

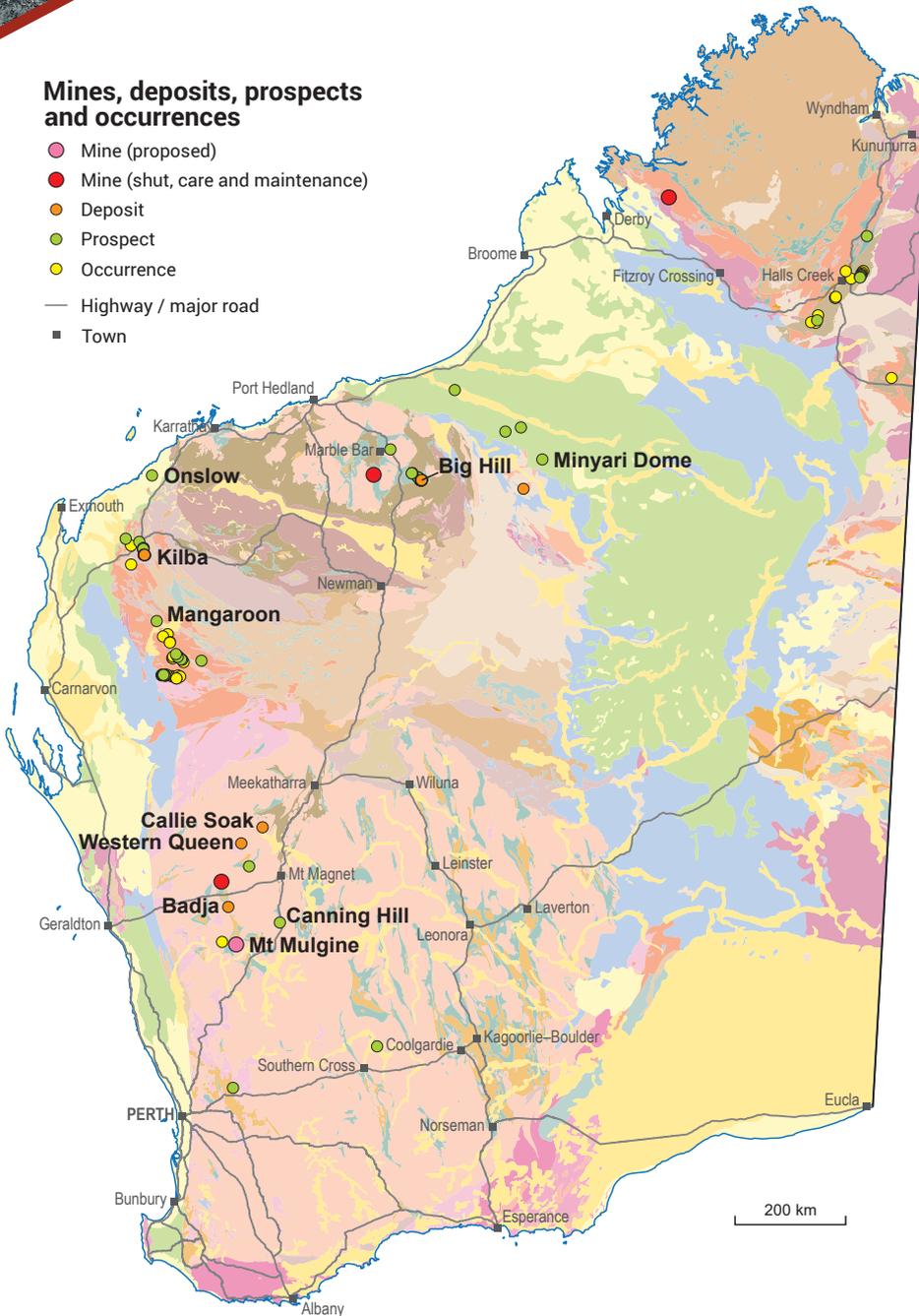
# TUNGSTEN

## INVESTMENT OPPORTUNITIES

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

### Mines, deposits, prospects and occurrences

- Mine (proposed)
- Mine (shut, care and maintenance)
- Deposit
- Prospect
- Occurrence
- Highway / major road
- Town



### Western Australia has tungsten resources of over 340 kt of contained tungsten trioxide (WO<sub>3</sub>)

- Tungsten is classified as a critical raw material and is subject to high supply risk and high economic importance
- Historic production of tungsten in Western Australia was 482 t of WO<sub>3</sub> from concentrate
- In Western Australia, the most common mineral forms are wolframite and scheelite associated with skarn, vein hydrothermal, greisen and pegmatitic mineralisation styles
- Tungsten Mining is currently developing the Mt Mulgine Project, which is at Pre-Feasibility status. The project was originally awarded a grant under the Federal Critical Minerals Development Program in 2023, which has now been extended until March 2026

