



Mining & Energy Services Council of Australia

Project Updates

August 2018

Report Summary

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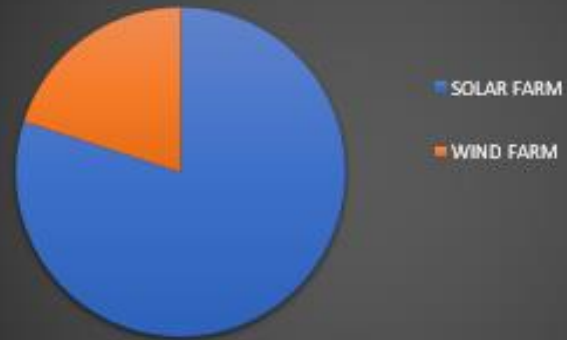
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New South Wales



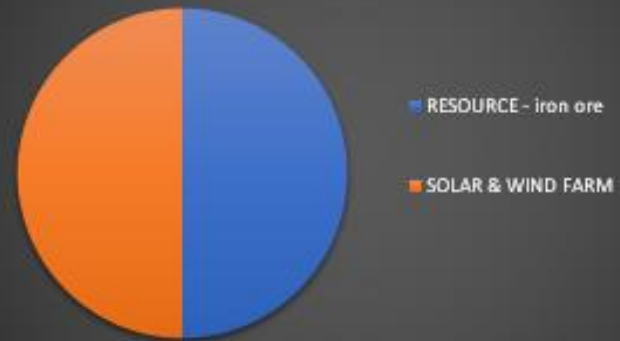
Queensland



South Australia



Western Australia



Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
7069735 KOBERINGA SOLAR FARM		SOLAR FARM	between Home Hill & Bowen KOBERINGA HOME HILL	\$100m	Development Approval
Developer ESCO PACIFIC					
Project Detail Construction of a solar farm with an output measuring 55 megawatts. The solar farm to cover an area of 144 hectares & to comprise approx 160,000 solar photovoltaic modules. the solar panels to be installed on ground mounted frames that will slowly track the sun.					
7141946 DELGA SOLAR FARM		SOLAR FARM	Woleebee, near WANDOAN	\$50m	Development Approval
Developer SHELL AUSTRALIA LIMITED	Developer SUNSEAP AUSTRALIA PTY LTD (T/A SUNSEAP LEASING PTY LTD)				
Project Detail Construction of a 250MW solar farm located 25km south-west of Wandoan. The project is able to connect into the nearby Powerlink Wandoan South substation, allowing the energy generated to connect into the national energy grid.					
7136821 DINGO SOLAR FARM		SOLAR FARM	339 Oaklea Rd (Lot 14 HT8) DINGO	\$100	Development Approval
Developer ESCO PACIFIC	Town Planner RPS AUSTRALIA EAST PTY LTD				
Project Detail Proposed construction of renewable energy facility to include solar farm. Associated car parking & landscaping.					

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
1490904 HIGH ROAD WIND FARM		WIND FARM	Tumoulin Rd, (Cnr Kennedy Hwy) TUMOULIN	\$90m	Development Approval
Design Engineer BROADSPECTRUM	Developer BROADSPECTRUM	Developer RATCH AUSTRALIA CORPORATION LTD	Town Planner RPS AUSTRALIA EAST PTY LTD		
Project Detail Construction of 17 wind turbines. To include visitor viewing platform, Maintenance depot & Electrical substation.					
7036619 CUMBOOLA SOLAR FARM		SOLAR FARM	290 Kerwicks Rd (Lots 70 & 71 on BWR159) CUMBOOLA	\$300m	Development Approval
Developer LUMINOUS ENERGY PTY LTD					
Project Detail Construction of a 300 megawatt Public Utility (Solar Farm) in 3 stages, approximately 100 megawatts each (310MW) to comprise installation & operation of ground mounted solar plant that will utilise photovoltaic modules to generate electricity, inverters & transformers. The project will generate approximately 640,000MWh of electricity per annum meeting the needs of approximately 110,000 homes annually. The solar farm will be built around Ryalls and Kerwicks Roads, approximately 10 kilometres from Miles.					

