



Western Australia's principal mining projects (2015-16)

Western Australia's 114 principal mining projects each produced minerals valued at over \$5 million (or more than 2500oz of gold) in 2015-16.

Collectively, these projects produced over 99 per cent of the industry's total production, by value, of \$69.5 billion. Projects on private land, for which production values are not required to be reported, are included where employee numbers were greater than 50.

The State's mining industry also comprises hundreds of quarries and small mines that largely produced the basic raw materials required for the local construction industry. This includes clays, construction materials (aggregate, gravel, rock and sand), dimension stone, gypsum, limestone, limesand and spongolite.

The attached tables provide details of the principal mining projects, as well as the principal producers of basic raw materials and the State's major mineral processing operations.

Company	Project	Comments
MINING PROJECTS		
Base metals		
Aditya Birla Minerals Limited	Nifty	
Independence Group NL	Jaguar	
MMG Limited	Golden Grove	
Sandfire Resources NL	DeGrussa	
Bauxite		
Alcoa of Australia Ltd	Huntly	
Alcoa of Australia Ltd	Willowdale	
South32 Worsley Alumina Pty Ltd	Boddington	
Coal		
Lanco Infratech Ltd	Griffin Coal	
Premier Coal Limited	Premier Coal	
Diamonds		
Rio Tinto Ltd	Argyle	
Gold		
AngloGold Ashanti Australia Limited	Sunrise Dam	
AngloGold Ashanti Australia Limited	Tropicana Joint Venture	Joint venture between AngloGold Ashanti (70%) and Independence Group NL (30%).
Barra Resources Limited	Phillips Find	Mining re-commenced in early 2015, after being suspended since 2013. Operations completed in September 2015.
Central Norseman Gold Corporation Pty Ltd	Central Norseman	While mining operations were suspended on 1 July 2014, sales continued into 2015-16.
Christopher Alan de Courcey Ryder	Gibraltar	
Corinthian Mining Pty Ltd	Corinthia	Re-opened historic gold project.

Company	Project	Comments
Gold (cont)		
Doray Minerals Limited	Andy Well	
Evolution Mining Limited	Edna May	
Evolution Mining Limited	Mungari	Project renamed (formerly Frog's Leg/White Foil) following acquisition by Evolution Mining from La Mancha Resources in August 2015.
Excelsior Gold Limited	Kalgoorlie North	Mining operations re-commenced in November 2015.
Gold Fields Limited	Agnew/Lawlers	
Gold Fields Limited	Darlot	
Gold Fields Limited	Granny Smith	
Gold Fields Limited	St Ives	
GME Resources Limited	Devon	New project. First sales achieved in the June quarter 2016.
Hanking Gold Mining Pty Ltd	Southern Cross	
Kalamazoo Resources Pty Ltd	Snake Well	Operated on a campaign basis between October and December 2015 with sales completed in the March quarter 2016.
Kalgoorlie Consolidated Gold Mines	Kalgoorlie Super Pit/ Mt Charlotte	
Kidman Resources Limited	Burbanks	Purchased by Kidman Resources from Blue Tiger Mining in two transactions in April 2015 and January 2016. Mining restarted in September 2015 but was suspended again in September 2016.
Metals X Ltd	Central Murchison	Project recommenced with first production in October 2015.
Metals X Ltd	Higginsville	
Metals X Ltd	South Kalgoorlie	Project recommenced with first production in early 2016.
Millennium Minerals Limited	Nullagine	
Minjar Gold Pty Ltd	Minjar	
Newcrest Mining Limited	Telfer	
Newmont Australia Pty Ltd	Boddington	
Northern Star Resources Ltd	Jundee	
Northern Star Resources Ltd	Kanowna Belle	
Northern Star Resources Ltd	Kundana	Joint venture between Northern Star Resources (51%) and Rand and Tribune (49%).
Northern Star Resources Ltd	Paulsens	
Northern Star Resources Ltd	Plutonic	
Norton Gold Fields Limited	Paddington	
Pantoro Limited	Halls Creek	New project. Production commenced in September 2015.
Ramelius Resources Ltd	Kathleen Valley	New project. Mining commenced in July 2015.
Ramelius Resources Ltd	Mt Magnet	

