

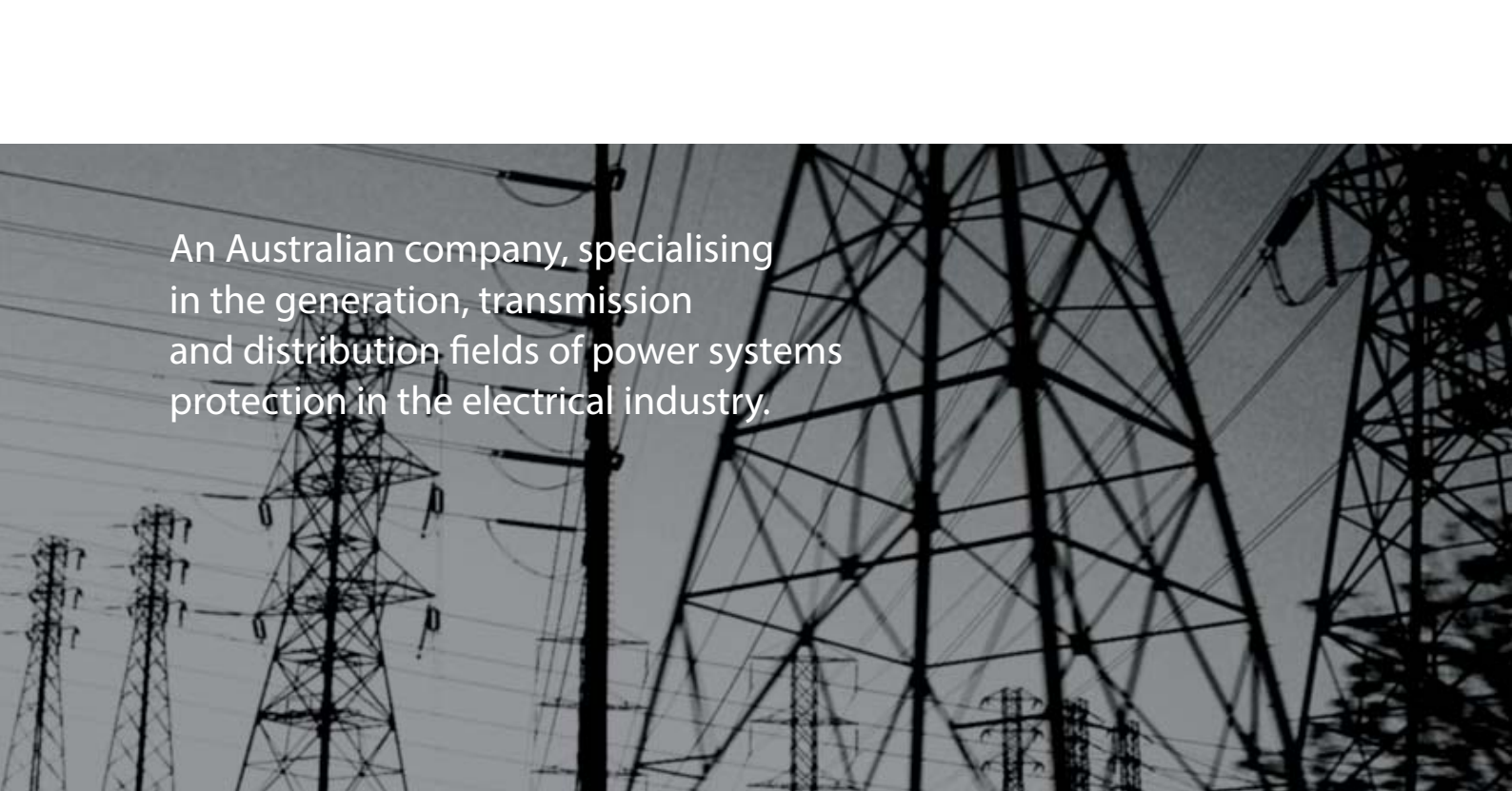
We know high voltage systems



Capability Statement



Techwestpower



An Australian company, specialising
in the generation, transmission
and distribution fields of power systems
protection in the electrical industry.

Company Overview

Pursuing the highest level of quality control, trust and integrity when working with our clients, to help them achieve their goals, is just the beginning of our journey in delivering effective solutions to our clients and our clients customers.

Established in 2012, Tech West Power brings together a diverse group of experienced technicians. We are an Australian company, specialising in the generation, transmission and distribution fields of power system protection in the electrical industry. Testing and commissioning of LV, MV, HV and EHV primary and secondary plant and maintenance of secondary protection equipment. Working with voltages ranging from control supplies at 50V DC to primary system voltages in excess of 330kV AC.

Commissioning to ensure all plant and design conform to Australian Standards as well as industry best practice is our fundamental priority.


