Capability

Global Power has experience and expertise in a number of key high voltage and associated disciplines including transformer management, Gas Insulated Switchgear (GIS) assembly, high voltage plant, civil and structural services, primary electrical construction, secondary assembly/wiring and testing/commissioning services.

Our satisfied customers include Western Power, Talison Lithium, Alinta Energy, PTA, Water Corporation, Powerlink, Transgrid, Endeavor Energy, Synergy, Bilfinger Berger, GDF Suez & Consolidated Power Project and equipment suppliers such as Siemens, Hyundai Heavy Industries, Hyosung Corporation, ABB, Alstom, VA Tech EBG, VA Tech Elin, Wilson Transformers, CG Pauwels, Trench, JST Transformer, Fortune Electric, Schneider and Areva.

We have undertaken works across Australia, from capital cities and confined work spaces to remote rural areas with unique logistical issues. We have the expertise to cope with the harshest terrain and working conditions.

A comprehensive list of Substation Projects completed by Global Power is attached for your reference (Global Power Reference List of Substation Projects). A comprehensive list of Transformer & GIS works completed by Global Power is also attached for your reference (Global Power Reference List of Transformer GIS Assembly).

All of the above detailed projects were completed by using 90% of own resources in high-risk environment substations most of them belongs to Western Power.

Global Power has Electrical Contractors Licences to undertake related works across Australia. We also hold a current Building Registration Licence.

Global Power holds a variety of insurances including Public Liability, Workers Compensation, Corporate Travel, Construction and Commercial Motor Vehicle Insurance. All relevant policies are available to clients upon request.

Staff

Global Power has an experienced staff comprising core full time employees, long-term sub-contractors, apprentices and contract consultants. We provide a productive working environment and maintain the skills of our workforce through formal training and on the job skills development. Our support of apprentices and work experience placements demonstrates our strong commitment in the energy industry.

Global Power Services has the ability to complete each project from end to end but more importantly we control in house the main site components being Civil & Structural Construction and Primary & Secondary Electrical works. Working with Global Power for High Voltage substation projects, means choosing the following advantages & benefits:

- ✓ **Skilled and Experienced Teams in all the activities**
- ✓ **Application of relevant Australian Standards**
- ✓ **Respect & Adoption of Client Specific (such as Western Power) standards & requests**
- ✓ **Willpower not to exceed the deadlines and to accomplish a high Quality projects**
- ✓ **An effective & quicker after sales services**
- ✓ **Partnership with client.**

Our director has over 18 years utility industry experience – including field based construction and specialist technical roles. This, together with a further 20 years of business experience with Global Power allows us to offer a complete range of specialist high voltage services with the backing of a detailed knowledge of the industry. Peter Gibson is holding qualifications of Electrical Licence, Western Power RIC (Recipient In Charge), Western Power Network Authorities (NAC) to perform and oversee the works within Western Power substations.

Our General Manager, Mike Gibson, is working with Global Power Services since 2005. He gained knowledge and expertise with hands on experience in the area's substation construction (civil, structural, primary, secondary, scada, comms & security), commissioning and maintenance. He is working as project leader for these areas since October 2009. He has well knowledge in the Transmission & Utility networks within Western Australia and other states. He shared his knowledge and experience with major firms such as Western Power, Talison, Alinta Energy, PTA etc in developing the scope of works, project planning and successful delivery of projects with proposals to overcome all hurdles and constraints. He took operational and general charge of Global Power from March 2020. Mike Gibson is holding qualifications of Electrical Licence, Western Power RIC (Recipient In Charge), Switching Operator, eNAR submissions, Basic Network Authority (BNA) to perform and oversee the works within Western Power substations.

We have in-house resources to carry out works within High Voltage Substations by meeting utility permit requirements such as submission of Western Power's eNAR (Network Access Requests), High Voltage Switching Operations, Western Power RIC (Recipient In Charge) to hold Western Power Network Access Permits.

In February 2009, we appointed Shabu Moothedan as a dedicated Quality Manager to strengthen our Quality Management System. In addition to his Electrical Licences, he is qualified in Project management, Internal auditing of management systems, Workplace Health Safety and Environmental Systems.

In August 2020, we appointed Taj Mallah as a dedicated Construction Manager to strengthen our civil capabilities in substation construction and Transmission & Distribution construction.

Taj Mallah has 14+ years in the energy utility sector with extensive experience in contract management and project delivery.

