



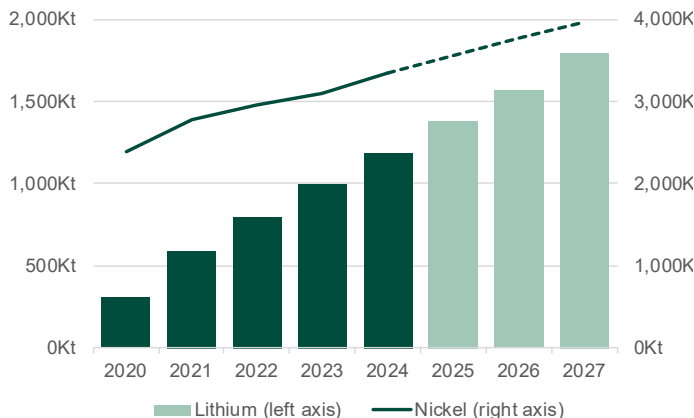
Western Australia Battery and Critical Minerals Profile – January 2026

Battery minerals are minerals used in rechargeable batteries, such as lithium, nickel, cobalt, graphite, manganese, high purity alumina, tin, tantalum, magnesium, and vanadium. The definition of critical minerals is more subjective; jurisdictions use different definitions based on the minerals they deem to be critical to their economy and industries of strategic importance, as well as how sensitive certain minerals are to changes in global supply.

The Australian Government maintains the [Critical Minerals List and Strategic Materials List](#) for Australia. Minerals on these lists are essential to Australia's net-zero transition, advanced manufacturing, defence technologies and capabilities, and broader strategic applications. These minerals also have geological resource potential in Australia, are in demand from strategic international partners and are vulnerable to supply chain disruption.

Of the minerals included on Australia's critical and strategic minerals lists, this profile focuses on lithium, nickel, cobalt, and rare earth elements.

Demand and outlook¹



Note – Forecasts start in 2026. Kt = Thousand tonnes of lithium carbonate equivalent. ¹ Consumption of nickel and demand of lithium. Demand is ahead of consumption by around 12 months due to the time taken to manufacture batteries.

Source: Office of the Chief Economist, Resources and Energy Quarterly (December quarter 2025).

- The global push to meet net-zero emissions targets is creating more demand for battery and critical minerals.
- World lithium demand rose 18% to 1.19 million tonnes in 2024. The Office of the Chief Economist forecasts world lithium demand will rise 51% to 1.79 million tonnes between 2024 and 2027.
- World nickel consumption rose 8% to 3.35 million tonnes in 2024. The Office of the Chief Economist forecasts world nickel consumption will rise 19% to 3.97 million tonnes between 2024 and 2027.
- World cobalt demand rose 6% to 191,000 tonnes in 2024. S&P Global Market Intelligence forecasts world cobalt demand will rise 27% to 242,000 tonnes between 2024 and 2027.
- Electric vehicles are a major driver of battery minerals demand. In 2024, global electric car sales rose 28% to 17.5 million. Under the International Energy Agency's Stated Policy Scenario, global electric car sales will more than double to 40.0 million by 2030.

Western Australia's battery and critical minerals industry

Western Australia accounts for a large proportion of the world's production of many battery and critical minerals, producing over 40 per cent of the world's lithium and being among the top five producers of nickel, cobalt, and rare earths in 2024. Western Australia has advanced along the battery and critical minerals value chain in recent years, with lithium hydroxide now produced at processing plants in Kwinana and Kemerton, including Covalent Lithium's first battery-grade output from its Kwinana refinery in August 2025.

Prices for some battery and critical minerals increased significantly in 2021 and 2022, which incentivised an increase in global supply and led to prices falling in 2023 and 2024, returning to around their 2021 levels. The price volatility has been challenging for producers and led to Albemarle placing one of the trains at its Kemerton processing plant into care and maintenance in July 2024, Tianqi Lithium halting Phase 2 of construction at its Kwinana processing plant in January 2025, and BHP suspending its Nickel West operations from October 2024. In response, the Western Australian Government introduced support measures, including the Nickel Financial Assistance Program and the Lithium Industry Support Program.

