



GLOBAL POWER REFERENCE LIST FOR HIGH VOLTAGE SUBSTATION WORKS

T0578515 - Neoen Shotts Battery 200MW - Civil and Electrical works Project	
Client	Western Power
Location of Project	The Site is located at 35 Salvation Road, Palmer WA, 6225. Access is via Colie Williams Road and is approximately 15kM Northeast of Collie
Size and complexity	<p>The Scope of Works is for the civil, structural, electrical, and earthing related works at Western Power's Shotts Terminal Substation (SHO) involve:</p> <ul style="list-style-type: none"> a) removal of redundant foundations in existing SHO bay 3; b) supply and Installation of new foundations for 330kV equipment within existing SHO bay 3; c) supply and Installation of new foundations for 330kV equipment in SHO bay 2; d) supply and Extension of earth grid in SHO bay 2 and 3; e) supply and installation of cable trenches in SHO Bay 2; f) site surfacing, road extension and kerbing; g) fabrication and installation of line gantry's for SHO bay 2; h) fabrication and installation of steel structures for primary electrical equipment in SHO bay 2 and 3; i) supply & installation of two numbers of 12 meter hinged Ingal EPS Lighting / Lightning masts; and j) High bay areal stringing between the new Bay 2 gantry (in the middle of Bay 2) and new SHO922 line gantry
Time frame of project	30 th October 2023 – 31 st May 2024.
Major vendors and suppliers involved	<ol style="list-style-type: none"> 1. General Crane Services WA for Heavy Lifting & Crane Services 2. Meneghello Steel Pty Ltd for Structural Fabrication, Supply & Delivery 3. Cascada for Pre-cast Cable Trenches 4. ABAXA for Underground Service Location 5. Denada Surveys for Site survey activities 6. Treadwell Group Pty Ltd for FRP Products 7. Merger Contracting Pty Ltd for Supply and place compacted 30 mm AC 10/50 Black Asphalt 8. DCL Formwork for concrete pumping works

Value of project	Original Contract Value:- \$3,536,500 excluding GST
Reference persons including contact details	Tim Abidin Telephone: (08) 9326 5133 Email: tim.abidin@westernpower.com.au Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA – 6000

3130 - Nowergup Traction Power Upgrade

Client	FSC Civils
Location of Project	The Site is located at Nowergup feeder Station, 201 Hester Ave, Ridgewood WA 6030
Size and complexity	The scope of works limited to the site installation and testing of structural steel, primary plant, aerials, HV, LV & Control cables associated with 132/25kV Traction Power system TF12 at METRONET's Nowergup substation.
Time frame of project	13 th November 2024 – 11 th Feb 2024
Major vendors and suppliers involved	HV Cable Power for cable termination.
Value of project	Original Contract Value:- \$643,900.00(excluding GST)
Reference persons including contact details	Sean Breen Telephone: 08 9356 7048 Email: sean@fscivils.com.au Commercial Manager 12-14 Ernest Clark Rd, Canning Vale, Western Australia 6155

K2VJTX24- Cook (CK) Street Substation Transformer 3

Client	Western Power
Location of Project	The Site is located at the corner of Cook Street and Thomas Street, West Perth, WA 6005
Size and complexity	Scope of Works is for the replacement of auxiliary supply cables of transformer 3 (CK-T3) at Cook Street Substation (CK T3). <ul style="list-style-type: none"> • Preliminary Inspection and functional Testing • Replace auxiliary cables • Oil leaks repair
Time frame of project	22 nd August 2023 – 27 th August 2023
Major vendors and suppliers involved	N/A
Value of project	Original Contract Value:- AU \$62,000.00 Excluding GST
Reference persons including contact details	Levi Muller Telephone: 0404 951 997 Email: levi.muller@westernpower.com.au Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA – 6000

K2VJTX23 - Earthing Compensator - Oil Processing

Client	Western Power
Location of Project	The Work Sites are : <ul style="list-style-type: none"> * Hadfields Substation (H) 132/23.3kV , 391 Collier Rd, Bassendean, WA, 6054 * North Beach Substation (NB) 132/23.3kV, 19 Retford Pl, Carine, WA, 6020 * Kalamunda Substation (K) 132/23.3 kV, 34 Lewis Rd, Kalamunda, WA 6076 <ul style="list-style-type: none"> * Hazelmere T1 EC (HZM) 132/23.3kV, 50 Central Av, Hazelmere, WA, 6055
Size and complexity	The scope of works on each Earthing Compensators (EC): <ul style="list-style-type: none"> • Complete a full preliminary visual inspection, noting all sources of existing oil leaks.

	<ul style="list-style-type: none"> • Check the Pressure Relief Device (PRD) micro-switch for moisture ingress, then if required clean as necessary, to reinstate to operational condition. • Collect and test oil samples from the Bottom of EC's main oil tank and CT chamber. • Oil replacement in the CT chamber and cable connection box. • Re-gasket the following: <ul style="list-style-type: none"> □ Top lid; □ CT chamber; □ Cable disconnection box; and □ Sight glass. • Replace all bolts and nuts. • Complete the hot oil circulations in the EC main tank. • Top-up oil level in the main tank. • Collect and test oil samples from the Bottom of EC's main oil tank and CT chamber. • Conduct the post job checks and handover to Western Power.
Time frame of project	Date for Practical Completion : Separable Portion 1: 25th May 2023 Separable Portion 2: 31st May 2023 Separable Portion 3: TBA Separable Portion 4: TBA
Major vendors and suppliers involved	<ul style="list-style-type: none"> • General Cranes for lifting services.
Value of project	Original Contract Value:- AU \$81,255.00 Excluding GST
Reference persons including contact details	Todd Curley Telephone: (08) 9326 6915 Email: Todd.Curley@westernpower.com.au Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA – 6000

T0539713 - NORTH BEACH (NB) TRANSFORMER 3 REMOVAL

Client	Western Power
Location of Project	The Substation Site address is at 19 Retford Place, Carine WA 6020
Size and complexity	Major activities involved in this projects are:-

	<ul style="list-style-type: none"> • Project Documentation (Traffic Management Plan, Lift Study, Transport Plan, Site Specific Safety Management Plan, SWMS, etc) • Mobilisation and preparations at site • Draining of Transformer oil from Transformers T3 directly to CLEANAWAY's oil collection tanker. • Disassembly of Transformers T3 • Lift & transport transformer main tank T3 from site to recycling disposal facility, located at West Oz Surplus, 39 Bickley St, Naval Base, Western Australia 6165 (will be performed by General Crane Services WA under supervisor by Global Power) • Transportation of Transformer Accessories and clean-up of existing Transformer bunds and surroundings • Transformer winding investigation – collect Transformer Winding Insulation (TWI) paper samples at West Oz Surplus facility after the removal of winding from Tank (removal of winding from tank transformer stripping will be performed by West Oz Surplus personnel). These samples will be sent to NATA certified lab (proposed lab is TJH2b) for Degree of Polymerisation (DP) analysis. Submit the test reports to Western Power within 30 business days of Practical Completion date.
Time frame of project	<p>Date for Practical Completion: Separable Portion 1: 28 April 2023 Separable Portion 2: 02 June 2023 Works started from 18th April 2023</p>
Major vendors and suppliers involved	<ul style="list-style-type: none"> • General Cranes for lifting services.
Value of project	Original Contract Value:- AU \$64,000.00 excluding GST
Reference persons including contact details	<p>Levi Muller Telephone: 08 9219 2029 Email: levi.muller@westernpower.com.au</p> <p>Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA – 6000</p>

TALISON LITHIUM : HESTER ROAD SUBSTATION (HST) - STRUCTURAL STEEL AND ELECTRICAL INSTALLATION, TESTING AND COMMISSIONING	
Client	Talison Lithium
Location of Project	The Hester road substation is located off Hester Road approximately 3 km East of the South Western Highway in Hester (adjacent to Western Power's Bridgetown substation)
Size and complexity	<p>The major scope are as follows:</p> <ul style="list-style-type: none"> • Fabrication, supply, delivery, and installation of all equipment support structures, and strain gantry as listed in Structural Layout drawing MC0373-ST-DRG-3001. • Installation and testing of all Free Issued Primary plant on equipment support structures as listed in Primary Equipment Layout drawing MC0373-EL-DRG-3001 • Supply, delivery, and installation of all areal conductors and fittings as per Primary Equipment Elevations drawing MC0373-EL-DRG-3004. • Lifting and Placement of Free Issued at site Relay room on its footings as per drawings MC0373-VD-DRG-3309 and MC0373-VD-DRG-3313. • Installation of Level 2 Cable Ladder (Free Issued at site) underneath the relay building as per Cable Ladder Layout MC0373-EL-3070. • Installation of Secondary Equipment inside Relay Building and Marshalling Boxes at 132kV yard as per Secondary Equipment List MC0373-EL-LST-3002. • Supply, delivery, and installation of all light poles and fittings as per Switchyard Lighting Layout drawing MC0373-EL-DRG-3011. • Supply, delivery, and installation of all secondary cables as per cable schedule MC0373-EL-DRG-3005. • Supply & installation of FRP covers to the cable trenches after the secondary cable installation as per culvert lids layout drawing MC0373-ST-DRG-3035. • Testing and pre-commissioning of all equipment installed at site.
Time frame of project	Contract with Talison Lithium signed on 21 st February 2023 and Project expected to complete on 31 th May 2023 .
Major vendors and suppliers involved	<ul style="list-style-type: none"> • General Cranes for lifting services.
Value of project	Original Contract Value:- AU \$ 1,411,000.00
Reference persons including contact details	<p>Robert Barge : 0422 305 163 Senior Electrical Engineer Merz consulting Level 2, 524 Hay Street, Perth WA 6000</p>

