

# **SJ** ELECTRIC

## Capability Statement



A member of the  
**SCEE GROUP**

# About S.J. Electric

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## Leading the way in commercial electrical solutions nationwide.

S.J. Electric is proud to be one of Australia's foremost electrical services providers, reaching clients in metropolitan areas and remote regions that span all corners of the country.

We remain highly respected for delivering safe, quality solutions that focus on commercial and industrial electrical installation and maintenance projects. We are renowned for being sought-after specialists in commercial refrigeration as well as light and power services. Our clients have access to our 24 hour/7 days a week service and maintenance offerings across all states and territories in Australia.

Trusted by a broad range of clients in key sectors, the S.J. Electric team brings over 50 years of proven excellence and unmatched experience to businesses that include national supermarket and retail chains, as well as telecommunications providers and industrial infrastructure clients.

Founded in Victoria in 1968, S.J. Electric quickly established a presence before expanding into other states and building a successful electrical services business.

S.J. Electric is a member of the SCEE group of companies, adding its years of expertise and specialist experience to one of Australia's leading electrical, instrumentation, communication and maintenance services groups.

Today, S.J. Electric offers an exceptional reach, with offices in six states, plus storage facilities and workshops. Our nationwide team of highly trained

electricians, engineers and specialists as well as a vast network of sub-contract partners working in regional areas, ensure we are able to provide consistent levels of quality service across Australia.

This approach gives us the edge, particularly when providing teams of experts for simultaneous large-scale commercial refurbishment projects, ensuring that the same high-quality work and proven project management capability is delivered across any number of sites, no matter how large the project or how many states are involved.

Within our significant Utilities and Resources division we employ a dedicated team of design and control system engineers with a range of experience levels from graduate to principal. This team includes chartered and registered engineers, enabling us to deliver and certify complex electrical, instrumentation and control design projects.

S.J. Electric is dedicated to delivering specialised electrical solutions while meeting stringent safety standards and rigorous quality measures. From new builds to refurbishments and upgrades, we apply our expertise to supporting clients in rolling out the significant electrical infrastructure they require to operate efficiently.

Our teams understand how to help clients maximise their productivity through innovative energy management technologies. The goal is to deliver every project right first time, on time, and on budget.



**S.J. ELECTRIC**

# The SCEE Group



**Southern Cross Electrical Engineering Limited ('the SCEE Group') was founded in 1978 and listed in 2007 (ASX:SXE). Over that time we have grown to be a leading national electrical, instrumentation, communications and maintenance services group of businesses. The acquisitions of Datatel in 2016, Heyday in 2017 and the Trivantage Group, which includes the businesses of S.J. Electric, SEME Solutions and Trivantage Manufacturing, in 2020 means the SCEE Group is now diversified across three broad sectors of infrastructure, commercial and resources.**

SCEE Electrical is the original operating business of the SCEE Group, historically focussed on resources and industrial projects, but more recently diversified into transport, infrastructure, defence, utilities and renewables.



Datatel is a telecoms and communications specialist and provides services to the education, health, government, resources and transport sectors.



Heyday is a NSW and ACT-based electrical contractor undertaking commercial building construction and fit-outs, and servicing the office, retail, hotel, high-rise residential, education, health, transport, industrial and data centre sectors.



**Heyday Group**

S.J. Electric is a national provider of electrical and maintenance services to supermarkets, and the retail, commercial and water sectors.



SEME Solutions provides electronic security services to the resources, law-enforcement, custodial, industrial, and health sectors.



Trivantage Manufacturing is a leading manufacturer of packaged electrical solutions including premium quality switchboards, kiosk substations and switchrooms, covering low to high voltage capabilities across the infrastructure, resource and commercial sectors.





# Our Markets

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## Delivering specialist electrical solutions to Australian businesses.

S.J. Electric brings its excellent reputation, built over 50+ years, to providing outstanding services and solutions to a range of markets nationwide, from metropolitan to remote regions.



### Commercial

S.J. Electric leads the way in its renowned delivery of specialised electrical solutions to the commercial sector, with a focus on refrigeration and light and power. From national supermarket, liquor and petrol chains, to public buildings, we bring our national presence and capability to commercial businesses in all corners of the nation. We undertake installation, maintenance, and safety testing for large and small clients, and have proven skills in managing large commercial project roll-outs nationally. We are known for taking on upgrades, refurbishments, and new developments, and our specialist teams apply their extensive experience to deliver projects on time and on budget.



