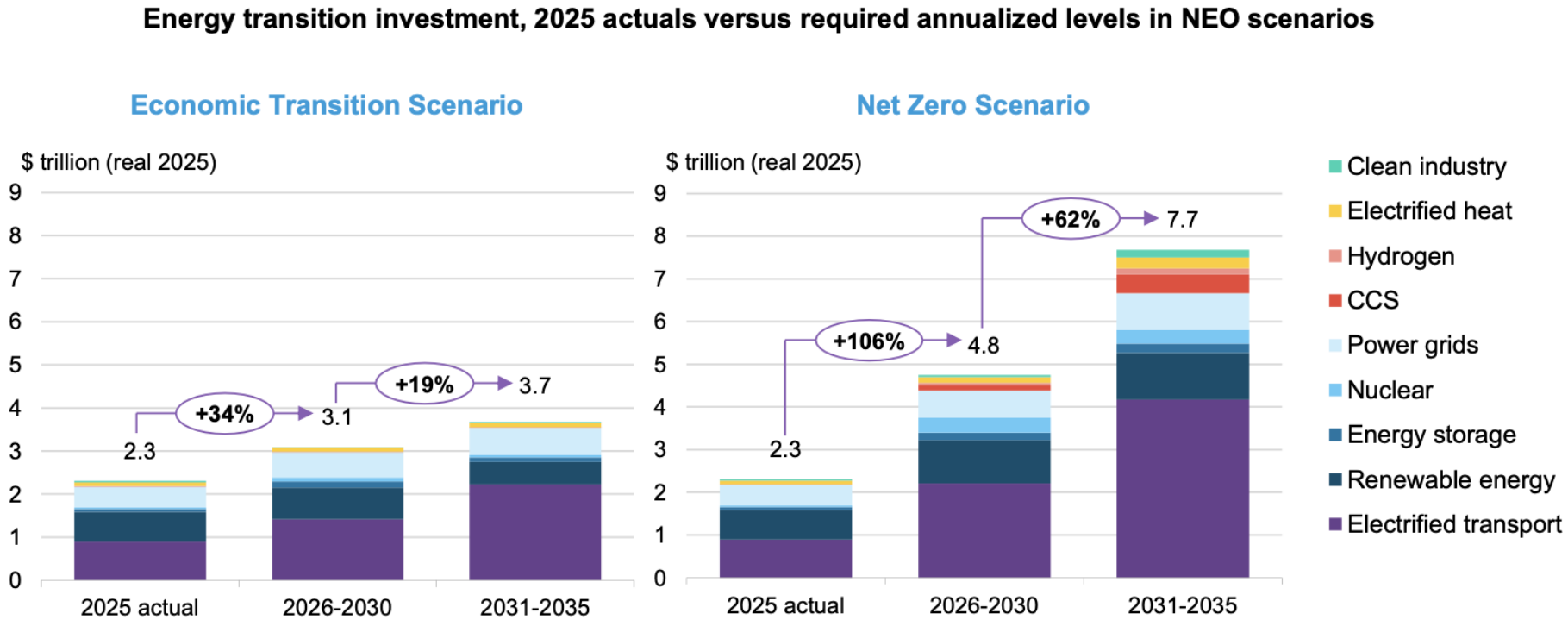
Renewables, EV & Grid outspend Fossil Fuels >2:1



