

High-Voltage Testing, Commissioning and Maintenance Services

MEGAVAR

PARTNERS IN POWER

About Megavar

High voltage testing, commissioning and maintenance is the proving, energisation and upkeep of substation and connection plant above 1 kV. Megavar is an Australian high-voltage engineering business. We design, test, commission and maintain the substation and connection assets that transmission and distribution networks, renewable generators and heavy industry rely on. Founded in 2003 and Australian owned, we work from five offices and deliver across five states. We do not manufacture plant and we do not build substations, so our results carry no commercial interest in the outcome.

What We Do

High-voltage testing, substation commissioning and substation maintenance, backed by in-house design across primary, secondary, SCADA, distribution and civil engineering.

Where We Work

From offices in Hobart, Launceston, Adelaide, Newcastle and Gladstone, delivering across Tasmania, South Australia, Victoria, New South Wales and Queensland. Crews mobilise from within the region.

Why It Matters

A test result decides whether an asset is energised. Ours are produced by engineers who design these schemes, measured on a calibrated Omicron fleet, and documented so they survive audit years later.

Megavar at a Glance

Established
2003. Australian owned and privately held.

People
57 engineers, technicians and support staff.

Offices
Hobart, Launceston, Adelaide, Newcastle and Gladstone.

Coverage
Tasmania, South Australia, Victoria, New South Wales and Queensland.

ABN
88 104 344 765



What We Do

High-Voltage Testing

Primary Plant Site Acceptance Testing
Circuit breaker testing, instrument transformer and power transformer testing, disconnectors, surge arresters and cable sealing ends.

Cable Testing
VLF withstand and partial discharge measurement.

Primary Injection
Bus balance and differential stability proving.

Earth Grid Performance Testing
Off-frequency injection to ENA EG-1, assessed against ENA EG-0.

Transmission Line Impedance
Positive and zero sequence measurement for protection settings.

Standards Applied
AS 2067, AS/NZS 3000, IEC 62271, IEC 60076, IEC 60270 and ENA EG-0 and EG-1.

Substation Commissioning

Commissioning Management
Commissioning quality management plans, inspection and test plans, hold points and outage interface.

Protection Relay Testing and Control
FAT and SAT of line, transformer, bus zone, capacitor bank, load shedding and metering schemes, including settings QA on modifications.

SCADA and Automation
Signal list review, point simulation, HMI configuration and end-to-end proving to the control centre.

DC and AC Distribution
Battery, charger and DC distribution; LV AC supply and inverters.

Energisation Support
Interlocking and point-on-wave proving, staged energisation and defect close-out.

Substation Maintenance

Routine Inspection and Testing
Scheduled testing that finds deterioration early.

Preventative Maintenance
Diagnostics used to predict and prevent failure.

Corrective Maintenance
Fault diagnosis and repair.

Emergency Fault Response
Rapid attendance to minimise downtime.

Design Capability

Primary Design
Arrangement, single line diagrams, layouts and plant schedules.

Secondary and Protection Design
Protection, control and metering schemes, panel design and settings.

SCADA Design
Architecture, signal lists and control system integration.

Distribution, Civil and Structural
Distribution design and drafting; foundations, structures and earthworks.

Credentials and Commitment

Accreditations and Licences

Certified Management Systems
ISO 9001, ISO 14001 and ISO 45001, certified since 2015.

Certified Scope
Planning, design and delivery of high voltage electrical and engineering projects, including project management, engineering consultancy and equipment rental.

Electrical Contractor Licences
Held in every Australian state: NSW 284109C, VIC 21203, QLD 73595, SA PGE 267537, WA EC010840 and TAS 947267.

Insurance
Professional indemnity $10 million, public and products liability $20 million, cyber liability $1 million.

Test Instrumentation
An owned Omicron and Megger fleet including CMC 356 and CMC 500 relay test sets, CPC 100 primary test set, CIBANO 500 circuit breaker analyser, TESTRANO 600 and FRANEO 800 transformer test systems, MPD 600 partial discharge system and MIT and DLRO testers, calibrated to NATA-traceable standards.

Next Step
Read more about high voltage testing, commissioning and maintenance on megavar.com.au
Request a quote
1300 730 499 | service@megavar.com.au

Clients and Sectors

Networks
Transgrid, ElectraNet, TasNetworks, Essential Energy, Evoenergy, Powercor, AusNet, Western Power, Zinfra and Jemena.

Principal Contractors
Downer, Ventia, RJE, Enerven, CPP, ACLE, RBD and Worley.

Renewable Generators and OEMs
Acciona, Vestas and Goldwind.

Industry
Alcoa Portland.

Sectors
Network augmentation, wind, solar and battery storage connections, and heavy industry.

Other Megavar Capability Statements
One is available for every Megavar service line. Ask your Megavar contact or email service@megavar.com.au.

Why Megavar

Design and Testing in One Business
The people testing the system understand how it was designed.

Independent
No plant to defend and no construction programme to protect.

Our Own Test Fleet
The instruments on site are ours, calibrated to NATA-traceable standards.

Records That Survive Audit
Results, calculations, sign-offs and defect registers, as one pack.

Our Principles

Integrity
When Megavar does it, you know it has been done right.

Responsiveness
When clients need us most, we will be there every time.

Teamwork
Only together can we achieve great outcomes.

Accountability
We hold each other to high standards, and fix what we get wrong.

Safety
Looking out for each other gets us home safe.

Speak to our team today

megavar.com.au

MEGAVAR

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