WESTERN POWER: NP030704 – Mineral Resources ELPS connection at Mount Marion Lithium Mine	
Client	Western Power
Location of Project	The Site is located at Mount Marion Lithium Mine approximately 33kms south of West Kalgoorlie Terminal (WKT)
Size and complexity	<p>The major scope are as follows:</p> <ol style="list-style-type: none"> 1) Construction of Voltage Regulator site 1 – approximately 5 kilometres south from Kalgoorlie Nickel Smelter towards Goldfields highway (near Pole AH89) 2) Construction of Voltage Regulator site 2 – approximately 3 kilometres north from HBJ Jubilee Processing Plant towards Goldfields highway (near Pole AH210-32) 3) Decommissioning of existing Voltage Regulator – approximately 8 kilometres south from Voltage Reactor site 1 along towards Goldfields highway (near Pole S192170 AH156C) 4) Construction of 750 meters of 33kV Overhead line at Western Power powerline corridor which is passing through Mineral Resources' Mount Marion Lithium Mine site.
Time frame of project	Contract with Western Power signed on 1 st February 2023 and Project expected to complete on 16 th May 2023 .
Major vendors and suppliers involved	<ul style="list-style-type: none"> • Goldfields Utility Services to perform underground service location activities of this project. • Network Contracting to perform the Installation of Voltage Regulators, poles, OH line works and associated activities of this project. • Southern Wire to perform the fencing works
Value of project	Original Contract Value:- AU \$1,210,000.00
Reference persons including contact details	<p>Sam Harris (P: (0400 370 771) Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA – 6000</p>

WESTERN POWER: T0530974 - INSTALL GIS SWBD AND INSTALL RELAY ROOM - MANNING STREET SUBSTATION PROJECT	
Client	Western Power
Location of Project	Manning Street Substation (Project site) is located 70 Manning street, Scarborough, WA-6019.
Size and complexity	<p>The major scope are as follows:</p> <ol style="list-style-type: none"> 1. Separable Portion 1 – for Switch rooms 1 and 3 requires the following Works: <ol style="list-style-type: none"> a. Site development including demolition of existing boundary fencing, walls, gates, toilet block and septic system; b. Excavation and shoring around the existing buildings including installation of steel piles; c. Construction of new buildings for Switch rooms 1 and 3 with prefabricated concrete panels and fit-out; and d. Install primary and secondary conduits and cabling. 2. Separable Portion 2 - for Switch room 2 and the New Relay Room requires the following Works: <ol style="list-style-type: none"> a. Excavation and shoring around the existing buildings including installation of steel piles; b. Construction of new buildings for Switch room 2 and the new Relay Room with prefabricated concrete panels and fit-out; and c. Installation of conduits, cable trenches and lids. 3. Separable Portion 3 - Cabling and Terminations requires the following Works: <ol style="list-style-type: none"> a. Installation of primary cabling between transformers and switchboards. 4. Separable Portion 4 – Final Works requires the following Works: <ol style="list-style-type: none"> a. Drainage; b. Roadworks and Site Surfacing; and c. Equipment Removal (switchboard and secondary equipment).
Time frame of project	Contract with Western Power signed on 21 st December 2022 and Project expected to complete on 5 th July 2024 .
Major vendors and suppliers involved	<p>Piling and Shoring System for the Building : J Steel Australasia Pty Ltd Precast concrete panels : Diamond Precast Logistics Pty Ltd Craneage / Lifting Activities : General Crane Services WA Ground Scanning: W H Location Services Pty Ltd (TA Abaxa) Precast cable trenches : Access Icon Pty Ltd (TA Cascada) Structural Steel works : Meneghello Steel Pty Ltd (TA MSteel) VESDA and Fire Services systems : ARA Fire Protection Services Pty Ltd Site survey activities : Denada Surveys Fire spray Works : Firescope Fire Services Pty Ltd Dilapidation Survey : Restofix Services Pty Ltd Roofing Works : ARCO Roofing Pty Ltd Fencing works : Southern Wire Industrial Pty Ltd HV Cable Termination works : Network Contracting Pty Ltd FRP Products : Treadwell Group Pty Ltd</p>

Value of project	Original Contract Value:- AU \$5,174,000.00
Reference persons including contact details	Han Chong (P: ((08) 9326 6742) Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0517653 - WAGERUP TRANSFORMER WGP T3 REFURBISHMENT PROJECT

Client	Western Power
Location of Project	Western Power's Wagerup 132/23.3kV substation located approximately 3.4km from the Southwest Hwy, along Willowdale Road, Wagerup, WA 6215.
Size and complexity	<p>The major scope are as follows:</p> <ul style="list-style-type: none"> a) Complete a full preliminary visual inspection, noting all sources of existing oil leaks; b) Collect and test oil samples from the Bottom of Transformer Main Tank; c) Perform Insulation Resistance Test and DC winding Resistance Test at existing Tap position; d) Drain Transformer Main Tank into a storage tank; e) Purge the main tank with dry air and maintain during the refurbishment work to a maximum of 21kPa; f) Re-gasket the following: <ul style="list-style-type: none"> a. All hatches and covers; b. Pipe works and Radiator valves; c. Main conservator and sight glass; d. Drain valve; e. Bushing turrets f. Oil temperature probe pockets; and g. Explosion vent g) Collect and Test paper samples on all 132kV bushing leads; h) Repack all valves i) Rectify the oil leaks identified during preliminary inspection; j) Reseal all threaded bleed studs; k) Replace explosion vent with PRD; l) Replace the bolts of transformer tank lid flange with encapsulating nuts & bolts and Nitrile or Viton flat rubber seals. m) Apply 'Sikaflex' or 'Soudal T-REX' sealant to seal any steel-to-steel bolted / flanged connections; n) Remove oil stains by cleaning; o) Trim and paint gaskets p) Perform leak check of the transformer by applying 30kPa dry air; q) Streamline the drained oil within the storage tank; r) Sample and test the transformer oil; s) Re-fill the transformer oil; t) Re-install and reinstate the removed accessories; u) Complete the corrosion treatment and painting; v) Perform Insulation Resistance Test and DC winding Resistance Test at existing Tap position; w) Collect and test oil samples from the Bottom of Transformer Main Tank; and x) Conduct the post job checks and handover to Western Power.

Time frame of project	Contract with Western Power signed on 10 th Jan 2023 and Project expected to complete on 18 th March 2023.
Major vendors and suppliers involved	N/A
Value of project	Original Contract Value:- AU \$214,990.00
Reference persons including contact details	Pilvaraj Rajendran (P: (0418 653 161) Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: K2VJTX22 - WAGIN T1, T3 AND KELLERBERRIN T1,T3 TRANSFORMERS REFURBISHMENT

Client	Western Power
Location of Project	<ul style="list-style-type: none"> • Kellerberrin Substation - Doy Road, Kellerberrin, WA • Wagin Substation - Tillellan Road, Wagin (approximately 5 km's west of Town – Arthur River Road)
Size and complexity	<p>The major scope of works for the civil, structural and earthing works are as follows:</p> <p>(a) Complete a full preliminary visual inspection, noting all sources of existing oil leaks;</p> <p>b) Collect and test oil samples from the Bottom of Transformer Main Tank;</p> <p>c) Perform Insulation Resistance Test and DC winding Resistance Test at existing Tap position;</p> <p>d) Drain Transformer Main Tank into a storage tank;</p> <p>e) Purge the main tank with dry air and maintain during the refurbishment work to a maximum of 21kPa;</p> <p>f) Re-gasket the following:</p> <ol style="list-style-type: none"> Main Tank top lid with a 10mm Nitrile bonded cork gasket; All hatches and covers; Tap Changer selector access covers; Pipe works and Radiator valves; Main conservator and sight glass; Drain valve; Bushing Oil temperature probe pockets; High-low range selector switch; and Explosion vent <p>g) Collect and Test paper samples on all 66kV bushing leads;</p> <p>h) Secure the neutral bar by installing a nylon spacer;</p> <p>i) Repack all valves</p> <p>j) Rectify the oil leaks identified during preliminary inspection;</p> <p>k) Reseal all threaded bleed studs;</p>

	<p>l) Apply 'Sikaflex' or 'Soudal T-REX' sealant to seal any steel-to-steel bolted / flanged connections;</p> <p>m) Remove oil stains by cleaning;</p> <p>n) Trim and paint gaskets</p> <p>o) Perform leak check of the transformer by applying 21kPa dry air;</p> <p>p) Streamline the drained oil within the storage tank;</p> <p>q) Sample and test the transformer oil;</p> <p>r) Re-fill the transformer oil;</p> <p>s) Re-install and reinstate the removed accessories;</p> <p>t) Perform Insulation Resistance Test and DC winding Resistance Test at existing Tap position;</p> <p>u) Collect and test oil samples from the Bottom of Transformer Main Tank; and</p> <p>v) Conduct the post job checks and handover to Western Power</p>
Time frame of project	Contract with Western Power signed on 5 th May 2022 and Project will complete on June 2023 .
Major vendors and suppliers involved	N/A
Value of project	Original Contract Value:- AU \$332,408.00
Reference persons including contact details	Han Chong (P: ((08) 9326 6742) Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0509235 - CONNECT TALISON LITHIUM – BTN METERED PROJECT	
Client	Western Power
Location of Project	Bridgetown Substation which is located off Hester Road approximately 3 km East of the South Western Highway in Hester
Size and complexity	<p>The major scope are as follows:</p> <ul style="list-style-type: none"> (a) The area to be cleared includes all areas of the WUC, including but not limited to the area between the Substation fence and the southern boundary fence. (b) Earthworks (c) Stormwater Drainage (d) Supply and install the new sections of security fencing (e) Asbestos Containing Material (ACM) Removal (f) Primary Plant Foundations (g) Replace the existing Oil Separation Unit (h) Cable Trenches, FRP Covers and Conduits (i) Earthing

	<p>(j) Remove the eye wash station. The eyewash station piping shall be removed to the outside of the building and shall be capped/sealed off.</p> <p>(k) Roadworks & Site Surfacing</p>
Time frame of project	Contract with Western Power signed on 31 st August 2022 and Project expected to complete on 14 th June 2023 .
Major vendors and suppliers involved	<ul style="list-style-type: none"> • WH Location Services Pty Ltd trading as ABAXA for GPR and Underground Scan • AUSTRALIAN INTEGRATED STEELWORK CO. for Fencing Fabrication Works • Access Icon Pty Ltd trading as CASCADA for Cable trench fabrication Works • CONSTRUCTION SCIENCES PTY LTD for Compaction tests. • DENADA Surveys PTY LTD for site surveys
Value of project	Original Contract Value:- AU \$1,210,000.00
Reference persons including contact details	<p>Tim Abidin (P: (08 9326 5133)</p> <p>Contract Manager, Customer Connection Services – Major Capital</p> <p>Western Power – 363 Wellington St, Perth, WA - 6000</p>