### Infrastructure

At S.J. Electric, we understand the critical electrical requirements faced by utilities in operating and maintaining their infrastructure assets. We offer extensive experience in the water and waste-water industry, having delivered projects in both urban and remote regions throughout the country. We have a solid core of engineers, project managers, and licensed tradespeople with specialist skills to assist our clients in completing their often complex electrical, instrumentation, and control projects. We deliver light and power systems to major utilities, with maintenance and back-up services to ensure operations stay online, and keep running uninterrupted, ensuring productivity is not diminished.

# The S.J. Electric Difference

## National reach

S.J. Electric has six state offices, workshops, and storage facilities that provide access to all parts of Australia. In addition to our branch offices and storage facilities, we have a vast network of long-standing sub-contracting partners assisting us with service and maintenance work, as well as regional projects.

## Light and power specialists

From a national, multi-site refurbishment roll-out to reliable tag and testing, or simple tube replacement, every client has unique expectations for their light and power. Every site has different demands for accreditation, licensing and induction and every prime contractor has a preferred way of operating. At S.J. Electric we put in the effort and planning to satisfy those diverse needs, ensuring projects run smoothly, effectively and on-time.

## Ability to deliver multi-site projects nationwide

All of our clients benefit from our network of expert professionals with the experience to deliver multi-site projects, specialising in roll-outs on a national scale for major supermarket and retail chains.

## New-generation energy management technologies

We have the resources and expertise to recommend innovative new technologies that enhance client energy efficiencies. We help our customers achieve considerable energy savings in a number of ways, including smart metering (IOT), lighting control upgrades, and power factor correction installation.

## Refrigeration capabilities nationally recognised

We are respected for our design, installation, and maintenance services of high-quality commercial and industrial refrigeration systems. Nationally, we are considered a major electrical supplier in this specialised field and have established preferred electrical contractor status with several leading refrigeration and processing companies.

## An experienced team of control systems engineers

S.J. Electric offers a highly experienced team of control systems engineers to support our utilities and resources clients. They hold both Chartered and Registered qualifications, and provide support to design team control systems, plus undertake stand-alone control systems projects for clients.

# Our Capabilities

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## Electrical Construction

At S.J. Electric, we have a long demonstrated and proven capability in the electrical design, construction, installation, commissioning and servicing of general and specialised electrical solutions. Our strength in commercial and industrial refrigeration is well known, and we provide services to clients from multi-national supermarket, liquor, and petrol chains, to data centres and public buildings. Whether upgrades, refurbishments or new developments, clients rely on us to respond with well-engineered solutions and critical light and power systems that can be delivered to any corner of the country, with minimal service disruptions.

- Power reticulation
- Lighting requirements
- Emergency and exit lighting
- Automatic stand-by back-up power generation
- Refrigeration control system design including control panel/PLC/SCADA
- Type tested main refrigeration and distribution boards
- Quality switchboard manufacturing
- Sub-metering (IOT)
- Lighting control upgrades
- Power factor correction installation
- Installation of variable speed drives on refrigeration/HVAC
- Compressor and Building Management and Control System (BMCS) upgrades

## Water and Wastewater System Specialists

S.J. Electric has been operating for over 50 years and has a proven track record in delivering water and wastewater projects and products to both urban and remote regions. We have a solid core of experienced personnel to deliver a wide variety of future water and wastewater projects and offer clients expensive breadth and depth of specialist experience in the water sector. From site audits, retrofits and upgrades and greenfield sites, S.J. Electric has assisted many water and wastewater companies and councils to meet their needs.

S.J. Electric has proven experience in the supply and installation of pumping and associated mechanical, electrical and instrumentation equipment used in clear water and effluent pumping stations, water quality control and treatment plants.

- Turnkey design and drafting capabilities, electrical including power system studies and control systems. All RPEQ certified.
- Switchboard design and manufacture capabilities (including change overs and isolation).
- On site management, installation and commissioning including a strong long standing connection with key civil contractors.
- Supply authority management and co-ordination



## Electrical Maintenance Services

We are highly regarded for our strong capability in the provision of round-the-clock, reactive service and routine facility maintenance to metropolitan and regional centres across Australia. Our national network responds 24/7 with complete and effective services including prioritised break-down, preventative and corrective maintenance solutions. We deliver these with minimum business disruption, and our systems and processes are designed to give clients confidence in their asset performance and longevity.

