Capability Statement

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Company Profile

Tortech Pty Ltd is an innovative and reliable provider of high quality transformers and inverters, electrical engineering design and approval services and energy solutions to industrial, commercial and government organisations both nationwide and internationally.

Established in 1987, Tortech Pty Ltd is a privately owned company with Michael Larkin (Director), and Wesley Ge (COO). Michael has owned the business for over 30 years and has taken it from a small operation with a small turnover to a turnover of over $5M.

Driving the success of the company has been the growth in competitive expertise in transformer design which meets these costs and quality requirements in the every growing power industry with growth in the economy's infrastructure with that momentum, Tortech has become the preferred supplier of transformers for many major government organisation such as Metro Trains Victoria, Department of Defence, Sydney Light Rail, Universities, Hospitals, Satellite and Communications, Research Organisations, CSIRO, Eaton, Carnegie, EMC, Downer, Acciona and NSW Rail and many other businesses within Australia.

Today we continue to service and supply these clients with strong long term relationships.

In recent years we have supported the renewable Sector with unique solutions for energy efficient design and best practices employed. These ventures resulted in the installation of transformers for micro grids on the largest Radio telescope installation in Australia. Tortech Pty Ltd also designed, prototyped approved and manufactured special transformers for curbside traffic control communication systems as part of the Sydney to Newcastle Light Rail project.

Tortech is a proud family owned business with long term loyal employees consisting of 5 electrical engineers, one chartered professional and one PHD Engineer. Our engineers started as interns with our close association with Electrical Factuality at UNSW and are now experienced engineers in the company.

As part of our progression and growth as a company, in 2018 Tortech successfully met the full requirement for IOS9001 after complying with the basic ISO9001 since 2006.
Core Competencies:

1. For our Experience and Technical ability
2. We are Reliable
3. We are Solution Focused
4. We have an “I Can Do Attitude”
5. We want to help you
6. We love what we do!
Tortech Prides itself on:

- It's ability through its strong network of international engineering connections, to stay at the leading edge of latest developments in product and technology.

- It's ability to handle a comprehensive range of transformers. Tortech has manufacturing facilities both locally and overseas to design application solutions tailored to the needs of both OEMs and small quantity purchasers.

- It's ability to commitment to the business which involves valuing close and sustainable relationships with customers through service, quality products and practices whilst providing a high level of technical support.

Tortech proudly supplies transformers for use in areas such as:

- Lighting Satellite Communications
- Power Supplies/DC-DC Converters
- Power Isolation and Conversion
- USA and International Power Conversion
- Medical Equipment
- Railway Isolation Transformers

Tortech proudly Manufactures Locally

International manufacturers will only mass-produce designs in large runs of 100s or 1,000s.

As some projects do not always require such large quantities our Australian based factories, combined with our engineering resources, provides our customers with a quick and efficient method to produce prototypes as well as small quantity runs.

Our Australian made units are fully tested before dispatch, to ensure each unit maintains the quality of our high manufacturing standard.
Supply Achievements

Tortech Pty Ltd is an innovative and reliable provider of high quality transformers and inverters, electrical engineering design, approval services and energy solutions to industrial, commercial and government organisations both nationwide and internationally.

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Tortech products are distributed Australia wide to the general public directly, by local suppliers such as ADM, Grant Transformers, Hayman’s Electrical, Radio Parts and TLE and to large companies with international branches in the USA, Canada, Brazil and the Philippines.

Tortech's Local Distributors are:
Recent Projects

Recent three phase transformer projects include applications in Commercial, Defence, Medical, Mining, light rail & Railway installations.

Rectifier Transformer 68kV
Our team has completed the following Rectifier transformer for Mining applications. Type: Three Phase Rectifier Transformer Rating: 68kVA, Frequency: 50Hz, Dual Secondarys Special Requirements: 30

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December 4, 2019 • No Comments

Marine Application Step up Transformers
Tortech has designed and manufactured a range of Marine application step up transformers with the following specifications: Type: Single Phase Step up Transformer Rating: 3.5kVA

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December 4, 2015 • No Comments

Wyndham Vale Station Project
This specialised project for Wyndham Vale Station Project features an 60kVA 3-Phase isolation transformer with Outdoor IP56 Rated Enclosure. Special requirements for this transformer include:

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November 30, 2019 • No Comments

Railway Project Metro Trains
The railway project consisted of Three Phase 7.5kVA & 5kVA Transformers in Indoor Enclosures. The customer requested for a number of the enclosures to be

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Mining Project – 110kVA Three Phase Transformer in IP56 Enclosure
We are proud to complete yet another 3 Phase Isolation Transformer in full IP56 enclosure, this transformer is for a current mining project being undertaken

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Light Rail Kiosk Transformer Project
Tortechs 200kVA 11kV to 400V Transformer used for Light rail application was fitted into an IP56 Rated Type Enclosure with separate input and output

Read More »

November 20, 2019 • No Comments
Design and Consulting

Tortech Pty Ltd specialises in designing custom made and stock standard transformers utilising the vast knowledge and technical experience of its Engineering team.

