



CTS

ELECTRICAL

Services & Solutions

COMPLETE, MANAGED
ELECTRIC SOLUTIONS



Executive Summary

With over 30 years of experience, CTS Electrical Services is a trusted leader in the electrical, communication, and maintenance industry. We provide tailored electrical solutions for industrial and commercial clients, ensuring reliability and efficiency in every project. Since 1989, we have proudly served major clients across NSW, including prestigious names such as Police NSW, Coca-Cola Amatil, Dexus, Mirvac, Kennards, Australia Post, AMP, and the Powerhouse Museum.

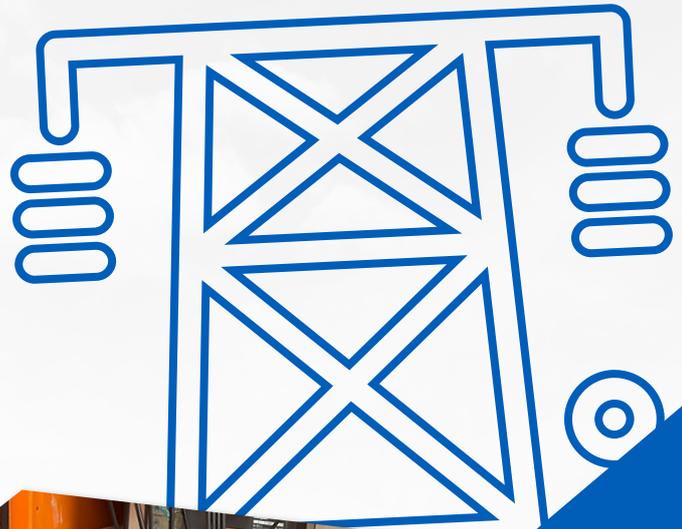
Our expertise spans a wide range of services, including electrical installations, scheduled maintenance, thermal imaging, switchboard upgrades, power factor correction, data logging, CBUS, data and communication systems, fiber optic installations, and ASP Level 2 accredited work. Despite the broad scope of our services, we remain committed to delivering high-quality workmanship at competitive prices.



- We customise our installation for each client and deliver a complete, managed solution from initial build to ongoing maintenance.

A Complete Managed Solution

We place the customer at the core of our business. We consolidate your electrical, data, communications, scheduled maintenance, thermal imaging, power factor correction, Data logging, CBUS, RFID into a single, managed, cost effective solution. Not only that – we maintain your service through our ongoing maintenance package.



it's all part
of the deal.



Our Products & Services

Switchboard Installation and Maintenance.

Thermal Imaging and Power Analysis.

Emergency Lighting Maintenance as well as Design and Installation FPAS Accredited and Certified.

Office Fit Outs. Power, Data and Communications.

Energy Saving Strategies/Lighting Control.

ASP Level 2

LED Upgrade Schemes
supportive of IPART.

Office Relocations System
Design and Installation Power,
Data, and Communications.

CBUS and Dynalite Installation
and Maintenance.

Power Factor
Correction Installation
and Maintenance.

RCD Installation and
maintenance/Testing
and reporting.

Diesel Generator
Installations
and Maintenance.

