

Distribution Design and Drafting

MEGAVAR

PARTNERS IN POWER

About Megavar

Distribution design and electrical drafting cover the overhead line design, underground cable design and construction documentation that distribution networks are built from. Megavar designs and drafts overhead and underground distribution networks for utilities and industrial asset owners. Our engineers and drafters take a network from route selection and cable sizing through to construction drawings and as-builts, to AS/NZS 7000, AS/NZS 1429 and utility-specific standards. Founded in 2003 and Australian owned, we work from five offices and deliver across five states.

What We Do

Overhead and underground distribution design, powerline audits, cable and conduit design, and electrical and 3D drafting.

Where We Work

From offices in Hobart, Launceston, Adelaide, Newcastle and Gladstone, delivering across Tasmania, South Australia, Victoria, New South Wales and Queensland.

Why It Matters

Distribution work is won and lost on documentation. Clear schematics, accurate as-builts and compliant construction drawings are what let a crew build it once.

Megavar at a Glance

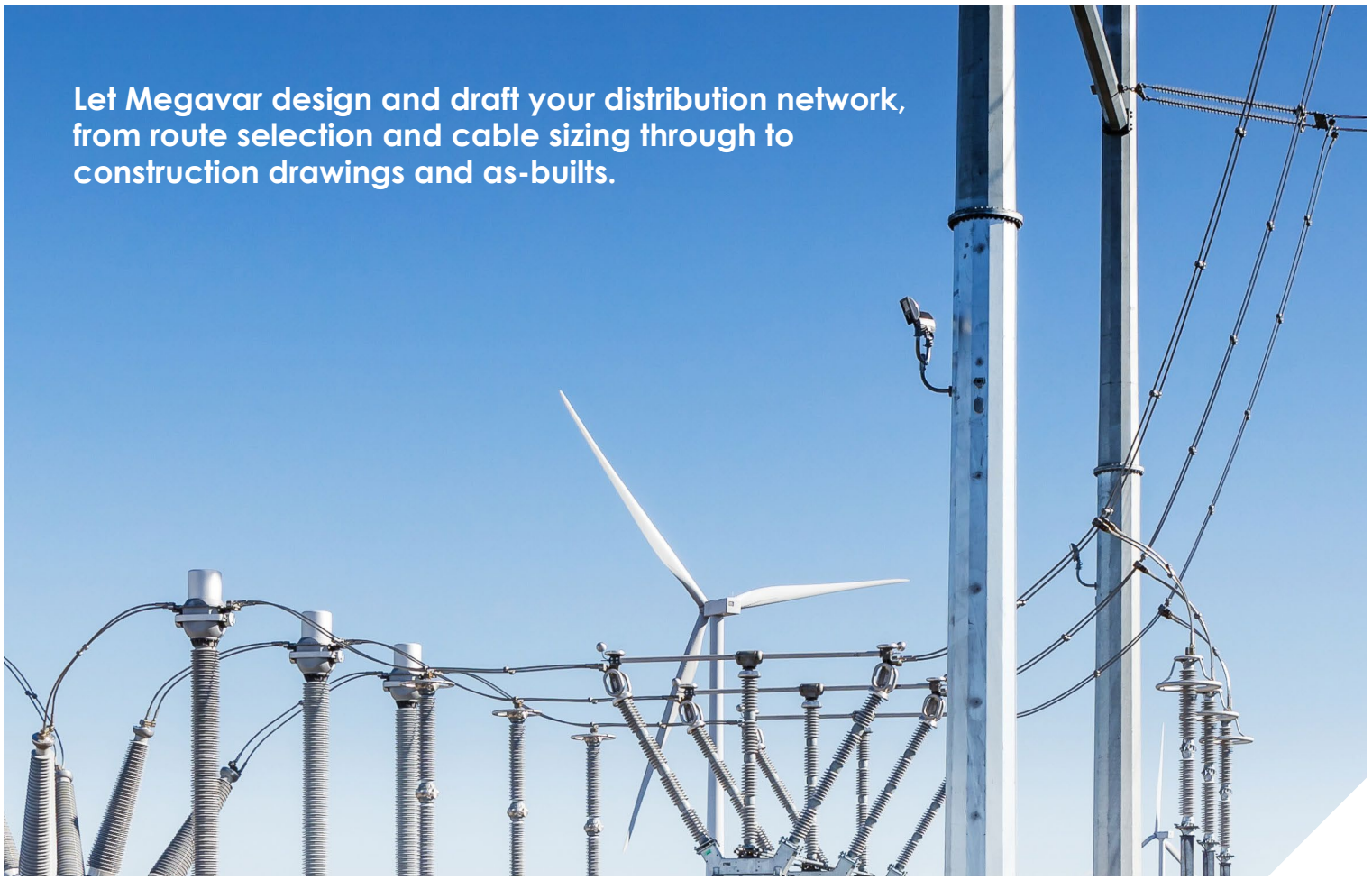
Established
2003. Australian owned and privately held.

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



Distribution Design and Drafting

Underground Distribution

Cable System Planning
Underground cable system planning and route layout.

Trench and Conduit Design
Detailed trench and conduit design.

Cable Sizing
Sizing and specification to IEC 60287 and AS/NZS 1429.

Earthing and Protection
Earthing and protection system design for operational safety.

Compliance
Regulatory and environmental compliance documentation.

Overhead Distribution

Line Audits and Assessments
Audits and condition assessment of existing powerlines.

Detailed Line Design
Conductor selection, sag and tension calculation.

Construction Drawings
Powerline elevations and detailed construction drawings.

Work Plans
Work plans and schedules for upgrades and new installations.

Standards Applied
AS/NZS 7000, AS 3995 and utility-specific requirements.

Electrical and 3D Drafting

Schematics and Wiring
High-precision electrical schematics and wiring diagrams.

Panel Documentation
Panel layouts and termination schedules.

As-Built Drawings
As-built drawings incorporating field modifications.

3D Drafting
Three-dimensional drafting and visualisation for spatial analysis.

Software and Quality

Drafting Platforms
Bentley MicroStation and AutoCAD.

Calculation Tools
IEC 60287 cable sizing; CDEGS for earthing assessment.

Quality Management
Drawings issued under a certified ISO 9001 system with named reviewers.

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 distribution design and drafting 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.

Checked Before Issue
Drawings issued under a certified ISO 9001 system with named reviewers.

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

service@megavar.com.au

1300 730 499