Company	Project	Comments
Gold (cont)		
Regis Resources Ltd	Duketon	
Saracen Mineral Holdings Ltd	Carosue Dam	
Saracen Mineral Holdings Ltd	Thunderbox	New project. Production commenced in April 2016. Incorporates the King of the Hills mine acquired by Saracen Mineral Holdings from St Barbara Mines in August 2015.
Silver Lake Resources Ltd	Mt Monger	
St Barbara Mines Ltd	Gwalia	
Iron ore		
Atlas Iron Limited	Abydos	
Atlas Iron Limited	Wodgina	
Atlas Iron Limited	Mt Webber	
BC Iron Limited	Iron Valley	
BC Iron Limited	Nullagine JV	Mining operations suspended in early 2016.
BHP Billiton Ltd	Eastern Ridge (Orebody 23/24/25)	
BHP Billiton Ltd	Jimblebar/Wheelara	
BHP Billiton Ltd	Mining Area C	
BHP Billiton Ltd	Mt Whaleback/ Orebody 29/30/35	
BHP Billiton Ltd	Orebody 18	
BHP Billiton Ltd	Yandi	
CITIC Pacific Mining Management Pty Ltd	Sino Iron	
Cliffs Natural Resources Pty Ltd	Koolyanobbing	
Fortescue Metals Group Ltd	Chichester Hub	Comprises the Christmas Creek and Cloudbreak mines.
Fortescue Metals Group Ltd	Solomon Hub	Comprises the Firetail and Kings mines.
Hancock Prospecting Pty Ltd	Roy Hill	First shipment of ore exported on 10 December 2015.
Karara Mining Limited	Karara	
Mount Gibson Iron Limited	Extension Hill	
Mount Gibson Iron Limited	Koolan Island	Mining operations from main pit suspended in November 2014 following seawall failure, but continued in 2015-16 at Acacia East satellite pit.
Pluton Resources Ltd	Cockatoo Island	Mining operations suspended in July 2015 as Pluton Resources entered administration. Sales continued to be made until September 2015.
Polaris Metals Pty Ltd	Carina	
Rio Tinto Ltd	Brockman 2 – Nammuldi	
Rio Tinto Ltd	Brockman 4	
Rio Tinto Ltd	Greater Paraburdoo	Comprises the Paraburdoo, Channar and Eastern Range mines.

Company	Project	Comments
Iron ore (cont)		
Rio Tinto Ltd	Hope Downs 1	
Rio Tinto Ltd	Hope Downs 4	
Rio Tinto Ltd	Marandoo	
Rio Tinto Ltd	Mt Tom Price	
Rio Tinto Ltd	Robe Valley (Mesa A & Mesa J)	
Rio Tinto Ltd	West Angelas	
Rio Tinto Ltd	Yandicoogina	
Manganese		
Consolidated Minerals Pty Ltd	Woodie Woodie	While mining operations were suspended in February 2016, the sale of low grade manganese ore stockpiles continued throughout 2015-16.
Hancock Prospecting Pty Ltd	Nicholas Downs	While mining operations have been suspended since late 2011, the sale of manganese ore stockpiles occurred on an <i>ad hoc</i> basis during 2015-16.
Mineral sands		
Cristal Mining Australia Ltd	Wonnerup mine/North Shore mineral separation plant	
Doral Mineral Sands Pty Ltd	Dardanup	
GMA Garnet Pty Ltd	Port Gregory	
Iluka Resources Ltd	Capel operations	Comprises the Tutunup South mine, North Capel mineral separation plant and North Capel synthetic rutile kiln.
Iluka Resources Ltd	Eneabba operations	Comprises the Eneabba mine, Narngulu synthetic rutile plant, and Narngulu mineral separation plant. The Eneabba mine and Narngulu synthetic rutile plant are both on care and maintenance.
MZI Resources Ltd	Keysbrook	New project. Commenced operations in October 2015.
Tronox Management Pty Ltd	Cooljarloo mine/ Chandala mineral separation plant	
Nickel		
BHP Billiton Ltd (Nickel West)	Cliffs	
BHP Billiton Ltd (Nickel West)	Leinster	
BHP Billiton Ltd (Nickel West)	Mt Keith	
First Quantum Minerals Ltd	Ravensthorpe	
Glencore plc	Murrin Murrin	
Independence Group NL	Long	
Mincor Resources NL	Mariners/Miitel	Mining operations suspended in January 2016 with sales completed in the March quarter 2016.
Panoramic Resources Ltd	Lanfranchi	Mining operations suspended in August 2015 with sales completed in the September quarter 2015.