Source: BloombergNEF, Energy Transition Investment Trends, January 2026

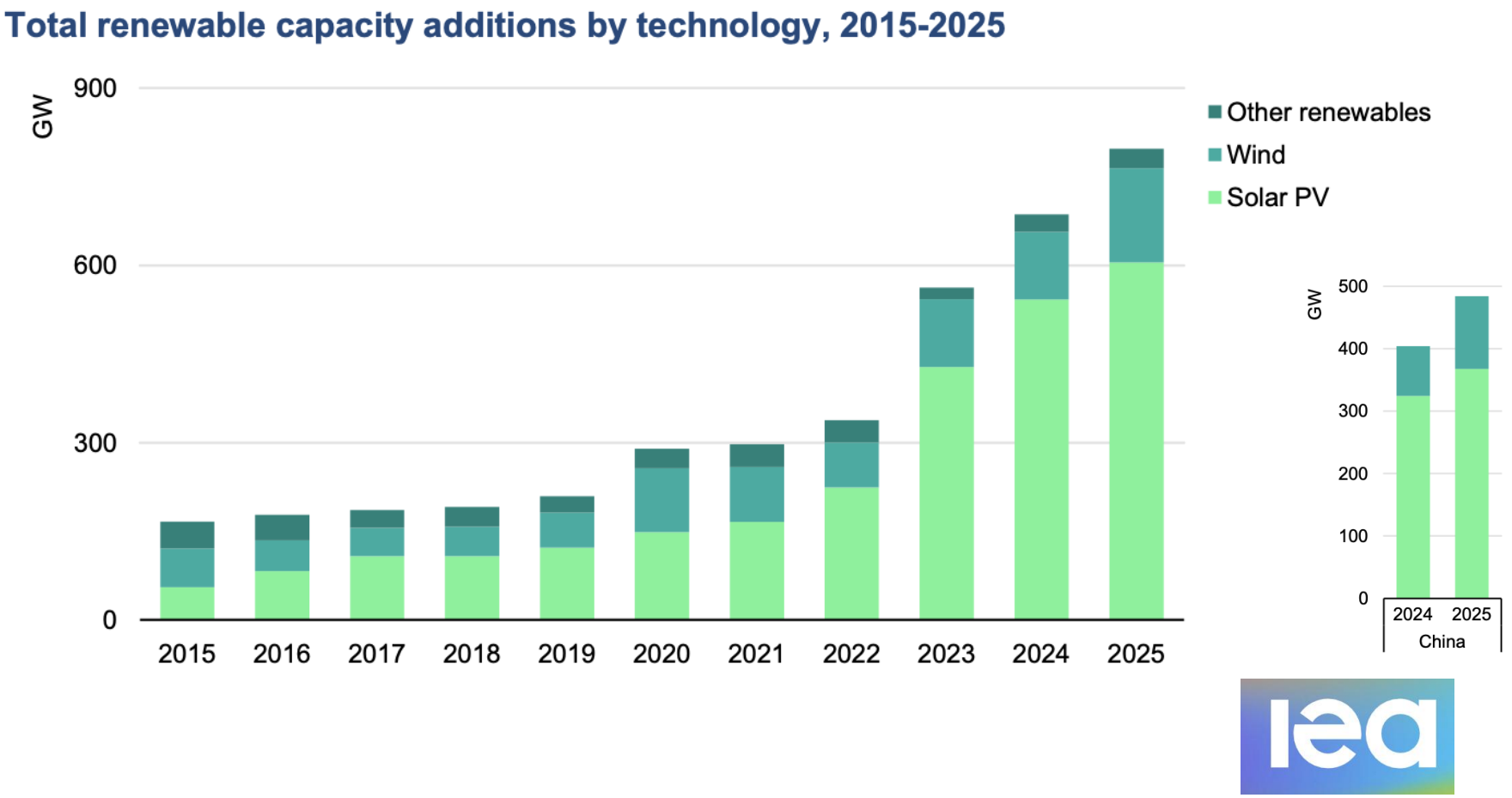
Annual Investment in Energy Transition neds to treble