- 24 hour/7 days a week installation and service
- Break-down repair and service
- Temporary power generation
- Asset register management
- Electrical testing and tagging
- Emergency and exit light testing
- RCD testing
- Thermographic imaging
- Switchboard service/maintenance

## Main Switchboards/Motor Control Centres/ Distribution Boards

Being a member of the SCEE Group, S.J. Electric utilises Trivantage Manufacturing's local factories to design and manufacture a range of Low Voltage Power Distribution products. These in-house capabilities allow us to provide our customers with the ability to customise, and influence the design of their switchboard as well as attending our local factories for factory acceptance testing (FAT).

As an original equipment manufacturer (OEM) we partner with leading technology providers and can offer the right brand of switchgear to best suit the overall electrical design.

Our low voltage power distribution products are available in a range of options and sizes:

- Design verified to AS/NZS 61439.1:2016 at 415V and 690V
- Zinc anneal mild steel, aluminium or stainless-steel construction
- Modular non welded or custom-built fully welded construction
- Powder coating in a wide range of colours, ripple, orbital or polished finishes available
- Degree of ingress protection up to IP66
- Current ratings up to 6300A Short circuit withstand capacity up to 100kA for 1 second and 50kA for 3 seconds
- Form of internal separation up to Form 4b
- Voltage ratings up to 1000V
- A range of configurations – front connect, rear connect or back-to-back
- Temperature rise testing 3200A, 4000A and 6300A ACBs
- Internal arcing fault compliance: 415V 65kA and 690V 60kA

# Commercial



## National Auto Gate Installation

<b>Client</b>	National Supermarket Chain
<b>Location</b>	Nationally
<b>Market</b>	Commercial – Supermarket
<b>Capabilities</b>	Electrical Construction

### Scope of Work

Stock loss through theft has been and still remains a significant issue across our clients' chain of stores in Australia. In an effort to combat the issue, our client made the decision to alter their store entrances in combination with other stock-loss initiatives. A major initiative in the altering of the store entrances was the introduction of glass balustrading to entrances, reducing entry widths and providing automatic barrier protection forcing customers to follow standard traffic flow when exiting the store, one that would direct them to the areas of the store that had significantly more security measures in place.

S.J. Electric was engaged to install the automatic entry gates into store entrances completing the following electrical construction works across 550 of our clients stores nationally.

- Marking out the floor and chase for electrical and data cabling for auto gates
- Installing auto gates
- Hardwiring all items for above
- Commissioning of auto gates



## National Energy Sub Metering Roll-out

<b>Client</b>	National Supermarket Chain
<b>Location</b>	Nationally
<b>Market</b>	Commercial – Supermarket
<b>Capabilities</b>	Electrical and Instrumentation Construction

### Scope of Work

S.J. Electric was tasked with the installation of an energy sub-metering system across 850 of our clients stores, nationally. The system needed to integrate with the clients existing Energy Management Centre (EMC), monitoring energy consumption data on their refrigeration, air-conditioning, and lighting so that they could remotely track energy consumption and take-action in real-time.

S.J. Electric managed the entire project which encompassed sourcing the sub-metering system, developing the roll-out program and then implementing installation with minimal disruption to store trading. This included:

- Manufacture of 850 enclosures to house the sub-meter components and clients gateway equipment
- Installation of all field sub-metering hardware including current transformers, meters, interconnecting cabling and communication devices
- Configuration of the various equipment and ensuring validation of the collected data
- Establishing a connection to the clients network
- Supply of a QA and document submission to the clients' stringent standards



## National LED Lighting and Anti-Sweat Controller Upgrades

<b>Client</b>	National Supermarket Chain
<b>Location</b>	Nationally
<b>Market</b>	Commercial – Supermarket
<b>Capabilities</b>	Electrical and Instrumentation Construction

### Scope of Work

Over the last three years S.J. Electric has been undertaking a major LED lighting and anti-sweat controller upgrade project for one of our national supermarket customers.

