

Case Study

Tesla's Virtual Power Plant (VPP)

Project Details**Client name**
Tesla**Location**
Regional and Metropolitan South Australia**Contract Type**
Design & Construct**Contract value**
Approximately \$4.5 million**Key Personnel**
Project Manager - Rod Kiddy
Site Supervisors- Gary Treloar and Andrew Parson
Project Support Officer - Elwira Szynal

“Tesla’s plan will see 50,000+ homes have solar PV and a Powerwall battery system installed, creating the worlds largest Virtual Power Plant

The Customer

To create a sustainable energy ecosystem, along with vehicles, Tesla also manufactures a unique set of energy solutions, Powerwall, Powerpack and Solar Roof products; enabling homeowners, businesses, and utilities to manage renewable energy generation, storage, and consumption.

The Opportunity

Tesla with support from the South Australian Government is developing a network of potentially 50,000 home solar PV and Powerwall battery systems across both regional and metropolitan South Australia - all working together to form the world’s largest Virtual Power Plant (VPP).

The VPP connects the network of solar-battery powered homes - providing green backup power day and night, even backup during a grid outage. Therefore creating higher energy security and grid reliability for the entire community.

Tesla required a delivery partner that is able to mobilise quickly with experience in delivering multi-site programs of work.

The Solution

Beginning with trial phases involving 1,100 SA Housing Trust properties, home energy systems comprising of a 5kW solar PV system, 5kW/13.5kWh Tesla Powerwall home battery were installed at qualifying households across South Australia.

Enerven has been involved in the coordination and installation of 560 of the initial solar and storage systems across both regional and metropolitan South Australia as part of the VPP. This means we have installed 560 Powerwalls, 560 Gateways, 500 5kW Fronius Inverters, 60 SMA and SolarEdge Inverters and just over 2.5MW of solar PV, which is the equivalent of almost 9,000 JA Solar 315watt PV modules.





Key Capabilities

This project highlights Enerven's ability to deliver projects quickly, to a high standard and safely through established procurement processes, professional project management, competent engineering, and our ability to collaborate with our customers and contractors to deliver their project efficiently.

Why Enerven?

Our experience in the market place, combined with expertise and industry knowledge, makes Enerven attractive to industry leaders such as Oz Minerals, ElectraNet, Tesla, SA Water, AGL and BHP Billiton for their energy infrastructure needs.

Enerven invest heavily in the latest technology and the professional development of our staff, which means we combine experience and history with innovation and technology to deliver solutions that address the evolving energy distribution requirements of the community.

With a strong supplier and partner network behind us, our highly skilled staff work closely with you to fully understand your specific needs and vision, and will tailor a solution to suit.

Delivering the highest standard of work in a safe and environmentally sustainable manner is our top priority, and we have an outstanding track record to prove it. We focus on building long-term relationships with our clients, we're committed to working with you for the lifecycle of your project and beyond.

Who We Are

Enerven, an SA Power Networks Company, provides a range of construction and maintenance services to clients both within SA and nationally. We believe innovations and technology will continue to drive efficiencies, but no more so than the experience, knowledge and capabilities of our people.

Contact Us

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