Despite recent challenges, the longer-term prospects for battery and critical minerals are positive. An indication of this was the signing of the Australia-US critical minerals framework in October 2025. This agreement commits at least US\$2 billion to fast-track an US\$8.5 billion project pipeline supporting defence and advanced technologies. Western Australia is expected to be a major beneficiary of the framework through investments in projects like the Wagerup gallium refinery and Browns Range rare earths operation, with potentially more projects to follow.

Minerals¹ production and resources: 2024

Mineral	Production		Resources	
	WA share of Aust. (%)	WA share of world (%)	WA share of Aust. (%)	WA share of world (%)
Cobalt	100	2	68	11
Copper	9	0.3	8	1
Graphite	n.a.	n.a.	21	n.a.
Lithium	99	42	98	23
Manganese	18	3	75	22
Nickel	100	3	90	17
Rare earths	100	8	50	3
Vanadium	n.a.	n.a.	53	25
Zinc	4	0.4	8	2
Zircon	22	7	34	27

Note – Western Australia's global rankings and world shares presented in the table may differ from similar content in other parts of this report due to a different data source. n.a. not applicable or available.

¹ Includes a selection of minerals for which Western Australia has a significant share of global production or resources.

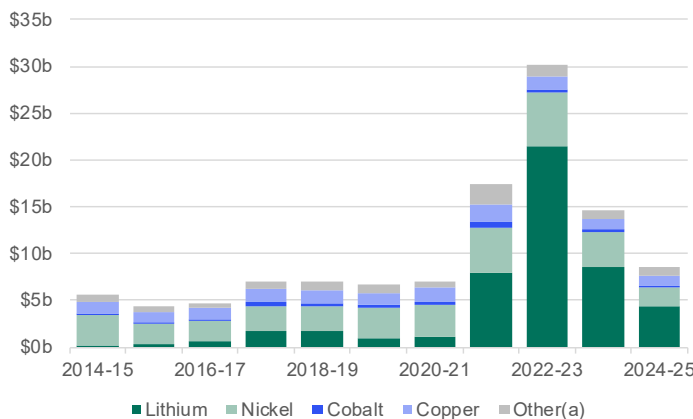
Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files; Geoscience Australia, Australia's Identified Mineral Resources 2024; and US Geological Survey, Mineral Commodity Summaries.

Note on lithium volumes: Lithium is produced as different compounds, so lithium volumes are reported in different units. This profile uses the volumes as originally reported in the source documents. As a guide, the lithium content of lithium carbonate is around 19%, so volumes reported in lithium carbonate equivalent (or LCE) are around 5.3 times higher than volumes reported in lithium content.



Contribution to the Western Australian economy

Sales value

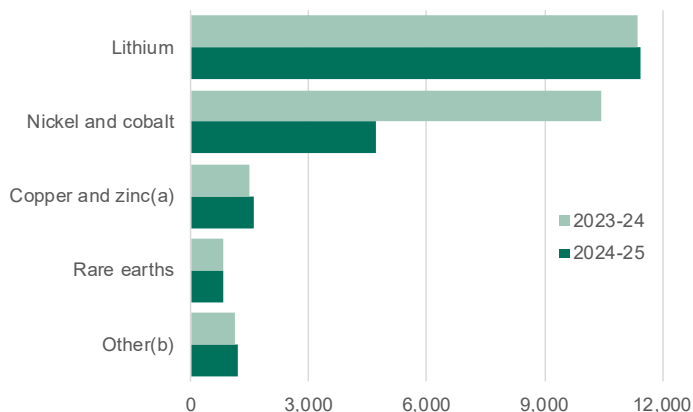


Note – The value of some minerals in the 'other' category is not included in the total for some years due to confidentiality restrictions. (a) Includes zircon, zinc, manganese, rare earths, platinum group elements, silica sands, tantalum, tin and chromite.

Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files.

- Lithium (spodumene) accounted for 50% of the value of Western Australia's battery and critical minerals sales in 2024-25, with nickel accounting for 25% and copper 12%.
- Significant falls in the price for some minerals, as well as lower production volumes for nickel, led to the value of Western Australia's battery and critical minerals sales falling 41% to \$8.6 billion in 2024-25. This fall came after a 51% decrease in the value of battery and critical minerals sales in 2023-24.
- In 2024-25, the sales value of:
 - lithium (spodumene) fell 49% to \$4.3 billion
 - nickel fell 44% to \$2.1 billion
 - copper fell 11% to \$995 million
 - cobalt fell 30% to \$155 million.