WESTERN POWER: T0517653 - TX REFURBISHMENT PH 2 - APM T3 AND BLD T3 CIVIL WORK

Client	Western Power
Location of Project	<ul style="list-style-type: none"> • Australian Paper Mills 66/22kV located on the corner of Horus Bend and Sudlow Road in Bibra Lake, Metropolitan Perth Region • Boulder 132/33kV Substation located on the corner of Burt street and Goldfields Hwy, Metropolitan Perth Region
Size and complexity	<p>The major scope of works for the civil, structural and earthing works are as follows:</p> <p>(a) Remove and dispose of the top layer of the existing site surface and excavate</p> <p>(b) Remove all and dispose of cables</p> <p>(c) Install the new modified combined cable termination and circuit breaker foundation</p> <p>(d) Supply and install new ASC and BASC earthing conductors and connection fittings</p>

	<p>(e) Ensure all connections are cleaned of any insulating medium which includes insulation, grease, paint, dirt or corrosion</p> <p>(f) Arrange for the collection of all primary cables that are free issued</p> <p>(g) Complete a sheath integrity test on each cable after the cables are installed</p> <p>(h) Site surfaces shall be reinstated to match the existing site final finished levels</p>
Time frame of project	Contract with Western Power signed on 5 th May 2022 and Project completed on 18 th June 2022.
Major vendors and suppliers involved	Civil works, Horizontal Directional drilling works and Cable installation works: Goldfields Utility Services To perform GPR and scan for APM substation : ABAXA
Value of project	Original Contract Value:- AU \$524,655.00
Reference persons including contact details	Ken Law (P: (08) 9326 4790) Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: N0553585 - LYNAS RARE EARTHS DX CONNECTION PROJECT

Client	Western Power
Location of Project	The Site is Western Power's West Kalgoorlie Terminal and the Works along West Kalgoorlie Road, Great Eastern Highway road reserve, Johns Street, and existing WKT 640 overhead line.
Size and complexity	<p>The major scope of works for the civil, structural and earthing works are as follows:</p> <p>(a) Assist the Principal to produce an outage schedule</p> <p>(b) Procure materials as required for the completion of the Works</p> <p>(c) Install approximately 100m of 240mm HV cable in single conduits</p> <p>(d) Install approximately 2800m of 185mm HV cable</p> <p>(e) Install and connect all requirements for switches, metering, at the Customer's Connection</p> <p>(f) Perform all earthworks as required</p> <p>(g) Pick up, transport to Site, and install the Principal Supplied Items</p> <p>(h) Clearing as required, clean up, and disposal, permit sourced by the customer; and</p> <p>(i) Obtain permits for MRWA, APA Gas, and BHP water</p>

Time frame of project	Contract with Western Power signed on 11 th November 2021 and Project completed on 29 th June 2022.
Major vendors and suppliers involved	Civil works, Horizontal Directional drilling works and Cable installation works: Goldfields Utility Services Installation of poles and associated activities: Network Contracting
Value of project	Original Contract Value:- AU \$592,800.00
Reference persons including contact details	Tim Abidin (P: (08) 9326 5133) Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0491463 WAGERUP T1 – REPLACEMENT SERVICES PROJECT

Client	Western Power
Location of Project	The Site is Western Power's Wagerup Substation located approximately 3.5km from the South West Hwy along Willowdale Rd, Wagerup WA 6215.
Size and complexity	The Services under this scope are divided into two stages, namely Transformer removal Services (Stage 1) and Transformer relocation Services (Stage 2). The Transformer removal Services (stage 1) involve but not be limited to an internal inspection of the existing transformer at Wagerup to determine whether it will be relocated as a strategic spare (to Forrestfield transformer storage yard), or scrapped and disposed for recycling (West Oz Surplus yard). The Transformer relocation Services (stage 2) involve but not be limited to the testing, disassembly, transportation and reassembly of a new spare transformer, from the Forrestfield transformer storage yard to Wagerup Substation.
Time frame of project	Contract with Western Power signed on 19 th November 2021 and Expected project completion on 10 th April 2023.
Major vendors and suppliers involved	Heavy Lifting, Transportation of Transformer Main Tanks and Transporter for moving bulk transformer oil: General Crane Services (WA) Degree of Polymerisation Analysis: TJJH2b Analytical Services
Value of project	Original Contract Value:- AU \$264,000.00
Reference persons including contact details	Pilvaraj Rajendran (M: 0418 653 161) Contract Manager, Network Maintenance Planning & Delivery Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0543983 – KWINANA TERMINAL – SYNERGY BATTERY

Client	Western Power
Location of Project	The Site is Western Power's Kwinana Terminal located Leath Rd, Naval Base, WA 6165, approximately 40km south of Perth.
Size and complexity	<p>The major scope of works for the civil, structural and earthing works are as follows:</p> <ul style="list-style-type: none"> (a) Demolishing and removal of the existing disconnecter and surge arrestor foundations (b) Modifications to some of the existing Bay redundant foundations – hold down bolts, grout and plinth (c) Site surfacing around the line circuit areas and associated Works within the yard (d) Extension of secondary cable trenches and conduits and installation of new conduits to new equipment (e) Installation of secondary cabling conduit (f) Installation of new Bay foundations, disconnecter and lighting mast foundations (g) Installation of grout underneath all structures after they have been installed by the Principal (h) Trenching and backfilling for installation of the earthing conductor (i) Supply and installation of all earthing conductors and fittings
Time frame of project	Contract with Western Power signed on 1 st October 2021 and project completed on 17 th March 2022.
Major vendors and suppliers involved	<p>Reo Cages & Cable Trench Materials: Midalia Steel FRP Covers for Cable Trenches: Treadwell Group Pty Ltd Hold down bolts: Meneghello Bolts Pty Ltd Precast Cable Trench: Cascada</p>
Value of project	Original Contract Value:- AU \$876,000.00
Reference persons including contact details	<p>Tim Abidin (P: (08) 9326 5133) Contract Manager, Customer Connection Services – Major Capital Western Power – 363 Wellington St, Perth, WA - 6000</p>

WESTERN POWER: T0356582 & T0411095 - YOKINE IMPLEMENT TX

Client	Western Power
Location of Project	The Site is Western Power's Yokine substation located between 47 and 49 Darch St, Yokine, Western Australia 6060.
Size and complexity	The major scope of works for the civil, structural and earthing works are as follows:

	<p>(a) Replacing Transformer T3, including a new bund and combined Current Transformer / Circuit Breaker foundation.</p> <p>(b) Extension of 132 kV switchyard to the East (vacant land at 93 Flinders St.)</p> <p>(c) Construct a new Switch room (precast wall construction) with all Light & Power, VESDA, HVAC, Control systems.</p> <p>(d) Construction of cable trenches from new switch room to existing switch room within existing switchyard and new Transformer bund at the proximity of existing underground and live Overhead 132kV installations.</p> <p>(e) Replacement of parts of the existing boundary fence with a combination of precast panels, weldmesh fencing, chain link and timber fencing.</p> <p>(f) Installation and testing of HV cables</p> <p>(g) Removal of existing switchboards, Circuit breakers and patch filled OCB cable boxes & 11kV switchboard cable boxes.</p> <p>(h) Disassembly and disposal of 2 numbers of existing 132kV 33MVA Transformers from live substation.</p>
Time frame of project	<p>Contract with Western Power signed on 13th April 2021.</p> <p>Separable Portion 1 expected to complete on 20th October 2021.</p> <p>Separable Portion 2 will start on May 2022 and expected to complete in April 2023.</p>
Major vendors and suppliers involved	<p>Structural Fabrication, Supply & Delivery: Meneghello Steel Pty Ltd</p> <p>Purceptor - Supply, Delivery, installation support and commissioning: Allied Pumps</p> <p>Pre-cast Concrete Panels for TX4 Fire Walls and Noise walls: Cascada</p> <p>Fabrication and delivery of other Fencing Materials: Horizon Works</p>
Value of project	Original Contract Value:- AU \$3,581,750.00
Reference persons including contact details	<p>Pilvaraj Rajendran (M: 0418 653 161)</p> <p>Contract Manager, Network Maintenance Planning & Delivery</p> <p>Western Power – 363 Wellington St, Perth, WA - 6000</p>

WESTERN POWER: T0436112 - ARP PACKAGE 12 CIVIL WORKS – MUC, KW, CPN, RTN, SX

Client	Western Power
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Location of Project	The Asset Replacement Civil works associated at Western Power's; A. Kwinana Substation located at 22 Leath Rd, Naval Base, WA B. Muchea Substation located at Byrne Road, Muchea C. Riverton Substation, approximately 21km south of Perth at 20 Camm Avenue, Bull Creek and Chapman Substation, located approximately 25 Nerrel St, Chapman D. Southern Cross Substation, located approximately 2.5 km NNW of Southern Cross (north end) on the Bullfinch Road E. Southern Terminal Substation, located at Annois Rd, Bibra Lake
Size and complexity	The major scope of works associated with this project are as follows: 1. Removal and Disposal 2. Concrete Foundation Construction 3. Gantry Structure 4. Conduits and Cable Trenches 5. Earthing 6. Hold Down Bolt Installation and Removal 7. Secondary Cabling Conduits 8. Primary Plant Structure Disposal 9. Site Surfacing
Time frame of project	Contract with Western Power signed on 23 rd March 2021 and project completed on 20 th November 2021.
Major vendors and suppliers involved	Hold down bolts: Mbolts Reo materials: Midalia Steel Disconnecter support beams: Meneghello Steel Pty Ltd FRP Covers: Treadwell Group Pty Ltd
Value of project	Original Contract Value: AU \$570,000.00
Reference persons including contact details	Todd Curley (M: 0438 981 341) Contract Manager, Network Maintenance Planning & Delivery Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0436112 PRIMARY ARP – CIVIL WORKS – H, BLD AND KW

