

A photograph of a wind farm at sunset. The sky is filled with vibrant, colorful clouds in shades of orange, red, and pink, transitioning into a deep blue at the top. The silhouettes of several wind turbines are visible against the horizon. The foreground is dark, suggesting a field or grassland.

PROJECT/

COLLECTOR WIND FARM

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Project Name

COLLECTOR WIND FARM

Date

2020

Location

NSW SOUTHERN TABLELANDS

Client

COLLECTOR WIND FARM

Website

COLLECTORWINDFARM.COM.AU

ABOUT THE CLIENT

Collector Wind Farm has 226.8MW capacity. It will potentially save approximately 320,000 tonnes of CO2 emissions per year

The Collector Wind Farm, with the potential to power some 80,000 homes, is one of three assets included in a new clean energy financing framework for RATCH-Australia Corporation.



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Collector Wind Farm is the largest wind farm that RATCH-Australia has built in Australia. The wind farm's 54 turbines produce 528GWh each year which is enough to power 80,000 average NSW homes.

COLLECTOR WIND FARM

54

Wind Turbines

528 GWh

Energy Annually

9.3m tCO₂-e

Lifetime Abatement

RELATIONSHIP

Engaged by Vestas:

Vestas

Vestas is the energy industry's global partner on sustainable energy solutions. They design and manufacture wind turbines across the globe, and with +160 GW of wind turbines in 88 countries, they have installed more wind power than anyone else.

Vestas' sustainable energy solutions have already prevented 1.5 billion tonnes³ of CO₂ being emitted into the atmosphere and contributed to a more sustainable energy system across the globe.

THE SOLUTION

The Collector Wind Farm saw the installation of 54 x Vestas V117 4.2Mw Wind Turbines. SBL Solutions held the Mechanical and Electrical Installation Contract and performed this work over a period of approximately 9 months during 2020. The project was described as very successful across all scopes of works amidst the challenges of COVID restrictions.

Successful completion of the project has resulted in the production of 226.8MW of clean energy which will potentially save 320,000 tonnes of CO2 emissions per year and power approximately 80,000 homes annually.

OPERATIONS

COLLECTOR WIND FARM

COLLECTOR WIND FARM IS NOW FULLY OPERATIONAL AND IS OPERATING AT FULL GENERATION.

RATCH-Australia is responsible for managing the overall performance of the wind farm. The day-to-day operations and management (O&M) is being undertaken by Vestas, who supplied and installed the 4.2MW turbines. The wind farm is forecast to generate around 528GWh per year on average. This is equivalent to powering roughly 80,000 NSW households based on the annual average electricity usage.

In order to maintain and operate the wind farm effectively, a number of programs and plans have been developed to protect the environment and reduce our impact on the community.

TIMELINE

Wind turbine component
deliveries commence

March 2020



Cranes mobilised

March 2020

Wind turbine erection
commences

April 2020

Wind turbine energisation

November 2020

Wind farm commissioning
commences

February 2021

Commercial operation

June 2021

LOCATION

The Collector Wind Farm is located on the Cullerin Range between the Hume Highway and the Collector-Gunning Road in the NSW Southern Tablelands.

This location was chosen because it is in one of the windiest regions in NSW (within one of six renewable energy precincts identified by the NSW Government).

There is a strong grid connection point to export the clean power generated.

The village of Collector is approximately 4km south-east from the nearest of the turbines.

The whole project site covers around 6,200 hectares, of which only around 75-100ha was disturbed during construction.



IMPACT

Australia requires a substantial uplift in renewable energy generation and storage to support its transition to a low emissions economy. AEMO has forecast that annual demand for grid electricity will double by 2050 and that investment in large-scale renewables will need to increase ninefold to help meet that requirement.

While the Australian wind sector is considered mature, further investment faces emerging barriers including supply chain constraints, increased interest rates and escalating raw materials and transportation costs.



COLLECTOR WIND FARM

GENERATION POTENTIAL

The Collector Wind Farm is located along the Cullerin Ridge, south-west of Goulburn in the Southern Tablelands, which has some of the windiest conditions in NSW.

With 54 wind turbines, the project is expected to generate 528 GWh of energy annually, which is enough to meet the needs of some 80,000 average homes. It has the potential to abate some 9.3 million tCO₂-e over its lifetime.

Vestas uses innovative drone and 3D imaging technology to deliver routine blade maintenance and data collection for the wind farm.

The wind farm opened in November 2022, having reached full generation in February 2021 as one of the first in Australia to use the 4.2 MW V117 Vestas turbines.

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PROJECTS

COLLECTOR WIND FARM



“THIS NEW WIND FARM IS AN IMPORTANT STEP IN AUSTRALIA’S JOURNEY TO DECARBONISATION AND WE ARE VERY PROUD TO BE ABLE TO PRODUCE CLEAN, CHEAP ENERGY FOR THE MARKET.”

Palagorn Kheosiplard
CEO, RATCH-Australia



WHO WE ARE

OUR PEOPLE

At SBL Solutions Services we invest in all our people by setting them on a path that allows them to grow and succeed.

Our people are encouraged to speak up and seek any type of assistance needed. This attitude of seeking help and assistance is linked to our strong and positive safety culture across our company.

VISION, MISSION & VALUES

VISION

Our vision is to provide the highest standard of service in the industry, with an emphasis on safety and quality.

MISSION

To assist the onshore and offshore wind industry as one of the main sources of renewable energy by delivering more efficient and sustainable wind energy solutions.

VALUES

- Continual improvement
- Reliability
- Authenticity
- Communication
- Accountability



Contact our team for project-related questions or enquiries.

THE FUTURE OF WIND TURBINE AND RENEWABLE ENERGY