Employment¹

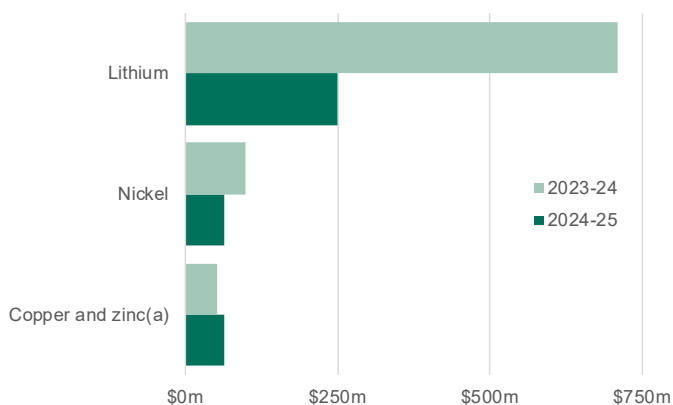


¹ Direct full-time equivalent (FTE). Includes operational and construction employment. (a) Includes lead. (b) Includes manganese, silica and silica sand, zircon, phosphate, vanadium, and magnesite.

Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files.

- Direct full-time equivalent (FTE) employment in Western Australia's battery and critical minerals industry fell 22% to 19,733 in 2024-25, due mainly to a large fall employment in the nickel and cobalt industry.
- In 2024-25, direct FTE employment in the:
 - lithium industry increased by 0.4% to 11,435
 - nickel and cobalt industry fell 55% to 4,698
 - copper and zinc industry rose 5% to 1,579
 - rare earths industry slightly fell by 0.5% to 830.

Royalty revenue



(a) Includes lead.

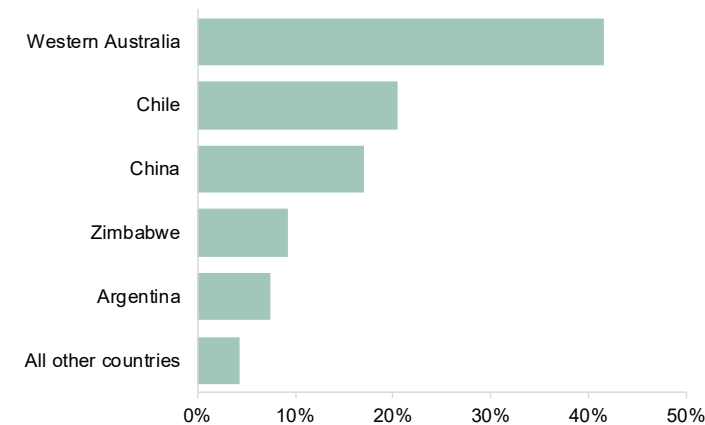
Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files.

- Western Australia has a 5% royalty rate on the value of lithium concentrate (spodumene) feedstock.
- Lithium royalties fell 65% to \$249 million in 2024-25.
- Lithium accounted for 2% of Western Australia's royalty revenue (including North West Shelf grants) in 2024-25.
- Western Australia has a 2.5% royalty rate on the value of nickel sold. In 2024-25, the nickel industry received support through the WA Government's Nickel Financial Assistance Program, which provided a 50% rebate on royalties paid on nickel sales each quarter between March 2024 to June 2025, if the average price of nickel in concentrate was below US\$20,000 a tonne for a given quarter.
- Nickel royalties fell 35% to \$64 million in 2024-25.
- Nickel accounted for 1% of Western Australia's royalty revenue (including North West Shelf grants) in 2024-25.



Lithium

Lithium supply (share of world)¹: 2024



¹ Lithium content from mine production.

Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files, and US Geological Survey, Mineral Commodity Summaries.