With the customer's goals of safety, reliability and energy savings in mind, the team at S.J. Electric have undertaken a number of initiatives. To increase energy savings in food preparation areas and all back of house areas, non-LED light fittings were replaced with LED light fittings as well as the fitting of additional integrated microwave motion sensors. Case lighting controls were upgraded in all stores to ensure lights switch off outside of store trading hours. A range of cases, (including deli, fresh produce, meat and dairy) were upgraded with 24V drivers and 24V LED tubes, a safer working voltage. All glass door insert door heater circuits were fitted with Emerson anti-sweat controllers to reduce power consumption.

To date over 900 stores have been completed with minimal disruption to store trading.



## National Switchboard Upgrade Program

<b>Client</b>	National Supermarket Chain
<b>Location</b>	Nationally
<b>Market</b>	Commercial – Supermarket
<b>Capabilities</b>	Switchboard Manufacture and Refurbishment

### Scope of Work

For the last six years our S.J. Electric teams have been working with our client on the refurbishment, upgrading and replacing of their end-of-life switchboards nationally. The refurbishing of these switchboards are extremely important as it helps prevent major breakdown issues that can and do impact on our clients' ability to keep their supermarkets running as well as mitigating expensive repair bills.

The scope of works for this project entails assessing each store's requirements and then providing designs for the most effective custom-made electrical switchboard and distribution boards tailored to individual needs. Our team then manufacture the switchboards, collaborating with the client to plan the staging process where electrical switchboards could be removed and replaced with minimal disruption to business. This needs to be precise to coincide with trading hours. Our site crews prepare the sites by installing temporary generators and electrical switchboards to ensure constant power supply for lighting and refrigeration.

Our nationwide team of electricians and electrical fitters then carried out installations consistently, efficiently and to the highest quality and safety standards.

# Commercial



## National Service and Maintenance Contract

<b>Client</b>	National Supermarket Chain
<b>Location</b>	Nationally
<b>Market</b>	Commercial – Supermarket
<b>Capabilities</b>	Electrical and Instrumentation Construction

### Scope of Work

S.J. Electric have been providing ad-hoc electrical and instrumentation maintenance services to our client for over 40 years with a more formalised preventative and reactive service and maintenance contract being in place for the last 15 years.

With stores spread across the country our client places their trust in us to be there when things go wrong. With over 150 service technicians as well as an established sub-contractor network that spans the nation we confidently deliver the following services 365 days a year:

- 24 hour/7 days a week installation and service
- Break-down repair and service
- Temporary power generation
- Structured Asset Maintenance program (Asset Register Management, Testing and Tagging, Emergency and Exit Light Testing, RCD Testing and Thermographic Imaging)



## Distribution Hub Fit-out

<b>Client</b>	National Supermarket Chain
<b>Location</b>	Victoria
<b>Market</b>	Commercial – Supermarket
<b>Capabilities</b>	Electrical Construction and Switchboard Manufacture

### Scope of Work

S.J. Electric was engaged to deliver general light and power and refrigeration electrical services for the fit-out of one of our clients new online DC Hubs. The 'delivery only' Hub is housed in a 7,000 sqm warehouse and services more than 5,000 orders each week. The Hub – which is not open to walk-up shoppers, holds a curated range of popular online products and employs more than 400 people.

S.J. Electric supplied and carried out installation of the new site main switchboard and main earth, DB.1, DB.UPS, generator connection, cubicle, cable tray, sub-mains cabling, sub-mains for temporary generator connection cubicle and unfused tee-off box for temporary generator connection.

S.J. Electric supplied and installed all power including outlets and new light fittings throughout the entire warehouse and conducted all testing, labelling and commissioning.

Finally, the team supplied and installed all communication racks, Cat6 data outlets and patch panels as well as 12 core OM4 fibre tie cables.



## Forest Hill Chase Shopping Centre Refurbishment

<b>Location</b>	Victoria
<b>Market</b>	Commercial – Retail
<b>Capabilities</b>	Electrical and Instrumentation Construction and Switchboard Manufacture

### Scope of Work

S.J. Electric was contracted to supply and install new light and power as well as upgrade the existing sub-station for the new restaurant precinct 'The Loft' on Level 3 at the Forest Hill Chase Shopping Centre.