### Resources

- Maiden Resource of 4.31 Mt at 0.3% WO<sub>3</sub> was estimated for the Western Queen Project (Rumble Resources) and 0.3 Mt at 0.03% WO<sub>3</sub> for the Badja Project (Emu NL)

### Exploration

- High-grade tungsten (scheelite) mineralisation ranging from 0.4 to 25 m thick and 0.6% to 18.4% WO<sub>3</sub> was intersected at several prospects at the Western Queen Project (Rumble Resources). Analysis has confirmed the discovery of a skarn-style mineralisation at the project associated with an orogenic shear zone (host to gold mineralisation). A tungsten anomaly of over 2 km has been identified in the area
- Golden State Mining have identified tungsten mineralisation of up to 0.5% WO<sub>3</sub> at their Canning Hill Project
- Tungsten mineralisation has been intersected within the Minyari Dome (Antipa Minerals), Onslow (Terra Minerals), and the Mangaroon Projects (Dreadnought Resources). The drilling for all three projects was supported through the Western Australian Government's Exploration Incentive Scheme, under its Co-funded Exploration Drilling Program



Department of Mines,  
Petroleum and Exploration

[dmp.e.wa.gov.au](http://dmp.e.wa.gov.au)



Geological Survey of  
Western Australia

# Tungsten projects with resources ranked by contained WO<sub>3</sub> as at August 2025

Mineral Resource Estimates reported in accordance with JORC (2012) unless otherwise stated

Project	Status	Owner	Resources (Mt)	Av. grade WO <sub>3</sub> (%)	Contained WO <sub>3</sub> (t)	Resource date
Mt Mulgine	Pre-Feasibility	Tungsten Mining	259.3	0.11	291 440.0	04/05/2020
Big Hill	Pre-Feasibility	<i>Mining tenure under application</i>	38.5	0.10	37 810.0	22/06/2016
Kilba	Exploration	Cuvier Resources	7.2	0.19	13 899.0	30/01/2015
Western Queen	Exploration	Rumble Resources	4.3	0.30	13 129.0	11/08/2025
Callie Soak*	Exploration	Mining Equities	0.2	0.33	614.0	08/03/1971
Badja	Exploration	Emu NL	0.2	0.03	84.7	04/03/2024

Resource estimates have been rounded

# Mineral Resource is not reported in accordance with JORC 2012 and is not CRIRSCO compliant

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

## Properties and uses

- Tungsten is a critical mineral with diverse and essential applications due to its unique properties. It's valued for its high melting point, hardness, and density, making it vital in various industries including aerospace, defence and electronics. Its most common use is in cemented carbides, used for cutting tools and wear-resistant materials. China currently produces over 80% of the world's tungsten ore
- Tungsten is chemically resistant to most acids and is inert to oxygen at room temperature
- Uses for tungsten include: 1) Nano Tungsten Oxide for battery cathode and anode (Li-ion) manufacturing; 2) Niobium Tungsten Oxide in batteries to reduce charge time and increase power density; 3) Tungsten Hexafluoride gas to optimise all semiconductor production; 4) Tungsten wire to replace diamond wire for photovoltaic cell silica wafer production; 5) Tungsten Oxide coating to enhance hydrogen fuel cell durability; 6) Use in thermonuclear energy – excellent heat conductivity and very high melting temperature (includes both 100% tungsten (100–200 t per reactor) and high tungsten steel surrounding the reactors); and 7) Military applications
- Tungsten is associated with lead, gold and silver mineralisation and generally occurs in Western Australia in the mineral forms of scheelite and wolframite



Wolframite (Fe,Mn)WO<sub>4</sub> from Portugal  
(Source: Rob Lavinsky, iRocks.com – CC-BY-SA-3.0)

### For more information

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

**MINEDEX**

[www.dmpe.wa.gov.au/minedex](http://www.dmpe.wa.gov.au/minedex)

GeoVIEW.WA is a free GIS-based spatial viewer

**GeoVIEW.WA**

[www.dmpe.wa.gov.au/geoview](http://www.dmpe.wa.gov.au/geoview)



### Contact us

Mineral Investment Specialist  
Geological Survey and Resource Strategy Division  
Email: [minerals.investors@dmpe.wa.gov.au](mailto:minerals.investors@dmpe.wa.gov.au)  
Tel: +61 8 9222 3890

DMPE'S MINEDEX, Statistics, and Title and Geoscience Services teams have contributed to the production of this flyer

All data extracted as at: August 2025



Department of Mines,  
Petroleum and Exploration

Published Feb2026



Geological Survey of  
Western Australia