

Case Study Playford A Relocation

Project Details

Client name
ElectraNet

Order date
September 2008

Delivery date
December 2010

Contract Type
Design & Construct

Contract value
\$43 million

“In 2010, the 132kV Switchyard at Playford A was relocated to the Davenport Substation, consolidating infrastructure at the Davenport site

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, contract management and their clients include SA Power Networks, Enerven and large directly connected clients.

The Opportunity

In 2010, the 132kV Switchyard at Playford A was relocated to the Davenport Substation, fulfilling the purpose for which the Davenport Substation was developed - to allow for the eventual relocation of the Switchyard at Playford A, consolidating electricity infrastructure at the Davenport site. This also allowed for the retirement of the aged plant and equipment at Playford A.

There were three stages to this project, stage one involving substation design, supply, construction and commissioning. Stage two included transmission line design, supply, construction and commissioning and stage 3 included the communications design, supply, construction and commissioning.

The Solution

Works included increasing the transformer capacity, which converted Davenport into a new electricity hub with enhanced reliability for both the Eyre Peninsula and the Upper North of South Australia.

The project scope included:

- Construction of 160MVA transformer bays with associated 275kV plant
- Construction of a new 132kV yard bench, which required in excess of 50,000 m³ bulk earthworks
- South East Substation - installation of an Operations Wide Area Network (OPSWAN) on connection of the Optical Ground Wire (OPGW).
- Design, supply, installation and commissioning of the required 132kV plant at Davenport & Playford substations
- Procurement, design, installation and commissioning of new protection and control systems, radio and fibre links between substations
- On site refurbishment of 1 x 160MVA transformer





Key Capabilities

This project highlights Enerven's ability to deliver quality design & construction projects through established procurement processes, professional project management, competent engineering, and our ability to collaborate with our customers and contractors to deliver custom solutions.

Why Enerven?

Our experience in the market place, combined with expertise and industry knowledge, makes Enerven attractive to industry leaders such as Oz Minerals, Lendlease, 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, included HV transmission line construction, 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.

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