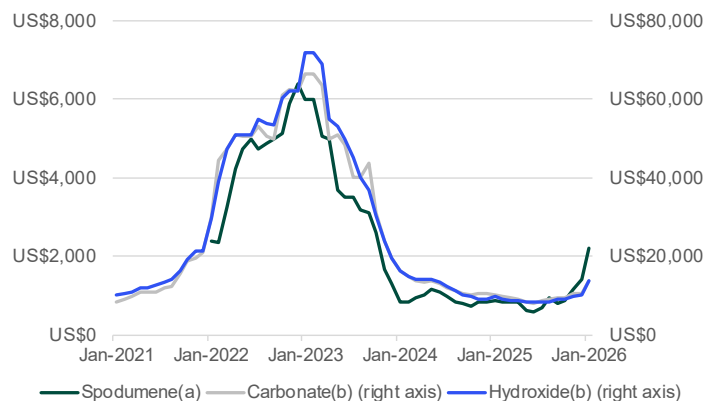
Western Australia's lithium¹ sales



¹ Spodumene concentrate. Index 2023-24 = 100.

Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files.

Lithium prices¹



¹ Price per tonne. (a) Cost, insurance, and freight Asia. (b) Concentrate free-on-board Australia.

Note – Spodumene concentrate prices are available from January 2022.

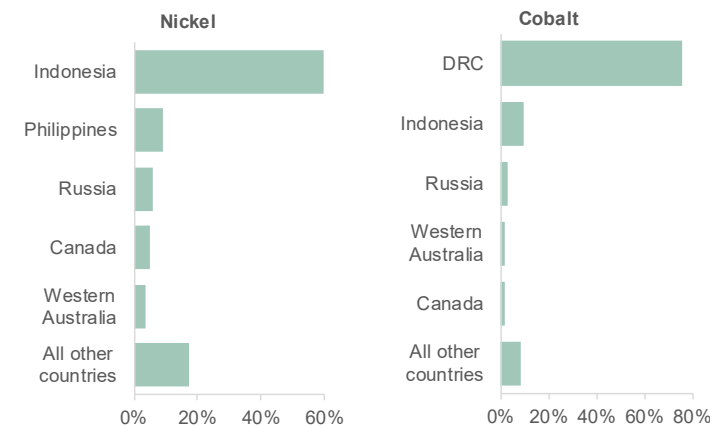
Source: S&P Global Market Intelligence.

- Lithium's main use is in rechargeable batteries (for mobile phones, laptops, digital cameras and electric vehicles), which accounts for 80% of global lithium consumption.
- Western Australia (42%) was the largest lithium supplier in the world in 2024, followed by Chile (20%), China (17%), Zimbabwe (9%) and Argentina (8%).
- The average cost of Western Australia's lithium supply, which is largely spodumene concentrate, is competitive against other major lithium suppliers.
 - The average total cash cost of Western Australia's lithium production was US\$4,701 a lithium carbonate equivalent (LCE) in 2024. This was 36% below the world average (US\$7,293 a LCE), 73% lower than Chile's average total cash cost (US\$17,657 a LCE) and 15% lower than China's average total cash cost (US\$5,552 a LCE).
- The value of Western Australia's lithium sales fell 49% to \$4.3 billion in 2024-25, which was the net result from the:
 - average unit price of sales falling 53%
 - quantity of sales increasing 7% to 3.8 million tonnes.
- Greenbushes is Western Australia's largest lithium mine, accounting for 37% of the State's lithium production in 2024, followed by Pilgangoora (16%), Mt Marion (14%) and Wodgina (10%).
- Spodumene concentrate production capacity in Western Australia has increased in recent years from:
 - The Early Grey lithium mine (as part of the Mt Holland project), which began production in March 2024 with a capacity of 400,000 tonnes a year.
 - The Kathleen Valley lithium project, which began production in July 2024.
 - The P1000 expansion of the Pilgangoora lithium operation, which will increase the project's production by 47% to 1 million tonnes a year.
- Lithium prices fell significantly from their peak in 2023 due to a large rise in global supply and slowing demand from China's electric vehicle sector. Prices were more stable in 2025 and then increased sharply in January 2026, owing to higher demand for energy storage systems, supply constraints from some mines, and a bringing forward of demand after the announcement of the phase-out of tax rebates for exports of battery products in China.
- In January 2026, the monthly average price for:
 - lithium spodumene was US\$2,200 a tonne, 54% higher than previous month and 153% higher than a year ago
 - lithium hydroxide was US\$13,800 a tonne, 33% higher than the previous month and 40% higher than a year ago
 - lithium carbonate was US\$13,750 a tonne, 30% higher than the previous month and 36% higher than a year ago
- Prior to the January 2026 price increase, the Office of the Chief Economist forecasted the annual average price for:
 - lithium spodumene to be US\$900 a tonne in 2026 and US\$950 a tonne in 2027
 - lithium hydroxide to be US\$10,250 a tonne in 2026 and US\$12,250 a tonne in 2027.



