

Canunda Wind Farm



Location	Tantanoola, South Australia
Client	Vestas - Australian Wind Technology Pty Limited
Contract	Design and Construction
Total Cost	\$11m
Duration	April 2004 - February 2005



This wind farm is adjacent to the Lake Bonney Stage 1 Wind Farm also undertaken by Leighton Contractors. The developer, owner and operator of the wind farm is Canunda Power Pty Ltd, a subsidiary of International Power plc and Wind Prospect Pty Ltd. Power from the project is sold under a long-term contract to AGL.

The wind farm comprises 23 Vestas V80 wind turbine generators, each capable of generating 2 MW of power, giving the wind farm a total capacity of 46 MW. Electricity generated from the wind farm is delivered to the South Australian electricity grid via the Snuggery substation, which is located close to the site.

Leighton was responsible for the design and construction of the civil works and electrical works for the project. These works included:

- geotechnical survey, investigation and verification;
- design and construction of the 23 turbine tower foundations, each containing approximately 300 m³ of reinforced concrete;
- route selection, design and construction of 11 km of access roads and hardstand areas;
- route selection, design and construction of 14 km of cable trenches, switchroom, earthing grid, SCADA and lightning protection systems for the 33 kV electrical collection system;
- construction of the 415V and 240V supply systems to the facility;
- design and construction of two meteorological monitoring equipment masts;
- construction of a prefabricated control room building.