Fibre Optic Splicing
& Testing

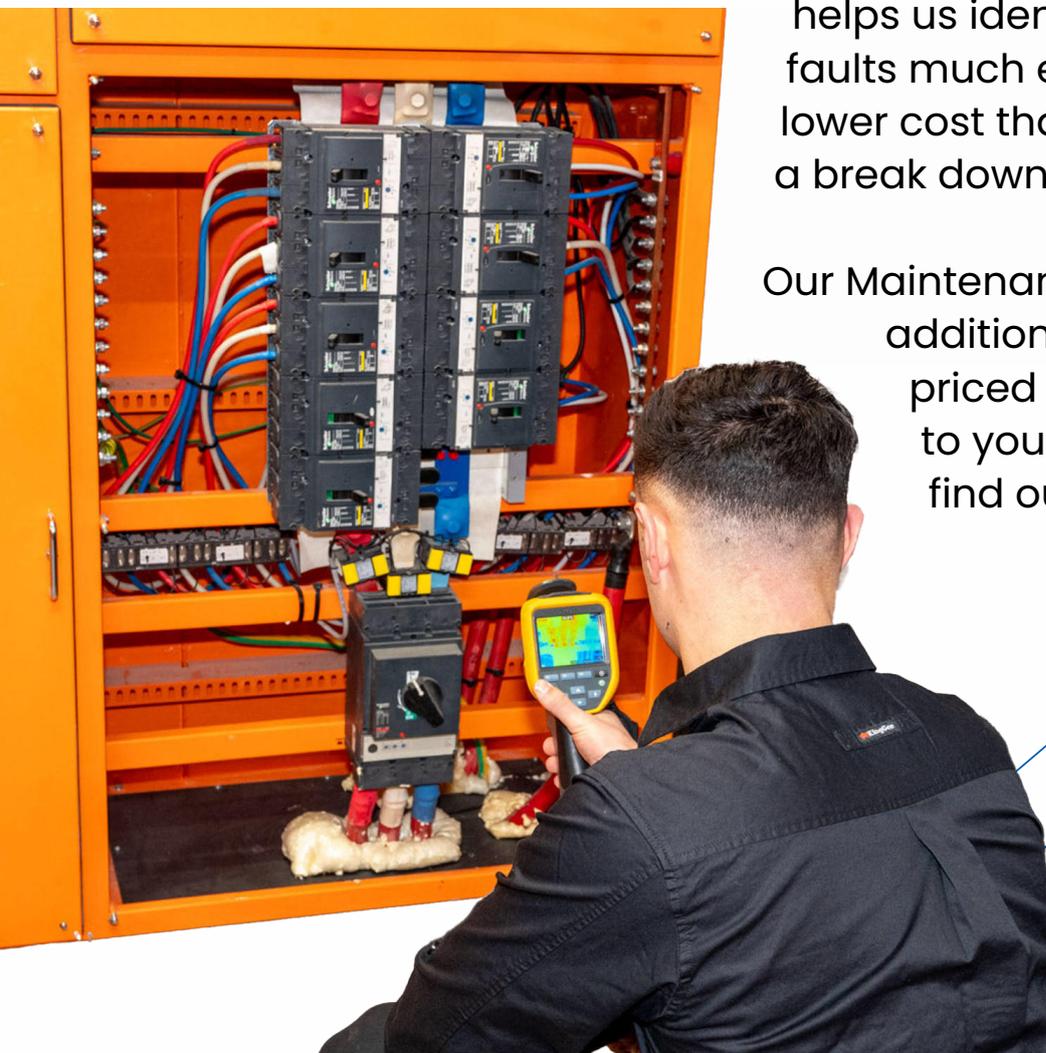
Our Maintenance Package

With electrical systems, data network infrastructure and lighting, there are two very distinct approaches to maintenance and ongoing infrastructure health; scheduled preventative maintenance and reactive maintenance. When electrical systems fail, the costs that accumulate from reactive repairs, parts, productivity downtime and ongoing issues can be considerable.

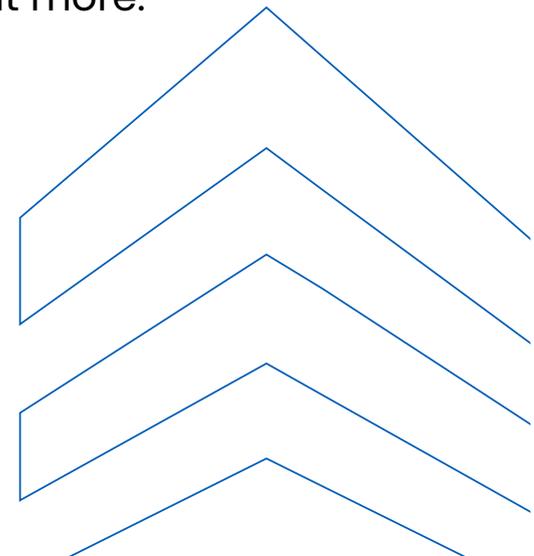


For this reason, we recommend our clients sign up to our ongoing Maintenance Package, so we can conduct statutory

and scheduled upkeep. This helps us identify and rectify faults much earlier and at much lower cost than repair work after a break down.



