



ORWAY MINERAL CONSULTANTS (WA) PTY LTD OPTIMISATION AND EXPANSION PROJECT REFERENCE LIST

Australian Projects

Company Name	Project Name	Location
Acacia Resources Limited	BROCKS CREEK	Australia - NT
Acacia Resources Limited	UNION REEFS	Australia - NT
Aditya Birla Minerals	MT GORDON EXPANSION	Australia
Aditya Birla Minerals Limited	MT GORDON ESPERANZA SOUTH	Australia
Agnew Gold Mining Company Pty Ltd	AGNEW UPGRADE PREFEASIBILITY	Australia
Alcoa of Aust. Limited	PINJARRA	Australia - WA
Allegiance Metals Pty Ltd	HELLYER BALL MILL TRIAL	Australia
Allegiance Metals Pty Ltd	ALLEGIANCE AVEBURY PLANT - GRINDING OPTIMISATION	Australia
Allegiance Metals Pty Ltd	AVEBURY EXPANSION STUDY	Australia
Allegiance Metals Pty Ltd	HELLYER SAG MILL MODELLING	Australia
Anaconda Nickel Ltd	MURRIN MURRIN	Australia - WA
AngloGold Ashanti Australia - Sunrise Dam	SUNRISE DAM FLASH FLOAT	Australia
Apex Minerals	WILUNA - APEX MINERALS	Australia
Australian Diatomaceous Earth Pty Ltd	BARRABA DIATOMACEOUS EARTH	Australia
Barrick - Plutonic Gold Mine	FINER FEED TO PP1 CIRCUIT	Australia
Barrick - Plutonic Gold Mine	PLUTONIC GOLD MINE SAG MILL CONVERSION	Australia
Barrick - Plutonic Gold Mine	PLUTONIC PP1 FINER GRIND 1.6MTPA	Australia
Barrick - Plutonic Gold Mine	PLUTONIC UPGRADE STUDY	Australia
Barrick Gold Mine	PLUTONIC	Australia - WA
Bemex Corporation Pty Ltd	WHYALLA ONESTEEL CRUSHING CIRCUIT	Australia
BHP Billiton	KAMBALDA NICKEL CONCENTRATOR	Australia
BHP Billiton Nickel West	CLIFFS NICKEL PROJECT	Australia
BHP Billiton Nickel West	LNO CIRCUIT SURVEY	Australia
BHP Billiton Nickel West	LNO SAG MILL AUDIT	Australia
BHP Billiton Nickel West - Kwinana	KWINANA NICKEL REFINERY MATTE GRINDING CIRCUIT	Australia
Birla Mt Gordon	MT GORDON AUDIT	Australia
Birla Mt Gordon Operations Pty Ltd	MT GORDON OPTIMISATION AND OPTION STUDY	Australia
Black Swan Nickel Pty Ltd	BLACK SWAN SAG LINER REVIEW	Australia
Black Swan Nickel Pty Ltd	BLACK SWAN OPTIMISATION	Australia
Border Gold Limited	KARONIE/HARRY'S HILL	Australia - WA
Como Engineers Pty Ltd	MT GARNET	Australia
Copper Mines of Tasmania	MT LYELL COMMUNITION CIRCUIT REVIEW	Australia