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
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1683369 ANGUS PLACE COAL OPERATIONS EXPANSION		OPERATING MINE - extn	Wolgan Rd Castlereagh Hwy LIDSDALE	\$177m	Development Application
Contact ICN - INDUSTRY CAPABILITY NETWORK (NSW)	Developer BANPU AUSTRALIA CO PTY LTD	Developer KORES AUSTRALIA PTY LTD (KOREA RESOURCES CORPORATION)	Developer SK INNOVATION CO LTD (T/A SK AUSTRALIA PTY LTD)	EIS Consultant GOLDER ASSOCIATES PTY LTD	EIS Consultant RPS AUSTRALIA EAST PTY LTD
Tendering Authority CENTENNIAL COAL COMPANY LTD (FORMERLY POWERCOAL)					
Project Detail Extension to the east of underground longwall operations. To involve new development panels, supporting surface infrastructure within the Angus Place pit & Newnes State Forests, a coal stockpile area at Kerosene Vale & dedicated roads to Delta Electricity's Wallerawang & Mount Piper power stations. To include a new ventilation facility (no. 3), dewatering boreholes, water management structures, shaft spoil emplacement area & upgrade of an access track.					
1316144 CROOKWELL 3 WIND FARM		WIND FARM	Crookwell Rd CROOKWELL	\$102m	Development Application
Developer UNION FENOSA WIND AUSTRALIA	EIS Consultant TRACT CONSULTANTS AUSTRALIA PTY LTD	Geotechnical Consultant COFFEY GEOTECHNICS PTY LTD	Acoustic Engineer SLR CONSULTING AUSTRALIA PTY LTD	Landscape Architect GREEN BEAN DESIGN	
Project Detail Construction of the Crookwell 3 wind farm. Proposed construction of up to 23 individual wind turbines standing up to 152 metres at top of blade tip with a capacity of up to 3.4MW each (some of the turbines may be fitted with obstacle lighting as required). Construction of up to 23 individual kiosks for the housing of 33kV Transformers and 33kV switchgears & associated control systems to be located in the vicinity of the wind turbine towers (in some turbine models the kiosks equipment is integrated within the tower or nacelle). Internal unsealed tracks for turbine access. Upgrades to local road infrastructure. Construction of an underground electrical & communication cable network linking turbines to each other within the site boundary and then utilising either an underground or overhead connection between the site boundaries & the					

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
<p>Crookwell 2 site boundary to reach the substation approved as part of the Crookwell 2 Wind Farm. Construction of up to 3 wind monitoring masts fitted with various instruments such as anemometers, wind vanes, temperature gauges & potentially other electrical equipment. Construction of up to 2 temporary concrete batching plants during the construction phase only. Removal of vegetation. Vegetation replanting to provide screening. All ancillary and incidental uses & activities</p>					
7089970 CURRAWARRA SOLAR FARM		SOLAR FARM	1385 Mayrung Rd DENILIKUIN	\$250,000,000	Development Application
Developer RES AUSTRALIA PTY LTD (RES SOUTHERN CROSS)	Designer RES AUSTRALIA PTY LTD (RES SOUTHERN CROSS)	Acoustic Engineer RENZO TONIN & ASSOCIATES PTY LTD	EIS Consultant NGH ENVIRONMENTAL		
<p>Project Detail Construction of a photovoltaic solar farm (around 195 MW capacity), with an on-site substation and potentially an energy storage facility. The proposal infrastructure includes: solar arrays mounted on either a fixed or single tracking system; power conversion units; substation containing transformers, associated switchgear and control and protection equipment; operations and maintenance buildings; access points to the site via Mayrung, Russells and Sunny Pines roads; above ground and underground cabling; internal access tracks; infra red lighting, CCTV system, security fencing. Approximately 654,200 solar panels would be mounted in rows on a fixed or single axis tracking system. A single axis tracker would be likely to have a typical maximum tilt height of 3 metres. Approximately 42 power conversion Units (solar) would be installed around the site, each containing multiple inverters and a transformer. FC sheeting& applied finish to control room, timber screening, aluminium glass entry & door. Associated car parking.</p>					
2091974 EASTERN CREEK ENERGY FROM WASTE FACILITY		ENERGY FROM WASTE FACILITY	Lots 2 & 3 Honeycomb Dr (DP1145808) EASTERN CREEK	\$557,902,000	Development Application
Developer THE NEXT GENERATION	Acoustic Engineer PACIFIC ENVIRONMENT LIMITED	Architect KRIKIS TAYLER ARCHITECTS PTY LTD	Civil Engineer AT&L & ASSOCIATES	Consultant ADE CONSULTING GROUP	Consultant ENVIRON AUSTRALIA PTY LTD
Consultant GML HERITAGE	Consultant KJA	Consultant MULTIPLEX	Consultant PACIFIC ENVIRONMENT LIMITED	EIS Consultant URBIS PTY LTD	Hydraulic Engineer AT&L & ASSOCIATES
Landscape Architect SITE IMAGE (NSW) PTY LTD	Quantity Surveyor CONSTRUCTION CONSULTANTS	Surveyor LANDPARTNERS LTD			