Global Energy Transition Investment, by Technology, US$ Trillion pa



Source: BloombergNEF, NEO, 19 May 2026

The World is Pivoting to Renewables, led by China

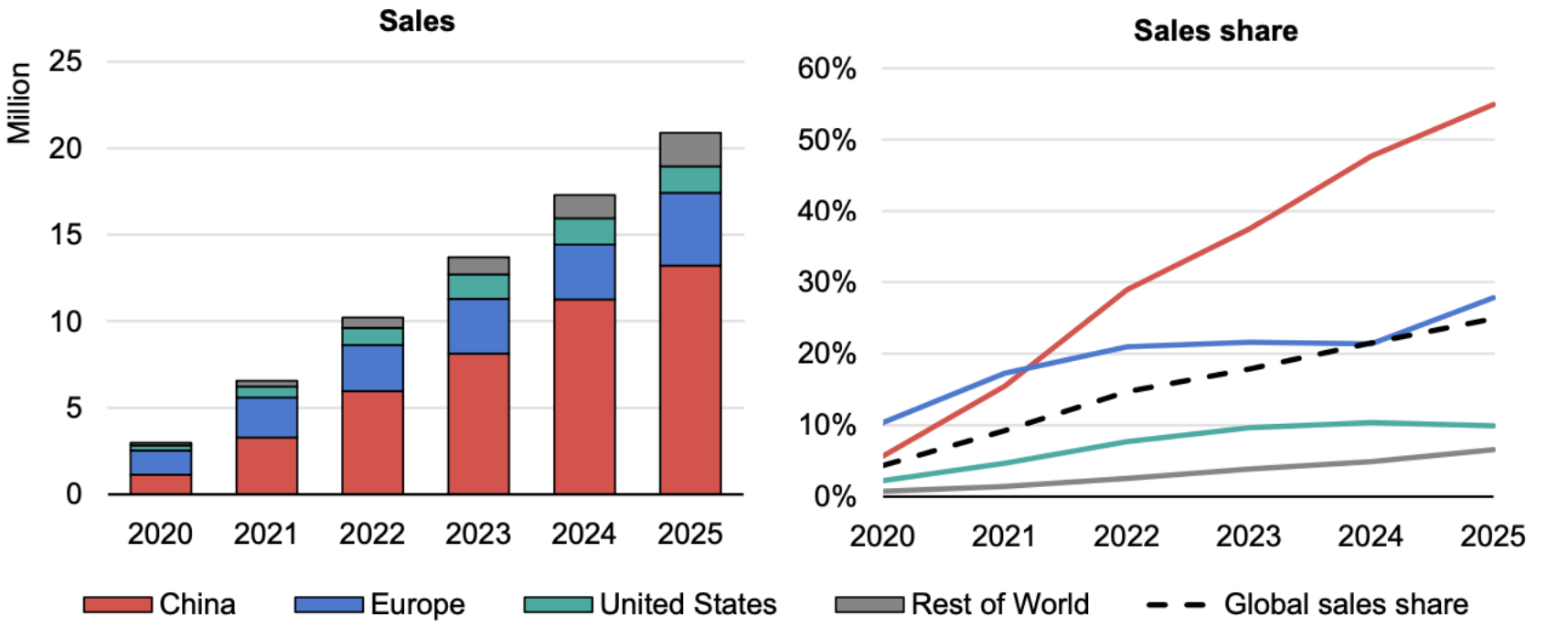


Source: IEA Global Energy Review, April 2026

The World is Pivoting to EVs, led by China

This makes V2G increasingly important as the US attacks more nations and pushes up the price of oil, driving EV adoption

