



NEWSLETTER N. 04  
DECEMBER 2019

# WOOLSTHORPE WIND FARM



## 1 PROJECT UPDATE

### CURRENT WORK-STREAMS

**Development** - Plans required to satisfy the Planning Permit were lodged in June 2019 to the Department of Energy, Land, Water and Planning (DELWP). All documents went through the appropriate consultation with the relevant responsible authorities and were endorsed by the Minister for Planning on the 18th October 2019. All endorsed documents can be found on the project's website under "Overview and Useful Links".

**Connection** - As the developers and owners of the wind farm, we need to have complete certainty that the Wind Farm can connect, without compromising the stability of the grid and availability of the electricity supply. For this reason, the connection process requires significant engineering and due diligence work. Whilst we have made significant progress to date, it is always the last 10% which is the hardest. We need to ensure that Powercor, as the local distribution utility, and AEMO (Australian Energy Market Operator) are satisfied with the connection solution proposed. This also requires us to model a grid which is continually evolving as more generators connect and more information becomes available. This work-stream will be our No. 1 focus in the coming months.

**Construction** - Site mobilisation was scheduled for early November 2019 but with the connection work-stream delay as noted above, site mobilisation date will likely be delayed for around 6 to 8 months which would take us end of Q2 or start Q3 of 2020. We will update this information as we get more clarity on the subject.

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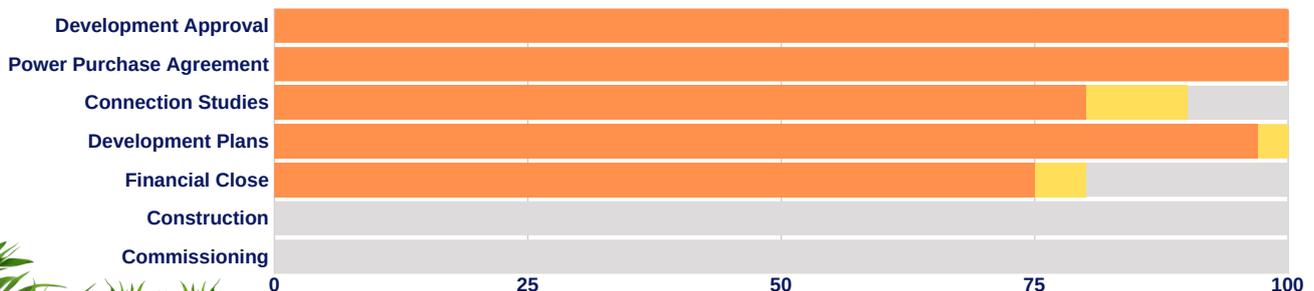
## CONTACT US



*New* Toll Free Number:  
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## 2 LATEST ACTIVITIES

### COMMUNITY MEETING (29/08/19)

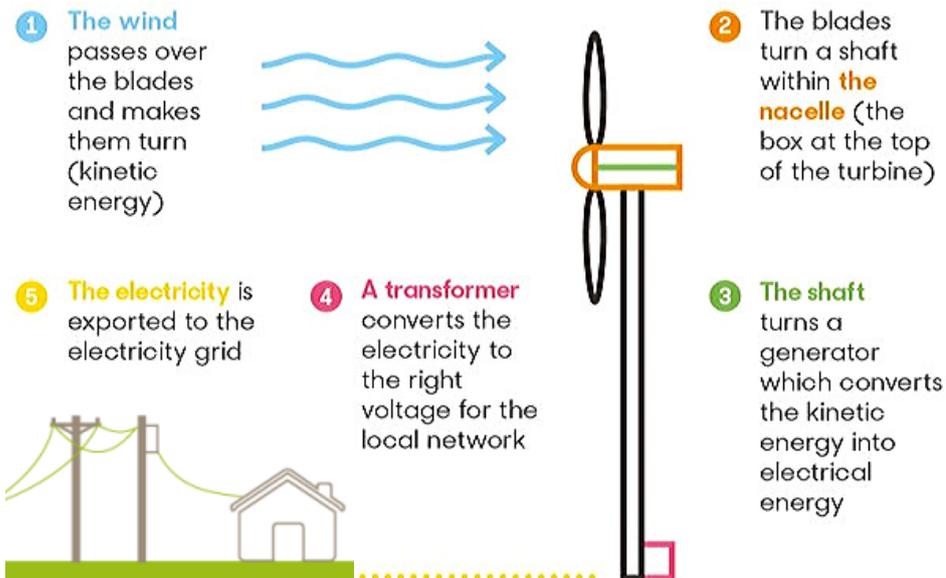
Enerfin-Ironstone, accompanied by Siemens-Gamesa Renewable Energy and Moyne Shire Council representatives held a Community Meeting at the Woolsthorpe Community Hall.

As the project moves closer to construction it was the perfect opportunity to also get familiar with the key concerns surrounding this project: distribution lines, fire risk, road use, road remediation during and after construction, community fund and other points of the project of high relevance for the community members. See Minutes of Meeting on our website under 'Overview and Useful Links'.



## 3 FREQUENTLY ASKED QUESTIONS

### HOW DOES A WIND TURBINE PRODUCE ELECTRICITY?



The wind passes over the blades creating lift (like an aircraft wing) which causes the rotor to turn. The blades turn a low-speed shaft inside the nacelle: gears connect the low speed shaft of the rotor with a high speed shaft that drives a generator. Here, the slow rotation speed of the blades is increased to the high speed of generator revolution. Some wind turbines do not contain a gearbox and instead use a direct drive mechanism to produce power from the generator.

The rapidly spinning shaft drives the generator to produce electric energy. Electricity from the generator goes to a transformer which converts it to the right voltage for the electricity grid. The electricity is then transmitted via the electricity network.

### WHAT HAPPENS WHEN THE WIND STOPS BLOWING?

The power grid operator constantly matches the electricity generation available to electricity demand. No power plant is 100% reliable, and the electricity grid is designed to cope with power plants shutting down unexpectedly, and times when the wind is not blowing. Wind is variable, but predictable. Wind farm sites are chosen after careful analysis of wind patterns. This enables a forecast of output to be made - information which can be made available to the network operators who will distribute the electricity.

*We would like to wish the Woolsthorpe Community a*

*Merry Christmas and Happy New Year*

*From the Team of the Woolsthorpe wind farm*

A stylized illustration of a wind turbine with three blades, positioned at the bottom right of the Christmas message.