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
<p>Project Detail Construction of an energy from waste (EFW) electricity generation plant. The proposed facility is a multi-fuel power station with a capacity to generate up to 158 Mega Watts of electrical energy, of this, 140MWe will be available for export from the facility to the National Grid, the remainder is required for internal plant power usage. The development will include 4 combustion lines & associated boilers; cooling systems comprising air cooled condenser units; flue gas treatment systems, including residue and reagent storage silos & tanks; emissions stacks & associated emissions monitoring systems; steam turbines and generator housed within a turbine hall; 2 auxiliary diesel generators each of up to 2.4MWe output. Tipping hall & fuel storage; boiler hall; turbine hall; substation; substation; ash collection bay; workshop; stack; & control room, offices & amenities. Control room, offices & worker amenities will comprise hard-standing, internal vehicular access roads, vehicle turning & waiting areas; fuel reception & storage facilities, consisting of a tipping hall & vehicle ramps, shredder, storage bunker & cranes; consumable materials handling & storage area; process effluent storage tanks; demineralised water treatment plants; fire water and fire protection facilities; pipe racks & pipe runs; combined heat & power provisions; administration & control buildings; & substation. Subdivision of land; pedestrian footpaths & routes; Internal roadways & weighbridges (x 2); direct underpass connection between the proposed facility & the Genesis MPC; water detention & treatment basin; & services (sewerage, water supply, communications, power supply); external lighting. Staff carparking for 40 vehicles. Hard and soft landscaping & biodiversity measures.</p>					
7110920 HUME COAL PROJECT		RESOURCE - coal	100km Southwest of SYDNEY	\$500,000,000	Development Application
Developer HUME COAL PTY LTD	EIS Consultant EMM CONSULTING				
<p>Project Detail Development & operation of an underground coal mine. Infrastructure to include ventilation shafts, surface infrastructures, pipelines, overland conveyors, rail load out facilities, explosives magazine & ancillary facilities.</p>					
7118495 HUME COAL PROJECT - SURFACE INFRASTRUCTURE		SURFACE INFRASTRUCTURE	7km Southwest of MOSS VALE	\$50,000,000	Development Application
Developer HUME COAL PTY LTD	EIS Consultant EMM CONSULTING				
<p>Project Detail Surface infrastructure area to include administration, bathhouse, washdown & workshop facilities, fuel & lubrication storage, warehouses, laydown areas & other facilities.</p>					

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
1976572 JEMALONG SOLAR STATION		THERMAL SOLAR STATION	Lot 13 DP753118, Jemalong FORBES	\$50,000,000	Development Application
Developer VAST SOLAR PTY LTD	EIS Consultant NGH ENVIRONMENTAL PTY LTD				
<p>Project Detail Proposed construction of the Jemalong Solar Station. Proposal comprises the installation of a 30MW CST plant with thermal energy storage, made up of 89 modules, with each module consisting of a heliostat field & a 27m high receiving tower. A 66kV transformer station & switchgear. A 66kV overhead or underground line to connect into existing powerline. A site office & maintenance building. Internal access tracks to allow for site maintenance. Perimeter security fencing. Landscaping</p>					
1869898 JUPITER WIND FARM		WIND FARM	Kings Hwy, approx 5 km southeast of TARAGO	\$400,000,000	Development Application
Developer EPYC PTY LTD	EIS Consultant ERM AUSTRALIA PTY LTD				
<p>Project Detail Construct the Jupiter Wind Farm comprising up to 88 wind turbine generators, transmission lines, an electricity substation & ancillary infrastructure. Construction of a substation & transmission line connection to existing TransGrid 330kV transmission network. Electrical connections between wind turbines & onsite substation via predominantly underground 33kV cable network. Construction of onsite control buildings & equipment storage facilities. Construction of temporary onsite office & storage facilities. Establishment of temporary concrete batching facilities to supply concrete for turbine footings & substation construction works. Construction of access tracks for each turbine & upgrade to existing roads/tracks as required. Construction of monitoring masks.</p>					

MESCA Project Updates

New South Wales

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
290889 KEPCO BYLONG COAL PROJECT		RESOURCE - coal	Bylong Valley Way BYLONG	\$100,000,000	Development Application
Developer KEPCO AUSTRALIA PTY LTD	Construction Manager ADVISIAN	EIS Consultant CUMBERLAND ECOLOGY PTY LTD	Project Manager ADVISIAN		
Project Detail Development of an initial open cut mine (2 pits using excavators, trucks) followed by underground operations (longwall, drifts, ventilation facilities, workshop, offices, amenities, water & gas management facilities) to recover 124 million tonnes (Mt) of ROM coal at a combined rate of 6.5 Mt per annum for 25 years. Associated haul roads, overburden emplacement areas, coal handling & preparation plant (CHPP), dewatering, rail loop & loadout, road upgrades & relocations, water management, (pipelines, pumping stations, diversion drains, dams) & accommodation facility.					
290990 PEL238 NARRABRI COAL SEAM GAS PROJECT		RESOURCE - coal seam gas	Gunnedah Basin 19 km west of NARRABRI	\$1,300,000,000	Development Application
Developer SANTOS LIMITED	Consultant AMEC AUSTRALIA PTY LTD (FORMERLY MINPROC)	Geotechnical Consultant NETHERLAND SEWELL & ASSOCIATES			
Project Detail Development of Gunnedah Basin coal seam gas (CSG) for power generation. Reserve estimates of 115 petajoules (PJ) proven (1P), 1520PJ at 2P (proven & probable) & 2797PJ at 3P (proven, probable & possible). Facilities at the Bibblewindi (9 well) & Bohena (3 well) CSG production wells to include a gas gathering system & gas compression to increase pressure from 100kPa to 1100kPa. Gas will then be delivered through a 32km long pipeline to the Wilga Park Power Station. This has initially been upgraded by installation of 4 x 1MW & 1 x 3MW gas driven reciprocating engine generators & others will be installed as gas generation increases.					

