NICKEL-COBALT

INVESTMENT OPPORTUNITIES

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

Mines and deposits Sulfide ore >100 Kt Kununu Laterite ore >100 Kt Significant amounts of both sulfide and laterite ore >100 Kt Savannah o Mines and deposits <100 Kt Highway / major road Fitzrov Crossing Town Port Hedland Pardoo arnarvon Wingellina West Musgraveo Wiluna Wilconi Jericho Honeymoon Well Weld Range **Mount Keith** Cosmos Leinster Mt Magnet Windarra Geraldton Murrin Murrin Julia **Goongarrie** Canegrass Cawse Silver Swan Avalon **Black Hills** Southern Cross Julimar Kambalda Nova-Bollinger PERTH Mount Thirsty Forrestania Quicksilver 9 Bunbury Ravensthorpe 200 km Albany

Western Australia hosts worldclass nickel deposits

- The Yilgarn Craton is Australia's premier nickel-producing region containing some of the world's largest nickel resources which are equivalent to 33 Mt of contained nickel
- Western Australia also ranked among the top global producers for cobalt in 2020, with all cobalt produced as a byproduct from operating nickel mines
- Production in 2020–21 reached 158 710 t of nickel (metal and concentrate) from eight operating projects
- The Murrin Murrin, Nova-Bollinger and Ravensthorpe mines also produced cobalt as a byproduct from their nickel operations
- Anticipated demand for battery minerals has encouraged the reopening and development of new nickel mines, such as Cosmos (Western Areas), Ravensthorpe (First Quantum), Mt Keith Satellite project (Nickel West), Cassini and the reopening of the Savannah underground mine
- Exploration continues across the State, with new discoveries made in the Pilbara region at the Andover prospect (Azure Minerals), Bryah Basin at the Mount Labouchere prospect (Bryah Resources) and within the Goldfields at the Mt Alexander prospect (St George Mining)
- A Tier-1 scale maiden Mineral Resource estimate has been announced for the Julimar PGE-Ni-Cu-Co-Au project, located ~70 km north of Perth with 330 Mt at 0.94 g/t palladium+platinum+gold, 0.22% nickel, 0.21% copper and 0.021% cobalt reported

\$3480 m Sales value 158 710 t

\$2750 m* Exports 7553 Full-time employees \$2747 m* Investment projects

estment ojects w



5th Production world ranking



(2020-21 financial year

* Includes projects planned, possible, committed or under construction as of September 2021





Nickel projects with resources >100 Kt contained nickel

Resources estimated according to JORC 2012

Project	Status	Owner	Resources (Mt)	Av. grade (% Ni)	Contained Ni (kt)	Av. grade (% Co)	Contained Co (t)	Resourc date
Kalgoorlie Nickel Project	Pre-feasibility	Ardea Resources	830.0	0.71	5879	0.05	384 000	16/06/20
Mt Keith ¹	Operating	BHP Group (Nickel West)	643.7	0.58	3730			30/06/20
Weld Range*	Exploration	EV Metals	385.3	0.64	2466	0.04	154 120	29/10/20
Murrin Murrin	Operating	Glencore	235.7	0.99	2340	0.08	181 198	31/12/20
Leinster ²	Operating	BHP Group (Nickel West)	194.8	1.04	2024			30/06/2
Wingellina	Feasibility	Metals X	215.8	0.91	1952	0.07	151 087	30/06/20
Ravensthorpe	Operating	First Quantum / Pohang Iron and Steel Co.	331.8	0.57	1904	0.03	87 270	31/12/20
Avalon*	Exploration	Wingstar Investments	169.8	0.83	1403			31/12/20
West Musgrave	Pre-feasibility	Oz Minerals	393.3	0.31	1227	0.01	48 236	09/12/2
Cawse*	Exploration	Wingstar Investments	176.5	0.69	1220			31/12/2
Honeymoon Well*	Exploration	BHP Group (Nickel West)	176.8	0.69	1218			30/06/2
NiWest	Pre-feasibility	GME Resources	85.1	1.03	878	0.07	55 320	30/06/2
Cosmos	Under development	Western Areas	64.4	0.97	625			30/09/20
Wilconi	Exploration	A-Cap Resources / Blackham Resources	78.8	0.74	583	0.07	55 160	17/09/2
Julimar	Exploration	Chalice Mining	330.0	0.16	523	0.02	53 000	09/11/2
Jericho³	Exploration	BHP Group (Nickel West)	74.0	0.55	407			30/06/2
Forrestania	Operating	Western Areas / Great Western Exploration	17.9	1.61	287			30/06/2
Savannah	Operating	Panoramic Resources	13.5	1.56	210	0.10	13 328	07/05/2
Canegrass*	Exploration	Huntsman Exploration	29.6	0.71	209	0.06	17 760	27/11/2
Nova-Bollinger	Operating	IGO	11.8	1.76	208	0.06	6 694	31/12/2
Kambalda	Operating	Mincor Resources	5.3	3.80	199			30/06/2
Silver Swan – Black Swan	Feasibility	Poseidon	30.9	0.63	195			30/06/2
Julia*	Exploration	Wingstar Investments	25.9	0.74	193			31/10/2
Black Hills*	Exploration	Zetek Resources / Western Resources	30.0	0.64	192	0.03	9 000	18/09/2
Quicksilver	Exploration	Golden Mile Resources	26.3	0.65	170	0.04	11 354	19/11/2
Mt Edwards	Exploration	Neometals	10.2	1.60	164	0.05	1 387	30/06/2
Pardoo	Exploration	Caeneus Minerals	50.0	0.30	152	0.03	15 000	31/03/2
Windarra	Exploration	Poseidon	9.7	1.53	148			16/07/2
Mt Thirsty	Pre-feasibility	Conico / Barra Resources	26.8	0.52	140	0.12	31 543	09/09/2
Norseman	Exploration	Galileo	25.1	0.49	122	0.11	27 386	11/12/2
Grey Dam	Exploration	Carnavale Resources	14.6	0.75	110	0.05	7 174	26/02/2
Pyke Hill	Exploration	Cougar Metals	10.5	0.99	104	0.09	9 030	30/06/2
Sherlock Bay	Exploration	Sabre Resources / International Exploration	24.7	0.40	100	0.02	5 420	31/05/2

^{*} Resource estimates are not JORC 2012 compliant

For more information



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Contact us

Sarah Sargent

Geological Survey and Resource Strategy Division

Email: minerals.investors@dmirs.wa.gov.au

Tel: +61 8 9222 3890





¹ Includes Yakabindie resources

² Includes Cliffs and Venus resources

³ Includes West Jordan resources