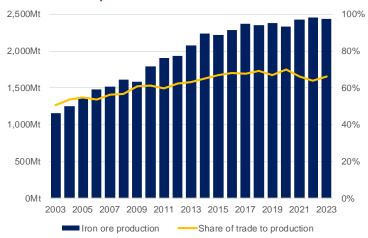
WESTERN AUSTRALIA IRON ORE PROFILE – August 2024

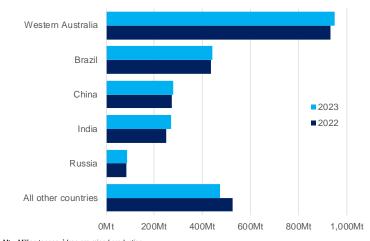
Global iron ore production and trade¹



Mt = Million tonnes. ¹ China's iron ore production adjusted to world average. Source: Office of the Chief Economist – Resources and Energy Quarterly.

- The volume of global iron ore production increased rapidly from the early 2000s to the mid-2010s, largely in response to higher demand from China. Production volumes were relatively stable from 2017 to 2019, fell in 2020 due to the COVID-19 pandemic, but then grew in 2021 as China's post-pandemic stimulus led to higher demand.
- Global iron ore production was 2,442 million tonnes in 2023, 0.6% lower than in 2022.
- The share of iron ore trade in global iron ore production has also increased since the early 2000s, as China sourced a greater proportion of its iron ore supply from imports.
 - The share of iron ore trade to global iron ore production increased from 51% in 2003 to 66% in 2023

Major global iron ore suppliers¹



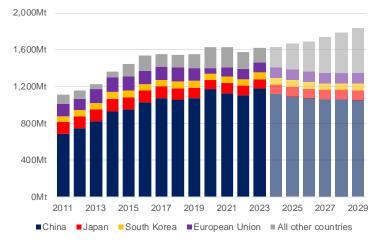
Mt = Million tonnes. ¹ Iron ore mined production.
Source: USGS, Iron Ore Statistics and Outlook – Mineral Commodity Summaries –2024.

- Western Australia is the largest iron ore supplier in the world, accounting for 38% of global supply in 2023, followed by Brazil (18%).
- China (11%), India (11%) and Russia (4%) are major global iron ore producers, but retain most of the iron ore they produce for domestic steel manufacturing.
- In 2023, iron ore supply from:
 - Western Australia rose 2% to 949 million tonnes
 - Brazil rose 1% to 440 million tonnes
 - China rose 3% to 280 million tonnes
 - India rose 8% to 270 million tonnes

Russia rose 5% to 88 million tonnes.

 Over the next few years, a significant increase in iron ore supply is expected from the Simandou project in Guinea, which is currently under construction with first production scheduled for late 2025 or early 2026. The long-term production capacity of Simandou is potentially in excess of 150 million tonnes a year.

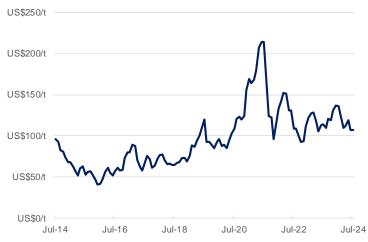
Iron ore imports by market



Mt = Million tonnes
Source: Office of the Chief Economist – Resources and Energy Quarterly.

- China's share of global iron ore trade has increased over time as the volume of its imports has increased and the volume of Japan's imports has fallen. In 2023:
 - China imported 1,180 million tonnes (73% of global iron ore imports)
 - Japan imported 102 million tonnes (6% of global iron ore imports)
 - South Korea imported 72 million tonnes (4% of global iron ore imports).
- The Office of the Chief Economist forecasts that China's iron ore imports will fall from 2024, but that global iron ore trade volumes will increase as the fall in China's imports is offset by higher imports from other countries. Key to this forecast is a large increase in iron ore imports from India (from 5 million tonnes in 2023 to 89 million tonnes in 2029) and the rest of Asia (from 53 million tonnes in 2023 to 117 million tonnes in 2029).