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
1597552 ROCKY HILL COAL PROJECT		RESOURCE - coal	McKinleys Ln, Waukivory Rd, Fairbairns Rd 7km southeast of GLOUCESTER	\$90,300,000	Development Application
Developer GLOUCESTER RESOURCES LTD	EIS Consultant RW CORKERY & CO PTY LTD				
<p>Project Detail A project based on a resource estimate of 42 million tonnes (Mt). Open cut mining from 4 pits (Avon, Bowen Road 2, Main 1 & 2, Weismantel) at a rate of 2.5 Mt of run-of-mine (ROM) coal for up to 21 years. Trucks loaded by excavators to feed the ROM stockpile next to the coal handling & preparation plant (CHPP) with its associated workshop & switching yard. Transport of up to 1.75 Mtpa of semi-hard coking & thermal coal from a product stockpile by a 2km long enclosed overland conveyor to a new rail loop with overhead loading bins for export through the Port of Newcastle. Processing plant coarse/fine rejects to be emplaced as backfill. Up to 150 million bank cubic metres (Mbcm) of overburden/interburden to be stored in emplacement areas. Relocation of an existing meteorological station in the construction of a western visibility barrier. A Mine Infrastructure area to include a site office & amenities. Demolition of former Boral Timber Mill buildings to accommodate the rail load out facilities. Some 100 employees expected for the construction phase & 150 during the operational phase.</p>					
1239664 RUSSELL VALE COLLIERY UNDERGROUND EXPANSION - WONGA EAST		OPERATING MINE - expansion	via Russell Vale, 8km N of WOLLONGONG	\$50,000,000	Development Application
Developer WOLLONGONG COAL LTD (FORMERLY GUJARAT NRE COKING COAL LTD)	Contractor RUS MINING SERVICES PTY LTD	EIS Consultant ERM AUSTRALIA PTY LTD			
<p>Project Detail Operating mine Russell Vale Colliery West Project (formerly NRE No 1) was based on a Resource Estimate of 315.6 million tonnes & was designed to increase run-of-mine (ROM) coal production to 3.2Mtpa for 20 years through an extension of underground mining. Amended scope of works reduced area which allowed extraction of up to 1 million tonnes per annum of run-of-mine coking coal through longwall mining in the Wongawilli Seam from three panels (Longwalls 4, 5 & a small portion of Longwall 6). Extraction of Longwall 5 was completed in early January 2014.</p>					

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
7183450 SANDIGO SOLAR FARM		SOLAR FARM	174 Mitchells Rd SANDIGO	\$240,000,000	Development Application
EIS Consultant ACCENT ENVIRONMENTAL	Developer ESCO PACIFIC				
<p>Project Detail Development of a 300 MW solar farm and associated infrastructure. Installation of solar panels in regular arrays. Metal mounting structures. Aboveground and underground DC cabling (low voltage). Central inverters, step up transformers, and switchgear (PCUs). Battery storage area. Underground AC cabling that will run from the PCUs to the solar substation (high voltage). Main step up transformer and associated equipment perimeter safety fencing and security system. Supervisory control and data acquisition (SCADA) control systems. Site office and staff amenities. Maintenance shed. Permanent staff and contractor car parking area. Permanent all weather site access (6 m) and access road leading to the office and substation (shared access with TransGrid) Internal vehicle access tracks (4 m), leading to solar arrays and PCUs. Temporary site compound, lay down area, and equipment storage areas during construction. Each solar panel will be fixed to a metal mounting structure that will be piled or screwed into the ground without the need for any excavation work or use of concrete.</p>					
7144342 SAPPHIRE SOLAR FARM		SOLAR FARM	30km east of INVERELL	\$220,000,000	Development Application
Developer CWP RENEWABLES PTY LTD	Acoustic Engineer TTM CONSULTING PTY LTD	Consultant TTM CONSULTING PTY LTD	EIS Consultant ECO LOGICAL AUSTRALIA PTY LTD		
<p>Project Detail Development of a 200MW utility scale solar farm comprised of solar photovoltaic (PV) modules, steel racking & piled supports, electrical transformers & inverters, electrical cabling, telecommunications equipment, security fencing, a site office, maintenance building & car park facilities. Development of associated infrastructure including grid connection & battery storage.</p>					

