Queensland’s Exploration and Resource Investment Opportunities

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Geological Survey of Queensland
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Queensland Mining

- 11% of Gross State Product (2011/12)  $29.62 billion
- 61% of State exports (2011/12)  $32.17 billion
- Total at-mine value (2011/12)  $39.8 billion
- 61% of Queensland’s private capital investment (2011/12)  $25.9 billion

Source: Australian Bureau of Statistics

Haul Road and pit, Century Mine, NW Queensland. Photo courtesy of MMG
Current Queensland Exploration and Development Activity

- **Grass Roots Exploration**: 170 projects
- **Exploration**: 226 projects
- **Advanced Exploration**: 192 projects
- **Feasibility Study**: 29 projects

**Coal (84 companies)**

**Minerals (227 companies)**

*Source: Interria – June 2013*
Queensland Minerals

- Over A$7.86 billion production in 2011-12
- Over 100 significant operating mines
- 32 different minerals
- 71% of value of State’s minerals produced from the North West Queensland Mineral Province
Australia’s Lead and Zinc Resources

Lead and zinc:
- < 0.01 mt Pb + Zn
- 0.01 to 0.1 mt Pb + Zn
- 0.1 to 1 mt Pb + Zn
- 1 to 10 mt Pb + Zn
- 10 to 40 mt Pb + Zn
- 40 to 80 mt Pb + Zn
- > 80 mt Pb + Zn

Geological region boundary
Lead and/or zinc mine

mt = million tonnes
Not all lead and zinc mines shown
The North West Queensland Mineral Province is the richest lead-zinc province and one of the largest in the world.
North West Queensland Mineral Province

Mineral Occurrences

Mineralisation
- Cu (± Co, Au)
- Cu-Au (± Co, U, REE)
- Au
- Fe
- Phosphate rock
- Ag-Pb-Zn
- Sn
- W
- U (± Cu, Au)

Proterozoic outcrop extent

Towns

Total Magnetic Intensity image
Red Metal Limited
Maronan Project

- 14.5% lead, 371 grams per tonne (g/t) silver over 2.5 m
- 11% lead, 245 g/t silver over 2.5 m
- Combined true thickness of the separate high-grade silver-lead intervals in both banded iron formation (BIF) horizons total over 8 m
- Copper and gold also intersected
- Project supported by the Queensland Government under the Collaborative Drilling Initiative
Laneway Resources NL
Agate Creek Project

- Targeting the Sherwood prospect
- Low grade with limited mine life
- Potential bonanza zone
- Potential to increase mine life
- 31 m at 5.96 g/t gold from 120 m
- Including 7 m at 12.68 g/t gold and 6 m at 8.9 g/t gold
- Re-interpretation of the Sherwood deposit underway
Roar Resources Pty Ltd
Triumph Project

- New gold discovery in south-east Queensland
- Intrusion-related system
- 6 m at 3.85 g/t Au, 10.0 g/t Ag from 188 m
- 1 m at 21.5 g/t Au, 44.6 g/t Ag
- Minor zinc and lead
### Industry update

**Queensland’s significant mineral mines, advanced mineral projects and new intersections**

#### August 2023

<table>
<thead>
<tr>
<th>Commodity</th>
<th>Producers</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper</td>
<td>104,777</td>
</tr>
<tr>
<td>Silver</td>
<td>101,111</td>
</tr>
<tr>
<td>Lead</td>
<td>1,289,295</td>
</tr>
<tr>
<td>Zinc</td>
<td>1,959,846</td>
</tr>
<tr>
<td>Nickel</td>
<td>4,158</td>
</tr>
</tbody>
</table>

#### Quick facts

- **Queensland’s major producing mines in 2022**
  - Copper: 104,777 tonnes
  - Silver: 101,111 ounces
  - Lead: 1,289,295 tonnes
  - Zinc: 1,959,846 tonnes
  - Nickel: 4,158 tonnes

#### Advanced projects and new intersections

- New exploration licences have been granted for copper and gold in the Mount Isa region.
- The Mount Morgan mine is undergoing a feasibility study for a new mining operation.
- The Mount Meguma project is advancing, with a significant copper-gold discovery.
- The Mount Pleasant project is progressing, with a focus on developing new infrastructure.
- The Mount Wright project is exploring for gold and copper deposits.

#### Great state. Great opportunity.

This depicts the geographical distribution of mineral resources in Queensland, highlighting key mining locations such as the Mount Isa Inlier, the Capricorn Shire, and the Mount Morgan area. The map includes data on mineral production, exploration, and investment opportunities, providing a comprehensive view of the state's mineral wealth.

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**Australia** More to Discover
Uranium mining to recommence in Queensland

- 166 million tonnes of ore with U$_3$O$_8$ content of 107,000 tonnes
Strategic Metals and Rare Earth Elements in Queensland

- Rhenium
- Lithium
- Tantalum
- Zirconium
- Scandium
- Yttrium

Australia More to Discover
Rare Earth Elements and Uranium in Queensland

Overview

Uranium Resources in Queensland

Uranium properties and uses

Australia

More to Discover
Queensland Coal

- Largest seaborne exporter of coal in the world (~20% of total seaborne trade)
- 55% of Australian exports
- 15% of internationally traded coal
- 45% of internationally traded coking coal
Queensland Coal

- 34 billion tonnes of proven coal resources (~45% of Australia’s total)
- 56 operating coal mines in 2012
- Produced 187.6 Mt of saleable coal in 2011-12
- Export sales 165 Mt in 2011-12
- Domestic sales 23 Mt in 2011-12
Liberty Resources Limited
EPC 1949

- Announcement of a new coal discovery
- Discovery area exceeds 6 square kilometres
- Coal intersected from 10 m with seam thicknesses up to 5 m
- Area of no known previous drilling
- Potential of an economic resource being evaluated
Coal Development

- Operating mines
- Mines under construction
- Advanced projects
Geological Survey of Queensland

- Information and promotional products
- Presentations at conferences
- Host overseas delegations
- Information and advice
- Business matching
Major Japanese companies in Queensland

Japan Oil, Gas and Metals National Corporation (JOGMEC)

Mitsubishi Corporation

Mitsui & Co Limited

Sumitomo Corporation

Marubeni Corporation

J-POWER Electric Power Development Co. Ltd

Chubu Electric Power Co. Inc.

Nippon Steel

Idemitsu Kosan Co. Ltd

Itochu Corporation

Sojitz Corporation

JFE Group
Reasons to invest in Queensland’s mineral and coal industries

✓ Queensland Government welcomes foreign investment
✓ World-class mineral and coal resources
✓ Proven production and further exploration potential
✓ Attractive investment opportunities
✓ Good and growing infrastructure
✓ Stable government and transparent legislation and policies
✓ Highly skilled and productive workforce
✓ Strategic Asia-Pacific location
✓ Great place to work

Come for the business…stay for the lifestyle
Brad John
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