Electric car sales globally and sales share for selected regions, 2020-2025

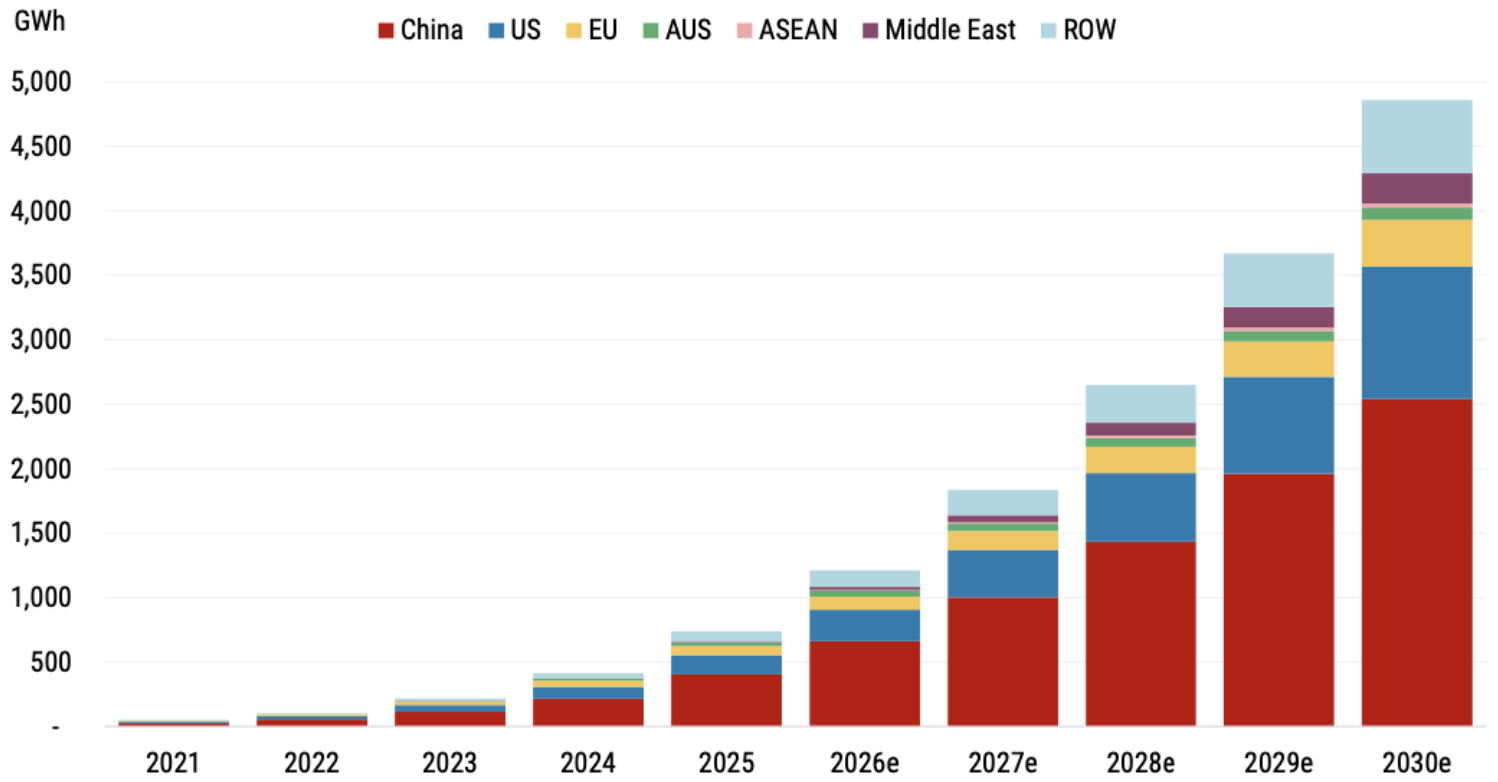


Note: Electric cars include battery electric and plug-in hybrid electric cars.

Source: IEA Global EV Outlook, May 2026

The World is Pivoting to BESS, led by China

Exhibit 2: ESS installations are growing quickly, to firm AI power demand and balance grids