MESCA Project Updates

New South Wales

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
7123572 WELLINGTON SOLAR		SOLAR FARM	Goolma Rd, Wuukman WELLINGTON	\$265,000,000	Development Application
Owner FIRST SOLAR (AUSTRALIA) PTY LTD	Acoustic Engineer RENZO TONIN & ASSOCIATES PTY LTD	EIS Consultant NGH ENVIRONMENTAL			
<p>Project Detail Development of a 180 megawatt solar farm that would supply electricity to the national electricity grid. The proposal would comprise an array of solar panels covering an area of approximately 360 hectares, a 132kV substation and related infrastructure including PV modules mounted on a horizontal tracking structure, site office and maintenance buildings, overhead or underground cabling for array connection and grid connection, inverter stations, landscaping vegetation and perimeter fencing. An access track off Goolma Rd, approximately 4.6km north east of Mitchell Highway junction.</p>					
1460158 LIVERPOOL RANGE WIND FARM		WIND FARM	between Bundella & Cassilis	\$643,000,000	Development Approval
Developer EPURON PROJECTS PTY LTD	EIS Consultant NGH ENVIRONMENTAL				
<p>Project Detail Construction of up to 272 wind turbines to power 500,000 homes, each with a capacity between 1.5 & 2.5MW; three blades mounted on a tubular steel tower; an adjacent pad mounted turbine transformer, crane hardstand area & related turbine lay down area. A 330kV connection substation located in the vicinity of Ulan, allowing connecting to the existing Wellington to Wollar transmission line. A new 53km long overhead powerline connected to the existing TransGrid 330kV Wellington - Wollar transmission line. Four substations increasing the voltage from the wind turbine voltage to the main powerline voltage. Underground & overhead 22kV or 33kV electrical reticulation cabling & powerlines linking the wind turbines to the collection substations. Access tacks. Operation & maintenance facilities incorporating a control room, maintenance & equipment storage facilities. Various construction facilities including temporary concrete batching plants, rock crushing equipment, temporary laydown facilities & construction compounds. Clearing of native vegetation. Minor road upgrades to local roads.</p>					

MESCA Project Updates

New South Wales

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
1052414 LUCAS HEIGHTS RESOURCE RECOVERY PARK		WASTE TECHNOLOGY FACILITY	Lots 1 & 11 New Illawarra Rd (DP1050235, DP233333) LUCAS HEIGHTS	\$60,000,000	Development Approval
Owner AUSTRALIAN NUCLEAR SCIENCE & TECHNOLOGY ORGANISATION (ANSTO)	Developer SITA AUSTRALIA	Developer SUTHERLAND SHIRE COUNCIL	Acoustic Engineer SLR CONSULTING AUSTRALIA PTY LTD	EIS Consultant GHDWOODHEAD	Landscape Architect MUSECAPE PTY LTD
<p>Project Detail Construction & operation of an Advances Resources Recovery Technology facility. Scope of work includes: re-profiling of the existing & former landfill disposal areas to provide an additional 8.3 million cubic metres of additional landfill airspace capacity. Relocation & expansion of the existing garden organics GO facility to the western side of the site adjacent to Heathcote Rd, to enable it to increase its approved capacity from 55,000 to 80,000 tonnes per year; this facility would introduce improved process controls including active aeration and partial enclosure of the composting process to enable more effective control of potential odour sources. Construction & operation of a fully enclosed ARRT facility on the western side of the site to process up to 200,000 tonnes per year of municipal solid waste & therefore reduce the volume of material requiring landfill disposal.</p>					
6919818 SUNRAYSIA SOLAR FARM		SOLAR FARM	Tooleybuc-Balranald Rd BALRANALD	\$275,000,000	Development Approval
Developer SUNRAYSIA SOLAR FARM TWO PTY LTD	Acoustic Engineer RENZO TONIN & ASSOCIATES PTY LTD	EIS Consultant NGH ENVIRONMENTAL			
<p>Project Detail Development of a new 200 Mega Watt AC (MWAC) solar farm and associated infrastructure. The proposal would include PV modules using polycrystalline technology with solar tracking system. A site office and maintenance building. An access road from Yanga Way to the site. Internal access tracks to allow for site maintenance. Perimeter security fencing. Grid connection to the substation to the north via an overhead line 66kv. Native vegetation screening, where required to break up views of infrastructure.</p>					