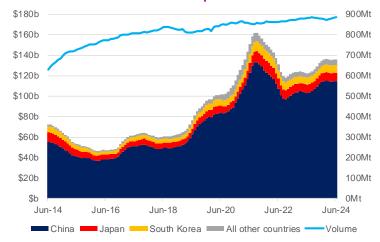
Iron ore price1



¹ The monthly average benchmark (62% iron content) iron ore price delivered to China inclusive of cost and freight Source: World Bank, Commodity Markets.

- The iron ore price has fallen through 2024, with downward pressure on the price coming from a weakening in Chinese steel production, steady global iron ore supply and a build-up of port inventories in China.
 - The average monthly iron ore price was US\$106.8 a tonne in July 2024, 0.6% lower than the previous month and 22% lower than in December 2023.
- The WA Government State Budget 2024-25 forecasts the iron ore price will average US\$75.0 a tonne in 2024 25 and US\$71.0 a tonne in 2025-26, reflecting a forecasting approach of the iron ore price returning to its long-term average.

Western Australia's iron ore exports¹

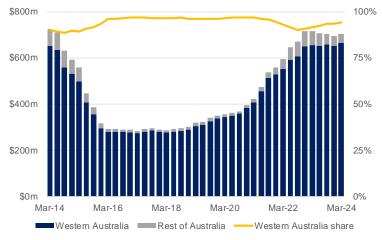


¹ 12-month rolling total for both value and volume. Mt = Million tonnes.

Source: Based on data from ABS International Trade in Goods and Services, Australia.

- The volume of Western Australia's iron ore exports over a 12-month period reached a record high in June 2024 of 887.7 million tonnes.
- The value of Western Australia's iron ore exports in the 12 months to June 2024 was \$136.1 billion, 11% higher than in the 12 months to June 2023.
- China is by far Western Australia's largest market for iron ore, accounting for 80% of the total value of the State's iron ore exports since 2016.
- In the 12 months to June 2024, the value of Western Australia's iron ore exports to:
 - China was \$114.9 billion (84% of the total)
 - Japan was \$8.3 billion (6% of the total)
 - South Korea was \$7.5 billion (5% of the total)
 - All other countries was \$5.4 billion (4% of the total).

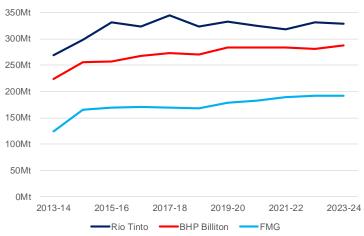
Iron ore exploration expenditure¹



¹ 12-month rolling total.
Source: Based on data from ABS Mineral and Petroleum Exploration, Australia.

- Higher iron ore prices in recent years have led to greater expenditure on iron ore exploration in Western Australia.
- In the four quarters to March 2024, expenditure on iron ore exploration in Western Australia was \$664 million, 1.4% higher than in the four quarters to March 2023.
- Western Australia accounts for nearly all of Australia's iron ore production and iron ore reserves, and therefore nearly all expenditure:
 - In the four quarters to March 2024, Western Australia accounted for 94% of total iron ore exploration expenditure in Australia.

Western Australia's iron ore sales by major producer¹



Mt = Million tonnes. ¹ Western Australian operations only. Inclusive of third party tonnes. Wet tonnes. Source: Rio Tinto, BHP and Fortescue Metals Group Investor Information, Operations reports.

- Rio Tinto, BHP and FMG are the largest global iron ore producers behind Vale from Brazil.
- Rio Tinto's iron ore sales volumes from Western Australia fell 1.0% to 328 million tonnes in 2023-24. Production guidance for 2024 is 323 to 338 million tonnes. Rio Tinto's rail and port capacity is 360 million tonnes a year and it is developing new mines to enable its production to meet this capacity.
- BHP's iron ore sales volumes from Western Australia rose 2.5% to 288 million tonnes in 2023-24. Production guidance for 2024-25 is 282 to 294 million tonnes. BHP is expanding its port capacity to 330 million tonnes a year.
- FMG's iron ore sales volumes from Western Australia fell 0.3% to 192 million tonnes in 2023-24 and its sales guidance for 2024-25 is 190 to 200 million tonnes. FMG is expanding its port capacity to 210 million tonnes a year for the additional production from its Iron Bridge project.

