

MacIntyre Wind Farm

ACCIONA is a global leader in sustainable solutions for clean energy, water and transport infrastructure projects.

- **Location:** Approximately 50 kms south-west of Warwick and 10 kms south of Karara in Queensland.
- **Project Configuration:** 180 x 5.7MW turbines
- **Capacity:** 1,026 MW
- **Tip Height:** 285m
- **Anticipated Construction Commencement:** Mid 2022
- **Anticipated Construction Duration:** 18 - 24 months
- **Expected Operating Life:** 30+ years



LEADERS IN RENEWABLE ENERGY

With over 30 years of experience in the field of renewable energy, ACCIONA Energía provides reliable and efficient solutions leveraging cutting-edge technologies. In Australia, ACCIONA Energía develops, constructs, owns and operates wind farms and locally we have delivered four wind farms and a 20 MW solar farm. Through the projects the company owns, ACCIONA Energía currently generates enough clean energy to power 280,000 households. Construction of ACCIONA Energía's fifth wind farm is almost complete and building of our sixth wind farm will commence in 2022, which will be our biggest project yet, a 1,026 MW wind farm in Queensland.

The company works exclusively with renewable technologies, specifically across wind, solar PV, solar thermal, hydro and biomass. ACCIONA Energía has 11 GW capacity in operation and under construction globally and has nearly installed 2,000MW for third parties.

PROJECT OVERVIEW

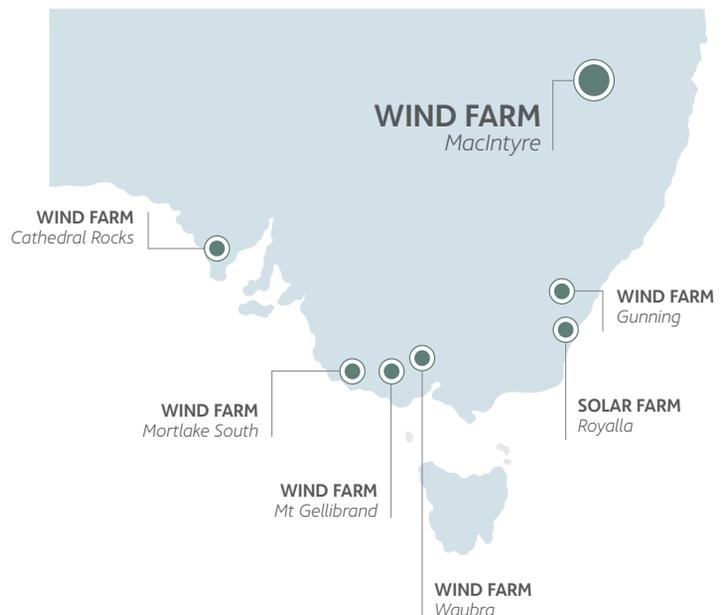
The wind farm will be constructed on land predominately used for sheep farming and currently involves 14 landowners. The site is exposed to consistent winds across this part of the country and provides a suitable resource for the development of a wind farm. The 540 MW project is anticipated to contain 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 64 km high voltage overhead transmission line will be built which is required to connect to the Powerlink network near Millmerran.

ACCIONA Energía has been granted a development approval by Queensland's State Assessment and Referral Agency (SARA) to build the project.

**Presence in more
than 60 countries**

**Over 100 years
of experience**

ENERGY



FLAGSHIP PROJECTS

EXPERTS IN DESIGNING A BETTER PLANET

COMMUNITY BENEFITS

- 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.

WIND FARM CONSTRUCTION

The construction process is likely to take between 12 – 24 months; the actual period will be dependent upon weather conditions and the final project size.

- **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 Energía 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.



Gunning Wind Farm



Mt Gellibrand Wind Farm



Cathedral Rocks Wind Farm



Waubra Wind Farm



Mortlake South Wind Farm (under construction)