MESCA Project Updates

New South Wales

Project ID & Title		Project Type		Project Address		Estimated Value	Project Stage
1688154 TARONGA TIN PROJECT		RESOURCE - tin		5km NW of EMMAVILLE		\$87,300,000	Development Approval
Developer AUS TIN MINING LTD (FORMERLY AUSNICO)	Developer TARONGA MINES LIMITED	Consultant ALS LABORATORY SERVICES PTY LTD	Consultant DRA PACIFIC PTY LTD	Consultant MINING ONE CONSULTANTS (QLD)			
<p>Project Detail A project based on a Resource Estimate (Indicated, Inferred) of 36.3 million tonnes (Mt) containing 57,2000t tin, 26,400t copper & 4.4 million ounces (Moz) of silver with other elements present including fluorine, tungsten & molybdenum. Open cut mining (by contractor) will be mined at an average strip ratio of 1.35 over a 9.3 year mine life. Ore will be crushed at 2.5Mt per annum & pre-concentrated in the Heavy Medium Concentrator (HMC). A conventional gravity & flotation concentrator will produce an annual average of 5200 dry metric tonnes (DMT) of concentrate over the life of mine. Mining will use drill & blast, excavators & 90t rear dump trucks. Tin produced on site will be transported to Brisbane by road. A sulphide concentrate containing the majority of copper, silver & other by-product credits will be stored in a dedicated storage dam for possible future treatment. HMC rejects & coarse tailings will be utilised in the construction of a Tailings Storage Facility (TSF). Water is to be sourced from a specifically constructed 200MI dam.</p>							
7038657 TARONGA TIN PROJECT - PROCESSING PLANT		PROCESSING PLANT		5km Northwest of EMMAVILLE		\$60,400,000	Development Approval
Developer AUS TIN MINING LTD (FORMERLY AUSNICO)	Consultant MINING ONE CONSULTANTS (QLD)	Developer TARONGA MINES LIMITED					
<p>Project Detail For the provision of a 2.5Mt per annum processing plant.</p>							

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
7021074 WALGETT SOLAR FARM - KULLEEN & NITELOC		SOLAR FARM	5km north of WALGETT	\$51,000,000	Development Approval
Developer EPURON PROJECTS PTY LTD	EIS Consultant GEOLYSE PTY LTD				
<p>Project Detail Construction and operation of a 30 MW solar photovoltaic plant and associated infrastructure, including grid connection. Solar PV technology will be either crystalline silicon or thin film. The farm will incorporate an estimated 90,909 solar panels, steel racking & piled supports, inverter stations, electrical control room, substation, perimeter security fencing, security lighting. The solar PV modules will be connected together via a direct current (dc) collection system consisting of cables mounted on the module support structure. The support structure may be fixed-tilt or tracking. Inverters and transformers will be located in an array within the footprint to convert the dc current to alternating current (ac). Inverter and transformer assemblies would be mounted on a steel platform or slab above the 1 in 100 flood level. The ac collection system will consist of underground cabling at 22kV which connects to each inverter. If the connection voltage is 66 kV a substation will be required on-site. Inverters will produce power at 22 kV or 33 kV and the substation would then transform the voltage to 66kV. In this scenario, grid connection will be via underground cable to the nearby Essential Energy zone substation. Alternatively, if no site sub-station is required, grid connection will be through an underground 22 kV connection to the existing 22 kV transmission line that is located approximately 500 m east of the solar farm site.</p>					
290983 WALLARAH NO 2 UNDERGROUND COAL PROJECT		RESOURCE - coal	Via Hue Hue Rd, 5km NW of WYONG	\$805,090,000	Development Approval
Developer KORES AUSTRALIA PTY LTD (KOREA RESOURCES CORPORATION)	Project Manager WYONG AREAS COAL JOINT VENTURE	EIS Consultant HANSEN BAILEY ENVIRONMENTAL CONSULTANTS			
<p>Project Detail A project based on a Resource Estimate of 150 million tonnes (Mt) of coal. Construction over 3 years to establish underground longwall mining to be at a rate of 5 Mpta for more than 28 years. The main access Buttonderry site linked by a drift to the Tooheys Road site on the other side of the F3 freeway where ore will be received, processed & despatched for export to Newcastle port or domestic power stations. The Tooheys Road site to include the mine box cut portal accessing the 3570m long, 6.5m x 6m high drift; a coal handling plant with oversize rejects bin, raw & product stockpile pads each with reclaim tunnel & pollution control dam; a 1700km single track spur line & 4300m balloon loop with coal loading bin & 4500tph loading capacity along with 2 rail underbridges & 4 culverts; associated access roads & car parking, workshop, stores</p>					

Project ID & Title	Project Type	Project Address	Estimated Value	Project Stage
<p>(fuel, oil & flammable goods, secure, bulk dry goods), open yard storage, air compressors, vehicle wash down bay, fire station with tanks, sedimentation ponds & 120ML mine operations dams, culverts, reverse osmosis water treatment plant, a 132kV/11kV switchyard station with transformers & powerlines & gas extraction & treatment plant. The Buttonderry site to include the main office (administration, training rooms), bathhouse, sewage treatment plant, helipad, car parking, small fuel, oil & hazardous materials storage area, explosives magazine, fire fighting water tanks, ballast boreholes, a 6m diameter x 350m deep upcast ventilation shaft with fan & an 8m diameter x 350m deep downcast ventilation/transport shaft. Eventual construction of an additional 5m diameter, 490m deep downcast ventilation shaft west of the Buttonderry site. Peak construction workforce of 1188 & 300 ongoing jobs expected.</p>				
<p>7211137 WALLARAH NO 2 UNDERGROUND COAL PROJECT - COAL HANDLING & STORAGE FACILITIES (Component of Project ID: 290983 above)</p>	<p>COAL HANDLING/STORAGE FACILITIES</p>	<p>5km Northwest of WYONG</p>	<p>\$100,000,000</p>	<p>Development Approval</p>
<p>Same as Project ID: 290983 above</p>				
<p>Project Detail Construction of coal handling & storage facilities.</p>				
<p>7211144 WALLARAH NO 2 UNDERGROUND COAL PROJECT - UNDERGROUND DRIFT ENTRY (Component of Project ID: 290983 above)</p>	<p>UNDERGROUND DRIFT ENTRY</p>	<p>5km Northwest of WYONG</p>	<p>\$50,000,000</p>	<p>Development Approval</p>
<p>Same as Project ID: 290983 above</p>				
<p>Project Detail Construction of an underground drift entry & ventilation shafts.</p>				