Client	Western Power
Location of Project	The Asset Replacement Civil works associated at Western Power's; A. Hadfields substation located at the end of Baltic court in Bassendean B. Boulder Substation located at north of the Burt Street and Goldfields Highway, Kalgoorlie C. Kwinana Terminal located at 22 Leath Rd, Naval Base, WA, 6165

Size and complexity	The major scope of works associated with this project are as follows: 10. Removal and Disposal 11. Concrete Foundation Construction 12. Earthing 13. Hold Down Bolt Installation and Removal 14. Secondary Cabling Conduits 15. Primary Plant Structure Disposal 16. Site Surfacing
Time frame of project	Contract with Western Power signed on 3 rd March 2021 and expected project completion on 28 th March 2022.
Major vendors and suppliers involved	Hold down bolts: Mbolts Reo materials: Midalia Steel
Value of project	Original Contract Value:- AU \$189,000.00
Reference persons including contact details	Todd Curley (M: 0438 981 341) Contract Manager, Network Maintenance Planning & Delivery Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0410643 – MRT SVC REFURBISHMENT PROJECT

Client	Western Power
Location of Project	The Site is located Western Power's Merredin Terminal located at 214 Robartson Rd, Merredin, WA 6415 (Approximately 250 km East of Perth).
Size and complexity	The major scope of works associated with this project are follows: 1. Excavation 2. Formwork for Concrete Infill Slabs 3. Slab Joints 4. Concrete Pour for Infill Slabs
Time frame of project	Contract with Western Power signed on 11 th September 2020 and project completed on 21 st July 2021.
Value of project	Original Contract Value:- AU \$337,000.00
Reference persons including contact details	Han Chong (M: 0409 521 674) Contract Manager, Network Maintenance Planning & Delivery Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0436112 PACKAGE #8 – CIVIL WORKS - ARP

Client	Western Power
Location of Project	<p>The Asset Replacement Civil works associated at Western Power's;</p> <p>A. Black Flag 132/33kV substation located at off Black Flag-ORA Banda Road in Kalgoorlie</p> <p>B. Muja Substation located at Powerhouse Rd, Muja, WA 6225</p> <p>C. Yilgarn Substation located at Southern Cross-Marvel Loch Road, Southern Cross</p> <p>D. West Kalgoorlie Terminal Substation located at 149 West Kalgoorlie Road, West Kalgoorlie, WA 6430</p> <p>E. Kondinin Substation located at Corrigin-Kondinin Rd, Kondinin, Western Australia</p> <p>F. Eneabba Substation located at Beros Rd, Warradarge, WA 6518</p>
Size and complexity	<p>The major scope of works associated with this project are as follows:</p> <ol style="list-style-type: none"> 1. Primary Plant Foundation 2. Earthing 3. Substation Cabling, Conduits and Pits 4. Foundation Removal and Disposal 5. Primary Plant Structure Disposal 6. Site Surfacing
Time frame of project	Contract with Western Power signed on 23 rd June 2020 and expected project completion in June 2022.
Major vendors and suppliers involved	<p>Hold down bolts: Mbolts</p> <p>Reo materials: Midalia Steel</p> <p>Cable Pit: Reece Australia</p> <p>Fencing and gates: Horizon works</p>
Value of project	Original Contract Value:- AU \$520,000.00
Reference persons including contact details	<p>Todd Curley (M: 0438 981 341)</p> <p>Contract Manager, Network Maintenance Planning & Delivery</p> <p>Western Power – 363 Wellington St, Perth, WA - 6000</p>
Other matters of relevance	

WESTERN POWER: T0433954 WEST KALGOORLIE TERMINAL – CONNECT EGF LOAD CAG82 CIVIL WORKS PROJECT

Client	Western Power
Location of Project	The Site is located approximately 590km East of Perth at West Kalgoorlie Road, West Kalgoorlie, Western Australia (West Kalgoorlie Terminal 220/132kV)
Size and complexity	<p>The major scope of works associated with this project are follows:</p> <ol style="list-style-type: none"> 1. 220kV Strain Gantry Foundations 2. 220 kV Strain Gantries Steel 3. 132kV Strain Gantry Foundations 4. 132 kV Strain Gantries Steel 5. 220kV 250MVA Transformer Foundation (T17 Bund) with associated Earthing Transformer footings & beams, Valve pits etc. 6. Large Precast wall panel (Fire Walls for Transformer 17). 7. 220kV Primary Plant Foundations 8. 132kV Primary Plant Foundations 9. Cable Trenches and FRP Covers at 220kV Yard 10. Conduits and Earth Grid works at 220kV yard and 132kV yard. 11. 14000 Litter Capacity SPEL Puraceptor with associated drainage pipe works 12. Earthing Transformer ET1 bund with associated concrete enclosures, inlet & valve pits, piping to T17puraceptor-adjacent T1 bund 13. Site Surfacing 14. Grouting 15. Signage 16. Substation Cabling and Conduits
Time frame of project	Contract with Western Power signed on 25 th September 2020 and works completed on 30 th April 2021.
Major vendors and suppliers involved	Steel Fabrication:- MSteel Reo-steel Supply:- Midalia Steel
Value of project	Original Contract Value:- AU \$2,309,890.00
Reference persons including contact details	Anshi R Kachroo (M: 0437 498 253) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0436112 – WGP, SHO, WT, EP, MU AND KW - ARP CIVIL

Client	Western Power
Location of Project	<p>The Asset Replacement Civil works associated at Western Power's;</p> <ol style="list-style-type: none"> A. Wagerup Substation located at Willowdale Rd, Wagerup, Western Australia 6215 B. Shotts Substation located at Salvation Rd, Palmer, Western Australia 6225

	<p>C. Western Terminal Substation located at Brockway Rd, Mt Claremont, Western Australia 6010</p> <p>D. East Perth Substation located at Summer Street, East Perth 6004</p> <p>E. Muja Substation located at Muja Power Station Road, Western Australia</p> <p>F. Kwinana Terminal located at 22 Leath Road, Naval Base WA - 6165</p>
Size and complexity	<p>The major scope of works associated with this project are as follows:</p> <ol style="list-style-type: none"> 1. Primary Plant Foundation 2. Earthing 3. Substation Cabling, Conduits and Pits 4. Foundation Removal and Disposal 5. Primary Plant Structure Disposal 6. Site Surfacing
Time frame of project	Contract with Western Power signed on 9 th March 2020 and works completed on 7 th April 2021.
Major vendors and suppliers involved	<p>Hold down bolts: Mbolts</p> <p>Reo materials: Midalia Steel</p> <p>Cable Pit: Reece Australia</p>
Value of project	Original Contract Value:- AU\$ 780,400.00
Reference persons including contact details	<p>Todd Curley (M: 0438 981 341)</p> <p>Contract Manager, Network Maintenance Planning & Delivery</p> <p>Western Power – 363 Wellington St, Perth, WA - 6000</p>

WESTERN POWER: T0420085 & T0469183 PICTON TRANSFORMER T3 & T5 REMOVAL PROJECT

Client	Western Power
Location of Project	Western Power's Picton Depot 1757 Boyanup-Picton Rd, Picton, WA 6229
Size and complexity	<p>The major scope of works associated with this project are follows:</p> <ol style="list-style-type: none"> 1. Project Documentation (Traffic Management Plan, Lift Study, Transport Plan, Site Specific Safety Management Plan, SWMS, etc) 2. Mobilisation and Temporary Bunding (the existing transformer bunds are not sealed) 3. Draining of Transformer oil from Transformers T3 & T5 4. Disassembly of Transformers T3 & T5 5. Lift & transport transformer main tanks T3 & T5 from site to recycling disposal facility, located at West Oz Surplus, 39 Bickley St, Naval Base, Western Australia 6165 (will be performed by General Crane Services WA under supervisor by Global Power)

	<ul style="list-style-type: none"> 6. Transportation of Transformer Accessories and clean-up of existing Transformer bunds and surroundings 7. Transformer winding investigation
Time frame of project	Contract with Western Power signed on 15 th December 2020 and project completed on 15 th April 2021.
Major vendors and suppliers involved	Waste oil collection:- Cleanaway
Value of project	Original Contract Value:- AU\$ 198,500.00
Reference persons including contact details	Han Chong (M: 08 9326 6742) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0436112 CT, KW, COL, MYR, H, & MO – ARP - CIVIL

Client	Western Power
Location of Project	<p>The Asset Replacement Civil works associated at Western Power's;</p> <ul style="list-style-type: none"> A. Collier Substation located at corner of Morrison and Thelma St, Como, Western Australia B. Myaree Substation located at corner of Norma Rd and Kitchener Rd, Booragoon, Western Australia C. Hadfields Substation located at Baltic Court, Bassendean, Western Australia D. Morley Substation located at Coode St and Catherine St, Morley, Western Australia E. Cannington Terminal located at Grose Ave, Cannington, Western Australia F. Kwinana Terminal located at Leith Road, Kwinana, Western Australia G. Rockingham Substation located at Bidstrup Court, Rockingham, WA 6168
Size and complexity	<p>The major scope of works associated with this project are as follows:</p> <ul style="list-style-type: none"> 1. Primary Plant Foundation 2. Earthing 3. Substation Cabling, Conduits and Pits 4. Foundation Removal and Disposal 5. Primary Plant Structure Disposal 6. Site Surfacing
Time frame of project	Contract with Western Power signed on 16 th December 2019 and works completed on 12 th February 2021.
Major vendors and suppliers involved	<p>Hold down bolts: Mbolts Reo materials: Midalia Steel Cable Pit: Reece Australia</p>

Value of project	Original Contract Value:- AU\$ 723,561.60
Reference persons including contact details	Nathan Riganello (M: 0437 525 761) Contract Manager, Network Maintenance Planning & Delivery Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: N0497973 – MULLEWA HVIU INSTALLATION PROJECT

Client	Western Power
Location of Project	The Site is located approximately 450km north of Perth at the west side corner of Geraldton-Mount-Magnet Road and Lovers lane Mullewa, WA - 6630
Size and complexity	The major scope of works associated with this project are as follows: <ol style="list-style-type: none"> 1. Vegetation Clearing 2. Bulk Earthworks; 3. Primary Plant Foundation Works; 4. Drainage Works; 5. Conduit Installation; 6. Earth Grid Installation; 7. Boundary Fence (Weldmesh) installation; and 8. Site Surfacing
Time frame of project	Contract with Western Power signed on 22 nd September 2020 and works completed on 20 th November 2020.
Major vendors and suppliers involved	Steel Fabrication:- MSteel Reo-steel Supply:- Midalia Steel
Value of project	Original Contract Value:- AU\$ 469,800.00
Reference persons including contact details	Han Chong (M: 0409 521 674) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0380419 WARRADARGE WINDFARM - ENEABBA TERMINAL 330kV PROJECT

Client	Western Power
Location of Project	The Site is located at Lot 30, Rose Thomson Road, Eneabba, WA - 6518, approximately 300km north of Perth, Western Australia.