Company Name	Project Name	Location
Creosus Mining NL	CENTRAL NORSEMAN	Australia - WA
Delta Gold Limited	KANOWNA BELLE	Australia - WA
Dominion Gold Operations Pty Ltd	CHALLENGER GOLD PROJECT	Australia
Doral Mineral Sands Pty Ltd	DORAL SECOND SCRUBBER PROCESS REVIEW	Australia
Doral Mineral Sands Pty Ltd	TROMMEL EVALUATION	Australia
Doral Mineral Sands Pty Ltd	DORAL CLAY SCRUBBER	Australia - WA
Eagle Mining Ltd	NIMARY	Australia - WA
Endeavor Operations Pty Ltd	ENDEAVOR MINE OPTIMISATION	Australia
Energy Resources of Australia Ltd	RANGER SCRUBBER DESIGN	Australia
Equigold NL	MT RAWDON	Australia - Qld
Equigold NL- Kirkalocka Gold Mine	KIRKALOCKA	Australia
Fox Resources Limited	RADIO HILL	Australia
Gold Fields Australasia Pty Ltd	AGNEW GRINDING CIRCUIT OPTIMISATION	Australia
Goldfields (Tasmania) Ltd	HENTY GOLD MINE	Australia - Tas
Great Central Mines Limited	BRONZEWING	Australia - WA
Great Central Mines NL	JUNDEE GOLD MINE	Australia - WA
Henty Gold Limited	HENTY GRINDING CIRCUIT	Australia
Iluka Resources Ltd	ILUKA MID-WEST OPERATIONS	Australia - WA
Independent Metallurgical Operations	ONSLow SALT PROJECT	Australia - WA
Jabiru Metals Limited	JABIRU METALS OPTIMISATION	Australia
Kanowna Belle Gold Mines	KANOWNA BELLE	Australia - WA
Kanowna Belle Gold Mines Limited	KANOWNA BELLE	Australia
Kundana Gold Pty Ltd	KUNDANA	Australia - WA
LionOre Australia (Wildara) NL	THUNDERBOX PHASE 1 AND 2	Australia
Lycopodium Pty Ltd	KCGM	Australia - WA
Lycopodium Engineering	BHP RAVENSTHORPE	Australia
Lycopodium Engineering Pty Ltd	SUNRISE DAM MILL	Australia
Lycopodium Engineering Pty Ltd	CADIA HG GRAVITY CIRCUIT	Australia
Lycopodium Engineering Pty Ltd	CHIRANO	Australia
Lycopodium Pty Ltd	BLACK SWAN	Australia
Lycopodium Pty Ltd	LNO ADDITIONAL COARSE CLEANING	Australia
Lycopodium Pty Ltd	MKO CQI EXPANSION FEASIBILITY STUDY	Australia
Lycopodium Pty Ltd	MKO KELSEY JIG OPTIMISATION	Australia
Lycopodium Pty Ltd	LEINSTER NICKEL OPERATIONS	Australia - WA
Lycopodium Pty Ltd	MT KEITH OPERATIONS	Australia - WA
Lynas Gold NL	LYNAS FIND PROJECT	Australia - WA
Magellan Metals Pty Ltd	MAGELLAN EXPANSION	Australia