Our Maintenance Package is an additional cost and can be priced as a package. Talk to your builder today to find out more.



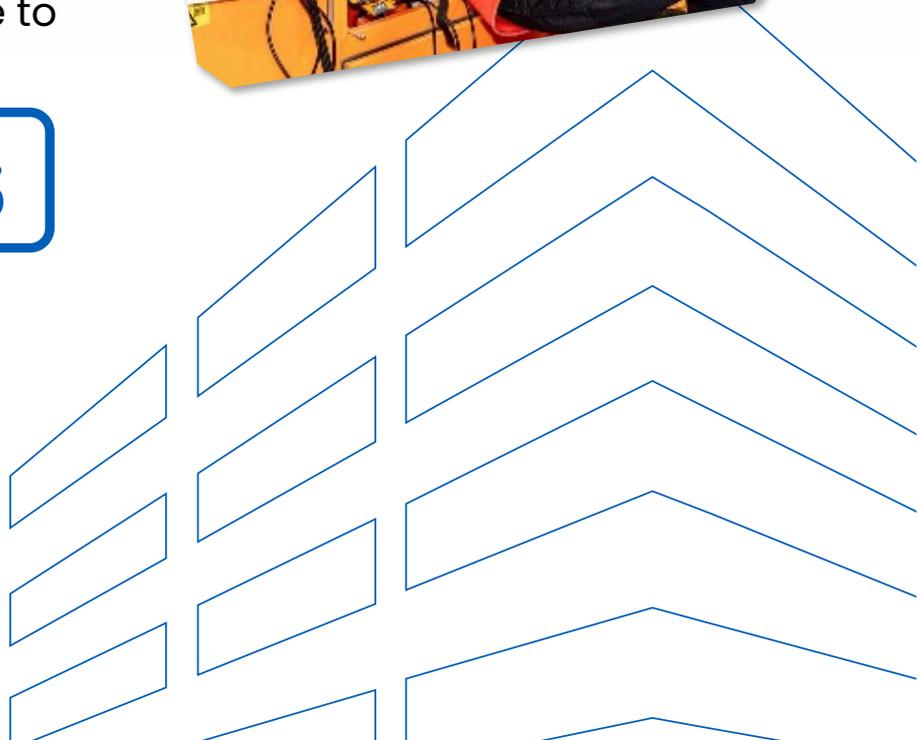


What is the Warranty Period

The warranty period for our work is 12 months on parts and 3 years on labour.

24 Hour Breakdown & Callout Service

In the event of an emergency breakdown of your electricity supply, please contact our emergency line for immediate assistance. Our team is available 24 hours a day, 7 days a week, 365 days a year, ensuring a rapid response to your needs.



THERMAL SCANNING & REPORTS



Our Thermal Scanning and Reporting service uses specially designed infrared cameras to reveal surface heat variations. This service detects abnormally hot electrical systems which may be at risk of failure, often caused by overload or poor electrical connections. They also expose unusual heat patterns in mechanical systems created by excessive friction, among a number of other safety-related and economical applications. Thermal Scanning and Reporting is a non-invasive operation.

REDUCE REPAIR COST



We know how to look ahead into future. By thoroughly inspecting your production and processing equipment and controls, we can pinpoint faulty areas that may cause severe future damage. If allowed to run its course, these faults could be very costly and time consuming to correct. A simple part replacement is often all that is needed to prevent a major future repair expense.

AVOID CATASTROPHIC FAILURES



We use Thermographic Imaging to see what the naked eye cannot. What appears to be a fully functioning and operational piece of equipment, system or installation could in fact be on the verge of a catastrophic failure. This is especially true of older systems, which have a higher incidence of wear and tear. We can tell you ahead of time.

PREVENT PRODUCTION DOWN TIME



As any business owner knows, down time is costly and can be frustrating for everyone waiting for the electricity to come back on. You can avoid this pitfall by scheduling regular thermographic inspections to see and correct a problem before it shuts down your entire operation.

