

Case Study

Lincoln Gap Wind Farm Connection

Project Details

Client name
ElectraNet

Start date
October 2017

Completion date
December 2019

Contract model
Design & Construct

Key personnel
Project Manager - Jim Eliades
Design Leadership - Navin Rampersadh
Construction Manager - Ralph Ciccarello
Safety Lead - Darren Slape

The Lincoln Gap Wind Farm project will deliver 212MW of renewable energy, which is enough to power 155,000 home for more than twenty-five years.

Enerven is proud to be delivering the infrastructure required for this project.

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

Capitalising on Northern South Australia's extensive wind resources, Nexif Energy Australia Pty Ltd achieved financial close for development of the Lincoln Gap Wind Farm in November 2017. With the wind farm comprising 59 Senvion wind turbines and a 10MW grid-scale battery, the project will delivery 212MW of renewable energy. This is enough to power around 155,000 homes for more than 25 years, making a significant contribution to Australia's renewable energy target.

Enerven is proud to be delivering the infrastructure required for this project to connect to the grid and deliver clean, green energy for years to come.

The Solution

Enerven was engaged to deliver the connecting infrastructure for the Lincoln Gap Wind Farm, including the new Corraberra Hill Substation, along with

cut-in modifications to the existing transmission line and the necessary remote end modifications to the Davenport and Cultana substations.

The proposed Corraberra Hill substation is to be located approximately 28 km south west of Pt Augusta, South Australia, providing a connection point into ElectraNet's transmission network for the Lincoln Gap wind farm with a cut-in to the existing Davenport to Cultana 275 kV line (F1935).

The substation consists of a three circuit breaker mesh, designed so as to be expandable to an ultimate layout of three fully populated circuit-breaker-and-a-half diameters. It will connect into ElectraNet's telecommunications network via independent OPGW paths to Cultana Substation and Davenport substation.

The scope of works includes substation civil, structural, primary plant, secondary systems, telecommunication works, OPGW installation and 275 kV transmission line terminal tower works.

Key capabilities

This project showcases Enerven's capability to deliver complex electrical infrastructure projects to support connection of large-scale renewable energy projects.

Enerven brings a unparalleled understanding of the infrastructure in the region to ensure safe and efficient commissioning of the project.





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, 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 provides construction and maintenance services to clients both within South Australia and nationally, with specific expertise in high voltage infrastructure, and solar and storage infrastructure. We believe innovation and technology will continue to drive efficiencies, but no more so than the experience, knowledge and capabilities of our people.

Contact Us

1 Station Place,
Hindmarsh SA 5007

1300 334 523

enquiries@enerven.com.au
www.enerven.com.au

Enerven is a wholly owned subsidiary of SA Power Networks operating independently and is the business name used by Enerven Energy Infrastructure Pty Ltd (ABN 31 621 124 909)

Enerven is accredited to AS/NZS ISO 14001 and is compliant to all regulatory requirements. We maintain full compliance with Australian Standard AS/NZ 4801 and have achieved the internationally recognised ISO18001 accreditation.