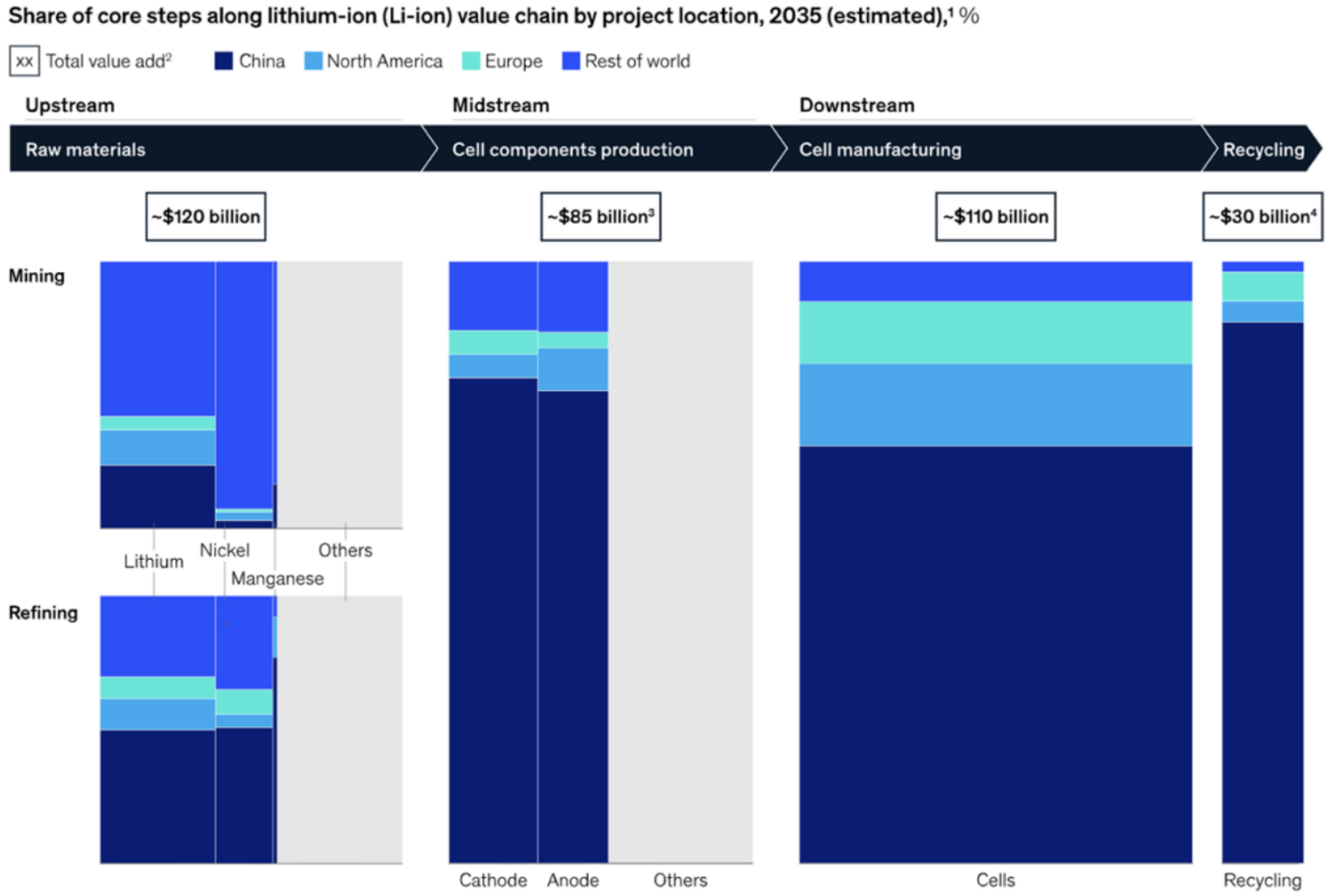


Sources: Rystad, e = Morgan Stanley Research estimates.

Source: Morgan Stanley Research, June 2026

Chinese Share of the Global Battery Supply Chain

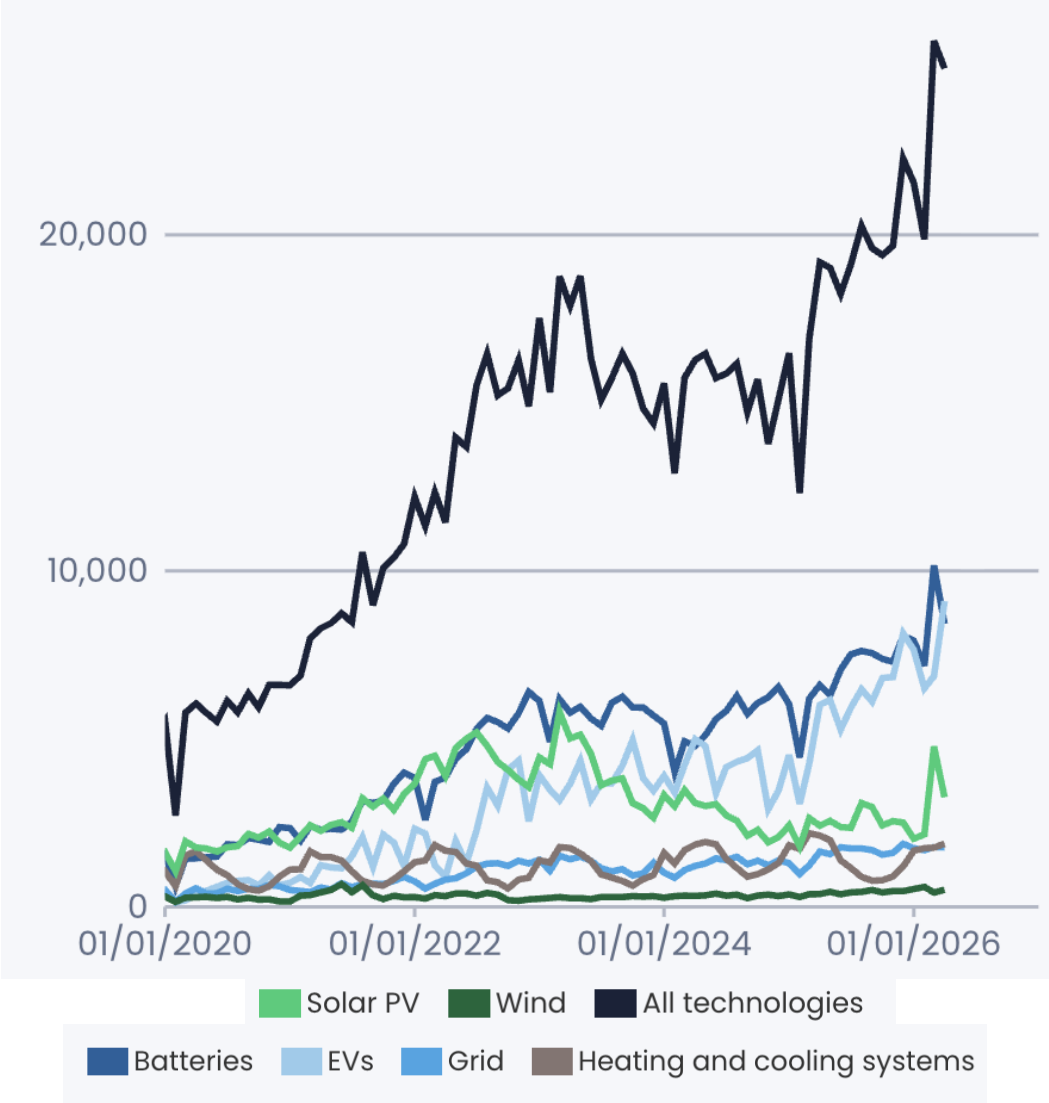
Figure 2.25: China Dominates Battery Materials Manufacturing Capacity: Cathode Active Material (CAM) Demand and Supply (t, 2025)