Size and complexity	<p>The major scope of works associated with this new 330kV Terminal includes:</p> <ol style="list-style-type: none"> 1. Vegetation Clearing and Bulk Earthworks for the new switchyard; 2. Construct external and internal road for the new switchyard; 3. Supply and install drainage system for the new switchyard; 4. Storm water drainage works; 5. Supply and install earth grid for the new switchyard; 6. Supply and install strain gantry and primary plant foundations; 7. Supply and install strain gantry and primary plant support steel structures; 8. Supply and build control room building (Precast Concrete wall / tilt-up wall construction); 9. Supply and install lighting and lightning masts of the new switchyard; 10. Cable trenches and covers; 11. Boundary Fence (Weld mesh) works; and. 12. Property Fencing Works. 13. 330kV Primary & Secondary Electrical Works 14. Supply & Installation of Overhead Areal conductors & Busbars 15. Installation & Testing of 330kV Primary Plant Equipment (CBs DIS, CTs VTs SA etc) 16. Security System Works 17. Telecom System Works
Time frame of project	Contract with Western Power signed on 28 th March 2019 and works completed on 26 th July 2020.
Major vendors and suppliers involved	<p>Weldmesh material supplier:- Horizon Works Steel Fabrication:- MSteel Reo-steel Supply:- Midalia Steel Security Systems: BJ System Telecom Systems: Pathfinder</p>
Value of project	Original Contract Value:- AU\$ 14,119,846.00
Reference persons including contact details	<p>Charlotte Stansfield (M: 0447 838 332) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000</p>
Other matters of relevance	<p>Western Power will construct the 10-kilometre transmission line from Synergy's Warradarge wind farm sub-station to the network connection point near Eneabba. The new 330kV Eneabba Terminal (ENT) will be established approximately 10km from the Customer's site (Synergy's Warradarge Wind Farm substation) to provide the Customer with a 330kV connection. Global Power has completed complete package of this new 330kV Eneabba Terminal</p>

WESTERN POWER: ALBANY SUBSTATION ASSET REPLACEMENT PROJECT CIVIL WORKS

Client	Western Power
Location of Project	Albany 132kV Substation

	Albany Highway, near the cross street of Imperial Street, Albany, Western Australia, 6330
Size and complexity	<p>The site works are to be conducted in energized substation for performing the scope of works.</p> <p>The major scope of works associated with the upgradation of 23 sets of Primary Plant Assets are:</p> <ul style="list-style-type: none"> • Modify existing civil foundations of transmission primary plant assets • Dismantle and remove the existing Primary Plant Foundations • Site Surfacing
Time frame of project	Contract with Western Power signed on 20 th December 2018 and project completed on 16 th April 2019.
Major vendors and suppliers involved	Reo-steel Supplier:- Midalia
Value of project	Original Contract Value:- AU\$ 776,780.00
Reference persons including contact details	<p>Han Chong, (M: 04 2727 5870)</p> <p>Contract Manager, Operational Services</p> <p>Western Power – 363 Wellington St, Perth, WA - 6000</p>

WESTERN POWER: MRT CNCT STELLATA SOLAR FARM 100MW - MERREDIN TERMINAL CIVIL WORKS

Client	Western Power
Location of Project	The Site is located at Merredin Terminal (220kV), located at Robartson Road, Merredin, approximately 300km east of Perth, Western Australia
Size and complexity	<p>The major scope of works associated with the partial conversion of this substation to 132kV includes the following</p> <ol style="list-style-type: none"> 1. Construction of New substation bench for additional substation Bay 4; 2. Construction of Primary Plant foundations; 3. Storm water drainage works; 4. Boundary fence (Weld mesh) works. 5. Cable trenches and covers; 6. Installation of Primary Plant Structures and Strain Gantry Structures 7. Substation conduiting; 8. Earthing works; 9. Site surfacing and road works.

Time frame of project	Contract with Western Power signed on 8 th August 2018 and project completed on 25 th March 2019.
Major vendors and suppliers involved	Weldmesh material supplier:- Horizon Works Reo steel Supply:- Midalia Steel
Value of project	Original Contract Value:- AU\$ 3,180,999.00
Reference persons including contact details	Tim Abidin (M: 0429 209 368) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000
Other matters of relevance	This project includes modification and installation of Strain Gantry works, new primary plant foundations, dismantling of some sections existing busbars & primary plant within Bay 1 (220kV live substation).

WESTERN POWER: T0436112 ARP KOJONUP CIVIL WORKS

Client	Western Power
Location of Project	Western Power's Kojonup 132/66/22kV substation located on Tunney Road Kojonup, Western Australia 6395
Size and complexity	The major scope of works associated with the project are follows: <ul style="list-style-type: none"> • Install conduits for existing foundations of transmission primary plant civil assets • Excavations for substation conduits
Time frame of project	Contract with Western Power signed on 30 th January 2019 and project completed on 13 th March 2019.
Major vendors and suppliers involved	
Value of project	Original Contract Value:- AU\$ 70,200.00
Reference persons including contact details	Han Chong, (M: 08 9326 6742) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0425186 PTA FAL - FORRESTFIELD SUBSTATION CIVIL WORKS

Client	Western Power
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Location of Project	Western Power's Forrestfield (FFD) 132/22kV Substation, located on Dubs Close, (nearest cross road of Abernethy Road), Forrestfield, Western Australia, 6058.
Size and complexity	<p>The site works are to be conducted in energized substation for performing the scope of works.</p> <p>The major scope of works associated with the upgradation of 23 sets of Primary Plant Assets are:</p> <ul style="list-style-type: none"> • Install new Primary Plant Foundations • Upgrade Earth Grid Works • Install Underground Conduits • Site Surfacing
Time frame of project	Contract with Western Power signed on 20 th December 2018 and project completed on 1 st March 2019.
Major vendors and suppliers involved	Reo-steel Supplier:- Midalia
Value of project	Contract Value:- AU\$ 122,714.00
Reference persons including contact details	<p>Tim Abidin (M: 0429 209 368)</p> <p>Contract Manager, Operational Services</p> <p>Western Power – 363 Wellington St, Perth, WA - 6000</p>

WESTERN POWER: T0436112 ARP _ EAST PERTH 132kV SUBSTATION CIVIL WORKS

Client	Western Power
Location of Project	<p>East Perth 132kV Substation</p> <p>Summers Street, East Perth, Western Australia, 6004</p>
Size and complexity	<p>The site works are to be conducted in energized substation for performing the scope of works.</p> <p>The major scope of works associated with the upgradation of 23 sets of Primary Plant Assets are:</p> <ul style="list-style-type: none"> • Modify existing civil foundations of transmission primary plant assets • Dismantle and remove the existing Primary Plant Foundations • Site Surfacing
Time frame of project	Contract with Western Power signed on 20 th December 2018 and project completed on 15 th February 2019.

Major vendors and suppliers involved	Reo-steel Supplier:- Midalia
Value of project	Contract Value:- AU\$ 92,812.50
Reference persons including contact details	Milan Petrovic, (M: 0459162645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: T0436112 ARP MULLALOO SUBSTATION

Client	Western Power
Location of Project	Western Power's Mullaloo 132/22 kV Substation, Joondalup Drive, Edgewater, Western Australia 6027
Size and complexity	The major scope of works associated with the project are follows: <ul style="list-style-type: none"> • Excavate and remove the existing Combined CB & CT foundation • Construct new combined CB & CT Foundation • Installation of new M20 Hilti Anchors • Cut Off existing Hold Down Bolts • Excavation and installation of Conduits • Excavate Earthing cable trench
Time frame of project	Contract with Western Power signed on 5 th November 2018 and project completed on 28 th January 2019.
Major vendors and suppliers involved	Reo-steel Supplier:- Midalia Hold down bolts: Mbolts
Value of project	Original Contract Value:- AU\$ 31,700.00
Reference persons including contact details	Milan Petrovic, (M: 0459 162 645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER: TS602 CB AND CT REPLACEMENT – CIVIL AT THREE SPRINGS SUBSTATION

Client	Western Power
Location of Project	Western Power's Three Springs 132/33kV Substation located at Perenjori Road Three Springs WA 6519

Size and complexity	The major scope of works associated with the project are follows: <ul style="list-style-type: none"> • Demolish the existing CT/CB foundation • Construct new CT/CB foundation • Transport and place the prefabricated CT/CB foundation • Connect 100mm conduits from new foundation • Excavate Earthing cable trench • Site reinstatement
Time frame of project	Contract with Western Power signed on 26 th June 2017 and project completed on 26 th November 2018.
Major vendors and suppliers involved	Reo-steel Supplier:- Midalia Hold down bolts: Mbolts
Value of project	Original Contract Value:- AU\$ 16,240.00
Reference persons including contact details	Milan Petrovic, (M: 0459 162 645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER BADGINGARRA 132kV SUBSTATION WORKS