IMPROVEMENT RISK MANAGEMENT



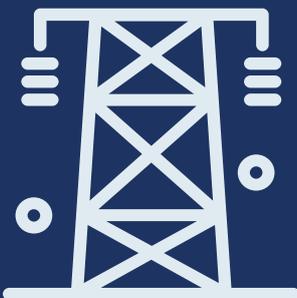
We reduce the risk of personal injury by implementing a reliable safety program that includes regular thermographic testing.

SAVE ENERGY



By isolating areas in your structure that are vulnerable to heat and energy loss, we take steps to create a more energy-efficient operation. This approach is good for the environment as well as the customer's pocket.

POWER ANALYSIS



We analyse the quality and quantity of your Power Usage with high tech instrumentation. Using this data, we recommend Energy saving strategies, such as the use of Power Factor Correction, VSD, and control. After all, energy costs are one of your customer's biggest overheads. So, we monitor usage and reduce cost.

Main Switchboard Installation & Maintenance

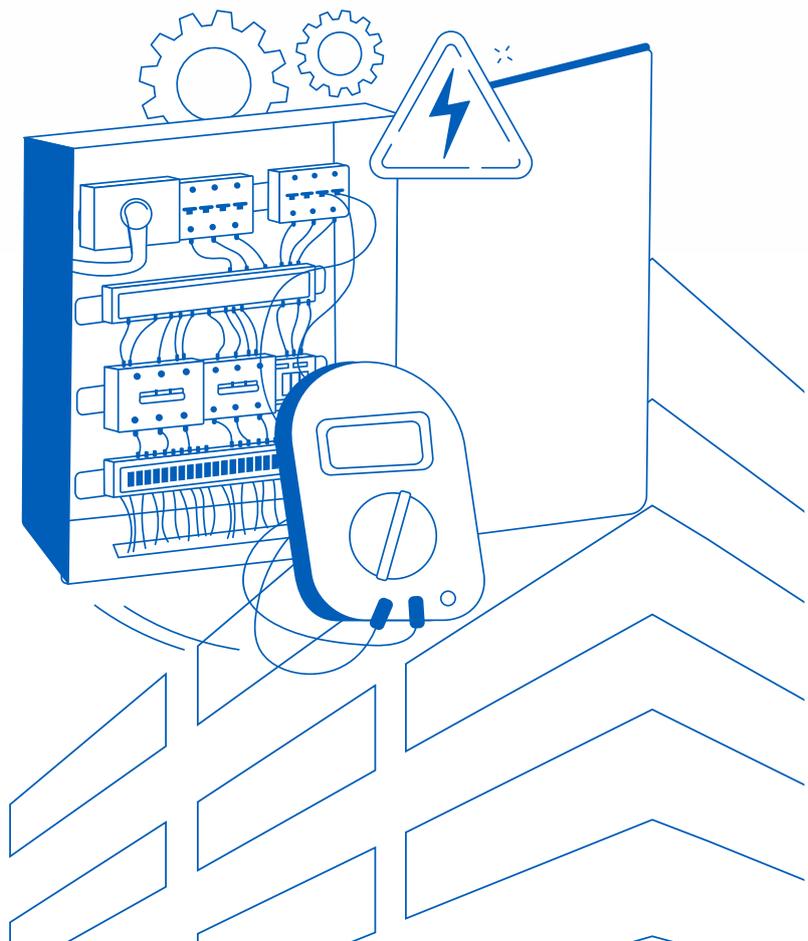
CTS Electrical Services offers comprehensive maintenance for all low-voltage electrical switchboards, covering everything from routine cleaning and inspections to full annual maintenance evaluations. We perform all work in accordance with AS 2487-2008 and AS 3000 standards.

During our switchboard maintenance programs, we isolate the switchboard and any downstream equipment to ensure safety and effectiveness. Our services also include regular inspections of transfer switches and surge protection devices to identify any signs of degradation.

To guarantee the reliability of your electrical systems, we utilize specialized injection testers, 5kV insulation testers, and micro-ohm meters for

testing air circuit breakers (ACBs) and moulded case circuit breakers (MCCBs). We ensure that all cables and connections are within manufacturer specifications.

We collaborate closely with you to develop a tailored testing and maintenance plan, aiming to maintain your switchboards while minimizing any impact on your operations.



