



**TorTech** PTY LTD

*Total Transformer Solutions - Est. 1987*  
*Over 30 Years as Australia's Transformer Specialist*

# 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). Michael has owned the business for over 34 years and has taken it from a small operation with a small turnover to a turnover of over \$5M.

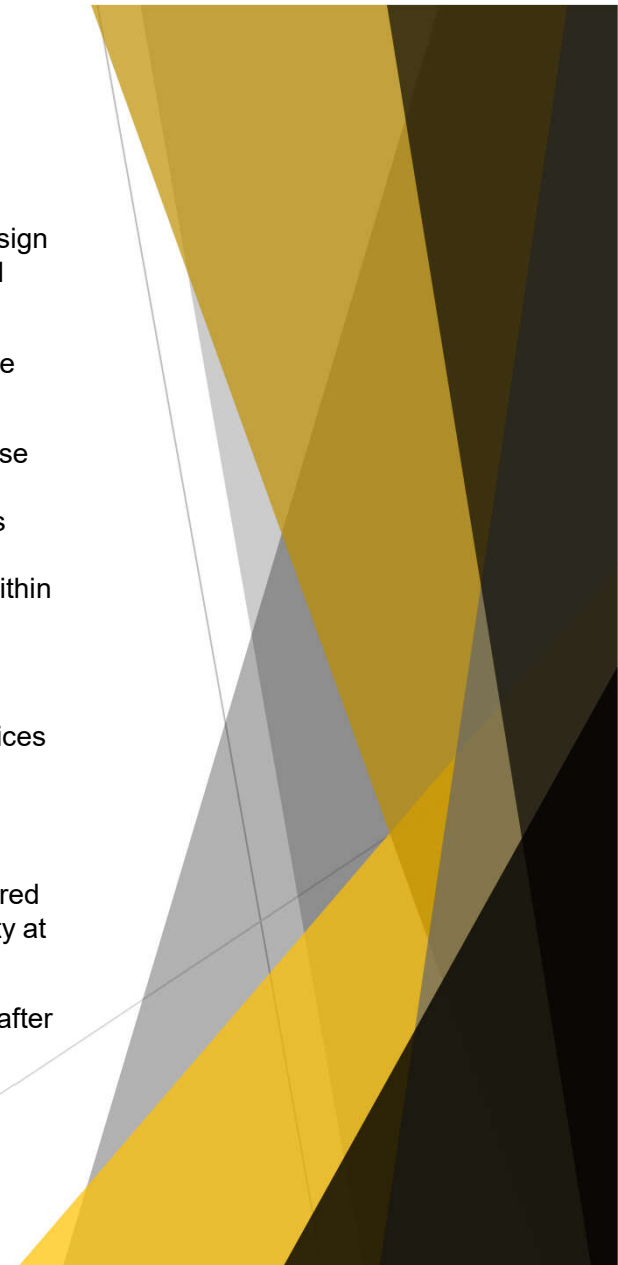
Driving the success of the company has been the growth in competitive expertise in transformer design which meets these costs and quality requirements in the every growing power industry with growth in the economy's infrastructure with that momentum, Tortech has become the preferred supplier of transformers 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 2021 Tortech successfully met the full requirement for IOS9001 after complying with the basic ISO9001 since 2006. We also now meet AVETTA standard for many clients.





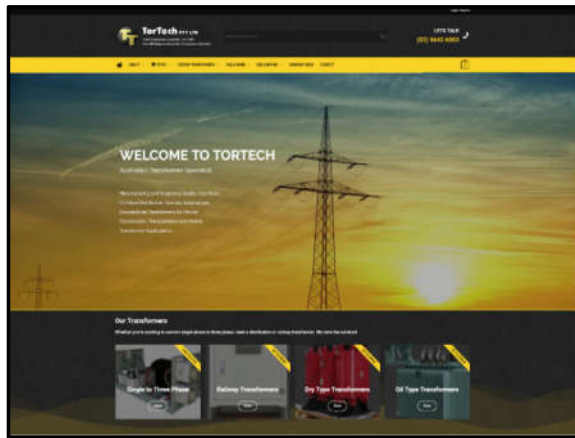
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## Core Competencies:

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.





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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 Secondaries. Special Requirements: 30.

[READ MORE »](#)

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.

