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JET CHARGE

Bringing EV Charging to Brownfields

Client Department for Energy and Mining South Australia

Project Infrastructure Upgrade for Department for Energy and Mining, SA

Project summary

The Department for Energy and Mining South Australia (DEM) engaged JET Charge to scope AC chargers at their office in Adelaide's CBD.

The remit of the project broadened when it became apparent that more of the building's tenants were interested in installing EV chargers. This required the involvement of the building owners, who JET Charge engaged and educated on the benefits of a site-wide electrical upgrade.

JET Charge then designed and installed a new backbone to the common electrical services, utilising JET Charge CORE to optimise energy performance and balance charging sessions. A holistic building-wide approach was taken to ensure the site could be scaled-up for further chargers in the future.

Here's how we did it

Client

The South Australian Government is investing \$41 million to help accelerate EV uptake to realise their ambition of net zero carbon emissions by 2050. They aspire to full electrification of the government's passenger vehicle fleet by 2030 or earlier.

Challenges

Broadening project scope: other tenants expressed interest in installing AC EV chargers to support fleet operations, requiring a robust and scalable solution.

Energy management: required a future-proof solution that was scalable and protected the building's energy supply limits.

Meet the building owner's needs: the solution needed to maintain the electrical integrity of the building, ensure cyber security, include a process of reimbursement for charging sessions, and establish a clear process for future tenants wishing to install EV chargers.



Solution and implementation

JET Charge provided concept design outlines and, over a 12-month period, educated the owner and their advisors by addressing each concern with a workable solution.

An "EV Zone" was created for the building, allowing the property manager to re-allocate car bays into the one EV-ready space as requested. With only 100 amps available at the site, JET Charge CORE was utilised to optimise energy performance and balance EV charging sessions. Our dynamic, tech-agnostic management system has ensured future charging capabilities for up to 25 EV chargers, all while staying safely within the available power supply and protecting the electrical assets of the building.

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Outcome

The 11 Waymouth St EV Zone is an example of a scalable solution that engages innovative technology to manage power and optimise site energy use. JET Charge CORE seamlessly integrates EV charging into pre-existing sites, future-proofing amenities for multiple tenants wishing to transition to EV's.

The technical stuff

- 6 x JET Charge Charge Mate 7kW Chargers with NMI pattern-approved metres
- JET Charge Core Energy Management System with Schneider Electric Powerlogic metres
- 2 x custom-made pedestal and 2 x wall-mounted