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Company Name	Project Name	Location
Magellan Metals Pty Ltd	MAGELLAN METALS SURVEY & EXPANSION	Australia
MPI Mines Ltd	BLACK SWAN PHASE 1	Australia
MPI Mines Ltd	BLACK SWAN DISSEMINATED PHASE 2	Australia
Mt Magnet Gold NL	MT MAGNET GOLD MINE	Australia - WA
New Hampton Goldfields Ltd	JUBILEE GOLD MINE	Australia - WA
Newmont Australia Limited	GRANITES OPTIMISATION	Australia
Newmont Australia Limited	JUNDEE OPTIMISATION	Australia
Newmont Australia Limited	MINJAR SAG MILL CAPACITY	Australia
Newmont Australia Limited	NIMARY OPTIMISATION	Australia
Normandy Mining Ltd	THE GRANITES	Australia - NT
Normandy NFM Ltd -The Granites Gold Mine	GRANITES - OPTIMISATION OF COMMINATION CIRCUIT	Australia
Outokumpu Technology Pty Ltd- West Perth	BOGOSO REGRIND MILL	Australia
Outokumpu Technology Pty Ltd- West Perth	GIDGEE REGRIND MILL	Australia
Outokumpu Technology Pty Ltd- West Perth	GOVE ALCAN	Australia
Outokumpu Technology Pty Ltd- West Perth	LAKE JOHNSON	Australia
Outokumpu Technology Pty Ltd- West Perth	LIHIR UPGRADE STUDY	Australia
Outokumpu Technology Pty Ltd- West Perth	ST IVES	Australia
Outotec Pty Ltd Australia	GWALIA EXPANSION PROJECT	Australia
Outotec Pty Ltd Australia	HANDUCK IRON ORE MINE	Australia
Outotec Pty Ltd Australia	WHYALLA FLUX MILL OPTIMISATION	Australia
Oxiana	GOLDEN GROVE	Australia
Perilya Mines NL	FORTNUM	Australia - WA
Plutonic Resources	PLUTONIC	Australia - WA
RGC/Goldfields	PADDINGTON	Australia - WA
Rio Tinto Aluminium	BELL BAY	Australia
Sir Samuel Mines	COSMOS	Australia
Sons of Gwalia Ltd	TARMOOLA	Australia
Sons of Gwalia Ltd	WODGINA PRIMARY MILL OPTIMISATION	Australia
Sons of Gwalia Limited Southern Cross Ops	MARVEL LOCH OPTIMISATION PROJECT	Australia
Sons of Gwalia LTD	TARMOOLA	Australia - WA
South Kal Mines Pty Ltd	JUBILEE	Australia - WA
St Barbara Limited	TARMOOLA	Australia
St Barbara Mines Ltd	BLUEBIRD	Australia - WA
Straits (Hillgrove) Gold Pty Ltd	HILLGROVE	Australia
Tanami Gold NL	TANAMI	Australia - NT
Thiess	WHYALLA ONE STEEL	Australia
Tritton Resources Limited - NSW	TRITTON COPPER	Australia

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Company Name	Project Name	Location
View Resources Limited	BRONZEWING	Australia
Western Metals Pty Ltd	MT GORDON	Australia - Qld
Western Metals Pty Ltd	PILLARA	Australia - WA
WMC ODC	OLYMPIC DAM	Australia - SA
WMC Resources Ltd	MKO "B" FLOTATION PILOT PLANT	Australia
WMC Resources Ltd - Kambalda	KAMBALDA GRATE MODELLING	Australia
WMC Resources Ltd - Kambalda	KAMBALDA NICKEL CONCENTRATOR 2006	Australia
WMC Resources Ltd - Kambalda	KAMBALDA NICKEL CONCENTRATOR 2007	Australia
WMC Resources Ltd - Mt Keith	SAG OPTIMISATION ASSESSMENT	Australia
WMC Resources Ltd (Copper Uranium Div)	OLYMPIC DAM UPGRADE STUDY	Australia
Worsley Alumina Pty Ltd	WORSLEY ALUMINA GRINDING CIRCUIT OPTIMISATION	Australia

