

Newsletter

Warradarge Wind Farm reaches new heights

The last two months of 2019 saw some important milestones for the Warradarge Wind Farm, with foundations being poured and the first of the towers climbing skyward on-site.

The first batch of major structural components for the wind farm made their journey from Henderson Marine Complex to site at the start of December, including the 67-metre long blades – some of the largest in the country.

A total of 153 turbine blades, 153 tower sections and 51 turbine nacelles will be trucked up north over the next few months.

To minimise any traffic congestion on the roads to the wind farm, transportation has been carried out at night and will take around six hours to reach Warradarge.

Each wind turbine tower will be assembled out of three sections. Once the turbine nacelle is placed atop, the towers will have a hub height of 84 metres.

To date around 35 out of a total of 51 foundations have been poured ready to receive the wind turbines.

International wind-farm manufacturer Vestas has supplied the turbines and civil works on the turbine foundations and balance of plant is being carried out by their subcontractor Decmil.

With energisation expected in the second-half of 2020, Warradarge Wind Farm will generate enough renewable energy to supply the equivalent of 148,500 Western Australian homes.



Pictured: Tower sections stored at Henderson



Pictured: The first erected turbine at the Warradarge Wind Farm.



Pictured: Greenough River Solar Farm Stage two expansion

Greenough energisation on track for Q2 2020

The stage two expansion of the Greenough River Solar Farm is progressing well and is expected to start generating in the second quarter of 2020.

With the installation of the posts nearly complete and tracking systems and panels going up rapidly, the solar farm will feature over 300,000 solar panels once complete.

Unlike the stage one facility which has fixed solar panels, the stage two solar panels are mounted on a single axis tracking system and follow the sun to provide more electricity generation.

Stage one of the Greenough River Solar Farm was the first utility-scale solar plant to be constructed in Australia.



DID YOU KNOW?

When complete, the expanded 40MW solar farm will generate enough electricity to power around 19,800 WA homes



Refurbishment makeover on track for Albany Grasmere

Works to extend the life of the Albany Grasmere Wind Farm are gaining traction, with phase two of the blade repair campaign to commence shortly, and works on turbine 11 now completed.

The blade repairs program is aimed at restoring the leading-edge profile of each blade, addressing the deterioration over time from environmental exposure.

Turbine 11 received some additional attention, following a lightning strike back in 2018.

With the blades and hub now back in position, turbine 11 will go through a recommissioning process that will take around two weeks.

The current works are scheduled for completion by mid-2020, and will extend its expected operation to at least 2030.

A control system upgrade is also being undertaken as part of the refurbishment works.

The 18 turbines at Albany Grasmere Wind Farm produce clean, renewable energy that is equivalent to 80 per cent of Albany's annual electricity needs.



Pictured: Albany Grasmere Wind Farm – turbine 11 repair



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