Nickel and cobalt

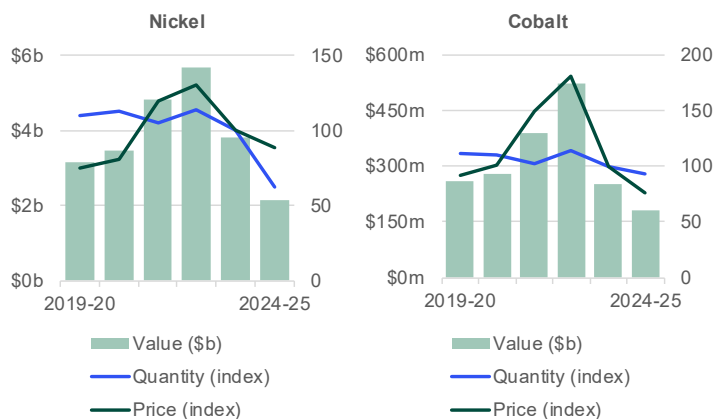
Nickel and cobalt supply (share of world)¹: 2024



DRC = Democratic Republic of Congo. ¹ Nickel and cobalt content from mine production.
Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files, and US Geological Survey, Mineral Commodity Summaries.

- Nickel is mainly used to make stainless steel. Around 15% of the world's nickel consumption is for batteries.
- Western Australia is the 5th largest nickel supplier in the world, accounting for 3% of global supply in 2024.
- Indonesia is by far the largest nickel supplier in the world, accounting for 59% of global nickel supply in 2024.
- Cobalt is mainly used in rechargeable battery electrodes. Over 80% of the world's consumption of cobalt is for manufacturing rechargeable batteries.
- Western Australia is the 4th largest cobalt supplier in the world, despite accounting for only 2% of global supply in 2024.
- The DRC is by far the largest cobalt supplier in the world, accounting for 76% of global cobalt supply in 2024.

Western Australia's nickel and cobalt sales



Index 2023-24 = 100.
Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files.

- The value of Western Australia's nickel sales fell 44% to \$2.1 billion in 2024-25, as a result of the:
 - average unit price of sales falling 11%
 - quantity of sales falling 37% to 87,927 tonnes.
- The value of Western Australia's cobalt sales fell 29% to \$179 million in 2024-25, as a result of the:
 - average unit price of sales falling 24%
 - quantity of sales falling 7% to 4,773 tonnes.
- Murrin Murrin is Western Australia's largest nickel mine, accounting for 35% of the State's paid nickel mine production in 2024. The Murrin Murrin mine also accounted for 82% of the State's paid cobalt mine production in 2024.
- BHP suspended its Nickel West operations in October 2024. Nickel West's two largest mines, Mt Keith and Leinster, accounted for 33% of the State's paid nickel mine production in 2024.

Nickel and cobalt prices¹



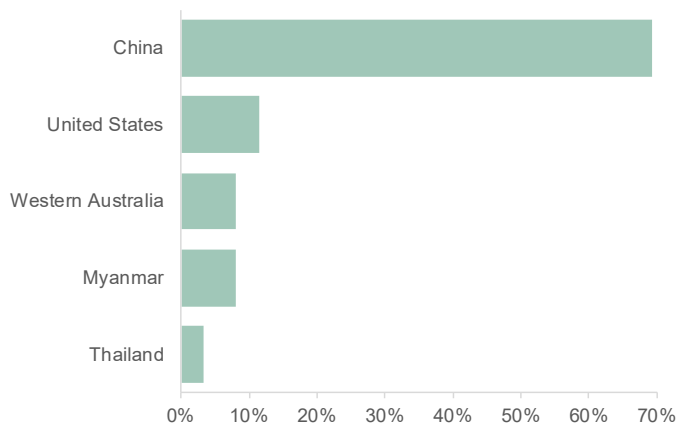
¹ Price per tonne, London Metal Exchange (LME) Cash.
Source: S&P Global Market Intelligence.