Major iron ore projects¹ in Western Australia

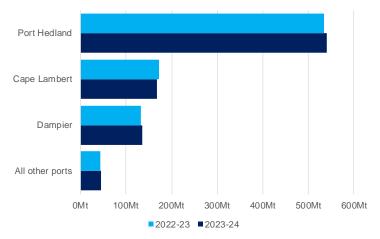
Operator	Mine/deposit	Capex (\$m)	Capacity (Mtpa)	Fe content ²	Start of operations	
Recently cor	mpleted					
FMG	Eliwana	1,800	30	60	2020	1
GWR Group	Wiluna West	200	10	60	2020	
Atlas Iron	Sanjiv Ridge	53	5	57	2020	1
BHP	South Flank	4,700	80	62	2021	1
Rio Tinto	West Angelas C+D	735	n.a.	62	2021	1
Mt Gibson	Shine	20	1.5	59	2021	1
Rio Tinto	Western Turner Syncline 2	1,000	30	62	2021	Ī
Rio Tinto	Gudai-Darri	4,300	43	59	2022	1
Rio Tinto	Robe Valley	1,200	n.a.	62	2022	1
FMG	Iron Bridge 2*	5,600	22	67	2023	1
MRL	Onslow Iron	2,500	30	58	2024	1
Under const	ruction or committed					1
Rio Tinto	Western Range	3,000	25	62	2025	1
ВНР	Western Ridge Crusher	943	25	n.a	2027	

Mtpa = million tonnes per annum. n.a. – not available or not applicable. * Magnetite. ¹ Includes mines and rail and port infrastructure. ² Product grade if available, otherwise reserve grade for direct shipping ores.

Source: S&P Global Market Intelligence; CRU, Iron Ore Market Outlook – Project list; and company investor information (propulations)

- Rio Tinto started developing its Western Range project in early 2023, with annual production of 25 million tonnes of iron ore expected to start in 2025. Rio Tinto has also approved a \$110 million pre-feasibility study to progress development of the 40 million tonnes a year Rhodes Ridge project.
- BHP completed its development of South Flank in May 2021, which is ramping up production to 80 million tonnes a year by 2024. BHP has announced approval for the Western Ridge Crusher Project, expected to deliver an average of 25 million tonnes of iron ore annually from 2027, replacing production volumes from other depleting orebodies around Newman
- Fortescue Metals Group (FMG) has developed Iron Bridge (Magnetite) Stage 2. The project will produce 22 million tonnes a year of high-grade magnetite concentrate.
- Construction on Mineral Resources Limited's (MRL) Onslow Iron project began in August 2022. MRL delivered first ore on ship in May 2024, ahead of schedule.

Western Australia's iron ore exports by port

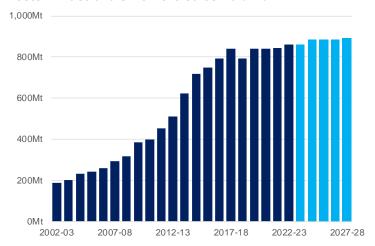


Mt = Million tonnes.
Source: Based on data from ABS International Trade in Goods and Services, Australia.

- Port Hedland accounted for 61% of Western Australia's iron ore export volumes in 2023-24 The next largest ports in Western Australia for iron ore export volumes in 2023-24 were Cape Lambert (19%) and Dampier (15%).
- In 2023-24, the volume of iron ore exports from:
 - Port Hedland rose 1% to 540 million tonnes
 - Cape Lambert fell 2% to 168 million tonnes
 - Dampier rose 1% to 135 million tonnes
 - All other ports rose 2% to 44 million tonnes.
- The Port of Port Hedland is planning to increase iron ore export capacity to 660 million tonnes a year. FMG has approval to expand its material handling capacity at Herb Elliott Port to 210 million tonnes a year.