Prior to join Global Power Services, Taj was working for Western Power as Contract Compliance Specialist and Construction Manager for more than 8 years with following duties:

- Tender evaluation, negotiation and claims assessment,
- Management of project and construction site as Principal/Superintendent's representative,
- Reviewing construction methodologies of complex activities for its safety and quality compliances,
- Site inspections, surveillance and reporting contractor compliance with the agreed contract Reporting of progress, quality and HSE performance, contractor metrics and project risks,
- Facilitate in the resolution of contractors RFIs / Technical Queries.
- Contract administration in accordance with relevant general conditions of the contract, namely AS4000 and AS4906.

During the term with Western Power, he has achieved clear understanding Electrical System Safety Rules, Technical Specifications, Design and Construction Criteria for high voltage substations, Relevant Australian Standards, Substation Construction and commissioning Work Practices, High Voltage substation Construction Safety & Quality requirements, resources management etc.

In April 2022, we appointed Joseph Aricat as a dedicated Project Administrator to perform the Project administrative Functions of our company. Joseph will support our internal team on the functions of Project management, Safety Management, Quality Management, Contract management and financial management. Joseph is holding qualifications including Master degree in management information systems, Master Degree in Business Administration and Bachelor Degree in Business Administration.

We have a strong team of work force with specialised experience in installation and testing of Power Transformers, switchyard equipment and Power distribution systems. Our workforce carrying qualifications including Electrical Licences, High Risk Licences, Western Power Network Authorities (BNA), RIC, Switching Operators to perform works within Western Power substations.

Global Power will provide the Project Management team for the scope of work. Our Management functions include the following:

- Establish project procedures and plans for internal work and co-ordination with the client and other subcontractors.
- Monitor and report progress. The progress reporting measurement scheme will be agreed with the Client prior to implementation
- Monitor work scope and advise the Client of any potential deviations as soon as they are identified.
- Establish, monitor and report project schedule performance in meeting the Clients milestones.
- Monitor and report project procurement activities.
- Ensure client confidentiality

Global Power General Manager

Global Power general manager will assume overall responsibility for all project activities with the support of Project manager, including but not limited to:

- Communication, information dissemination / sharing
- Facilitating the planning and goal setting process (ensuring agreement on realistic targets and objectives)
- Facilitating agreement on quality and work standards
- Delegation and empower of team members
- Conflict resolution and problem solving
- Determining appropriate decision-making procedures
- Managing and accommodating the needs of team members
- Monitoring and measuring performance outcomes
- Facilitating and supporting the change procedures that will necessarily result from new roles and tasks expected of team members
- Providing instruction and direction (control)
- Recording/Reporting of site activities
- Labor Relations
- Implementing all required project controls
- Safety
- QA/QC
- Co-ordination between trades
- Planning/Progress

Global Power director with the support of Project manager is responsible for directing personnel & subcontractors carrying out their activities in a proper and safe manner whilst meeting the quality and schedule requirements set forth in the contract.

Support functions for the Contract Representative in the areas of Safety, Quality, Scheduling and Administration will be provided by Project Manager from Global Power Head Office at Malaga, WA.

Support Management Functions

The integrated Project Management team will provide the following expertise:

- Project manager - Administer the project, including financial and, contract administration, etc.
- Scheduling/Progress Measurement - review contractor schedules, conduct weekly and monthly progress meetings, establish need lists for deliverables, execute weekly & monthly progress measurement and issue project reports.
- QA/QC - quality monitoring, inspections and audits.
- Material Handling - material control activities and local purchases.
- Human Resources **-** work in conjunction with the Human Resources Department to staff and maintain a highly qualified construction team for the duration of the project.
- Safety - monitor safety requirements on the jobsite and provide liaison with the Client loss prevention organization. Prepare safety reports in which the Construction Management Team actively participates.
- Security - ensure adequate security measures.

Administration & Human Resources

It is GLOBAL POWER policy that only suitably qualified and experienced personnel will be assigned to the Project.

Supervision and operatives will be transferred from other projects as required. Priority will be given to the inclusion of suitable local labour force in our project.

The administration department will be responsible for the overall administration aspects of the project. This will include personnel administration, Drug test arrangements, Processing of Site Safety Orientation, Timekeeping & Payroll and Invoice processing.

Diversity Plan

Global Power employing Civil Works personnel from Indigenous Australian community to enhance our Civil construction crew with diverse culture. Global Power team includes personnel from different race, color and sex.

