



[www.collgarwindfarm.com.au](http://www.collgarwindfarm.com.au)

## Who are we?

Collgar Wind Farm (Collgar) consists of 111 wind turbines located 25km south east of Merredin in Western Australia.

Collgar is wholly owned by the Retail Employees Superannuation Trust (Rest). Open to all Australians, it is Australia's largest superannuation fund by membership, with over 1.8 million members and more than \$66 billion of funds under management.

The aim of the project was to develop an environmentally and economically sound wind farm that provides renewable energy to be used locally, and exported to WA's South West Interconnected System (SWIS).

The project location was selected for its unique topography, world class wind resource, favourable community rapport and proximity to the power grid.

## What do we do?

Collgar generates and delivers clean, renewable electricity into the SWIS each year, thereby making a major contribution to Western Australia's greenhouse gas reductions.

Wind Power provides a natural, renewable source of energy and is playing an increasing role in reducing global greenhouse gas emissions. In fact, wind energy has become the world's fastest growing energy source with currently more than 10,000MW of capacity being installed globally every year.



### **What are the environmental benefits?**

As a leading-edge wind farm, Collgar provides a significant amount of clean energy for Western Australia, which has a number of environmental benefits.

- Generates approximately 630GWh to 750GWh of renewable electricity per year
- Displaces approximately 700,000 tonnes of carbon dioxide per year, equivalent to taking approximately 160,000 cars off the road each year, with the equivalent carbon reduction of planting 1 million trees.
- Supply enough energy to power approximately 150,000 average Western Australian households per year.

### **What are the community benefits?**

Collgar produces major economic benefits for Merredin and its surrounding regions. During the construction phase, Collgar employed up to 150 people over a period of two years, which had a large spin-off for local services.

Collgar provides ongoing employment for a team of 10-20 locally based staff.

The ongoing financial boost during the life of the project is seen through land rent payments and the funding and sponsorship of community projects through the Collgar Community Fund.

<https://www.collgarwindfarm.com.au/communities/community-fund/>



# Collgar Wind Farm Facts

## Project Size

222 megawatts

## Number of turbines

111 turbines

## Turbine type

Vestas V90 2.0MW turbines

## Operation commenced

October 2011

## Annual Average Energy Production

630GWh to 750GWh producing enough electricity to power up to 150,000 homes

## Tonnes of CO2 emissions saved

Up to 555,000 per annum, equivalent to taking up to 150,000 cars off the road every year

## Expected operating life

30 years

## Contractor

Vestas Australian Wind Technology Pty Ltd

## Size of farm

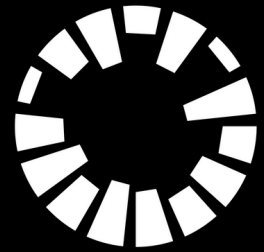
The site is located on 18,000 hectares of land located 25km south east of Merredin in Western Australia

## Cost of Project

The wind farm is a \$750 million project

## Turbine Measurements

- Tower height: 80m
- Blade length: 44m
- Blade height to tip: 125m
- Blade weight: 6,700kg
- Nacelle weight: 70 metric tonnes



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