MESCA Project Updates

New South Wales

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
7021217 HAY SOLAR FARM		SOLAR FARM	Sidonia Rd HAY	\$120m	Development Approval
Consultant BIOSIS PTY LTD	Developer OVERLAND SUN FARMING COMPANY PTY LTD	EIS Consultant EMM CONSULTING	Hydraulic Engineer JACOBS GROUP (AUSTRALIA) PTY LTD		
Project Detail Development of a large-scale solar photovoltaic (PV) generation facility and associated infrastructure with an estimated capacity of 100 megawatts (MW). The project comprises a network of PV solar panel arrays, electrical collection systems, switchyard and control room, a management hub, including demountable offices and amenities and equipment sheds, internal access roads, and connection infrastructure to the Hay 132 kV Substation. Car parking.					
7010829 LIMONDALE SOLAR FARM		SOLAR FARM	Yanga Way BALRANALD	\$150,000,000	Tenders/Submn Of Props For Design Construct
BMD CONSTRUCTIONS PTY LTD	Developer OVERLAND SUN FARMING COMPANY PTY LTD	EIS Consultant EMM CONSULTING	Tendering Authority OVERLAND SUN FARMING COMPANY PTY LTD		
Project Detail Development of a large-scale solar photovoltaic (PV) generation facility and associated infrastructure with an estimated capacity of 100 megawatts (MW), which would be generated by around 300,000 PV solar panels. The project would connect to the Transgrid 220kV electrical distribution network that originates at the Balranald 2230 kV substation. Key components comprise a network of OPV solar panel arrays; electrical collection systems, switchyard & control room; management hub, including demountable offices, amenities & equipment sheds; connection infrastructure to the Balranald 220kv substation. Internal access roads. Car parking.					

MESCA Project Updates

New South Wales

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
1990591 WEST NOWRA RESOURCE & RECOVERY PARK		RESOURCE/RECOVERY PARK - stages 1 & 2	120 (Lot 342) Flatrock Rd (DP257515), Mundamia NOWRA	\$67,000,000	Tenders/Submn Of Props For Design Construct
Developer SHOALHAVEN CITY COUNCIL	Consultant GHDWOODHEAD	EIS Consultant GHDWOODHEAD	Tendering Authority SHOALHAVEN CITY COUNCIL	Acoustic Engineer GHDWOODHEAD	

Project Detail

Construction and operation of a RRP with combined capacity to receive & process up to 130,000 tonnes of waste per year, comprising: composting facility to process up to 65,000 tonnes of waste per year from both domestic and commercial waste sources. A materials recovery facility for sorting up to 40,000 tonnes of dry (non-putrescible) solid wastes per year from both domestic and commercial waste sources. A sorting and recovery facility for approximately 15,000 tonnes per year of construction & demolition (C&D) waste. Other areas for processing and storing approximately 10,000 tonnes per year of other recyclable materials, such as green waste, scrap steel & concrete. Ancillary infrastructure including: circulation roadways and weighbridges for entering & exiting vehicles; offices & amenities; sediment/detention basins. Carparking for up to 30 cars plus 10 visitor spaces. Fencing around the perimeter of the site. Asset protection zones (APZs). Project provides an assessment of the concept proposal for the whole project and a detailed assessment of Stage 1 works. Stage 1 €" clearing of land and provision of basic infrastructure on the nominated site, which would be undertaken by Council or contractors appointed by Council as part of early construction works. Stage 2 €" construction and operation of a RRP and would be undertaken by an alternative waste technology provider/facility operator, who would be selected by a tendering process to provide the specialised resource recovery facilities.

MESCA Project Updates

South Australia

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
553343 SOUTHERN EYRE PENINSULA PROJECT - WILGERUP		RESOURCE - hermatite	Yorke Peninsula 30km southeast of LOCK	\$65m	Development Approval
Consultant GOLDER ASSOCIATES PTY LTD	Consultant METSO MINERALS (AUSTRALIA) PTY LTD	Contractor GENESEE & WYOMING AUSTRALIA PTY LTD (GWA)	Developer ARRIUM LIMITED (FORMERLY ONESTEEL)	Engineer JACOBS GROUP (AUSTRALIA)	Vendor CENTREX METALS LTD
Project Detail A project based on a Resource Estimate (Inferred & Indicated) of 14.1 million tonnes (Mt) for 8.3 Mt of iron ore. Expected 1-1.5 Mt a year of direct shipping ore (DSO) over a life-of-mine (LoM) of 7 years.					