Our focus

Providing a reliable service is at the core of our business strategy. Our customer focus, attention to detail and a quality approach without compromising on safety we believe sets Tech West Power apart from the competition.

Underpinning and driving the success of our company are two fundamental business objectives:

- To build and maintain a satisfied customer base through superior quality service with fair dealings based on trust and respect.
- To create long term relationships with customers, suppliers and most importantly its employees.

“Our technicians work in collaboration with clients to develop on-going, mutually beneficial relationships to ensure projects are delivered within the required time frame and scope.”



Combining technical dedication with paramount safety is the benchmark we set for ourselves – and we believe this sets us apart from our competitors.

Our services

Our technicians provide a broad range of testing, commissioning and maintenance services of EHV, HV, MV and LV primary and secondary equipment across all industries and high voltage equipment, with focus on the following areas of delivery:

- Protection relays
- Current transformers
- Voltage transformers
- Power transformer diagnostic testing
- HV/MV/LV switchboards
- Protection schemes
- Metering schemes
- Isolators / Disconnectors
- Earth switches / Fault throwers
- Static var compensation
- HV cables
- Earth testing
- Battery banks
- Earth compensator
- VLF testing
- Power generators
- Circuit breakers
- Reclosers
- Secondary systems
- Busbar configurations
- Surge arrestors
- Hi-potential testing
- SCADA and control systems
- Fault recorders
- Capacitor / Reactor banks
- 415V AC distribution / Changeover schemes
- VLF Testing
- Indoor primary maintenance
- Instrumentation

Test Equipment Rental

We can provide the best quality equipment maintained to the highest possible standards, all calibrated to NATA traceable laboratories. This is some of the equipment we have available to hire, please contact us for all your test equipment needs:

- Omicron CPC 100, TD1 and SB1
- Omicron Dirana
- Omicron CT Analyzer's
- Omicron Franeo
- Omicron CMC 356's with IEC 61850 capability
- Fluke Insulation testers
- Cabac T860 Phase/Motor Rotation Tester's
- Kyoritsu High Voltage Insulation Testers
- Fluke 726 Precision Calibrators
- Fluke 787 Digital Process Meters
- Fluke 187 Digital Multimeters
- Fluke 87 Digital Multimeters
- Emerson 475 Process Communicator's
- Megger DLRO 10 Low Ohm Testers



Projects

Tech West Power has become a reliable technical resource to some of Australia's largest key companies. While providing continuing support to Western Power we have recently also commissioned various other key projects throughout Western Australia including but not limited to the following list:

Nickel West Smelter – BHP

Hv Integrity Phase 2 - 32-B2 Switchboard Replacement, FAT/SAT/Integration and Commissioning. Furnace Switchboard 11kV Siemens.

Compressor House 33-B2 Switchboard Replacement. FAT/SAT/Integration and Commissioning. Compressor Switchboard 11kV Schneider.

37-B01 Arc Flash Retrofit Upgrade. FAT/SAT/Integration and Commissioning. Acid Plant Switchboard.

Nickel West Kambalda – BHP

CO-B1 Arc Flash Retrofit Upgrade. FAT/SAT/Integration and Commissioning. Concentrator Switchboard.

TIA NQI Lithium Project – MSP Engineering

22kV Switchboard and transformers FAT/SAT.

North West Rail Link Sydney – EQ House

FAT in Newcastle of 11 switchrooms and onsite commissioning support and supervision of a Bulk Supply Substation (132KV, 33KV) five Traction substations (33KV, 1500VDC) and four Distribution Substations (11KV, 415V).

Nickel West Refinery Kwinana – BHP

Commissioning new HV and LV switchroom's 5-P4 and transformers for an expansion project.

RAF Delimere Hybrid Microgrid - EMC/ Carnegie Clean Energy

FAT complex frequency and power load shedding and control scheme.

Olympic Dam Surface – GE Grid/BHP

Commission T5 132/22kV Transformer. Commission new 11kV Schneider MCSet Tiers and modify YSF6 Yorkshire switchgear. Four new SMA Feeders and four new Capacitor Banks for expansion and power factor correction/reactive power support.

Horizon Power and GHD

Asset replacement works (ongoing), Investigations and Reports, primary and secondary maintenance, field works management, contracts management. Projects such as Roy Hill Connection Project, Onslow Power Station, MRO, Hedland Terminal Upgrade, Karratha Primary Maintenance, Kimberley distribution commissioning and maintenance.

Wheatstone Downstream – Schneider Electric

IEC61850 Automatic Transfer Scheme (ATS) testing, Chevron/Bechtel client witness testing (FAT), Line Differential and Transformer protection scheme testing as well as Feeder protection schemes and SCADA/PMS testing.