Company	Project	Comments
Nickel (cont)		
Panoramic Resources Ltd	Savannah	Mining operations suspended in May 2016.
Salt Lake Mining Pty Ltd	Beta-Hunt	
Western Areas Ltd	Forrestania	
Rare earths		
Lynas Corporation Ltd	Mt Weld	
Salt		
Dampier Salt Ltd	Dampier	
Dampier Salt Ltd	Lake MacLeod	
Dampier Salt Ltd	Port Hedland	
Onslow Salt Pty Ltd	Onslow	
Shark Bay Salt Pty Ltd	Shark Bay	
WA Salt Koolyanobbing Pty Ltd	Lake Deborah East	
Silica sand		
Hanson Construction Materials Pty Ltd	Gnangara	Acquired by Hanson Construction Materials Pty Ltd through acquisition of assets of Rocla Pty Ltd in late 2015.
T T Sand Pty Ltd	Mindijup	
Talc		
Imerys Talc Australia Pty Ltd	Three Springs	
Tin-tantalum-lithium		
Global Advanced Metals Pty Ltd	Greenbushes Tantalum	
Talison Lithium Australia Pty Ltd	Greenbushes Lithium	

PRODUCERS OF BASIC RAW MATERIALS	
Company	Project names/locations
BGC Contracting Pty Ltd	Chidlow
Boral Resources (WA) Ltd	Ashburton, Kalgoorlie, Kununurra, Mt Regal, Orange Grove, Perth North, Pilbara (Tabba Tabba), Port Hedland (Turner River)
Cockburn Cement Ltd	Cockburn, Dongara, Parkeston, Woodman Point
Hanson Construction Materials Pty Ltd	Bunbury, Byford, Learmonth, Mt Barker, Mt Regal, Red Hill
Holcim (Australia) Pty Ltd	Albany, Bunbury, Esperance, Geraldton, Kalgoorlie-Boulder, Karratha, Newman, Perth Metro, Port Hedland
Lunard Pty Ltd	Hope Valley
Westdeen Holdings Pty Ltd	Cowcowing, Dongara, Jurien Bay, Lancelin

MINERAL PROCESSING OPERATIONS	
Company	Project
Alumina	
Alcoa of Australia Ltd	Kwinana Alumina Refinery
Alcoa of Australia Ltd	Pinjarra Alumina Refinery
Alcoa of Australia Ltd	Wagerup Alumina Refinery
South32 Worsley Alumina Pty Ltd	Worsley Alumina Refinery
Gold	
Gold Corporation	Perth Mint
Nickel	
BHP Billiton Pty Ltd (Nickel West)	Kalgoorlie Nickel Smelter
BHP Billiton Pty Ltd (Nickel West)	Kambalda Nickel Concentrator
BHP Billiton Pty Ltd (Nickel West)	Kwinana Nickel Refinery
Silicon metal	
Simcoa Operations Pty Ltd	Kemerton Silicon Smelter
Titanium dioxide	
Tronox Limited	Kwinana Pigment Plant