Project ID & Title		Project Type	Project Address	Estimated Value	Project Stage
7243260 OGILVIE WEST ROAD SOLAR & WIND FARM		SOLAR & WIND FARM	4601 (Lot 6945) & 5540 (Lot 6687) Ogilvie West Rd NORTHAMPTON	\$100,000,000	Development Approval
Developer ADVANCED ENERGY RESOURCES (AER)	Consultant DEPARTMENT OF BIODIVERSITY, CONSERVATION AND ATTRACTIONS	Consultant DEPARTMENT OF HEALTH	Consultant DEPARTMENT OF INDIGENOUS AFFAIRS (FORMERLY ABORIGINAL LANDS TRUST)	Consultant DEPARTMENT OF MINES, INDUSTRY REGULATION AND SAFETY	Consultant DEPARTMENT OF PLANNING (& WESTERN AUSTRALIAN PLANNING COMMISSION)
Consultant MAIN ROADS WA	Consultant WESTERN POWER				
Project Detail Construction of a 3.5 MW wind & solar farm comprising of 5 wind turbines approximately 2.5MW with a maximum tower height of 65m & maximum blade length of 25m, overall blade tip height of 90m, battery storage unit up to 4 x 20ft, 3.5km overhead powerline, concrete foundations, 1km of underground internal power line. Installation of 3,500 solar panels, ground mounted frame with driven piles with a capacity of up to 1MW, central inverter, cabling & small transformers.					
1149634 PARKER RANGE JOINT VENTURE IRON ORE PROJECT		RESOURCE - iron ore	15km southeast of MARVEL LOCH	\$104	Development Approval
Consultant BOTANICA CONSULTING (JIMS SEEDS WEEDS & TREES T/A)	Consultant CLARK LINDBECK & ASSOC PTY LTD (FORMERLY KEITH LINDBECK & ASSOCIATES)	Consultant INDEPENDENT METALLURGICAL OPERATIONS PTY LTD (IMO)	Consultant LYCOPODIUM LIMITED	Consultant WESTERN HERITAGE RESEARCH	Developer CAZALY RESOURCES LTD
Developer HANKING AUSTRALIA PTY LTD	Consultant RUNGEPINCOCKMINARCO LTD (FORMERLY RUNGE)	EIS Consultant CLARK LINDBECK & ASSOC PTY LTD (FORMERLY KEITH LINDBECK & ASSOCIATES)			

Project ID & Title	Project Type	Project Address	Estimated Value	Project Stage
<p>Project Detail Upgraded Resource Estimate of 40.4Mt @ 53.8% Fe. The resource contains two primary ore types; a hematite-goethite Banded Iron Formation & a smaller component of secondary Canga & Detrital ore. All ore types have low levels of deleterious elements & are suitable for Direct Shipping Ore (DSO). Total production of 22 Mt target fines product grading 56.6% Fe. A Run-Of-Mine (ROM) pad will be built from waste rock to a final height equal to the primary crushing process plant tippel station. The ROM pad will be accessed by vehicle ramps. A low grade ore landform shall be constructed in the region south of the ROM pad in a similar method utilising waste rock material to a base height matching the ROM pad. For the first year of operation, ore will be treated by an on-site 4 Mtpa mobile dry crushing, screening & stockpiling plant located to the west of the mine operation. From year 2 of operation, the mobile dry plant will be replaced with a permanent wet-plant/beneficiation process which involves washing & screening of lower grade ore impurities to tailings. A Tailings Storage Facility (TSF) is proposed to be positioned to the southwest of the permanent process plant, which will be designed with a water recovery from tailings circuit. The tailings will not contain adverse chemical reagents; as such it will have similar chemical properties to the waste rock. Iron ore products will be loaded into on-highway road trains & transported approximately 57km northwest to railway infrastructure at the Moorine Rock rail siding. Products will be loaded from the stockyard at Moorine Rock rail siding into ore cars & transported along existing rail infrastructure to the Port of Kwinana. Various buildings will be constructed at the mine site, including a temporary construction office, mine/operations administration complex, mine/operations crib rooms with amenities, workshop/warehouse laydown facility, fuel management facility (storage tanks & in/outloading pumps), vehicle park-up (including go-line & water stand-pipe) & heavy/light vehicle washdown bays. Pit dewatering bores will provide water for the mine side. A desalination plant will treat some of the bore water to provide fresh water for the site. The remaining bore water will be used for dust suppression during operations. A stormwater diversion system will be installed to cater for a 100 year rainfall event. On-site generators will initially provide power for the site followed by a new 33kV powerline supply connected to existing mains within the first year of operations. A new 172-room village will be constructed.</p>				