

MACINTYRE WIND FARM FACT SHEET

AUGUST 2019

PROJECT FACTS

Location: The MacIntyre Wind Farm is approximately 50 kms south-west of Warwick and 10 kms south of Karara in Queensland.

Number of turbines: Up to 120

Maximum Tip Height: Up to 285m

Anticipated Construction Commencement: Late 2020

Anticipated Construction Duration: 18 - 24 months

Expected Operating Life: 30+ years



ABOUT ACCIONA

ACCIONA has been operating in Australia since 2002, with offices in Melbourne, Sydney, Brisbane, Adelaide and Perth. ACCIONA Australia's structure comprises separate Infrastructure and Energy business lines, overseen by an Advisory Board. Australia offers a variety of services across the energy, infrastructure, water and industrial sectors and is continually looking at ways we can exceed client expectations and provide innovative solutions to complex problems.

The Energy Division of ACCIONA is a major player in the renewable energy market, with a strong presence in over 30 countries on five continents. The company works exclusively with renewable technologies, including— wind, solar PV, solar thermal, hydro and biomass. Based on its experience of over 20 years in the field of renewable energy, the company provides reliable and efficient solutions based on cutting edge technologies.

PROJECT OVERVIEW

- The MacIntyre Wind Farm is proposed to be located within 40,000 hectares of leased land approximately 200 kms south-west of Brisbane and 50 kms south-west of Warwick in Queensland. The wind farm will be constructed on land predominately used for sheep farming and currently involves 14 landowners. The site is exposed to consistent winds across this part of the country and provides a suitable resource for the development of a wind farm.
- The 540 MW project is anticipated to contain up to 120 wind turbines generators (WTG) with ancillary infrastructure, including an on-site substation, an overhead transmission line and the potential for energy storage.
- A new 55 km high voltage overhead transmission line will be built which is required to connect to the Powerlink network near Millmerran.
- The project is expected to require a construction workforce of up to 350 people, and an operational workforce of up to 12 personnel. The project will generate significant economic activity across the Goondiwindi, Southern Downs and Toowoomba Regional Council Areas.
- ACCIONA will submit a development application seeking a development permit for a Material Change of Use (MCU) to allow construction and operation of the Wind Farm to the State Assessment and Referral Agency (SARA) in late 2019.

COMMUNITY BENEFITS

ACCIONA is committed to maximising the benefits to the local and regional community. Project benefits include:

- Significant economic activity across the Goondiwindi, Southern Downs and Toowoomba Regional Council Areas.
- Up to 350 jobs during construction and up to 12 fulltime roles once the wind farm becomes operational.
- A substantial contribution to the Southern Downs and Goondiwindi Regional Council's through the payment of rates.
- Providing a diversified income for wind farm host landowners.
- Employment and procurement opportunities for local residents and businesses.
- Establishment of a community enhancement program which will assist community organisations, community groups and local schools with financial grants to support community events, projects and activities.
- A Scholarship Program open to local students to provide support to further their education at University or TAFE.

Flagship Projects



▲ Gunning Wind Farm, VIC



▲ Waubra Wind Farm, VIC



▲ Mt Gellibrand Wind Farm, VIC



▲ Cathedral Rocks Wind Farm, SA



▲ Mortlake South Wind Farm, VIC
(under construction)

WIND FARM CONSTRUCTION

The project will involve the following stages:

Wind Farm Construction Process: The construction process is likely to take between 18 – 24 months; the actual period will be dependent upon weather conditions and the final project size.

Building Access Roads: Each wind farm site starts with building access roads for the transportation of equipment and the connection routes between the turbines. Following construction, the access roads are used for ongoing maintenance activities.

Preparing Foundations: Concrete foundations are built to safely secure the wind turbines. Foundations consist of concrete, reinforced steel and bolts. Each foundation will be approximately 20 metres in diameter and approximately 3 metres in depth.

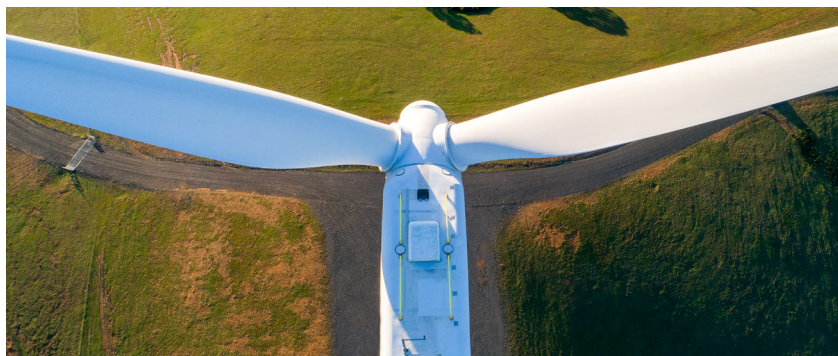
Assembling the Towers: Wind Turbines are composed of a tower, a 3-blade rotor and a nacelle (which houses the gears, generators and electrical conversion equipment). Once the foundation is built, the towers will be erected in sections by a large crane and bolted into position. The nacelle is then lifted and fixed to the tower. The hub and blades are then individually attached.

Connecting the Turbines: An underground electrical collection system will be installed to connect each wind turbine to an onsite substation. An overhead transmission line will connect the on-site substation to the Powerlink Transmission network.

Operations and Maintenance Building: An Operations and Maintenance building will be constructed as a base to monitor performance on site and store spare parts for ongoing maintenance.

Commissioning and Operation: Once all the turbines are fully operational, the construction phase is deemed complete and commissioned and the wind farm will then enter the operational and maintenance phase.

Decommissioning: If it is determined that ongoing operation is not beneficial, a decision will be made to decommission the wind farm. If decommissioning is required, the turbines and towers will be removed and recycled. ACCIONA will be responsible for decommissioning the wind farm.



CONTACT US

For more information, please contact us via our free call community information hotline 1800 283 550; or by Email: macintyre@acciona.com.

You can also visit our website at: <http://www.acciona.com.au/projects/energy>