



ENERGY STORAGE CAPABILITY STATEMENT

**RESOLVED
FROM EVERY
ANGLE**



OMNII IS A PURE-PLAY FIRE CONSULTANCY SPECIALISING IN FIRE SAFETY ENGINEERING AND FIRE PROTECTION SERVICES.

OUR EXCLUSIVE FOCUS ON THESE DISCIPLINES SETS US APART FROM OTHER CONSULTANCIES.

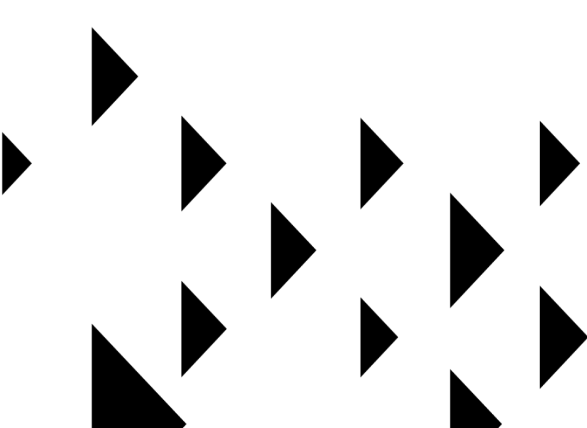
While there is considerable advantage for a project in engaging Omnii for both fire safety engineering and fire protection services; there is also a clear delineation between the two disciplines, allowing us to provide each service independently if required.

Our objective on all projects is to develop solutions that are sustainable and pragmatic, tailored to the project requirements.

Our repeat engagement on high-profile projects, especially those involving sophisticated fire safety engineering and fire protection services, is testimony to the quality of our work and confirms our standing as the trusted experts in our field.

Quality of service is the mainstay of our business, supported by our ISO9001-2015 Quality Management System, and backed by a wealth of industry knowledge and experience across all aspects of fire safety.

We strive to align ourselves with clients of similar ethos and vision and understand the drivers and intricacies of the markets in which they operate.





**OUR CLIENTS VIEW US AS
THEIR TRUSTED
PARTNER TO PROVIDE
SPECIALISED AND
INNOVATIVE FIRE
SOLUTIONS THAT
ARE RESOLVED FROM
EVERY ANGLE.**



FIRE SAFETY ENGINEERING

- Performance-based, fire-engineered solutions.
- Fire engineering reports for building approval applications.
- Master planning and concept advice.
- Value management and value add reviews.
- Preliminary fire safety strategies and advice.
- Fire risk assessments and audits.
- Developer/builder bid reviews and refinement.
- Feasibility studies.

FIRE PROTECTION SERVICES

- Fire sprinkler systems.
- Fire detection and alarm systems.
- Fire hydrant and fire hose reel systems.
- Special hazard designs including foam, gas and deluge suppression systems.
- Portable fire extinguisher systems.
- Hypoxic atmosphere systems.
- Fire protection services, site reviews and audits.
- Due diligence and pre-purchase reviews.
- Foam system replacement solutions.

WE DELIVER SUCCESS FOR

- Aviation & Airports
- Commercial
- Defence
- E-Commerce & Information Technology
- Education
- Healthcare and Seniors Living
- Hotels & Resorts
- Industrial
- Judicial
- Major Hazard Facilities
- Mining & Minerals
- Oil & Gas
- Petrochemical
- Power Generation
- Public, Sports, Stadia, Entertainment & Leisure
- Renewable Energy
- Residential
- Retail
- Transport & Infrastructure
- Water Treatment



BATTERY ENERGY STORAGE SYSTEMS, ELECTRIC VEHICLES AND CHARGING STATIONS

As Australia transitions to sustainable energy, Omnii are at the forefront, providing advanced fire safety solutions for Battery Energy Storage Systems (BESS), Electric Vehicles (EVs), and Charging Stations. Our expertise achieves safety, compliance, and innovation in this rapidly evolving sector.

BESS Safety

BESS are critical for renewable energy integration but pose unique fire risks due to high energy densities and potential for re-ignition. Omnii's specialised fire protection strategies and risk assessments achieve safe operation and compliance with Australian standards.

