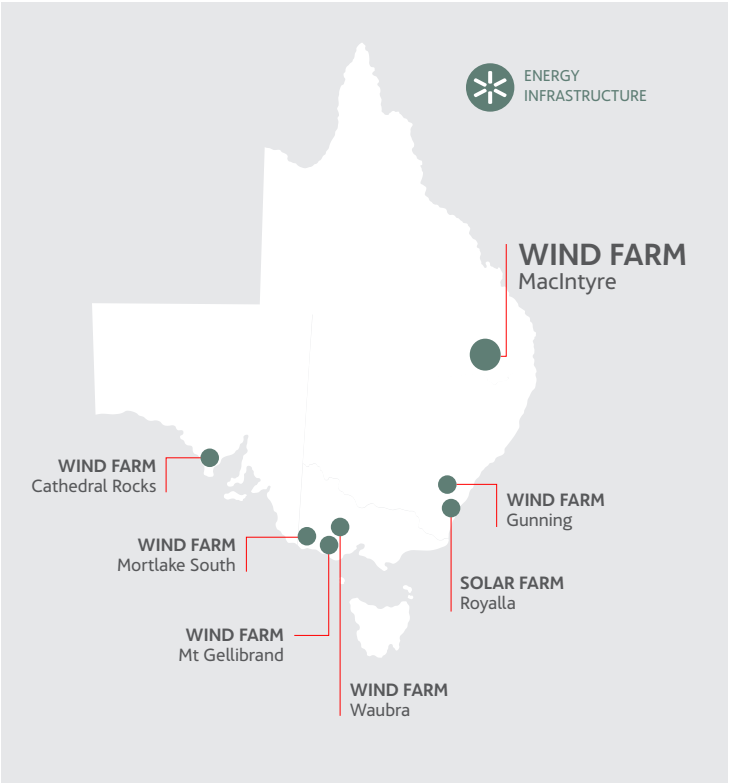
MacIntyre Wind Farm

- Location: The MacIntyre Wind Farm is approximately 50 kms south-west of Warwick and 10 kms south of Karara in Queensland.
- Capacity: 1,026 MW
- Number of turbines: 180
- Maximum Tip Height: Up to 285m
- Anticipated Construction Commencement: Mid 2021
- Anticipated Construction Duration: 18 - 24 months
- Expected Operating Life: 30+ years



LEADERS IN RENEWABLE ENERGY

With over 25 years of experience in the field of renewable energy, ACCIONA provides reliable and efficient solutions leveraging cutting-edge technologies. ACCIONA makes its technological capabilities available to customers at any stage of a wind or PV project, from resource assessment, processing, engineering, design, construction, operation and maintenance, which includes all the services in EPC (engineering, procurement and construction) contracts or other types of contract. In Australia, ACCIONA develops, constructs, owns and operates wind farms, producing clean energy for over 280,000 local households annually. ACCIONA has constructed four wind farms and a 20 MW solar farm in Australia and construction of a fifth wind farm is underway.

ACCIONA's Energy business line has a presence in over 16 countries on 5 continents. The company works exclusively with renewable technologies, specifically across wind, solar PV, solar thermal, hydro and biomass. ACCIONA has over 11 GW capacity in operation and under construction globally. The company also undertakes projects for third parties, for which it has installed nearly 2,000 MW.

PROJECT OVERVIEW

The MacIntyre Wind Farm is proposed to be located within 36,000 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. The site is exposed to consistent high winds, which provide a suitable resource for the development of a wind farm.

The 1,026 MW project is anticipated to contain 180 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.

The MacIntyre Wind Farm is expected to generate approximately 400 jobs over its lifetime. The project will also 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 2020.

Presence in more than 60 countries

More than 100 years of experience

EXPERTS IN DESIGNING A BETTER PLANET

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 400 jobs will be created over the life of the project
- A substantial contribution to the Southern Downs and Goondiwindi Regional Councils 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 the 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.
- **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.

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/macintyre

Gunning Wind Farm

Mt Gellibrand Wind Farm

Cathedral Rocks Wind Farm

Waubra Wind Farm

Mortlake South Wind Farm (under construction)