We are capable of designs within the following scope:

- Three Phase Dry Type Power Transformers up to 2.5MVA and 33kV ratings.
- Single to Three Phase Converters up to 22kW.
- Current Transformers and Voltage Transformers at MV and HV ratings.
- Single Phase Toroidal Transformers up to 10kVA ratings.
- Three Phase Inductors/Chokes.

Our Single Phase and Three Phase Transformers have been implemented into applications for Commercial, Defence, Medical, Mining, Light Rail & Railway Installation projects.

CAD Drawings and Designs

Our Engineering team are highly proficient at designing and constructing full 2D and 3D AutoCAD drawings. These drawing relate to the transformers, enclosures and all other relevant details required by the client, project managers and manufacturing team. The AutoCAD program used by our team is referred to as BricsCAD.
Core Capabilities

Standards
All Tortech designs meet the necessary requirements under standards:

- EP 17 00 00 11 SP for NSW Transport.
- S.03.4218.28 for Queensland Rail application and project.
- AS/NZS 60076 – Power Transformers.
- AS/NZS 61558 – Safety of Transformers.

Testing
Tortech’s testing facility is fully capable of testing all Single Phase and Three Phase Transformers and Inductors.

We have the ability and technical knowledge to fully test:

- Current ratings up to 1000A
- High Voltage levels up to 100kV
- Highly specialised Partial Discharge testing up to 66kV voltages
- Induced Variable Frequency testing from 50Hz to 390Hz
With over 30 years of experience, Tortech has become the preferred supplier of transformers for many major government organisation such as Metro Trains Victoria, Department of Defence, Sydney Light Rail, Universities, Hospitals, Satellite and Communications, Research Organisations, CSIRO, Eaton, Carnegie, EMC, Downer, Acciona and NSW Rail and many other businesses across Australia.

Tortech has an ongoing commitment to building our products to the highest quality, ensuring we meet the Australian standards in place. Our units are put through rigorous testing and quality management procedures. All specifications and other documentation are managed and controlled under the standards held to the ISO9001 standards we are certified with.
Accreditations  
Quality ISO 9001 Compliant

Compliances  
Quality ISO9001:2015
Achieving ISO9001:2015 accreditation ensures that Tortech Pty Ltd is invested in using best practice methods in running its business ensuring our customers of the highest level of service which results in a quality product at a competitive price.

Avetta Consortium
As a Member of the Avetta Consortium you can be assured that Tortech Pty Ltd has undergone a vigorous audit of all aspects of safety and business dealings with their suppliers and associated business partners. It acknowledges that Tortech Pty Ltd is dedicated to ensuring you as a customer are being looked after by a reputable, reliable, service focused company.
Michael Larkin is a Qualified Engineer with 30 plus years’ experience within the transformer industry both in manufacture and import/export of transformers.

He has been a member of Engineers Australia with continuity of membership since 5/2/1981.

Michael guest lectures regularly at Engineers Australia Association UNSW, UTS, Macquarie University and Saint Sabina College Strathfield.
Key Personnel

Tortech is a proud family owned business with long term loyal employees consisting of 5 electrical engineers, one chartered professional and one PHD Engineer who work very closely with a very dedicated administration support team.

Tortech support staff are all service ordinated with an “How Can I Help You ” and “I Can Do” attitude.

Michael Larkin - Managing Director and Owner
Mike established Tortech Pty Ltd in 1987 and has over 40 years’ experience and knowledge in the Transformer Industry.

With a vast back ground from his previous work at Tyree and Ferguson Transformers. He has a Bachelor of Electrical Engineering from (UNSW) and often lectures at educational facilities such as the Institute of Electrical Engineers, UNSW, UTS, Macquarie University and Santa Sabina College. His business profile extend to Renewable Energy and Business Management. Michael is a chartered professional engineer (IIEEA).

Wesley Ge – COO
He qualified in Electrical Engineering from (UNSW) in 2005. Wesley has vast experience in dealing with overseas suppliers. He’s responsible for overseas factory audit, daily technical communication, and contract negotiation and production coordination.

He frequently travels overseas to ensure Tortech’s products meets Australia Standard, and also brings innovative design back to the Australian market.

Wesley’s extensive product knowledge and attention to detail ensures every aspect of the project is carried out fully to our customer’s requirement.
Mission Statement

TORTECH MISSION STATEMENT

To be the premium transformer supplier in Australia

To supply, source, design and manufacture quality transformers to meet customers’ requirements

To build good long term relationships with our customers through cooperation

To create a positive, “I CAN” approach

TORTECH MISSION STATEMENT

Technicalability
Organisation
Resourcefulness
Truthfullness
Enthusiasm
Competitiveness
Helpfulness
Tortech has worked with numerous companies to bring their projects to life…. will you be next?
Contact Details

The Tortech Team

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