

Crookwell 3 Wind Farm

Crookwell 3 Development Pty Ltd

October 2023 Newsletter

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Project Status

Wind Farm

The turbine installation process at Crookwell 3 is now complete. Let us recap some characteristics of the project:

- **Roads**
 - ✓ The internal access tracks network has an approximate length of 11 km. These tracks include existing farm tracks and the new upgraded tracks.
 - ✓ The access road (Graywood Siding Road) is approximately 5 km long.
 - ✓ As per usual and until the end of the project, Divall's will be maintaining the internal roads in good condition.
- **Wind Turbines**
 - ✓ The Wind Farm is composed of 16 wind turbines with 126 metres rotor diameter and 3.6 MW rated capacity (V126-3.6 MW Vestas Wind Turbines). The wind-turbine is a variable-speed windward turbine fitted with an active orientation system and a three-blade rotor.
 - ✓ Internal mechanical and electrical works will continue inside the turbines until December 2023.
- **Trenching and Cabling**
 - ✓ The wind turbines will be interconnected by underground cables and line input-output panels, in such a manner as to create three 33 kV feeders. These will be connected to the wind farm's 33/330 kV collector substation, which will receive the different feeders from the reticulation network in one 33kV busbar and will include one existing 180 MVA 33/330 kV step-up transformer connected to said busbar.
 - ✓ Crookwell 3 will be connected to the National Electricity Grid via the existing 33/330 kV substation in CR2WF. The Point of Connection will be established on the 33 kV side of the 180 MVA step-up transformer.

Grid Connection

- ✓ Crookwell 3 will be connected to the National Electricity Grid via the existing 33/330 kV substation in CR2WF. The Point of Connection will be established on the 33 kV side of the 180 MVA step-up transformer.
- ✓ The breakers and protection equipment have been installed. RJE is currently doing the wiring terminations. Vestas PPC and SCADA are already in the control room.
- ✓ Transgrid are currently installing the new Marshalling panel for CR3.

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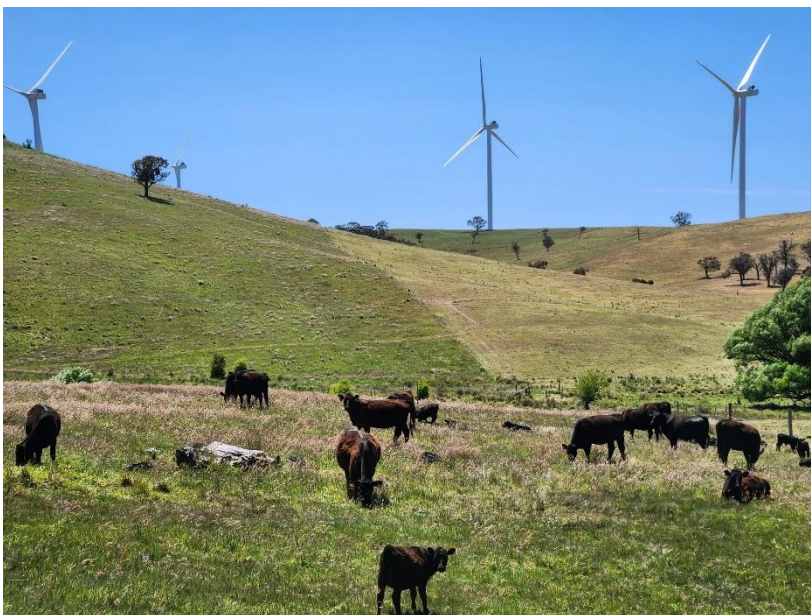
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Community Engagement & Benefit Sharing

Landscape Screening Program

As part of the development consent, Crookwell 3 Wind Farm is implementing a landscape screening program. This program provides the neighbours who live within a 4km radius of the wind farm with landscaping options to mitigate the view of the turbines. We will contact all the eligible neighbours within the 4km radius of the wind farm. If you would like more information, please email us at crookwell2and3windfarms@globalpower-generation.com.au.



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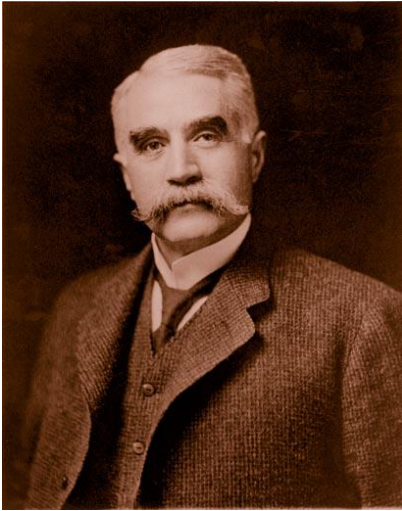
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Do You Know About?

Wind Turbine Pioneers



Charles F. Brush (1849-1929) is one of the founders of the American electrical industry. He invented a very efficient DC dynamo used in the public electrical grid, the first commercial electrical arc light, and an efficient method for manufacturing lead-acid batteries.

His company, Brush Electric in Cleveland (Ohio), was sold in 1889 and in 1892 it was merged with Edison General Electric Company under the name General Electric Company (GE).

During the winter of 1887-88 Brush built what is today believed to be the first automatically operating wind turbine for electricity generation.

It was a giant by that time - the World's largest - with a rotor diameter of 17 m (50 ft.) and 144 rotor blades made of cedar wood. Note the person mowing the lawn to the right of the wind turbine.

The turbine ran for 20 years and charged the batteries in the cellar of his mansion.

Despite the size of the turbine, the generator was only a 12 kW model. This is due to the fact that slowly rotating wind turbines of the American wind rose type do not have a particularly high average efficiency.

It was the Dane Poul la Cour, who later discovered that fast rotating wind turbines with few rotor blades are more efficient for electricity production than slow moving wind turbines.



Contact Us

For any queries, complaints or to be included in the distribution list of our newsletter and fortnightly construction update please get in touch with our Community & Stakeholder Engagement Officer Marco Romero on:

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