S.J. Electric installed all of the new lighting for the level as well as installing individually metered switchboards for the 12 new restaurant tenancies. This involved the manufacture and installation of a new 1200A MDB-L3 switchboard to supply each of the tenancy sub-boards.

Our team upgraded the existing sub-station from a 1500kVA to a 2000kVA transformer and replaced the existing main switchboard to accommodate the additional power load the shopping centre now required as a result of the refurbishment.



## Greenvale Lakes Shopping Precinct Greenfield Construction

<b>Location</b>	Victoria
<b>Market</b>	Commercial – Retail
<b>Capabilities</b>	Electrical Construction and Switchboard Manufacture

### Scope of Work

The Greenvale Lakes shopping precinct is located in the northern suburb of Roxburgh Park in the City of Hume, which is one of Victoria's fastest growing municipalities. The new shopping precinct comprises of a Woolworths supermarket, BWS outlet, three minor tenancies, McDonalds restaurant, petrol station and end of trip facilities.

The project showcased S.J. Electric's ability to manage multiple facets of a greenfield site build, starting with the design and supply and/or installation of the site's power distribution assets. These included:

- Design and supply of the sites main switchboard
- Design and supply of the house services distribution boards
- Design and supply of the supermarket switchboards
- Installation of the new 1000kva kiosk sub-station
- Installation of the Supply Capacity Control Device (SCCD)

With light and power and refrigeration services being the cornerstone of S.J. Electric's offering, our team completed the full light and power fit-outs for both the supermarket and liquor outlets as well as the light and power base builds for the three minor tenancies. S.J. Electric also took care of the installation of the precinct carpark lighting as well as the full electrical refrigeration fit-out of the supermarket.

# Commercial



## Red Rooster Refurbishment

<b>Location</b>	New South Wales
<b>Market</b>	Commercial – Retail
<b>Capabilities</b>	Electrical Construction

### Scope of Work

The S.J. Electric team were recently engaged to help transform the NSW Rouse Hill Store, a challenging project as the store remained operational throughout the refurbishment.

S.J. Electric upgraded all the existing lighting throughout the customer service area with LED downlights, pendant lighting and LED strips.

- Disconnect and reconnect of new sale counter
- Upgrade of outdated menuboards
- Installation of new drive-thru space including canopy with lighting, digital menuboards and speaker box
- Installation of new external signage lighting (building façade, carpark pole lighting, customer parking signage)
- Upgrade of switchboard to RCD circuits
- Installation of festoon lighting in external sitting area
- Installation of new digital ordering boards.



## 11 Waymouth Street Fit-out

<b>Location</b>	South Australia
<b>Market</b>	Commercial – Retail
<b>Capabilities</b>	Electrical Construction and Switchboard Manufacture

### Scope of Work

S.J. Electric was engaged to implement a full light and power redevelopment of the ground floor at 11 Waymouth Street in the Adelaide CBD. The project involved converting an abandoned food court into a new 300 square metre mezzanine floor, plus seven food, beverage and retail tenancies that spread out into a plaza. The existing retail metering switchboard was replaced with a new 630A retail switchboard to allow for the extra tenancies.

The base build completed on each tenancy included new retail meter switchboards complete with new submains, emergency lighting and ten pair IDF.

The new lobby and common areas have all been fitted out with a mix of new LED strip and down lighting while a newly created laneway has been fitted out with feature catenary lighting. The landscaped plaza area features garden beds and green walls complete with LED spot lighting, both in garden beds and on the wall face as well as catenary lighting. New steel supatree features were installed with up lighting installed within. All new lighting throughout the project is controlled by a new Cbus control complete with touch screen for manual override and scheduling updates.

# Infrastructure



## Rockhampton Wastewater Treatment Plant Upgrade

<b>Client</b>	Rockhampton Regional Council
<b>Location</b>	Queensland
<b>Market</b>	Infrastructure – Wastewater
<b>Capabilities</b>	Electrical and Instrumentation Construction

### Scope of Work

The S.J. Electric Utilities and Resources team was awarded two major Sewerage Pump Station (SPS) upgrades for the Rockhampton Regional Council. Our team were tasked with upgrading the complete electrical and pumping system at Hadgraft Street SPS as well as the electrical system at the Jardine Park SPS.

S.J. Electric's engineering team conducted complete power systems analysis, including arc flash assessment across each site as well as complete safety in design risk assessment in conjunction with the end user.

