

# MORTLAKE SOUTH WIND FARM FACT SHEET

## PROJECT FACTS

- Project Size: The site will be located across 6,003 hectares of leased land, however less than 1% will be disturbed for use.
- Number of Turbines: 35
- Maximum Tip Height: 186 metres
- Anticipated Construction Completion: October 2020
- Annual Average Energy Production: 530 GWh of clean energy consumption for approximately 66,000 homes
- Expected Operating Life: 25 years



## PROJECT OVERVIEW

- The Mortlake South Wind Farm is proposed on a site which is situated 5 kilometres south of Mortlake in the Moyne Shire, south-west Victoria.
- The wind farm will be constructed on cleared, level land which is predominately dairy farming country. The location has been selected for its high exposure to consistent winds across this part of the state and close proximity to the transmission network.
- Planning approval was originally granted by the State government in 2010. In April 2017, the Minister for Planning approved an amendment to the planning permit to allow for the use of contemporary wind turbine technology. The A\$288m project will generate significant economic activity in the Moyne Shire and surrounds.

## COMMUNITY BENEFITS

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

- Significant economic activity in the Moyne Shire and surrounds, creating approximately 100 construction jobs and potentially 5-10 full time operational positions.
- A substantial increase in Moyne Shire's rates and diversifying the Shire's income base from traditional sources.
- Providing a diversified income for wind farm host landowners.
- A Community Benefits Sharing Program, that consists of a suite of programs including a Small Grants Program – Each year approximately \$20,000 will be made available for community events, projects and activities. Community organisations and groups can apply for small grants through an application process. Advertisements will be placed in local media to promote the program and request applications.

## Flagship Projects



▲ Gunning Wind Farm, NSW



▲ Mt Gellibrand Wind Farm, VIC



▲ Waubra Wind Farm, VIC



▲ Cathedral Rocks Wind Farm, SA

## Leaders in Energy

ACCIONA Energy 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.

It has nearly 8,600 megawatts (MW) in operation which annually produces more than 21 terawatt hours (TWh) of emissions-free electricity, equivalent to the consumption of more than six million homes. The company also undertakes projects for third parties, for which it has installed nearly 2,000 MW. 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.

## Wind Farm Construction Process

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.

**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 and rotor are then lifted and fixed to the tower.

**Connecting the Turbines:** An underground electrical collection system will be installed to connect each wind turbine to an onsite substation. Overhead transmission lines will connect the on-site substation to the electrical grid interconnection facility or point of interconnection at the Terang substation.

**Operations and Maintenance Building:** An Operations and Maintenance building will be constructed to accommodate the onsite staff, the equipment and spare parts that will be necessary for ongoing maintenance of the project once it becomes operational.

**Commissioning and Operation:** Once all the turbines are fully operational and capable of producing power into the energy grid, the construction phase is deemed complete and the project will be commissioned.

**Decommissioning:** At the end of the wind farm's 25-year life, a decision will be made to either continue operations or decommission the wind farm. If decommissioning is required, the turbines and towers will be removed and recycled. Decommissioning is the responsibility of the owner of the wind farm, i.e. ACCIONA Energy.