



CERES PROJECT

Clean Energy from Yorke Peninsula

Ceres Project Fact Sheet

June 2018

The Ceres Project wind farm will be one of the largest renewable energy projects in Australia and it will be the first to connect a capital city to wind power via an undersea cable.

The \$1.5 billion 600 MW project is being developed by Senvion (formerly REpower Australia) on South Australia's Yorke Peninsula.

With no overhead power lines, the Ceres Project will bring clean power to 225,000 homes via a High Voltage Direct Current (HVDC) connection under the Gulf of St Vincent directly into Adelaide's power grid.

Underpinning the development of the Ceres Project is a commitment to minimise the impact of the wind farm, while maximising opportunities for the local community and for South Australia to benefit.

Specifically, Senvion has adopted the following three key project design commitments:

1. The wind farm has been designed with setbacks of 1,300 metres from non-involved landowners and will be the lowest density wind farm in Australia, with 600 metre spacing between turbines. The setbacks are greater than those required through the planning framework.
2. No overhead power lines will be used throughout the wind farm and the direct connection to Adelaide -- avoiding around 180 towers traversing over 100 kilometres and minimising the impact on a range of environmental matters and the use of agricultural aviation practices.
3. A philosophy of 'prudent avoidance' has been adopted to inform design decisions so that potential issues are addressed upfront.



The Ceres Project Development Approval

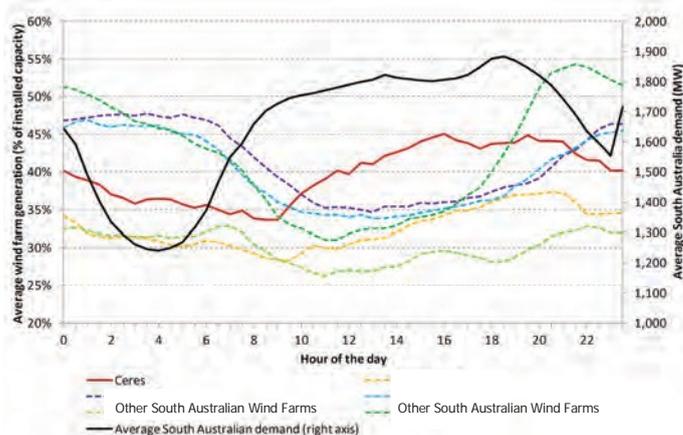
In February 2014 John Rau, the then Minister for Planning, approved the Ceres Project's Development Application under section 49 of the *Development Act 1993* with 54 conditions.

In August 2017, a minor amendment to the original DA was granted to ensure the project would benefit from the evolution of available technology from Senvion.

The minor amendment improves the overall project with more energy to be generated at a lower cost, while using 10 less turbines than originally planned - reducing the number of turbines from 197 to 187.

The approved Ceres Project includes:

- 187 wind turbines spread over four project zones, covering an area of approximately 180 square kilometres. Each turbine is 3.4 MW in capacity and will have a maximum ground to blade tip height of 163 metres;
- Access roads and other associated infrastructure to support the wind farm, including access tracks and all electrical connections via underground cables;
- HVDC cable connections (two 300 MW capacity cables) to Adelaide across Gulf St Vincent, including approximately 60 kilometres of marine cable and 14 kilometres of terrestrial cable, linking the wind farm to the Adelaide power grid;
- Converter stations and operations buildings - one located on the western side near Port Julia and the other located at Parafield Gardens West;
- Thirty-five participating landowners - which is among the highest levels of landowner participation in Australia.



The Ceres Project output is well matched to the South Australian demand

Ceres Project Benefits

Ceres is a well-designed wind farm that will deliver a range of local, state and national benefits, including:

Local and regional benefits

- Up to 500 direct jobs during peak construction and 50 ongoing jobs;
- A \$150,000 a year Community Benefit Fund to support community programs for the 25-year life of the project;
- A \$50,000 per annum fire-fighting fund, every year for 25-years, targeted toward the local community to purchase fire-fighting equipment;
- Direct income of over \$3 million a year through annual lease payments to host landowners;
- A road maintenance program that will ensure roads are maintained and upgraded to be all-weather and fit for purpose for the life of the project.

State and national benefits

- Downward pressure on South Australian electricity prices;
- Contribution to energy security - the wind farm will generate enough electricity to power up to 225,000 homes every year;
- Up to 2.5 million tonnes of global warming pollution (CO₂) will be avoided each year;
- Up to 2,600 million litres of clean water saved by not using coal-fired sources of power;
- A 'network friendly' connection to the South Australian power system will provide power quality and system stability;
- An efficient, direct and secure High Voltage Direct Current (HVDC) connection into Adelaide makes this project the first of its kind in Australia.

Business and Employment Opportunities

To register your interest in future employment and business opportunities, please visit the project website:

www.theceresproject.com.au/register_here