S.J. Electric's control systems team were responsible for developing detailed control functional specification and process philosophies in accordance with end user requirements as well delivering ControlLogix PLC programming to enable full control and monitoring of new equipment.

The project was a complete success showcasing our ability to offer a turnkey solution to our clients including complete electrical scope within projects, electrical design, switchboard manufacture, site electrical installation and controls systems programming.



## Eagle Farm PLC Replacement

<b>Client</b>	Confidential
<b>Location</b>	Queensland
<b>Market</b>	Infrastructure – Wastewater
<b>Capabilities</b>	Electrical and Instrumentation Construction

### Scope of Work

The Eagle Farm pump station is the largest pump station in Brisbane, which pumps approximately 65% of Brisbane's sewage to the Luggage Point Wastewater Treatment Plant.

This project involved the replacement of the existing GE pump PLCs with new Siemens S7-300 PLCs. Additionally, the site overall Master GE PLC was replaced with two Siemens S7-400 hot standby PLCs. This project was significant in size, due to the need for the control of the ancillary equipment required for the operation of the individual pumps. The control system consisted of 27 remote I/O drops, connected via a new ethernet ring network.

S.J. Electric performed the program version conversion and testing, electrical installation works, SCADA configuration and changes, end user input and workshops and commissioning and testing.

# Sustainability

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**As part of the SCEE Group, we at S.J. Electric are committed to delivering sustainable and profitable growth of our business without compromising on our responsibilities to the environment, our people and the communities in which we operate.**

Our approach to sustainability falls under the following broad categories:

## **Environment**

We seek to promote best environmental practices within our areas of operation through our policies and procedures.

Highlights include:

- Environmental Management Systems accredited to ISO 14001
- Low carbon footprint throughout our operations
- Contributing to the decarbonisation of Australia through our delivery of renewables, recycling and energy efficiency projects



## Health and Safety

We consider the wellbeing of our people to be of paramount importance and are committed to providing a workplace that achieves zero harm. Highlights include:

- Health and Safety Management Systems are accredited to ISO 45001
- 5 Star Commitment safety approach addressing the highest critical risk areas
- Regular injury prevention training

## People and Community

We are committed to providing a safe workplace for our people and investing in their growth. We engage with the communities in which we operate seeking to create a positive legacy through maximising local employment opportunities. Highlights include:

- Dedicated Health and Wellbeing Advisor and access to an Employee Assistance Provider
- Regular training and development opportunities
- Diversity Policy encouraging and supporting diversity in our workforce
- Indigenous Employment Policy facilitating sustainable employment opportunities
- Human Rights Policy and Modern Slavery Statement

## Corporate Governance

The SCEE Group has a Board-endorsed Corporate Governance Framework aimed at ensuring the business is managed effectively and ethically and that risks are appropriately identified, monitored and addressed. Highlights include:

- Experienced and appropriately structured Board and Committees
- Code of Conduct governing our dealings with stakeholders
- Anti-Bribery and Corruption and Whistleblower Policies

# Our Industry Accreditations

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## Proudly affiliated with the best

All S.J. Electric stakeholders can have total confidence in a contractor who sets the standard for all-round electrical services excellence and is an acknowledged industry leader.

## S.J. Electric holds the following qualifications and certifications

Registered Electrical Contractor Licence VIC 13700  
Registered Electrical Contractor Licence QLD 73286  
Registered Electrical Contractor Licence NT C2714  
Registered Electrical Contractor Licence TAS 942102  
Registered Electrical Contractor Licence NSW 235675C  
Registered Electrical Contractor Licence ACT 201484  
Registered Electrical Contractor Licence WA 006006  
Registered Electrical Contractor Licence SA 128613  
Security Agent Licence SA ISL 226148

## S.J. Electric are a part of a Control System Alliance with Siemens and Schneider

S.J. Electric takes a systematic and proactive management approach to our workplace health and safety, and our quality certifications. These are independently certified to comply with the most stringent standards, ensuring we're the business clients can rely on.

**ISO 45001:2018 OHS Certificate**  
**ISO 9001:2015 QMS Certificate**  
**IS14001:2015 EMS Certificate**

S.J. Electric are a member of the National Electrical and Communications Association (NECA)





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