Client	Western Power
Location of Project	The Site is located on approximately 30 km east of Cervantes and 35 km north-west of Jurien Bay next to the Badgingarra stat forest and Emu Downs Wind Farm in Western Australia
Size and complexity	The major scope of works associated with the partial conversion of this substation to 132kV includes the following <ol style="list-style-type: none"> 1. Construction of New Relay room building. Precast construction; 2. Construction of Primary Plant foundations; 3. Storm water drainage works; 4. Boundary fence (Weld mesh) works. 5. Cable trenches and covers; 6. Fabrication, Supply and installation of Primary Plant Structures and Strain Gantry Structures 7. Substation conduiting; 8. Earthing works; 9. Site surfacing and road works.
Time frame of project	Contract with Western Power signed on 16 th May 2018 and project completed on 8 th October 2018.
Major vendors and suppliers involved	Steel Fabrication:- Midalia Steel Precast Concrete Wall Fabrication:- Dencona Precast

Value of project	Contract Value:- AU\$ 2,290,541.00
Reference persons including contact details	Cornel Rheeder Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

WESTERN POWER NORTHERN TERMINAL SECURITY FENCE UPGRADE

Client	Western Power
Location of Project	Northern Terminal Corner of Beach road and Weir Road, Malaga, WA - 6090
Size and complexity	The site works are to be conducted in energized substation for performing the scope of works. The major scope of works associated with the partial conversion of this substation to 132kV includes the following <ol style="list-style-type: none"> 1. Civil Works include but not limited to supply and installation of materials to complete internal and external roads, fence, underground service routes for cables and equipment foundations works. 2. Structural Works include but not limited to supply and install of materials to complete weld mesh fence and associated structural works for security equipment. 3. Security & Electrical Works include but not limited to supply, installation and commissioning of security and electrical equipment
Time frame of project	Contract with Western Power signed on 17 th January 2018 and the project completed on 29 th Aug 2018.
Major vendors and suppliers involved	Fencing subcontractor:- Southern Wire Industrial Fencing Security Systems subcontractor: BJ Systems
Value of project	Contract Value:- AU\$ 4,183,860.00
Reference persons including contact details	Milan Petrovic, (M: 0459162645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000
Other matters of relevance	

WESTERN POWER: T0436112 Bibra Lake APM Substation - Replace Foundations for Circuit 701 - Civil Works

Client	Western Power
Location of Project	Western Power's Australian Paper Mill (APM) 66kV/22kV Substation (Circuit 701), and is located at Lot 74 on Sudlow Road, Bibra Lake; near the cross road of Horus Bend.
Size and complexity	The major scope of works associated with the project are follows: <ul style="list-style-type: none"> • Remove some existing foundations • Provide civil trenching and backfilling services • Install conduits between existing pits and structures
Time frame of project	Contract with Western Power signed on 7 th June 2018 and project completed on 20 th July 2018.
Major vendors and suppliers involved	Reo-steel Supplier:- Midalia Hold down bolts: Mbolts
Value of project	Original Contract Value:- AU\$ 17,860.00
Reference persons including contact details	Milan Petrovic, (M: 0459162645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000
Other matters of relevance	

REPLACE DC SYSTEMS - BATTERY ROOM UPGRADES

Client	Western Power
Location of Project	T0436131 Replace DC Systems - Battery Room Upgrades <ol style="list-style-type: none"> 1. Southern Terminal 330/132kV Substation, Corner Annois Road and Windmill drive, Bibra Lake, Western Australia 6163 2. East Perth 132kV Substation, Corner Summers Street and Joel Terrace, East Perth, Western Australia 6004 3. Beenup 132/22kV Substation, Corner Payne Road and Scott River Road, Courtenay, Western Australia, 6228 4. Cook Street 132/11kV Substation, Corner Cook Street and Thomas Street, West Perth, Western Australia 6005; and 5. Cannington Terminal 132/66kV Substation, Corner Carousel Road and Grose Avenue, Cannington, Western Australia 6107

Size and complexity	<p>The site works are to be conducted in energized substation (inside live battery rooms) for performing the scope of works.</p> <p>The Scope of Work of this project includes all or part of the below activities in each battery rooms at the above substations:</p> <ol style="list-style-type: none"> 1. Repainting of Battery rooms. 2. Replacing of Battery Room ventilation Fans 3. Minor civil works associated with Ventilation Fan replacement. 4. Electrical works associated with Ventilation Fan replacement
Time frame of project	Contract with Western Power signed on 17 th January 2018 and the project completed on 9 th May 2018.
Major vendors and suppliers involved	Nil
Value of project	Contract Value:- AU\$192,950.00
Reference persons including contact details	Milan Petrovic, (M: 0459162645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA – 6000

BADGINGARRA WIND FARM SUBSTATION CIVIL WORKS PACKAGE

Client	Consolidated Power Projects Pty Ltd (CPP)
Location of Project	The Site is located on approximately 30 km east of Cevanties and 35 km north-west of Jurien Bay next to the Badgingarra stat forest and Emu Downs Wind Farm in Western Australia
Size and complexity	<p>Consolidated Power Projects Australia Pty Ltd (CPP) and Catcon as a consortium have been awarded the complete Balance of Plant contract for the construction of the Badgingarra Wind Farm. The Badgingarra Wind Farm comprises 37 SIEMENS Wind Turbine Generators (WTG's) and forms part of the APA renewable energy sector.</p> <p>Catcon has been awarded the civil component, tower foundations, roads and hardstands and in turn Consolidated Power Projects (CPP) has been awarded the electrical substation and cable reticulation and Global Power Services is CPP's subcontractor for following:</p> <p>All the associated works for the concrete supply and installation of the substation civils, for the Badgingarra Wind Farm Substation. Including the earth grid excavations, all primary plant foundations, transformer bunds, control room and reactive plant foundations. Installation of conduits cable pits and cable ducts. Installation of the substation gates and fences and the final supply and install of the 20mm aggregate blue-metal to a minimum specified thickness of 150mm.</p>

Time frame of project	Contract with Western Power signed on 18 th January 2018 and the project completed on 30 th May 2018.
Major vendors and suppliers involved	Nil
Value of project	Contract Value:- AU\$1,095,879.00
Reference persons including contact details	Andrew Sims Project Manager Consolidated Power Projects Australia Pty Ltd Office: +61 8 8291 7800 Fax: +61 8 8291 7801 Mobile: +61 437 900 101 Email: asims@conpower.com.au Web: www.conpower.com.au
Other matters of relevance	

WESTERN POWER: T0436112 & T0356347 BELMONT SUBSTATION ARP CIVIL WORKS

Client	Western Power
Location of Project	Western Power's Belmont 132/33 kV substation, located at 22 Belgravia Street, Belmont, Western Australia 6104
Size and complexity	The major scope of works associated with the project are follows: <ul style="list-style-type: none"> • Demolish the existing CB foundation • Construct new foundations • Modify the existing foundations • Pits and Conduits • Excavate Earthing cable trench
Time frame of project	Contract with Western Power signed on 9 th November 2017 and project completed on 24 th January 2018.
Major vendors and suppliers involved	Reo-steel Supplier:- Midalia Hold down bolts: Mbolts
Value of project	Original Contract Value:- AU\$ 22,320.00
Reference persons including contact details	Milan Petrovic, (M: 0459162645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000

Other matters of relevance	
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WESTERN POWER: T0436112 RIVERTON SUBSTATION RTN 506.0 CB CIVIL WORKS

Client	Western Power
Location of Project	Western Power's Riverton 132/22 kV substation, located at 20 Camm Avenue, Bull Creek, Western Australia 6149.
Size and complexity	The major scope of works associated with the project are follows: <ul style="list-style-type: none"> • Remove / Demolish the existing CB foundation • Construct new combined CB/CT foundation • Pits and Conduits • Excavate Earthing cable trench • Site reinstatement
Time frame of project	Contract with Western Power signed on 10 th November 2017 and project completed on 25 th November 2017.
Major vendors and suppliers involved	Reo-steel Supplier:- Midalia Hold down bolts: Mbolts
Value of project	Original Contract Value:- AU\$ 10,794.00
Reference persons including contact details	Milan Petrovic, (M: 0459 162 645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000
Other matters of relevance	

WESTERN POWER MEADOW SPRINGS SUBSTATION UPGRADE

Client	Western Power
Location of Project	Meadow Springs 132kV Substation located at Highcliff Circle, Lakelands WA 6180
Size and complexity	The site works are to be conducted in energized substation for performing the scope of works. The major scope of works associated with the partial conversion of this substation to 132kV includes the following <ol style="list-style-type: none"> 1. Construction of New Switch room 2 building. Precast construction; 2. Construction of Transformer Bund; 3. Modification palisade fencing with new switch room and temporary fencing;

	<p>4. Construction of Circuit breaker footing and station transformer foundation.</p> <p>5. Cable trenches and covers;</p> <p>6. Storm water drainage works to integrate new switch room and transformer bund</p> <p>7. Substation conduiting;</p> <p>8. Earthing works;</p> <p>9. Site surfacing and road reinstatement works.</p>
Time frame of project	Contract with Western Power signed on 5 th January 2017 and project completed on 24 th July 2017.
Major vendors and suppliers involved	Precast Wall Panels:- Dencona Precast
Value of project	Contract Value:- AU\$ 1,076,611.00
Reference persons including contact details	<p>Han Chong, (M: 04 2727 5870)</p> <p>Contract Manager, Operational Services</p> <p>Western Power – 363 Wellington St, Perth, WA - 6000</p>
Other matters of relevance	Installation of a 33MVA Power Transformer under contract from ABB also completed by Global Power at the same substation in parallel to this contract with Western Power

MOORA - SA REPLACEMENT - CIVIL WORKS AT MOORA SUBSTATION	
Client	Western Power
Location of Project	Western Power's Moora substation, 3429 Miling-Moora Rd, Moora WA 6510
Size and complexity	<p>The major scope of works associated with the project are follows:</p> <ul style="list-style-type: none"> • Install chemical-anchors • Install structural props • Grouting of Baseplates
Time frame of project	Contract with Western Power signed on 16 th May 2017 and project completed on 2 nd June 2017.
Major vendors and suppliers involved	
Value of project	Original Contract Value:- AU\$ 14,370.00

Reference persons including contact details	Milan Petrovic, (M: 0459 162 645) Contract Manager, Operational Services Western Power – 363 Wellington St, Perth, WA - 6000
Other matters of relevance	