Source: McKinsey, Battery 2035: Building new advantages, 1 January 2026

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

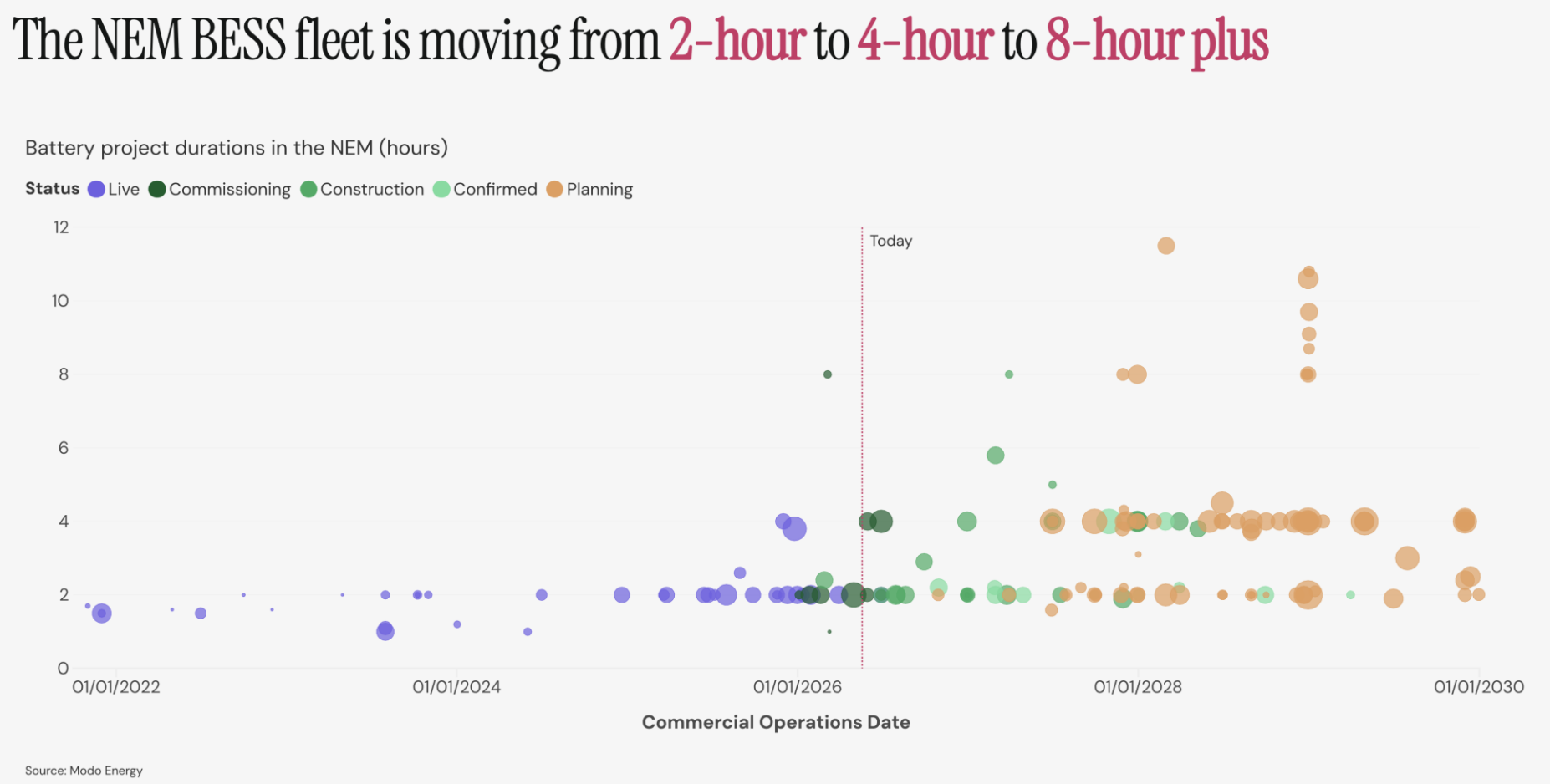
China's global cleantech exports by value, Monthly (US$m)