EV Fire Safety

EVs bring specific fire challenges with their high-capacity batteries and potential for re-ignition. Omnii's in-depth knowledge and innovative fire safety measures reduce the potential impact on occupant evacuation and fire brigade intervention.

Charging Station Safety

Charging stations are essential for EV adoption and are required by NCC 2022. Omnii address these facilities with state-of-the-art fire detection and suppression systems, reducing the specific risks of high-voltage equipment.

Considerations from a fire impact perspective include:

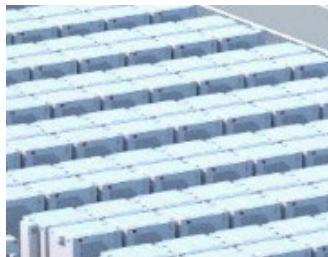
- ▶ **Battery Management:** Strategies to manage thermal runaway incidents in BESS and EV batteries.
- ▶ **Fire Suppression Systems:** Specialised systems for fires in BESS, EVs, and charging equipment.
- ▶ **Risk Assessment:** Comprehensive evaluations to identify and mitigate potential fire hazards.
- ▶ **Regulatory Compliance:** Ensuring all designs comply with national and international fire safety standards.

We work closely with architects, developers, and regulatory bodies to create holistic fire safety solutions. Our research-based initiatives promote best practices and enhance safety standards across the industry.

Omnii tailors fire safety strategies to meet the specific needs and objectives of each project, ensuring efficient and cost-effective solutions. We protect assets, lives, and contribute to the broader goal of sustainable and safe energy solutions.

BATTERY ENERGY STORAGE SYSTEMS, ELECTRIC VEHICLES AND CHARGING STATIONS TRACK RECORD

Omnii have provided fire engineering and fire protection services for several BESS, EV and CS projects including:



Project: Morwell Renewable Energy Hub
Location: Morwell VIC
Client: icubed Consulting
Services: Fire Protection Services

Detail: The project features 2 x Battery Energy Storage System (BESS) Facilities. The site is a new development and will require a site wide fire hydrant system with the intention of maintaining the fire water supply to the Hydrant system from the Towns Main. Omnii is providing Fire Protection Services to design and document a Fire Hydrant System, including fire water Infrastructure, and a Fire Hose Reel System



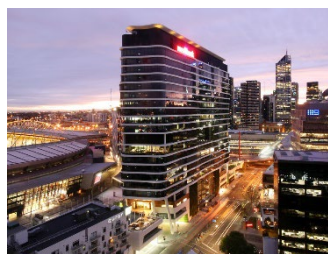
Project: SAFT Battery Container
Location: Weipa QLD
Client: SAFT/Rio Tinto
Services: Fire Protection

Detail: On this project, an Omnii team member previously carried out a desktop gap analysis to identify the shortfalls of the fire protection system installed in the SAFT battery storage containers against the Australian Standards requirement. They participated in a risk assessment workshop to discuss the risks associated to the shortfall non-compliance, and to provide recommendations to the client. Recommendations and workshop shortfall discussions led to client cost savings of approx. \$30,000 after the existing fire protection system undergoes a minor upgrade to achieve compliance.



Project: Ryman Retirement Village
Location: Highett VIC
Client: Ryman Healthcare
Services: Fire Engineering

Detail: The retirement village development comprises of four multi-storey buildings, with an overall floor area of 28,904 m². Omnii were engaged to provide fire engineering services regarding the proposed installation of Electric Vehicles and Charging Stations in the car park area at Basement Level.



Project: 720
Location: Melbourne VIC
Client: JLL
Services: Fire Engineering & Fire Protection Services

Detail: Omnii were engaged as part of proposed electric vehicle charging station installation works within the car park of the building. Omnii conducted a technical review of the available data for Electric Vehicle and Charging Station fires, assessed and compared the fire hazard with respect to Internal Combustion Engine fires, and recommended risk mitigation measures.



Brisbane
Gold Coast
Melbourne
Sydney

omnii.com.au

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