

 Case StudySubstation Unit
Asset Replacement
Program Project Details

Client name
ElectraNet

Order date
April 2016

Delivery date
August 2019

Contract Type
Construct

Contract value
\$22.4 million

Key Personnel
Project Manager - Garen
Derharoutian
Construction Manager(s) -
Jason Semmler
Ralph Ciccarello

“ElectraNet had a requirement to replace various HV assets at approximately twenty of their substation sites.

The Customer

ElectraNet delivers safe, affordable and reliable solutions to power South Australian homes and businesses. Their transmission network is a crucial part of the electricity supply chain and is used to safely deliver electricity throughout South Australia including regional and remote areas. ElectraNet specialise in asset and project management and their clients include SA Power Networks, Enerven and large directly connected clients.

The Opportunity

The 2013-18 Regulatory Control Period (RCP) identified unit asset replacements of nominated assets, located at twenty of ElectraNet's substations across South Australia.

These assets are predominantly ones known to have a high failure history and represent a safety risk, are unreliable or are at the end of their effective technical lives, as the cost of maintenance outweighs the replacement value of the asset.

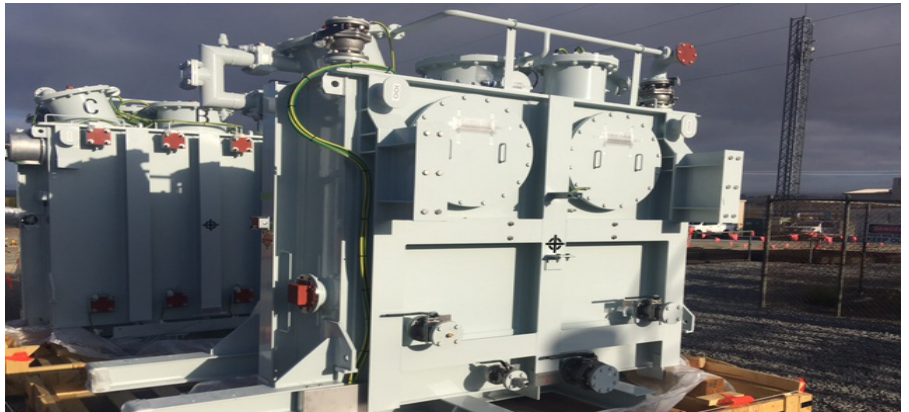
The Solution

This project was a demanding program of work as it was across brownfield substation sites, which can be challenging, as there are often unforeseen issues that can arise on brownfield sites.

The project involved a number of skills for the broad range of maintenance tasks that were required as part of the program. This included, procurement, outage management, development of switching sheets, and temporary protection and control, SCADA and telecommunications, substation construction, and substation commissioning.

The project included replacement of substation primary plant components; primarily, 132kV and 275kV, which included: CT's, CVT's, CB's, power cabling, control cabling, bus bar supports, as well as control and protection systems, including, relays, SCADA, and telecommunication networks. This required significant outage management to coordinate the works across the twenty sites.





Key Capabilities

This project highlights Enerven’s ability to deliver quality design & construction projects, our project management and procurement skills, and our ability to collaborate with our customers to deliver their projects.

The Enerven team had to leverage their strong project management skills to manage multiple outages and management of the contracting partners working in a live substation environment.

Why Enerven?

Our experience in the market place, combined with the expertise and industry knowledge of our team, makes Enerven’s offering second to none which is why industry leaders such as Oz Minerals, Lendlease, AGL and BHP Billiton trust Enerven with their energy infrastructure assets.

We invest heavily in the best equipment 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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