https://ember-energy.org/data/china-cleantech-exports-data-explorer/

BESS is covering longer and longer durations

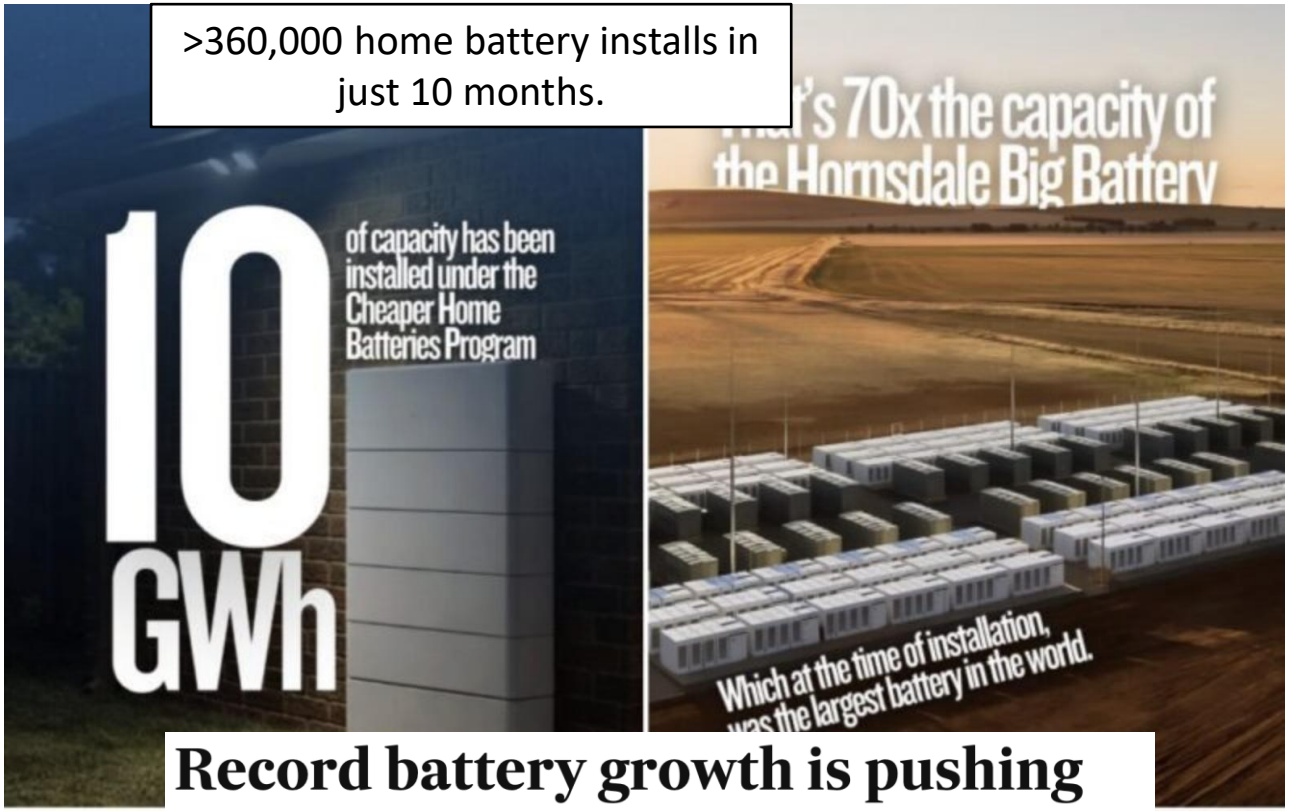
BESS is eating gas' dinner, as Solar ate Coal power's lunch



Source: Modo Energy's Wendel Hortop, May 2026

Australia: $8bn Home Battery Scheme is World leading

Solar + BESS + V2G => Accelerated Energy System Transformation



>360,000 home battery installs in just 10 months.

4 weeks later we are at >400,000 installs and 11.4GWh.

Budget 2026 has $8bn funding.

