

LITHIUM

INVESTMENT OPPORTUNITIES

WORLD-CLASS RESOURCE PROVINCE | SECURE INVESTMENT LOCATION
WORLD-LEADING GEOSCIENTIFIC DATA | GLOBAL MINING SERVICES INDUSTRY

Mines, deposits and prospects

- Mine, operating or under development
- Deposit
- Prospect
- Highway / major road
- Town



Western Australia possesses abundant lithium resources, affording a strategic advantage in meeting rising global demand for lithium

- Western Australia continues to position itself as a battery minerals hub due to its endowment of mineral resources, access to skilled workers and proximity to key markets
- Western Australia is the world's largest supplier of lithium, producing high-quality spodumene concentrate from seven mining operations
- Over 3 Mt of lithium concentrate were produced in 2022–23 from open pits at the Pilgangoora, Greenbushes, Mt Marion, Mt Cattlin, Bald Hill and Wodgina projects
- Positive scoping studies were completed at the Pioneer Dome and Manna Lithium projects, and work has commenced on a Feasibility Study for both projects
- Widgie Metals has fast-tracked the Mt Edwards project for a direct shipping ore (DSO) opportunity and potential for a larger scale mining proposition
- Mineral Resources entered into agreements with Albemarle for downstream lithium investments and a new joint venture
- Albemarle made a final investment decision to build Kemerton trains III/IV and their construction has commenced
- Maiden Mineral Resources were announced for the Yinnetharra–Malinda (Delta Lithium), Split Rocks (Zenith Minerals), Mt Edwards Lithium (Widgie Nickel) and King Tamba (Krakatoa Resources) projects
- New lithium discoveries include at the Kangaroo Hills (Auroch Minerals), Mt Ida (Delta Lithium), Riverina (Ora Banda Mining), Andover (Azure Minerals), Mallina (Morella Corporation), Morrissey Hill (Reach Resources) and Tabba Tabba (Wildcat Resources) projects
- Significant exploration results continue across many lithium projects, including Mt Edwards (Widgie Nickel), Mt Deans (Aruma Resources), Andover (Azure Minerals) and Mt Ida (Delta Lithium)

\$20 900 m
Sales value



3 191 946 t
Tonnes sold



8092[^]
Full-time employees



\$10 976 m*
Investment projects



1st
Production world ranking



5.0%
Royalty rate



(2022–23 financial year)

* Includes projects planned, possible, committed or under construction as of September 2023

[^] Total of tin, tantalum and lithium



Department of **Energy, Mines,**
Industry Regulation and Safety

demirs.wa.gov.au

Geological Survey of
Western Australia



Lithium resources ranked by contained Li₂O (kt)

All Resource Estimates compliant with JORC 2012 unless otherwise stated

Project	Status	Owner	Resources (Mt)	Av. grade Li ₂ O (%)	Contained Li ₂ O (kt)	Resource date
Greenbushes	Operating	Albemarle Corporation / Tianqi Lithium / IGO	445.5	1.48	6 547	31/12/2023
Pilgangoora	Operating	Pilbara Minerals	413.9	1.16	4 802	30/06/2023
Mt Holland ^a	Operating	Sociedad Química Y Minera De Chile S.A. / Wesfarmers	186.0	1.53	2 846	31/12/2022
Wodgina Mining Assets	Operating	Albemarle Corporation / Mineral Resources	217.4	1.16	2 517	30/06/2023
Kathleen Valley	Operating	Liontown Resources	156.0	1.35	2 100	31/03/2021
Mt Marion	Operating	Ganfeng Lithium Company / Mineral Resources	64.8	1.43	924	30/06/2023
Manna Lithium	Pre-feasibility	Global Lithium Resources	36.0	1.13	406	26/07/2023
Bald Hill	Operating	Lithco No. 2 Pty Ltd	26.5	0.97	256	30/04/2018
Yinnetharra–Malinda	Exploration	Delta Lithium	24.7	0.98	243	27/12/2023
Marble Bar Lithium Project (MBLP)	Exploration	Global Lithium Resources	18.0	1.00	180	15/12/2022
Mt Ida Lithium	Exploration	Delta Lithium	14.6	1.22	178	03/10/2023
Mt Cattlin	Operating	Arcadium Lithium	13.3	1.29	172	30/06/2023
Buldanía	Exploration	Liontown Resources	15.0	0.97	145	08/11/2019
Dome North	Scoping	Develop Global	11.1	1.15	128	20/12/2022
Split Rocks	Exploration	Zenith Minerals	11.9	0.72	86	28/09/2023
Mt Edwards Lithium	Exploration	Widgie Nickel	2.0	0.69	13	08/11/2023
Niobe/Aldoro	Exploration	Aldoro Resources	4.6	0.07	3	12/10/2022
King Tamba	Exploration	Krakatoa Resources	5.0	0.05	3	09/03/2023
			1 667.6		21 537	

Resource estimates have been rounded

All Mineral Resources are pegmatite-hosted mineralization

^a Mineral Resource are not JORC 2012, but are CRIRSCO compliant

Spatial and resource estimates data sourced from WA Mines and Mineral Deposit database (MINEDEX)

Lithium prospectivity of Western Australia

- Western Australia is ranked fourth globally in terms of lithium resources, and is the world's largest supplier of lithium, producing high-quality spodumene concentrate from several mines
- Lithium is used as a component of rechargeable lithium-ion batteries – driven by the growth of electric vehicle and energy storage system markets
- In Western Australia, hard-rock lithium minerals from pegmatites include spodumene, lepidolite, zinnwaldite, petalite and holmquistite



A sample of Lithium pegmatite

For more information

MINEDEX is a spatial and textual database of mining and exploration activity

MINEDEX www.demirs.wa.gov.au/minedex

GeoVIEW.WA is a free GIS-based spatial viewer

GeoVIEW.WA www.demirs.wa.gov.au/geoview

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The DEMIRS MINEDEX, Statistics, and Geoscience and Titles Information teams have contributed to the production of this flyer



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