OPTIMISATION AND EXPANSION REFERENCE LIST



Overseas Projects

Company Name	Project Name	Location
Alel FIC JSC	SUZDAL DESK TOP STUDY	Asia
Ararat Gold Recovery Company	ARARAT COMMINUTION STUDY	Asia
Ashanti Goldfields Co. Ltd - Iduapriem Gold Mine	IDUAPRIEM GOLD MINE	Africa
Ausenco Ltd	WAIHI	Asia - NZ
Avocet Mining PLC	ZERAVSHAN GOLD MINE AUDIT	Asia
Avocet Mining PLC	ZERAVSHAN PLANT UPGRADE OPTION STUDY	Asia
Barrick Gold Corp - Russia and Central Asia	DARASUN	Europe
Battery Limits Pty Ltd	SOHAR COPPER PROJECT	Asia
Boroo Gold Co Ltd	BOROO GOLD MINE 2006	Asia
Boroo Gold Co Ltd	BOROO OPTIMISATION 2008	Asia
Boroo Gold Company Ltd	BOROO 2005	Asia
Celtic Resources PLC	SUZDAL PLANT	Asia
Chirano Gold Mines Limited	CHIRANO OPTIMISATION	Africa
Chirano Gold Mines Limited	CHIRANO EXPANSION	Africa
Dragon Mining (Sweden) AB	SVARTLIDEN	Europe
Eldorado Gold Corporation	TANJIANSHAN	Asia
First Quantum	FRONTIER AUDIT	Africa
First Quantum Minerals	KANSANSHI	Africa
First Quantum Minerals	GUELB MOGHREIN CIRCUIT MODELLING	Africa
Fluor Australia Pty Ltd	AGUABLANCA	Europe
GFL Mining SA (Pty) Ltd Kloof Division	KLOOF 2 UPGRADE STUDY	Africa
Ghanaian Australia Goldfields Ltd	IDUAPRIEM	Africa - Ghana
Gold Fields Ghana Limited	TARKWA MILL SURVEY 2007	Africa
Gold Fields Ghana Limited	TARKWA MILL SURVEY 2008	Africa
Gold Fields Ghana Limited	TARKWA PHASE 5	Africa
Goldfields Mining Services Limited	KLOOF NO. 1 PLANT	Africa
Hebei HuaAo Mining Industry Co., Ltd (Griffin)	CAIJIAYING ZINC MINE	Asia
Internet Engineering	CANATUAN	Asia
Lane Xang Minerals Limited - Sepon Gold Project	SEPON COMMINUTION CIRCUIT AUDITS	Asia
Lane Xang Minerals Limited - Sepon Gold Project	SEPON GOLD GRINDING CIRCUIT MODELLING	Asia
Lane Xang Minerals Limited - Sepon Gold Project	SEPON GOLD PLANT UPGRADE	Asia
Lycopodium Engineering Pty Ltd	GEITA EXPANSION	Africa
Lycopodium Engineering Pty Ltd	TARKWA SAG MILL COMMISSIONING	Africa
Lycopodium Engineering Pty Ltd	LNO FINES RE-CLEANING	Asia
Lycopodium Pty Ltd	LNO P&ID'S	Africa

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Company Name	Project Name	Location
Macraes Mining Company Limited	MACRAES FLAT	Asia - New Zealand
Mauritanian Copper Mines	GUELB MOGHREIN CIRCUIT MODELLING	Africa
MDM Engineering	KALAKUNDI	Africa
Newcrest	GOSOWONG	Asia
Outokumpu Technology Minerals Oy - Finland	BOLIDEN AITIK	Europe
Outokumpu Technology Pty Ltd- West Perth	KANSANSHI	Africa
Outokumpu Technology Pty Ltd- West Perth	LIHIR EXPANSION	Asia
Outokumpu Technology Pty Ltd- West Perth	AGUABLANCA	Europe
Outokumpu Technology RSA	KLOOF NO1 PLANT	Africa
Outokumpu Technology RSA	KOCH/ISKENDERUN	Africa
Outokumpu Technology RSA	NGEZI EXPANSION PROJECT - ZIMPLATS	Africa
Outotec Inc. (Denver)	MITTAL	America
Outotec Minerals Oy - Finland	SSGPO - KAZAKSTAN	Asia
Outotec Pty Ltd Australia	CHATREE GOLD MINE	Asia
Outotec Pty Ltd Australia	FPM IRON ORE EXPANSION	Asia
Outotec Pty Ltd Australia	LIHIR	Asia
Placer Dome Tanzania	NORTH MARA	Africa
PT Barisan Tropical Mining	RAWAS PROJECT	Asia - Indonesia
PT Kelian Equatorial Mining	KELIAN	Asia - Indonesia
SMC Gold Ltd	PUNITAQUI PHASE 2	America
SMC Gold Ltd	PUNITAQUI	America
Societe Ashanti Goldfields De Guinee	SIGUIRI PRIMARY ORE	Africa
Straits Resources	MT MURO	Asia
SwanMines S.P.R.L.	KALUKUNDI	Africa
Teck Corporation	WILLIAMS MINE	North America - Canada
Three K Exploration and Mining	VARVARINSHOYE COPPER-GOLD	Asia
Tolukuma Gold Mines Pty Ltd	TOLUKUMA	Asia - New Guinea

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