Wheatstone Alstom 132kV Gas Insulated Switchgear (GIS)

Instrument Transformer Testing, Protection Relay Testing, Scheme Functionality and Circuit Breaker Tripping, 400V LV Auto Transfer Scheme (ATS) Functionality, SF6 Pressure Monitoring/ Calibration and Auxiliary Transformer Testing.

South Hedland Terminal

A 220kV double bus 13 bay switchyard built as part of the South Hedland Power Precinct 67 MW Power Station.

South Hedland Power Precinct

End-to-end protection testing for the 220kV line cutin to South Hedland Terminal.

South Hedland Power Station

11kV Schneider Pix Switchgear testing and commissioning under the secondary systems commissioning manager. Carried out all integration testing between the Forge 11kV switchroom and the Alstom 220kV yard, the 415V balance of plant and the GE TM 2500 gas turbines.

Cannington Terminal

Testing and commissioning of three 100MVA Power transformers, capacitor banks and reactors.

Three Springs Terminal

Testing and commissioning 330kV 490MVA Auto transformer and reactor banks.

Kwinana Power Station

Commission two 80MW generators, step-up Tx1&2 , auxiliary Tx1&2 and 132kV busbar protection, primary plant and relay pre-commissioning testing.

Stove Hill Road Substation

Commission 132kV Bay 6 Karratha Terminal and step-up Tx2 for the establishment of Karratha gas fired power station for Horizon Power.



Management systems

Occupational Health and Safety Management

Tech West Power is fully committed and uncompromising in our quest to:

- Ensure a safe work place for employees and subcontractors.
- Continually strive to improve our safety performance.
- Create a mind set in the company to achieve an accident and incident-free work environment.

Safety

Tech West Power has a zero lost-time target and we have continually met that target for the period since we were established in early 2012. This excellent result is achieved by identifying and rectifying any unsafe work conditions or practices, as well as promoting safe working practices.

At Tech West Power we uphold our own strict standards and as a contractor our aim is to ensure we fully understand and comply with the requirements of the businesses we work with. This can only be achieved complying with Workplace Health and Safety legislation. Tech West Power is presently working to gain certification to Australian Standard AS/NZS 4801:2001.

Quality assurance

Tech West Power applies sound quality assurance principals to all our projects. We are also working towards registration as an ISO9001 quality certified company. Our systems and procedures are regularly exposed to external scrutiny with independent audits carried out across our business and internal audits performed to ensure ongoing compliance and continuous improvement inline with regulatory mandates.

Environmental management

Tech West Power recognises the potential harm when working on company facilities and project locations and the detrimental impacts affecting the local environment and communities. We scope projects to identify potential impacts, risks and compliance requirements as they relate to the project and ensures appropriate actions are implemented to achieve zero incidences and to ensure full compliance. Tech West Power is presently working to gain certification ISO14001.



Forging relationships

Working within Western Australia's largest utility brings with it countless achievements and challenges. Our day-to-day communications involve liaising with switching operators, responding to unforeseen events and assisting controllers to manage a dynamically changing network. A key aspect of our approach centres around forging strong relationships with protection and substation engineers/designers: this promotes transparent communication and constructive feedback – this ethos of working positively with 'all parties' involved is crucial to overcoming challenges and problem resolution.

Whether assisting construction teams to understand and modify last-minute design changes to working long hours to meet a critical deadline, we take a simple view of the high-stakes nature of the electrical industry: "Doing work under pressure equals mistakes or brilliance, it all depends on our attention-to-detail and ability to quickly adjust to change."

It is with this versatility to change and attention-to-detail that we strive for quality and excellence. Central to our operational objectives is to achieve our best no matter what challenges set before us. Our passion and dedication to an industry that we love brings us our greatest satisfaction. Combining this technical dedication with paramount safety is the benchmark that we set for ourselves – we believe this sets us apart from our competitors.

So what can we do for you

At Tech West Power we place great importance in having linked values with our clients: we see our goals as being your goals. With our long-term strategy and vision we work with clients ranging from large-scale industry to small private power generators. From co-ordinating complex wind farm run-back scheme testing and logic control functioning to commissioning a new breaker and half bays, or mesh yards. Commissioning replacement ageing plant, fault-finding and maintenance, we believe our diverse skills will ensure the dependability and endurance of your high voltage assets.

What we strive to achieve is 'adding value' to your business or project – a simple, but we believe critical aspect of delivering great service, something you'll come to expect of Tech West Power.

"Doing work under pressure equals mistakes or brilliance, it all depends on our attention to detail and ability to quickly adjust to change."

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For further information, technical enquiries or to discuss any project enquiries, contact:

Tech West Power Pty Ltd

ABN 93 158 843 246

ACN 158 843 246

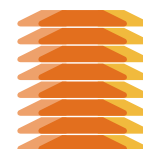
P.O Box 408

Bull Creek WA 6149

M 0400 334 818

E enquiries@techwestpower.com.au

W www.techwestpower.com.au



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