

# Substation Commissioning Management

MEGAVAR

PARTNERS IN POWER

# About Megavar

Substation commissioning management is the planning, control and sign-off of high voltage commissioning from construction completion to handover. Megavar manages substation and connection commissioning as part of a commissioning scope we deliver ourselves: our commissioning manager plans the sequence, owns the inspection and test plans and hold points, and leads Megavar's own testing team through pre-commissioning, energisation and handover. Founded in 2003 and Australian owned, we work from five offices and deliver across five states. We do not offer the manager without the team.

## What We Do

Commissioning management delivered with Megavar's own testing and commissioning team: strategy, inspection and test plans, hold points, energisation and handover under one accountable manager.

## 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

The manager who directs the crew doing the testing controls the outcome. Ours leads Megavar's own team from the first inspection and test plan to handover, so one party plans the work, does it and signs it off.

## Megavar at a Glance

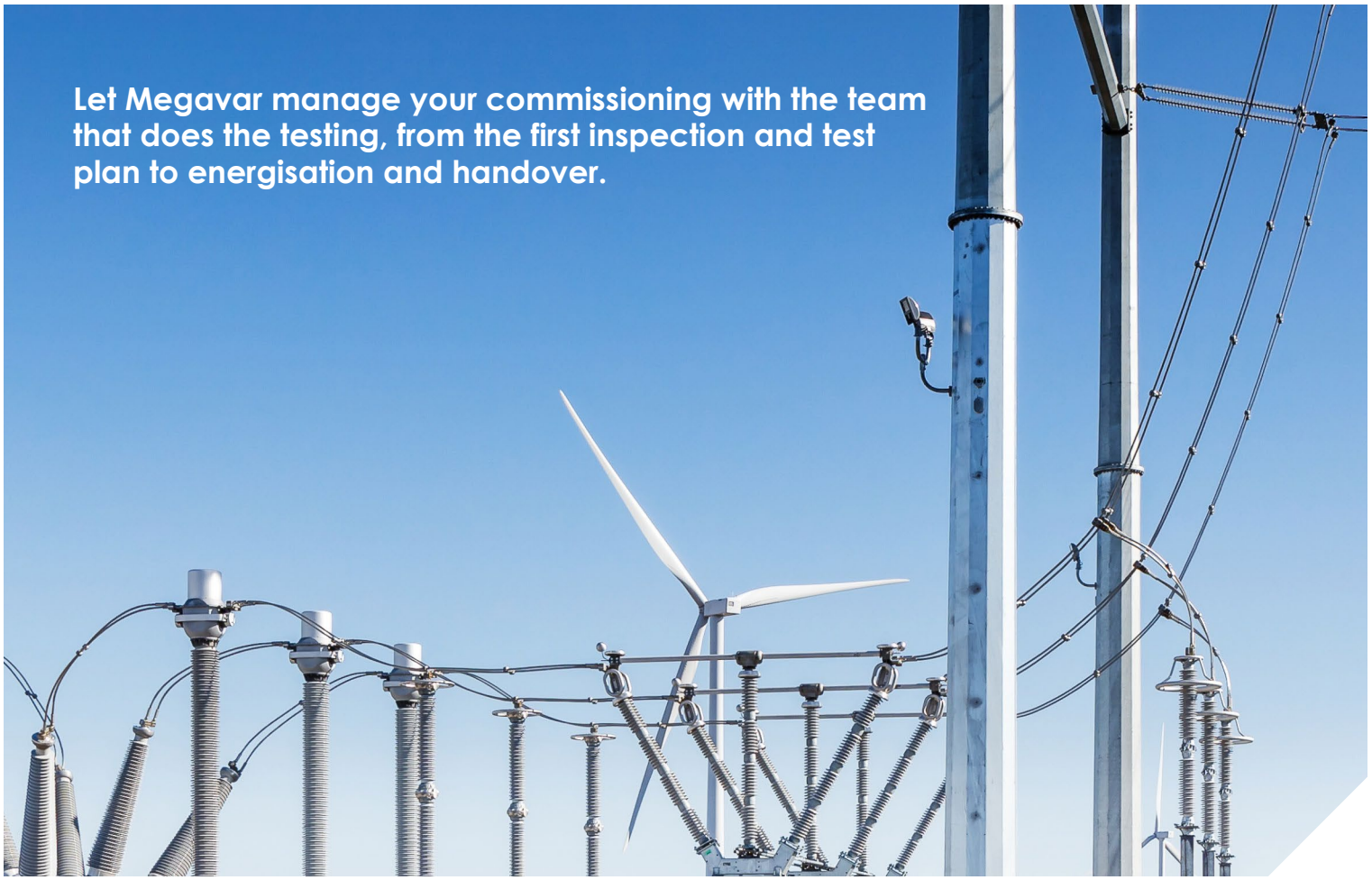
**Established**
2003. Australian owned and privately held.

**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



**Let Megavar manage your commissioning with the team that does the testing, from the first inspection and test plan to energisation and handover.**

# What We Do

## Commissioning Planning

**Commissioning Strategy**
Sequence, staging and outage programme agreed with the network operator, OEM and principal contractor before mobilisation.

**Quality Management Plan**
Commissioning quality management plan, procedures and test sheets aligned to the client's completions system.

**Inspection and Test Plans**
ITPs with hold and witness points for every primary, secondary and SCADA element.

**Interface Register**
Network operator, OEM, EPC and owner's engineer interfaces tracked from design review to handover.

**Readiness Reviews**
Pre-commissioning readiness checks so outages are not taken on a site that is not ready.

## Delivery and Control

**Daily Coordination**
Crew allocation, permits, switching and access managed against the programme.

**Hold Point Release**
Witness and hold points released on evidence, with the record made at the time.

**Defect Management**
Punch lists and defect registers owned, tracked and closed before energisation.

**Change Control**
Settings, drawings and configuration changes controlled and recorded through commissioning.

**Reporting**
Daily and weekly progress, look-ahead and risk reporting to the client.

## Energisation and Handover

**Energisation Plan**
Staged energisation and on-load checks agreed with the network operator.

**Operational Readiness**
Operating procedures, labelling, spares and training confirmed before handover.

**Records Pack**
Results, calculations, sign-offs, as-commissioned settings and defect registers as one pack.

**Close-Out**
Outstanding items, warranties and handover to operations and maintenance.

## Delivered With Our Own Team

**Primary Plant Testing**
Site acceptance testing of circuit breakers, transformers, instrument transformers and switchgear.

**Protection, Control and SCADA**
FAT and SAT, settings QA, point-to-point and end-to-end proving to the control centre.

**Earth Grid and Cables**
Earth grid performance testing, cable withstand and partial discharge measurement.

**One Accountable Party**
Commissioning management is offered where the commissioning scope sits with Megavar, so the manager and the crew answer to the same plan.

# 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 substation commissioning management 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.

**Management, Not Testing Labour**
We own the plan, the hold points and the close-out.

**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**

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**1300 730 499**