Emergency Lighting Testing, Repairs & Certification

Regular testing and inspections of emergency lighting and exit signs are essential for ensuring safety in all types of buildings. These systems are crucial for fire safety, providing clear guidance during emergencies when panic can set in quickly. A well-lit path can save valuable seconds during an evacuation.

In low visibility situations, such as a smoky hallway, illuminated exit signs are vital for directing occupants safely through the building to the outside.

Emergency lighting is most effective when used alongside a well-thought-out evacuation plan. Such a plan helps individuals know where to meet safely and the best routes to take to reach those locations. At CTS Electrical Services, we are dedicated to



helping you maintain compliance with these vital safety measures, ensuring that everyone can navigate to safety when it matters most.

- All escape routes, including external ones, must have sufficient lighting for people to see their way out safely in accordance with Article 14 (2)(h) of the Fire Safety Order and AS2293.1/.2.

Emergency lighting can be

- adapted to a variety of premises either standalone or as a fully monitored system. We make buildings safe by lighting escape routes and allowing for safe movement towards the fire exits.

Emergency lighting also makes sure that fire alarm call points and fire-fighting equipment are clearly visible.

Our work comprehensively complies with Australian standards

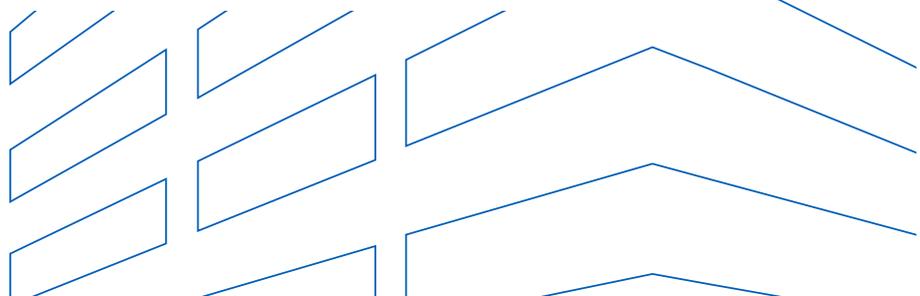


We pride ourselves on our responsibility to our clients through safe and sound work practices. We complete all our work within the Australian Standards, Acts and Regulations.* Not only that, we complete ongoing learning and development through recognised registered training organisations and apply all the available safe work systems and self-regulation in our work practices. Our industry association, the National Electrical & Communications Association (NECA), supports and guides us on all matters related to the delivery of electrical services.

We use licenced electricians for electrical work and provide a Certificate of Compliance – Electrical Work (CCEW) as required by the NSW Office of Fair Trading for all completed works. We also notify all the relevant regulatory bodies. Our team tests all work to the 'Wiring Rules' and we calibrate our test equipment yearly.



