

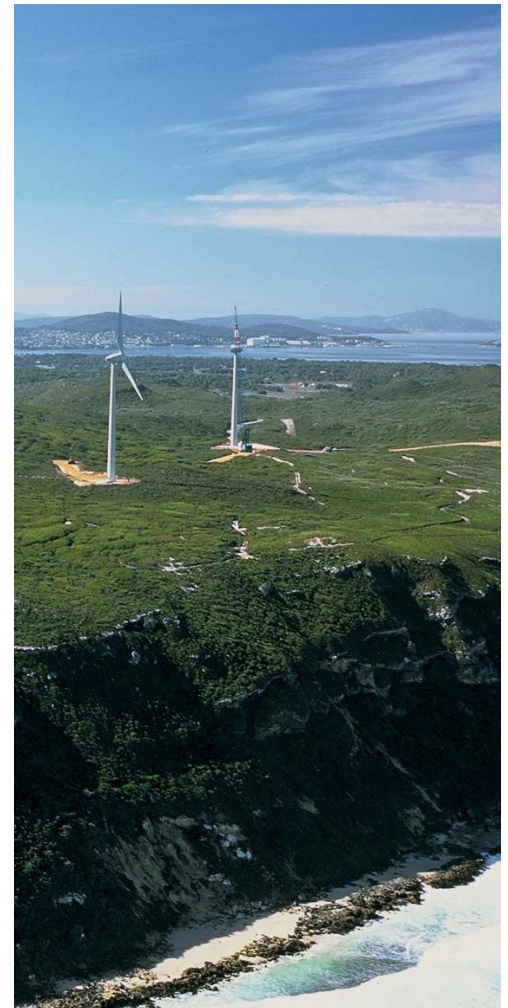


# A BREATH OF GREEN AIR

Verve Energy's wind farm in Albany, Western Australia, is one of the largest wind farms in the southern hemisphere.

Its twelve 1800 kilowatt wind turbines produce on average 65,000 megawatt hours of GreenPower electricity per annum, which is enough to power over 10,000 homes and provide over 50 per cent of the city of Albany's electricity needs.\*

The renewable energy supplied by the Albany wind farm cuts Australia's greenhouse gas emissions by 65,000 tonnes per annum, equivalent to taking nearly 15,000 cars from our roads for one year.



An ariel view of Verve Energy's wind farm

## Location, Location, Location

According to Verve's Manager for Sustainable Energy Business Development, Adrian Chegwiddden, the wind farm site, 12km from Albany's centre, provides an ideal location to generate wind power.

"Its elevated position about 80 metres above the Southern Ocean coupled with its proximity to the coastline and short distance to the main electricity transmission system makes it an exceptional wind farm site," he said.

## Local hero

The location of the farm and the type of turbine and generating technology it uses means that the power produced is fed directly into Albany's power supply and sold through the retailer Synergy.

As Albany is connected to the main electricity grid, the wind farm can also export a small amount of surplus power further north along the transmission network.

## How it works

### 01

Wind powers the turbines which is converted to electricity

#### Wind turbine specifications:

Three bladed turbine tower height 65m, turbine rotor diameter, 70m (blade length 35m). Turbines are designed to withstand the strongest winds and have lightning protection. Turbine blades are adjusted to maximise power output from any wind direction or strength.

### 02

Add clean renewable electricity is fed into the grid-connected substation serving Albany households