Record battery growth is pushing power prices down

Ryan Cropp *Energy and climate reporter*

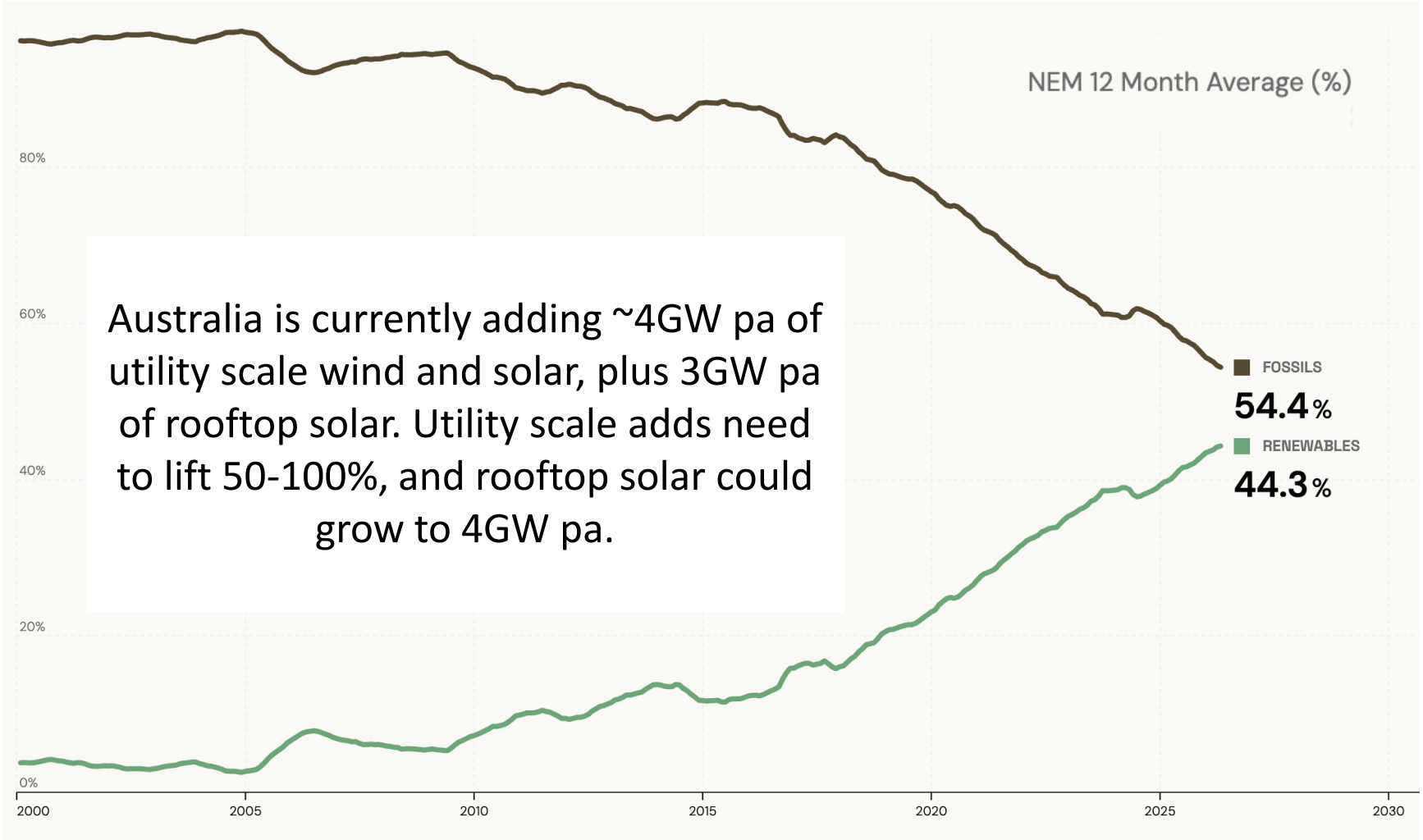
Apr 30, 2026 – 12.01am

FINANCIAL REVIEW

Source: Chris Bowen LinkedIn post via Giles Parkinson @ Renew Economy

Australia's NEM Moving Towards 82% Renewables

Moving towards 82% renewables by 2030; good progress, but we need to go faster



Source: TSI's Open Electricity

Open Electricity

CEF's Report Advocating for Carbon Pricing

Climate Energy Finance
05 June 2025

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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.

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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.

Source: Climate Energy Finance, https://climateenergyfinance.org/wp-content/uploads/2025/06/CEF_A-Price-on-Carbon-Building-Towards-an-Asian-CBAM-Report_05June2025.pdf