WESTERN POWER PORTABLE EARTHING (MINI CUBE) PROJECT

Client	Western Power
Location of Project	<p>23 Substations as listed below:</p> <ol style="list-style-type: none"> 1. Osborne Park 132/11kV Substation – Scarborough Bch Rd & Ellen Stirling Bvd, Innaloo 2. Yanchep 132/22kV Substation – Romeo Rd & Wanneroo Rd, Carabooda 3. Cataby 132/33kV Substation – W Brand Hwy & Nth of Cooljarloo Rd, Cooljarloo 4. Darlington 132/22kV Substation – Victor Rd & Hudman Rd, Darlington 5. Northam 132kV Substation – Northam-York Rd, Northam 6. Northam 22kV Substation – Northam-York Rd, Northam 7. Geraldton 132/22kV Substation – Eighth St, Woorree 8. Three Springs 131/33kV Substation – Perenjori Rd & Morowa Rd, Three Springs 9. Bunbury Harbour 132/22kV Substation – Estuary Dve & Koombana Dve, Vittoria 10. Capel 66/22kV Substation – Bussell Hwy, Capel 11. Collie 66/22kV Substation – Patsone Rd, Collie 12. Quinninup 66/22kV Substation – Wheatley Coast Rd & Off Sth West Hwy, Quinninup 13. Albany 132/22kV Substation – Albany Hwy & Imperial St, Albany 14. Kellerberrin 66/22kV Substation, Corner of Doy Road and Great Eastern Hwy 15. Carrabin 66/22kV Substation – Carrabin South Road & Off Railway Line, Carrabin 16. Southern Cross 66/33kV Substation – Buillfinch Rd, Southern Cross 17. Katanning 66/22kV Substation – Kojonup Rd, Illareen Rd, Katanning 18. Wagin 66/22kV Substation – Tillellan Rd, Arthur Rd, Wagin 19. Narrogin 66/22kV Substation, Booth St & Graham Road, Narrogin 20. Katanning 66/22kV Substation – Kojonup Rd, Illareen Rd, Katanning 21. Wagin 66/22kV Substation – Tillellan Rd, Arthur Rd, Wagin 22. Narrogin 66/22kV Substation, Booth St & Graham Road, Narrogin 23. South Fremantle substation, McTaggart Cove, South Fremantle
Size and complexity	The site works are to be conducted in energized substation for performing the scope of works.

	The major scope of works associated with the Minicube project are the construction & installation of foundations and associated earthing to existing substation earth grid to house a 'mini cube sea container' within each of the specified substations
Time frame of project	Contract with Western Power signed on 22 nd December 2016 and project completion on 3 rd May 2017.
Major vendors and suppliers involved	Nil
Value of project	Contract Value:- AU\$ 190,163.00
Reference persons including contact details	Milan Petrovic Contract Manager Operational Services Western Power – 363 Wellington Street Perth WA 6000 T: (08) 9326 1021 M: 0459162645
Other matters of relevance	The substations were located at various suburbs of Western Australia from Metro area to Country area. The works were planned and executed with proper planning with considering all logistics aspects of this project.

MACARTHUR WIND FARM PROJECT - CONSTRUCTION OF 132kV MACARTHUR & TARRONE SUBSTATIONS

Client	Leighton Contractors Propriety Limited (LCPL)
Location of Project	1850 MacArthur-Hawkesdale Rd, MacArthur VIC 3286 Approximately 300 kilometres from Melbourne
Size and complexity	The main purpose of this Australian Gas Light (AGL) project is to generate enough clean, green energy to power the equivalent of approximately 173,000 average Australian homes. Leighton Contractors Propriety Limited (LCPL) were the Main Contractor at site. Civil works completed by LCPL. All Electrical works (including structural steel) were carried out by Global Power directly. This project involves the construction works at two different locations (132kV Macarthur substation & 500kV Tarrone Substations), which Global Power

	managed successfully with proper planning of logistical and resources management.
Time frame of project	Contract with LCPL signed on 13 th February 2012 and project completion on 31 st May 2012.
Major vendors and suppliers involved	Primary Plant Equipment:- LCPL Busbars and other yard fittings and materials:- LCPL Cables:- LCPL
Value of project	Contract Value:- AU\$ 2,958,700.00
Reference persons including contact details	Nicholas Cole, EPIC Project Engineer, Tel: (03) 9228 7700
Other matters of relevance	Installation of 2 numbers of 132kV 280MVA Transformers and 1 number 132kV 50kA 3 bay GIS (all supplied by Hyosung Corporation Korea) was also installed at Macarthur Substation by Global Power in parallel to the contract with LCPL Installation of 1 numbers of 132kV 600MVA Transformers and 1 number 132kV 50kA 7 bay GIS (all supplied by Hyosung Corporation Korea) was also installed at Tarrone Terminal by Global Power in parallel to the contract with LCPL The contract Value of installation of those Hyosung supplied Equipment is \$889,900.00. This is in addition to the contract directly with LCPL.

MERREDIN POWER SUBSTATION - CONSTRUCTION OF 132KV SUBSTATION

Client	Western Power
Location of Project	Lot 190, Robartson Road, Merredin, WA Approximately 10kilometers from the small country town of Merredin
Size and complexity	The main purpose of this Western Power (WP) project is to connect Electrical Power generated by Merredin Energy Pty Ltd's (ME) from their 73.5MW Merredin Power Station (MDP) to Western Power's network at Merredin Terminal (MRT). This project requires the an additional terminal bay (Bay 7) at Merredin Terminal, Installation of Relay rooms at Merredin Power Station and Merredin Zone substation. All the civil works, Electrical works, Earthing works and final road works were carried out by Global Power directly This project involves the construction works at three different locations (substations), which Global Power managed successfully with proper planning of logistical and resources management.
Time frame of project	Contract with Western Power signed on 11 th October 2011 and project completion on 5 th May 2012.

Major vendors and suppliers involved	<p>Primary Plant Equipments:- Western Power Busbars and other yard fittings and materials:- PLP Australia Cables:- Western Power & L & H, WA Lighting / Lighting Masts:- Ingal EPS, Maddington, WA Structural Fabrication:- M-Steel Miscellaneous Electrical & civil Materials:- EIW, Malaga</p>
Value of project	Contract Value:- AU\$ 1,342,000.00
Reference persons including contact details	<p>Bob Merryfull, Construction Manager (Western Power), Tel: (08) 9326 4160 Mob 0427 083 532</p>
Other matters of relevance	<p>This substation project involves the modification of protection and scada systems in the existing Merredin Zone Substation to configure with the new Bay 7. Global Power carried out these modification works within the planned short term power outages at these stations.</p>

MADDINGTON SUBSTATION - CONSTRUCTION OF 132KV SUBSTATION

Client	Western Power
Location of Project	29, Austin Avenue, Maddington, WA - 6109
Size and complexity	<p>The existing 132kV transmission line between Cannington terminal and Gosnells substations has been reconfigured to connect into the new Maddington substation. This work involves replacing a number of the existing wood poles and installing several new steel poles.</p> <p>Maddington substation designed as initially to be a single transformer substation with 25MVA capacity with another two transformer bays for future expansion.</p> <p>Global Power was the principal contractor of the project with Roam Pty Ltd as Poles fabrication & installation subcontractor and M-steel as structural steel fabrication subcontractors.</p> <p>All the civil works, Electrical works, Earthing works and final road works were carried out by Global Power directly</p>
Time frame of project	Contract with Western Power signed on 23rd September 2010 and project completion on 5th May 2011. Actual construction works on site between 18th October 2010 and 5th May 2011
Major vendors and suppliers involved	<p>Primary Plant Equipments:- Western Power Busbars and other yard fittings and materials:- PLP Australia Marshalling Box fabrication:- Star sheet metals, Perth Cables:- Western Power & L & H, WA Lighting / Lighting Masts:- Ingal EPS, Maddington, WA Structural Fabrication:- M-Steel</p>

	Poles Fabrication & Installation:- Roam Pty Ltd, Malaga, WA Miscellaneous Electrical & civil Materials:- EIW, Malaga
Value of project	Contract Value:- AU\$ 2,601,122.00
Reference persons including contact details	Nigel Darby, Construction Contract Manager (Western Power), Tel: (08) 9326 6518 Mob 0447 728 366
Other matters of relevance	This substation project involves the modification of protection and scada systems in the existing Gosnells and Cannington substations to configure with the new Maddington substation. Global Power carried out these modification works within the planned short term power outages at these stations.

COLLGAR WIND FARM - CONSTRUCTION OF 220KV TERMINAL STATION	
Client	Western Power
Location of Project	945, Bulls Head Road, Nora Dt, Merredin, WA - 6415
Size and complexity	<p>The Collgar Wind Farm is one of the largest renewable energy projects to be undertaken in Western Australia and is forecast to generate and deliver, on average, 792,000MWh of renewable electricity into Western Power's network - the South West Interconnected System.</p> <p>The construction of 220KV terminal has successfully been completed by Global Power within the scheduled time.</p> <p>This made possible to Global Power by early planning on all complex issues like finding proper accommodation for our site team in this country area (where the main Collgar wind farm construction project is going on), proper logistic operations to sent equipments and materials to Collgar site from city.</p>
Time frame of project	Contract with Western Power signed on 18th June 2010 and project completion on 25th Jan 2011. Actual construction works on site between 19th July 2011 and 25th Jan 2011
Major vendors and suppliers involved	<p>Primary Plant Equipments:- Western Power Busbars and other yard fittings and materials:- PLP Australia Marshalling Box fabrication:- Star sheet metals, Perth Cables:- Western Power & L & H, WA Lighting / Lighting Masts:- Ingal EPS, Maddington, WA Panel Board Fabrication:- NRP Electricals, WA Fire System (Vesda):- Wormald, WA Miscellaneous Electrical & civil Materials:- EIW, Malaga</p>
Value of project	Contract Value:- AU\$ 1,909,593.00
Reference persons including contact details	Bob Merryfull,