Project Control Tools to Monitor Quality Outcome

After the award of project, Global Power will complete the Project Management Plans and Gantt chart as per client requirements and suggestions. A work break-down structure will be developed to define and group a project's discrete work elements in a way that helps organize and define the total work scope of the project.

Global Power Services Pty Ltd endeavors to make quality our highest priority. From the Quality Assurance efforts of each employee to the quality of our company as a whole, our overall intentions and approach to quality are to be applied with regard throughout this project.

Global Power Services Pty Ltd is committed to the distribution of products and services that provide customer satisfaction throughout their effective life.

The company business includes the installation, construction and supply of electrical and related equipment and areas of civil construction.

The Global Power project team will be comprised of professionals at all levels throughout the organization structure to ensure that correct work practices are in place across all disciplines in order to meet the milestone and completion dates of the project.

Global Power recognize that the project must be executed in strict accordance with the requirements and specifications defined within the Clients detailed project Scope of Work.

Through all phases of project execution, Global Power places strong emphasis on our project management skills and maintaining close working relationships with our Clients. Global Power strongly believes that the project personnel must be properly motivated to execute the work.

The requirements of this policy to achieve the company's organization goals are:

- Accurate assessment of the customers' needs and expectations;
- Continual product performance review;
- Continual process improvement throughout the organization;
- Attain and maintain quality at an optimum cost and benefit to the company.

A Project Specific Quality Management Plan will be developed in consultation with stakeholders with the details of policies and procedures to ensure that project requirements are established, implemented and maintained. Regular and planned reviews are conducted to increase the effectiveness of the quality system.

Adherence to the policies and procedures is therefore the responsibility of all employees to ensure the long term success of the company, as well as enhancing employee satisfaction.

It is the responsibility of the Supervisor to ensure that all members of the Company know and understand the Quality Policy Manual and relevant procedures.

Global Power Areas of Expertise

Transformer Management

Global Power specialises in transformer management from delivery to end of life. We can provide coordination of site delivery, full assembly/supervision, partial assembly for storage, oil treatment and filling under vacuum, pre-commissioning, functional/electrical testing and client handover.

We have an extensive reference list of transformer assembly, testing and refurbishment from 5 to 1500MVA and 11 to 500kV for a large number of transformer manufacturers and over 180 transformers installed.

We provide condition assessment services including oil/electrical testing, refurbishment and disassembly for disposal as required. We undertake these works under all relevant environmental policies and regulations, together with our own stringent policies and procedures.

We are willing and able to have our staff attend specialist factory based training/accreditation courses to allow us to provide installation and supervision services to manufacturers and utilities. We currently have staff that are fully accredited by Wilson Transformer Company, VA Tech EBG and VA Tech Elin.

We have capability to perform a complete refurbishment of power transformers from de-tanking the windings, core & frame for internal inspections and repairs.

Gas Insulated Switchgears

Global Power has up to date experience in site assembly of Gas Insulated Switchgears as per Australian Standards. We can provide coordination of site delivery, full assembly, Cabling, SF_6 Gas filling, pre-commissioning, functional/electrical testing and client handover.

Our GIS Site Assembly process includes the following:

- ✓ Check and cleaning of GIS foundation
- ✓ Drawing the Datum line
- ✓ Unpacking of accessories & Check the apparatus for any missing / damages
- ✓ Installation of basic unit & Installation of each bus bay units
- ✓ Measurements of contact resistance
- ✓ Welding of GIS Base & connecting of earthing wire
- ✓ Installation of Local Control Panels
- ✓ Control Cable wiring
- ✓ Gas Piping
- ✓ Exchanging of absorbent
- ✓ Evacuation and Gas filling
- ✓ Gas leakage test
- ✓ Measurement of moisture
- ✓ Operation test, sequential test, Withstand high voltage test for GIS
- ✓ Repair painting

Global Power owns all the required equipments for full assembly, Cabling, SF_6 Gas filling, pre-commissioning, and functional/electrical testing of GIS. This includes SF_6 Gas Handling kit contains SF_6 Gas cylinders, SF_6 Regulator, SF6 detection device, Gas Reclamation Equipment, Manual handling equipment for gas cylinders, Dew point meter etc.

Global Power procedures for safe handling of SF_6 Gas with all required SF_6 Gas management forms as per AS2791 (Australian Standard for use and handling of SF_6 Gas in high voltage switchgears) successfully utilised in our previous GIS installation projects.

