

Department of Jobs, Tourism, Science and Innovation

GOVERNMENT OF WESTERN AUSTRALIA

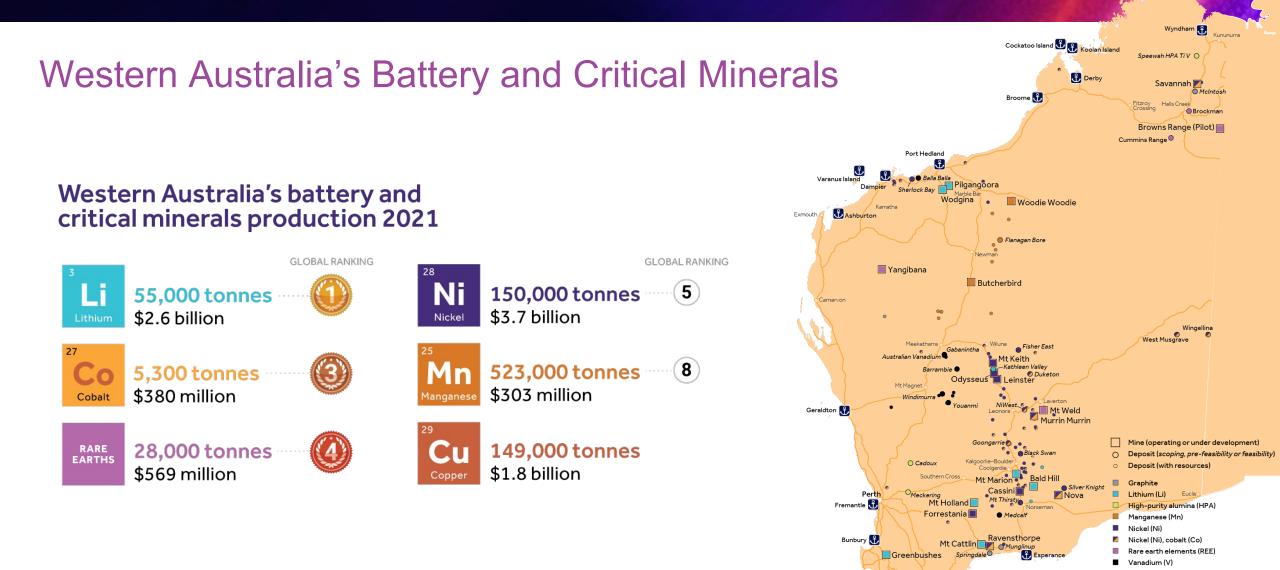
Western Australia's Future Battery and Critical Minerals Industries Strategy

Department of Jobs, Tourism, Science and Innovation

28 September 2022



Government of Western Australia Department of Jobs, Tourism, Science and Innovation





Future Battery and Critical Minerals Industries Strategy

In January 2019, the WA Government launched the Future Battery Industry Strategy, with the aim of increasing downstream processing of WA's battery minerals.

In 2020, the strategy was broadened to include a focus on other critical minerals, such as rare earths ('Future Battery and Critical Minerals Industries Strategy').

Vision: In 2025, Western Australian has a world leading, sustainable, value-adding battery and critical minerals industry that provides local jobs, contributes to skill development and economic diversification and benefits regional communities.

There are two limbs to this vision:

- 1. Transform Western Australia's world leading mining sector into a mineral processing and chemical manufacturing hub for battery and critical minerals ('midstream'); and
- 2. Establish a globally-significant battery manufacturing and recycling industry ('downstream').





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Western Australia: A new chemical manufacturing hub

Western Australia has welcomed billions of dollars of new investment in establishing a number of large-scale battery mineral and rare earth refineries.

These projects are all Australian firsts and represent some of the few facilities to be located outside of China.

Further investment is planned including: battery-grade graphite, vanadium, manganese sulphate, cobalt sulphate, precursor cathode active materials.

Operating/commited 0 Planned – with government funding in place Rare earths Hastings Technology Metals Lithium Production capacity: 🔿 Tiangi Lithium Australia 3,400 tpa NdPr^ Production capacity: Capex: \$650 million 48,000 tpa of lithium hydroxide Capex: \$700 million Lithium Covalent Lithium Vanadium Production capacity: 45,000 tpa of lithium hydroxide Australian Vanadium Capex: \$1.9 billion* Production capacity: 11,200 tpa of vanadium Rare earths Capex: \$600 million Lynas Rare Earths Nickel Production capacity: **BHP Nickel West** 10,500 tpa NdPr ^ Production capacity: Capex: \$500 million^^ Rare earths 100,000 tpa of nickel sulphate Iluka Resources Capex: \$60 million P-CAM Production capacity: 17,500 tpa of rare earth oxides Pure Battery Technologies Graphite Capex: \$1.2 billion Production capacity: Ecograf 50,000 tpa precursor cathode active material (P-CAM) Production capacity: 20,000 tpa of spherical graphite Capex: \$460 million Lithium Capex: \$100 million Albemarle Lithium Production capacity: 50,000 tpa of lithium hydroxide** tpa - tonnes per annum Capex: \$1 billion *inclusive of mine and concentrator ** 100,000 tpa once fully operational



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Contact us...

For more information please refer to Western Australia's new battery and critical mineral prospectus, which is available on the wa.gov.au website.

https://www.wa.gov.au/government/documentcollections/battery-and-critical-minerals-prospectus

Or send me an email...

Ben Laidler Director of Battery and Critical Mineral Industries, JTSI Ben.Laidler@jtsi.wa.gov.au



Western Australia A Global Battery and Critical Minerals Hub



<mark>西オーストラリア州</mark> バッテリーとクリティカルミ ネラルのグローバル拠点

2022年6月