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Western Australia's iron ore sales volume

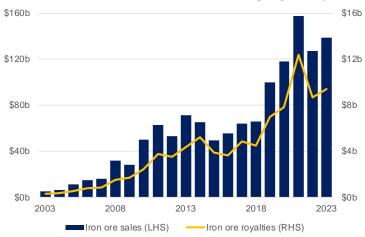


Mt = Million tonnes.

Source: WA Department of Energy, Mines, Industry Regulation and Safety, Resource Data Files; and WA Government State Budget 2024-25 (May 2024).

1 S&P Global Market Intelligence.

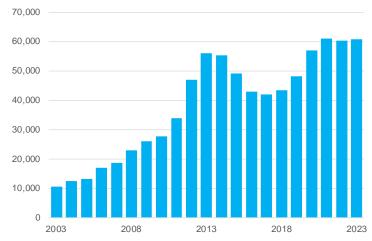
Western Australia's iron ore sales and royalty receipts¹



Regulation 86A of the Mining Regulations 1981 requires that royalties be paid within 30 days following the end of a quarter. As a result, cash receipts are necessarily offset by one quarter. The value of royalty receipts is different to the value of royalty income published in State Budget papers, which is accounted for in the year the royalty liability is accured, rather than paid. Source: WA Department of Energy, Mines, Industry Regulation and Safety, Resource Data Files.

- The volume of Western Australia's iron ore sales increased rapidly from the early 2000s and has settled at a high level.
 A modest increase is expected over the next few years.
- The WA Government State Budget 2024-25 forecasts Western Australia's iron ore sales volumes will increase from 862 million tonnes in 2023-24 to 886 million tonnes in 2024-25, hold at 885 million tonnes in 2025-26 and 2026-27 and then increase to 893 million tonnes in 2027-28.
- Western Australia produced mainly iron ore fines (73%) in 2023, followed by lump (23%) and concentrate (4%).¹
 - Major iron ore fines products in 2023 were FMG's Chichester Hub Fines (97.3 million tonnes), BHP's Mining Area C Fines (85.7 million tonnes) and FMG's Solomon Hub Fines (66.7 million tonnes).
 - Major iron ore lump products in 2023 were BHP's Mining Area C Lump (36.1 million tonnes), Rio Tinto's Brockman Lump (26.1 million tonnes) and Hancock Prospecting's Roy Hill Lump (24.4 million tonnes).
 - Iron ore concentrates in 2023 were from CITIC Pacific's Sino Iron (19.5 million tonnes) and FMG's Iron Bridge (10.9 million tonnes) operations.
- The value of Western Australia's iron ore sales increased 9% to \$139.1 billion in 2023.
 - The peak value of Western Australia's iron ore sales in a calendar year was \$157.8 billion in 2021, when the iron ore price averaged over US\$160 a tonne.
- The Western Australian Government's iron ore royalty receipts increased 8% to \$9.4 billion in 2023.
 - The peak value of iron ore royalty receipts in a calendar year was \$12.4 billion in 2021.
- In 2023, iron ore royalties accounted for 83% of Western Australia's royalty receipts (excluding North West Shelf grants).
- The WA State Budget 2024-25 forecasts iron ore royalty income will decline to \$5.7 billion in 2027-28, based on the assumption that the iron ore price will return to its long-term average.

Western Australia's iron ore industry employment¹



¹ Direct employment. Full-time equivalent (average on site). Source: WA Department of Energy, Mines, Industry Regulation and Safety, Resource Data Files.

- Direct full-time equivalent employment in Western Australia's iron ore industry increased 0.7% (423) to 60,695 in 2023.
- Iron ore accounted for 47% of direct full-time equivalent employment in Western Australia's minerals mining industry in 2023 (excluding exploration).
- Western Australia's largest employing iron ore mine sites in 2023 were:
 - BHP's Mining Area C Open Pit and Processing: 4,103 full-time equivalent employees
 - FMG's Solomon Open Pit and Processing:
 3,840 full-time equivalent employees
 - Roy Hill Open Pit and Processing: 3,711 full-time equivalent employees.

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