Australia's first critical minerals subset

The Critical Minerals Strategic Reserve secures an initial subset of critical minerals

Antimony

51 Sb

KEY USES

- Improving flame-retardancy and heat-resistance in storage batteries
- Increasing electrical conductivity and switching speeds in high-powered, specialty electronics

In high demand for defence systems, digital infrastructure, photovoltaics and battery technologies.

Gallium

31 Ga

KEY USES

- Building, debugging and repairing advanced high speed computer chips to deliver high-efficiency power
- Electric vehicles, renewable energy systems, and fast-charging technology
- LED lighting

In high demand for military radar systems, satellite communications, 5G infrastructure.

4 rare earth minerals key to the permanent magnet revolution

Light Rare Earth Elements (LREEs)

Neodymium and Praseodymium

60 Nd 59 Pr

KEY USES

- Enabling power-to-weight efficiency for high-performance neodymium-iron-boron (NdFeB) permanent magnets

Heavy Rare Earth Elements (HREEs)

Dysprosium and Terbium

66 Dy 65 Tb

KEY USES

- Adding to NdFeB magnets to greatly improve their performance and durability in extreme conditions

In demand for electric vehicle drivetrains, wind turbine generators, industrial robotics, aerospace manufacturing and many consumer electronics.

IT TAKES A LITTLE

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