Civil and Structural Services

Global Power Services has extensive in-house experience in civil construction from simple foundations to complex transformer block/bunding systems and switch rooms.

Our building registration allows us to construct relay and switch rooms to contain secondary systems, switchgear, transformers and other indoor plant items. Using our highly skilled staff, we can undertake civil works requiring fine tolerances and exact dimensions.

We have the necessary formwork, sheebolt systems and knowledge of concrete methods to allow us to construct high quality high voltage equipment foundations, support bases and footings. Together with our knowledge of fencing, site surfacing, cable trenching and conduit systems, we are able to provide a complete range of civil services for substations and similar projects.

Primary Electrical Construction

Global Power is highly qualified to provide a wide range of primary electrical construction services from complex high voltage equipment installation and setup to steel fabrication and assembly works.

We have extensive knowledge of busbar systems – both stranded conductor and aluminium tube – including crimped/bolted connections and laminations/joints. This knowledge has allowed us to undertake the complete construction of a number of electrical substations.

We are able to supply and install extensive substation earthing systems including the underground grid, earth electrodes, lighting protection masts and equipment connections.

Primary plant assembly and installation is offered across an extensive range of substation equipment including circuit breakers, disconnectors, instrument transformers, transformers, capacitor banks, shunt/series/in-rush reactors, SVCs and other related busbar systems and circuit components.

We have extensive experience in medium voltage switchboards from a variety of manufacturers – both new technology and old oil/pitch filled equipment. We are able to install panels into switch rooms and make all inter-panel connections including primary busbars and secondary wiring.

We are also able to provide on-site project management and administration for large substation related projects as required.

Secondary Electrical Assembly

Our skills combined with our workshop facilities allow us to provide a wide range of secondary electrical services including panel fabrication, assembly and wiring.

Panel fabrication can be undertaken on-site or at our Malaga workshop. Off-site assembly can provide clients with opportunities to accelerate projects whilst awaiting control rooms and site work completion.

We have extensive experience in protection, control and measurement instrument wiring, together with AC and DC systems integration including batteries, chargers, distribution boards and HV/LV connections.

Our knowledge has been utilised on a number of projects from modifications to existing protection and control schemes to the fabrication, installation and testing of complete protection scheme panels at highly critical customer substations.

Testing and Commissioning Services

We are able to undertake a wide range of testing and commissioning services for transformers, high voltage equipment and secondary systems.

Our transformer testing capabilities include ratio, insulation resistance, winding resistance, frequency response analysis, tan delta, bushing and functional tests. Together with partnerships to provide comprehensive oil analysis we can offer a complete range of testing services for new and old transformers.

Global Power has specialist equipment to undertake the pre-commissioning of the whole range of substation equipment including instrument transformers, circuit breakers and other switchgear.

Global Power Facilities & Equipment

Workshop Facilities

Global Power Services has a 1000m^2 workshop, in Malaga Western Australia, which provides us with the ability to undertake a range of off-site activities including panel wiring, primary plant pre-assembly, form-work preparation and equipment storage.

In addition, the workshop has a generous outdoor hardstand area making it perfectly suited for the off-site fit out of relay/control rooms and switch rooms for later transport to site.

Our workshop is complete with welding equipment, metal cutting/bending tools, painting facilities and a host of other tools for our operations. We also have our own 10 Tonne Crane, bobcat, Excavator and trucks (please see the next section for the details of equipment owned by Global Power Services).

Our in-house equipment including formwork, sheebolt systems, mixers etc. allow us to undertake civil works with little reliance on third parties.

We have a range of hydraulic crimping tools ranging from 12 tonne to 60 tonne, allowing us to assemble, install and maintain aerial conductor systems.

Global Power owns and maintains three containerised tool-kit/site sheds to provide on-site facilities in substations and customer work sites across Australia.

We hold a wide range of materials including control cabling, terminals and copper earthing components at our workshop allowing fast turnaround of critical client works.

Specialist Equipment

Global Power owns its own range of specialist equipment required for efficient operation in the energy industry.