CIS19



Meet our Team



➤ **EMMANUEL
CONSTANTOPEDOS**

Director



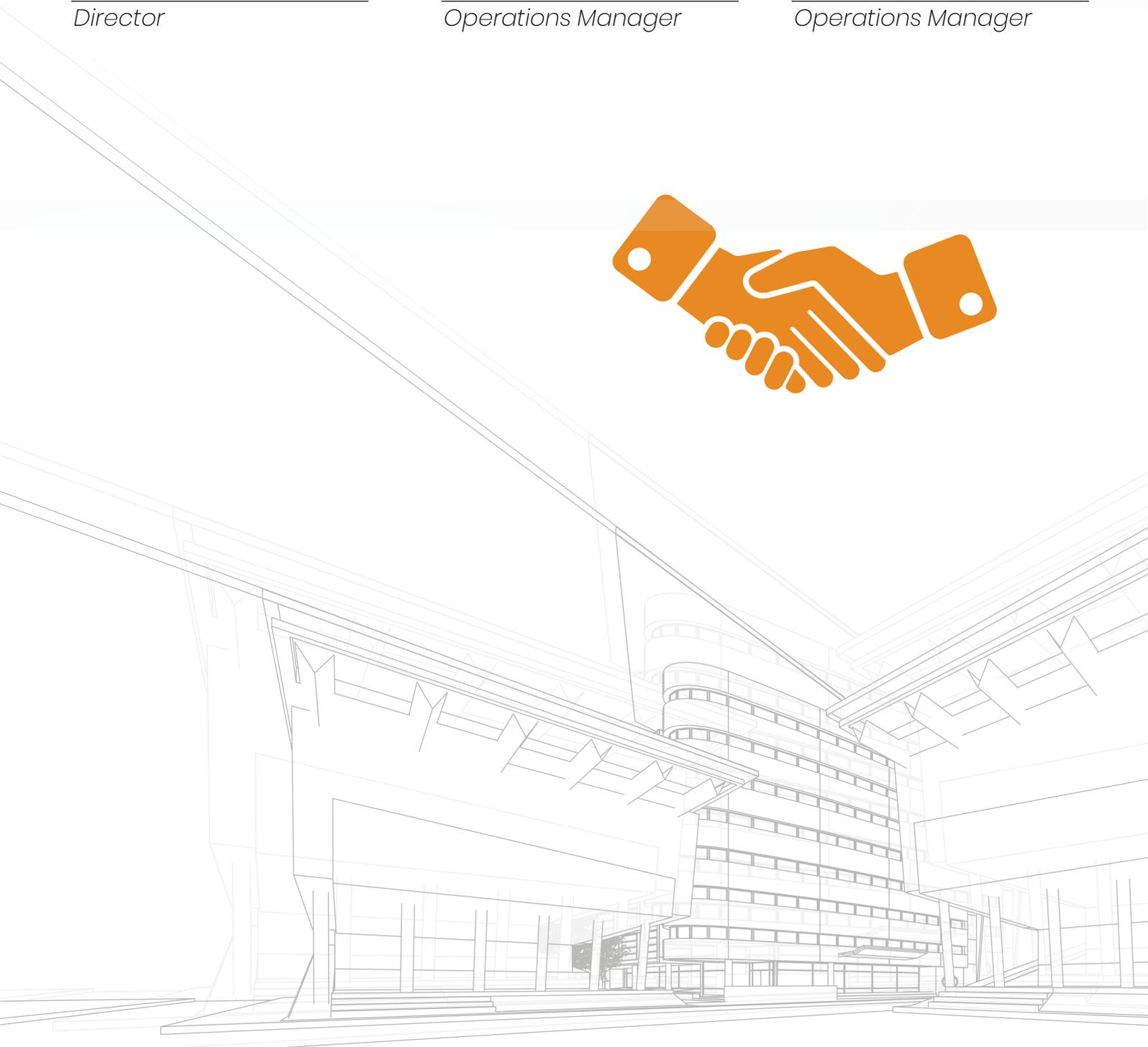
➤ **MICHAEL
CONSTANTOPEDOS**

Operations Manager



➤ **MANOLI
CONSTANTOPEDOS**

Operations Manager



Our work comprehensively follows the following Australian Standards:

- AS/NZS 3000:2018 Electrical Installations 'Wiring Rules'
- AS/NZS 2293.1:2018 Emergency lighting and exit signs for buildings Part 1: System design installation and operation.
- AS/NZS 2293.2:2019 Emergency lighting and exit signs for buildings - Routine service and maintenance.
- AS/NZS 3008.1:2017 Electrical installations - Selection of cables.
- AS/NZS 3001:2008 Electrical installations - Transportable structures and vehicles including their site supplies.
- AS/NZS 3003:2018 Electrical installations - Patient areas.
- AS/NZS 3010:2017 Electrical installations - Generating sets.
- AS/NZS 3012:2019 Electrical installations - Construction and demolition sites.
- AS/NZS 3017:2007 Electrical installations - Verification guidelines.
- AS/NZS 3019:2007 Electrical installations - periodic verification.
- AS/NZS 3760:2010 In-service safety inspection and testing of electrical equipment.
- NSW Service and Installation Rules 2019

The following Acts that we adhere under NSW regulations are:

- NSW Government Code of Practice - Managing electrical risks in the workplace.
- NSW Work Health and Safety Act 2011.
- NSW Work Health and Safety Regulation 2017.
- NSW Home Building Regulation 2014.
- Gas and Electricity (Consumer Safety) Act 2017.





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