	Construction Manager (Western Power), Tel: (08) 9326 4160 Mob 0427 083 532
Other matters of relevance	<p>The \$750 million Collgar Wind Farm is the largest wind farm in the southern hemisphere and is expected to generate enough electricity to power more than 120,000 homes.</p> <p>Western Power Managing Director Doug Aberle said it was a significant project for the business.</p> <p>"Western Power is pleased to have delivered the connection project under budget and ahead of schedule," Mr Aberle said. (<i>quoted in Western Power website</i>)</p>

CLARKSON 132/22kV SUBSTATION, WESTERN AUSTRALIA	
Client	Western Power
Project Overview <i>(e.g. greenfield, brownfield, coordination with other contractors...)</i>	Complete greenfield civil and electrical construction including pre-commissioning of Western Power's 132/22kV Clarkson Substation, Western Australia
Contract Value	\$2,000,000.00
Completion Date	2007
Services Provided	<p>Complete Electrical works of:-</p> <ul style="list-style-type: none"> • 2 line circuits, 1 transformer circuit • 22kV indoor switchboard assembly • Complete civil works • Steel structure fabrication and erection • Primary plant installation and assembly • Switchroom and control room fit out including panel fabrication and wiring • Field control/protection cabling and AC/DC supplies • Pre-commissioning and testing • Site Assembly and testing of 2 x 132/22-11kV 33MVA transformers of VA Tech EBG
Delivery Method <i>(include whether Principal Contractor)</i>	<ol style="list-style-type: none"> 1. Substation works as subcontract to Thiess Kentz (It was Thiess Kentz 1st substation project) 2. Transformer assembly works as subcontract to VA Tech EBG (the transformer manufacture)

Relevance of Project and Services performed	Substation and transformer assembly and testing works	
Referee Contact Details	Bob Merryful, Western Power	(08) 93264160

SOUTHERN TERMINAL SUBSTATION, WESTERN AUSTRALIA

Client	Western Power	
Project Overview <i>(e.g, greenfield, brownfield, coordination with other contractors...)</i>	Brownfield electrical construction including pre-commissioning	
Contract Value	\$600,000.00	
Completion Date	2007	
Services Provided	Electrical construction and commissioning of 2 additional 132kV bays:- <ul style="list-style-type: none"> ▪ 2 bays breaker and half yard ▪ Fitout of new tilt panel switchroom ▪ Interconnection with existing control room ▪ Install complete AC & DC system in new relay room 	
Delivery Method <i>(include whether Principal Contractor)</i>	Sub contract of Thiess Kentz	
Relevance of Project and Services performed	Substation fitout, Power & Control systems	
Referee Contact Details	Bob Merryful, Western Power	(08) 93264160

330/132kV KENWICK LINK TERMINAL SUBSTATION, WA

Client	Western Power	
Project Overview <i>(e.g, greenfield, brownfield, coordination with other contractors...)</i>	Complete greenfield electrical construction including pre-commissioning	
Contract Value	\$650,000.00	
Completion Date	2007	

Services Provided	Substation construction including pre-commissioning:- <ul style="list-style-type: none"> ▪ Complete Switchroom fit out ▪ Install complete AC & DC systems ▪ Fabrication and installation of protection racks ▪ Installation of 550MVA 330/132-22KV Transformers ▪ Complete primary erection works ▪ Testing and commissioning 	
Delivery Method <i>(include whether Principal Contractor)</i>	Sub contract of Thiess Kentz	
Relevance of Project and Services performed	Substation fitout, Transformer erection, Primary erection works, Power & Control systems	
Referee Contact Details	Bob Merryful, Western Power	(08) 93264160

132kV ZONE SUBSTATION AT MANILDRA, NEW SOUTH WALES

Client	Country Energy	
Project Overview <i>(e.g. greenfield, brownfield, coordination with other contractors...)</i>	Complete greenfield civil and electrical construction of a 2 x transformer 132kV zone substation at Manildra, NSW	
Contract Value	\$1,200,000.00	
Completion Date	2002	
Services Provided	Complete greenfield civil and electrical construction of a 2 x transformer 132kV zone substation including construction of 300 Sq. meter control building with sub basement:- <ul style="list-style-type: none"> ▪ Complete Switchroom fit out ▪ Install complete AC & DC systems ▪ Fabrication and installation of protection racks ▪ Installation of 550MVA 330/132-22KV Transformers ▪ Complete primary erection works ▪ Testing and commissioning 	
Delivery Method <i>(include whether Principal Contractor)</i>	Principal contractor to Country Energy	
Relevance of Project and Services performed	Substation fit out works	

Referee Contact Details	Bob Bowden	0419435078
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MILLSTREAM 220/132kV SUBSTATION (RIO TINTO'S MILLSTREAM OPERATIONS), WESTERN AUSTRALIA

Client	ABB / Western Power Business Development Joint Venture	
Project Overview <i>(e.g, greenfield, brownfield, coordination with other contractors...)</i>	Millstream 220/132kV Substation (Rio Tinto's Millstream operations), Western Australia	
Contract Value	1,300,000.00	
Completion Date	2005	
Services Provided	<ul style="list-style-type: none"> • Complete 220/132kV substation • 2 line circuits in, 4 line circuits out plus 1 transformer • Steel structure erection • Primary plant installation and assembly • Switchroom and control room installation • Field control/protection cabling and AC/DC supplies • Pre-commissioning and testing 	
Delivery Method <i>(include whether Principal Contractor)</i>	Sub contract of Western Power Business Development Joint Venture	
Relevance of Project and Services performed	Complete civil and electrical fit out of substation	
Referee Contact Details	Tony Ryan	(08) 9326 4135

WEST KALGOORLIE TERMINAL SUBSTATION, WESTERN AUSTRALIA

Client	Western Power	
Project Overview	Installation of 33kV capacitor bank and 33kV switchboard and rearrangement of transformer circuits at Western Power's West Kalgoorlie Terminal Substation, Western Australia	

<i>(e.g. greenfield, brownfield, coordination with other contractors...)</i>	
Contract Value	\$160,000
Completion Date	2005
Services Provided	Installation of 33kV capacitor bank and 33kV switchboard and rearrangement of transformer circuits at Western Power's West Kalgoorlie Terminal Substation, Western Australia Extension of brick substation building at Western Power's West Kalgoorlie Terminal Substation, Western Australia
Delivery Method <i>(include whether Principal Contractor)</i>	<i>Principal Contractor of Western Power</i>
Relevance of Project and Services performed	Substation fit out works
Referee Contact Details	Charlie Ballard (08) 93264911

TRANSGRID'S REGENTVILLE TERMINAL STATION, NEW SOUTH WALES

Client	Western Power Business Development Joint Venture
Project Overview <i>(e.g. greenfield, brownfield, coordination with other contractors...)</i>	Installation of 132kV capacitor bank and associated foundations including switchgear and protection panels at Transgrid's Regentville Terminal Station, New South Wales
Contract Value	\$250,000.00
Completion Date	2004
Services Provided	Installation of 132kV capacitor bank and associated foundations including switchgear and protection panels at Transgrid's Regentville Terminal Station, New South Wales
Delivery Method <i>(include whether Principal Contractor)</i>	Sub contract of Western Power Business Development Joint Venture

Relevance of Project and Services performed	Electrical fit out of substation	
Referee Contact Details	Tony Ryan	(08) 9326 4135

BHP BILLITON'S JUNCTION SUBSTATION (1600KM NORTH OF PERTH), WESTERN AUSTRALIA

Client	Areva T&D /Downer Engineering	
Project Overview <i>(e.g. greenfield, brownfield, coordination with other contractors...)</i>	Primary installation of 220kV line circuit and 6 x transformer circuits Station, Pilbara, Western Australia	
Contract Value	\$1,300,000.00	
Completion Date	2004	
Services Provided	<p>Primary installation of 220kV line circuit and 2 x transformer circuits at BHP Billiton's Junction Substation (1600km north of Perth), Western Australia</p> <p>Primary installation of 220kV line circuit and 2 x transformer circuits at BHP Billiton's Yandicoogina Substation (1600km north of Perth), Western Australia</p> <p>Primary installation of 2 x 220kV line circuit and a circuit at BHP Billiton's Newman Substation (1600km north of Perth), Western Australia</p>	
Delivery Method <i>(include whether Principal Contractor)</i>	Subcontract of Downer Engineering	
Relevance of Project and Services performed	Primary installation works	
Referee Contact Details	Jeff Yates of Downer Engineering	

TRANSGRID'S TUGGERAH SUBSTATION, NEW SOUTH WALES

Client	Western Power Business Development Joint Venture	
Project Overview <i>(e.g. greenfield, brownfield, coordination with other contractors...)</i>	Complete civil and electrical installation of 2 x 132kV capacitor banks and associated circuits at Transgrid's Tuggerah Substation, New South Wales	

Contract Value	\$600,00.00	
Completion Date	2003	
Services Provided	Complete civil and electrical installation of 2 x 132kV capacitor banks and associated circuits at Transgrid's Tuggerah Substation, New South Wales	
Delivery Method <i>(include whether Principal Contractor)</i>	Sub contract of Western Power Business Development Joint Venture	
Relevance of Project and Services performed	Electrical fit out of substation	
Referee Contact Details	Tony Ryan	(08) 9326 4135

West Angeles 220/33/22kV Substation (1600km north of Perth), Western Australia

Client	▪ Areva T&D / Downer Engineering	
Project Overview	Primary Installation of 220KV line circuits at Tom Price, Yandicoogina and West Anglos Substations	
Contract Value	\$1,200,000.00	
Completion Date	2003	
Services Provided	<p>Primary installation of one bay in a 220kV breaker-and-a- half substation at Mt Tom Price (1600km north of Perth), Western Australia</p> <p>Primary installation of 220kV line circuit and transformer including MV equipment at Yandicoogina Substation (1600km north of Perth), Western Australia</p> <p>Primary installation of 220kV line circuit and transformer including MV equipment at West Anglos Substation (1600km north of Perth), Western Australia</p>	
Delivery Method <i>(include whether Principal Contractor)</i>	Subcontract of Downer Engineering	
Relevance of Project and Services performed	Primary installation works	
Referee Contact Details	Jeff Yates of Downer Engineering	