

The Challenge

Alpine Energy was tasked with building a high-capacity EV charging station using only 80 amps of 3-phase power—far below what’s typically needed for rapid EV charging. The project required a smart, self-managed energy system that could deliver fast charging without overloading the grid.

The Solution

To overcome the limited power supply, Alpine Energy integrated 100kWh of Arvio’s Titan 6.2k series long-life batteries, configured to deliver 800V for efficient charging. The energy storage system powers one Fast AC (Type 2) and two highcapacity DC- to-DC chargers (Type 3), capable of ultra-fast EV charging—even from a limited grid connection

Solution Delivered

- Rapid EV charging capability
- Payment methods include NAYAX Tap & Go and Get Electric payment app
- Arvio EIOS platform for automated battery and energy management

Seamless 24/7 and operation of battery, EV chargers, site, weather monitoring through the combined Battery Management System and Energy Management

The Result

The site now delivers reliable, fast EV charging despite constrained grid access. EIOS software enables the system to run fully autonomously, optimising energy flow, managing battery health, and supporting real-time remote monitoring. capabilities, Alpine Energy is now positioned to scale its infrastructure—connecting future stations into a single intelligent network.

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Location

Oxley Roadhouse Petrol Station
Northeast Victoria

Date

April 2025

Project

100kWh Grid-Connected EV Charging Station