[READ MORE »](#)

December 4, 2019 • No Comments



### Wyndham Vale Station Project

This specialised project for Wyndham Vale Station Project features an 80kVA 3-Phase Isolation transformer with Outdoor IP56 Rated Enclosure. Special requirements for this transformer include:

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### 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



### 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



### Light Rail Kiosk Transformer Project

Tortech's 700kVA 11kV to 400V Transformer used for a Light rail application was fitted into an IP56 Kiosk Type Enclosure with separate input and output



## Core Capabilities

### 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 Tortechn designs meet the necessary requirements under standards:

- T HR EL 17002 SP for NSW Transport.
- L1-CHE-SPE-034 for Victoria Rail.
- 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 150KV
- Highly specialised Partial Discharge testing up to 66kV voltages
- Induced Variable Frequency testing from 50Hz to 390Hz





# Products & Services

32 Years Experience in transformer design and manufacture

## Products

### Transformer Range

- Three-Phase Transformers
- Toroidal Transformers
- Outdoor Garden Transformers
- Neon Transformers
- Single-Three Converter
- Stepdown/Step-up Transformers
- Variacs
- Current Transformers
- Printed Circuit Board
- Power Supply
- Inverter
- Battery Chargers



## Services

- Designing
- Manufacturing
- Consulting
- Quoting
- Technical Support



**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 Torteck 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 Torteck 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 Torteck Pty Ltd is dedicated to ensuring you as a customer are being looked after by a reputable, reliable, service focused company.



# Accreditations & Associations

 **global-mark®**

## Certificate of Approval

This certificate confirms that the company below complies with the following standard:

Company Name	Tortech Pty Ltd		
Company Other Name			
Client ID	100568	Scheme	Quality Management Systems Scheme
Certification Standard	ISO 9001:2015: Quality management systems - Requirements		
Scope of Certification	Design, manufacture, supply and testing of transformers and associated products		
Type of Certification	Management System		

**CERTIFICATE DATES:**

Original / Initial	2/11/2018	Last Certificate update	4/10/2021
Certification / Re Certification	20/09/2021	Expiry	9/10/2024
Last Certification Decision	4/10/2021		

**APPROVED COMPANY/SITE ADDRESS(ES):**  
4/11 Wentworth Street Greenacre NSW 2137 Australia

The use of the Accreditation Mark indicates accreditation by the Joint Accreditation System of Australia and New Zealand in respect to those activities covered by JAS-ANZ accreditation. Refer to [www.jas-anz.org](http://www.jas-anz.org) for verification.

This certification remains valid until the above mentioned expiry date and subject to the organisation's continued compliance with the certification standard, and Global-Mark's Terms and Conditions.

This Certificate of Approval remains the property of Global-Mark Pty Ltd. Company Number: ACN 1103 087-634

 **Certification Manager**  


Unique Certificate Code: BEC92CAB74CE4CF9CA25875A000B093E  
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**Michael Larkin is a Qualified Engineer with 30 plus years' experience** within the transformer industry both in manufacture and import/export of transformers.

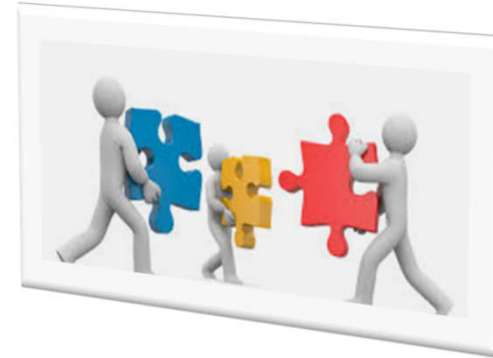
He has been a member of Engineers Australia with continuity of membership since 5/2/1981.

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

## CEO

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

Tortech support staff are all service ordained 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 (MIEAust CPEng)*

## 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

**T** echnicalability  
**O** rganisation  
**R** esourcefulness  
**T** ruthfulness  
**E** nthusiasm  
**C** ompetitiveness  
**H** elpfulfulness



**BHP**



**Downer**  
Relationships creating success



**Carnegie**  
CLEAN ENERGY

**EATON**



THE UNIVERSITY OF  
SYDNEY



UNSW  
SYDNEY



Australian Government  
Department of Defence

**acciona**

**ABB**

**saltmate** saltwater chlorinators

**NOJA POWER**

**Schneider**  
Electric

**Downer**  
Relationships creating success



Transport  
CityRail

**EVOLUTION**

**AMPCONTROL**

**SIEMENS**

**METRO**

**JACOBS**

**RioTinto**

**Aldridge**  
Knowledgeable. Flexible. Reliable.

*Tortech has worked with numerous  
companies to bring their projects  
to life.... will you be next?*

**TESLA**  
**tyco**



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## Contact Details

### Find Us

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Monday to Friday: 9am to 5pm



### The TorTech Team

Managing Director  
Sales Engineer  
Accounts Manager  
Customer Service Administrator  
Snr Engineer & QA Manager  
Electrical Testing Engineer  
Engineer & R&D Projects

Michael Larkin  
Shail Lalaji  
Tina Ariesta  
Vera Nugroho  
Kamal Dassouki  
Bob Mitra  
Vishnu Vijayakrishnan

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