- Nickel and cobalt prices fell sharply in 2023 and 2024 as global supply rose and demand from China's electric vehicle sector weakened.
- The cobalt price increased sharply in March 2025 after the DRC announced an export ban. In September 2025 it was announced that from October 2025 the export ban would be replaced with a quota system that will remain in place until at least 2027, which led to another increase in the price.
- In January 2026, the monthly average price for:
 - nickel was US\$17,733 a tonne, 7.5% higher than the previous month, and 17% higher than a year ago
 - cobalt was US\$55,845 a tonne, 5.5% higher than the previous month, and 160% higher than a year ago.
- The annual average price for:
 - nickel was US\$15,269 a tonne in 2025, with the Office of the Chief Economist forecasting a price of US\$15,860 a tonne in 2026 and US\$16,770 a tonne in 2027
 - cobalt was US\$36,801 a tonne in 2025, with S&P Global Market Intelligence forecasting a price of US\$57,771 a tonne in 2026 and US\$51,178 a tonne in 2027.



Rare earths

Rare earths supply (share of world)¹: 2024



¹ Rare earth oxide equivalent content from mine production.

Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files, and US Geological Survey, Mineral Commodity Summaries.

- Rare earths are used in high-tech consumer products and defence applications. For example:
 - neodymium is used in electric vehicle motor magnets and wind turbines
 - praseodymium is used in aircraft engines
 - cerium is used in catalytic converters for cars
 - lanthanum is used in lenses for cameras and telescopes.
- Western Australia is the 3rd largest rare earths supplier in the world, accounting for 8% of global supply in 2024.
- China is by far the largest rare earths supplier in the world, accounting for 69% of global supply in 2024, followed by the United States (12%).

Neodymium prices¹

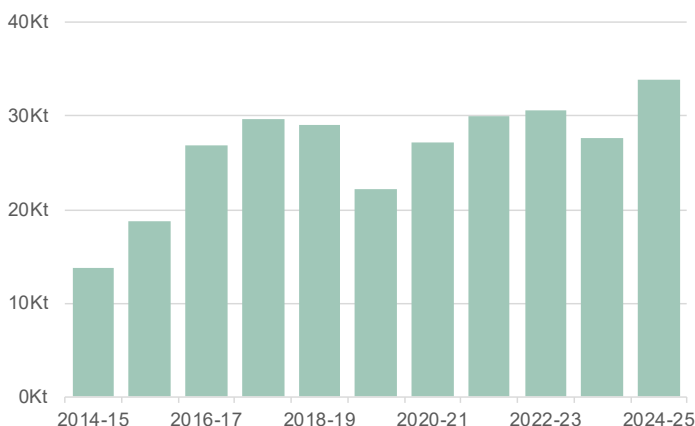


¹ Price per tonne.

Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files.

- Prices for rare earths rose sharply in 2020 and 2021 as demand outstripped supply. Demand for rare earths was high due to its uses in decarbonisation-based applications. However, with a ramp up of global production of rare earths, especially in China, the price of rare earths fell back to near pre-2020 levels.
- Increased interest in rare earths in 2025 led to a rise in prices, which has continued in early 2026. The monthly average neodymium price rose 14% to US\$118,951 a tonne in January 2026.
- The annual average neodymium price rose 28% to US\$86,945 a tonne in 2025.

Western Australia's rare earths sales



Kt = Thousand tonnes.

Source: WA Department of Mines, Petroleum and Exploration, Resource Data Files.

- The quantity of Western Australia's rare earths sales rose 22% to 33,850 tonnes in 2024-25.
- Sales values for rare earths are not available for most years due to data confidentiality restrictions.
- Western Australia's rare earths production mainly comes from the Mt Weld mine. The production capacity of Mt Weld was expanded to supply a rare earths processing plant in Kalgoorlie, which started operating in 2024 and can produce 38,000 tonnes of rare earths carbonate a year.
- Other rare earths projects in Western Australia include:
 - The Yangibana rare earths project (37,000 tonnes a year starting in 2025)
 - The Eneabba rare earths refinery (20,000 tonnes a year starting in 2027)
 - The proposed developments of Browns Range Stage 2 (4,350 tonnes of total rare earths oxides a year), North Stanmore Heavy Rare Earths (throughput of 8 million tonnes of ore a year), and Cummins Range rare earths and phosphate (12,000 tonnes of mixed rare earths concentrate).