We have our own transformer oiling facilities including:

- **Vacuum equipment (numerous pumps ranging from 72 to 1,300m^3/hour capable of 0.5mbar);**
- Filtered transfer pumps up to 7,000L/hour;
- **Oil degassing and filtration plants (2 x 4,500l/hr capacity and 1 x 10,000l/hr). Two units have online moisture measurement devices and all have flow volume totalises**
- Oil pods and storage tanks
- Transformer Oil Transferring Pump
- Transformer Dry Air Pumping Machine
- **SF6 Handling Unit**
- 12 tonne Tipping truck
- **10 tonne Crane Mack Truck (Hiab)**
- Excavator: Kobelco – SK35SR_5
- Excavator: Doosan – 14T
- Excavator: Kobota – 1.8T
- 10T Dump Truck
- Bob Cat:- John Deere
- 2 Tonne Fork Lift
- 9KVA Generator
- 30KVA Generator
- 100KVA Generator
- 2.5KVA Generator
- Concrete Mixer
- Jumping Jacks x 2
- Plate Compactor x 2; and
- Miscellaneous civil and electrical equipments

We also have a highly regarded suite of electrical test equipment including:

- Doble M4200 HV insulation tester
- Doble M5200 frequency response analysis (FRA) unit
- 2 x 5kV BM11D Meggers
- 2 x automatic 3-phase turns ratio testers;
- 2 x winding resistance bridges
- Digital Micro ohm meters
- Dry bath temperature probe tester
- Multimeters
- 500V Meggers
- Humidity Testers
- Earth Resistance testers
- Paint thickness meter
- Various other test equipment for testing of substation primary plant.

In addition to this, we have arrangements with various Test Equipment hire companies to source various types of test equipment to meet the substation primary plant testing requirements.

Our experienced staff are fully familiar with the operation of all our equipment and can provide services as part of an overall project or as a standalone testing service for transformers and substation equipment. Our equipment is located across Australia and is able to be transported to remote sites as required.

Global Power sub-contractors & Suppliers

Global Power has supplier agreements with various suppliers and subcontractor for the supply of project materials and specialist subcontractor activities as required:

Our supplier and sub-contractors were selected considering the following:

- ✓ **Previous experience in providing similar services to Western Power (the final client)**
- ✓ **They are included in Final client's (such as Western Power) preferred supplier list for the portions of work sub-contracted to them**
- ✓ **Their offered price is reasonable compared to the price offered by other suppliers / service providers / sub-contractors**
- ✓ **The Lead time for the completion of the sub-contracted portion of contract is less than offered by their competitors**
- ✓ **Their quality & OHS systems are up to the required standard of the contract and they have third party accreditation to prove their quality standards**
- ✓ **They are accredited and licenced contractor for the supply of services subcontracted to them**

Global Power's EHS Supplier Evaluation form (GP10-10a) is the tool using for the assessment of their OHSE systems. Site audits will conduct to monitor the Quality and OHSE performance of suppliers at site.

Safety and Environmental Management

Global Power takes its responsibilities in safety and environmental management very seriously. Global Power will conduct a detailed Risk Assessment and Site Specific Safety & Environmental Management Plan for each project awarded to Global Power Services.

Global Power's key goal is to maintain 100% compliance with controls nominated in the risk assessment during each phase of the projects.

Global Power's project OHS Targets are:

- **Lost Time Injury (LTI) rate = 0%**
- **Medical Treatment Injury (MTI) rate = 0%**
- **Minor Injury Rate = 0%**
- **Number of OHS site Inspections = one per day**
- **Compliance noted during workplace inspections = 100%**
- **Overall site safety Audit = 1 number**
- **Compliance noted during site safety audit = 100%**

Global Power employees and contractors shall comply with applicable Federal, State and Local laws and codes.

Where State regulations apply to a given task, these will be the minimum requirement. Where appropriate, the project equipment shall be registered or licensed in accordance with Federal, State and Local requirements.

All required licenses to operate equipment must be held by the operating employee, otherwise that equipment cannot be operated.

In 2006, Global Power established a formal Occupational Health & Management System meeting the stringent requirements of various state safety legislations. Our System has been accredited by key clients such as Western Power, TransGrid, CPP, ABB Siemens to satisfy the stringent requirements of the relevant WHSE Acts and Regulations. Site Inductions, daily Pre-start safety management, SWMS, Job Safety Analysis and weekly toolbox talks are just some of the fundamental processes undertaken by Global Power on all projects.

Our environmental policy and associated procedures ensure that our activities do not adversely affect the environment. We strictly adhere to all client policies and provide Environmental Management Plans for managing projects with sensitive environmental issues.

December 2025 Global Power Services achieved ISO 9001 (Quality) , ISO 14001 (Environmental Management Systems) and ISO 45001 (Work Health and Safety)

More information is available from:

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