



Energy for generations

CAPPAWHITE WIND FARM

Project Newsletter June 2016



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Welcome to the first newsletter for ESB's Cappawhite Wind Farm, Co Tipperary. The purpose of this newsletter is to keep you up to date with the development of the wind farm as it progresses through construction and into operation.

The project will

- Comprise of 17 wind turbines
- Produce 50 MW of electricity
- Power 32,500 homes*
- Displace 74,000 tonnes of CO2 annually*
- Provide €1.25 million of local funding.

*Calculated based on: http://www.iwea.com/_windenergy_onshore



Wind Farm Access Tracks

Who is involved?

ESB, Ireland's foremost energy company and largest producer of renewable electricity will manage the construction and operation of Cappawhite Wind Farm. Involved in the development and construction of onshore wind farms since the 1980's we now operate 18 wind energy projects producing over 400 MW.

Following an open and competitive tender process, we have appointed a construction team to undertake the works for the wind farm:

John SISK and Son Ltd (JSSL) is our main contractor handling the civil works on the wind farm site and the installation of grid connection cable. JSSL are an Irish company with over 150 years of experience and remain a family

run business in its fifth generation. JSSL has been constructing projects in the energy sector for nearly half a century.

Gridpower Ltd is our electrical contractor handling the construction and installation of all electrical infrastructure onsite. An Irish-based company with vast experience in the design and installation of major wind farm projects across Ireland and the UK.

Vestas is our wind turbine suppliers and installers. A Denmark based company with over 30 years experience in the design and installation of more than 57,000 wind turbines across 75 countries.

What is being built?

We are installing 17 Vestas wind turbines, each with a total height of 140m, at the wind farm site located north-west of Cappawhite village.

Additional works include:

- The creation of 16 km of site access tracks;
- The construction of an electrical sub-station/control room;
- The connection of the wind farm into the existing electricity grid in Cauteen substation via an underground cable.



Electrical Substation Construction

Project Timeline:

March 2015	Granted planning permission
October 2015	Commenced advanced civil works
January 2016	Progressed onto main civil and electrical works
September 2016	Wind turbine component delivery, and installation
June 2017	Wind farm will be fully operational



Wind Turbine Foundation

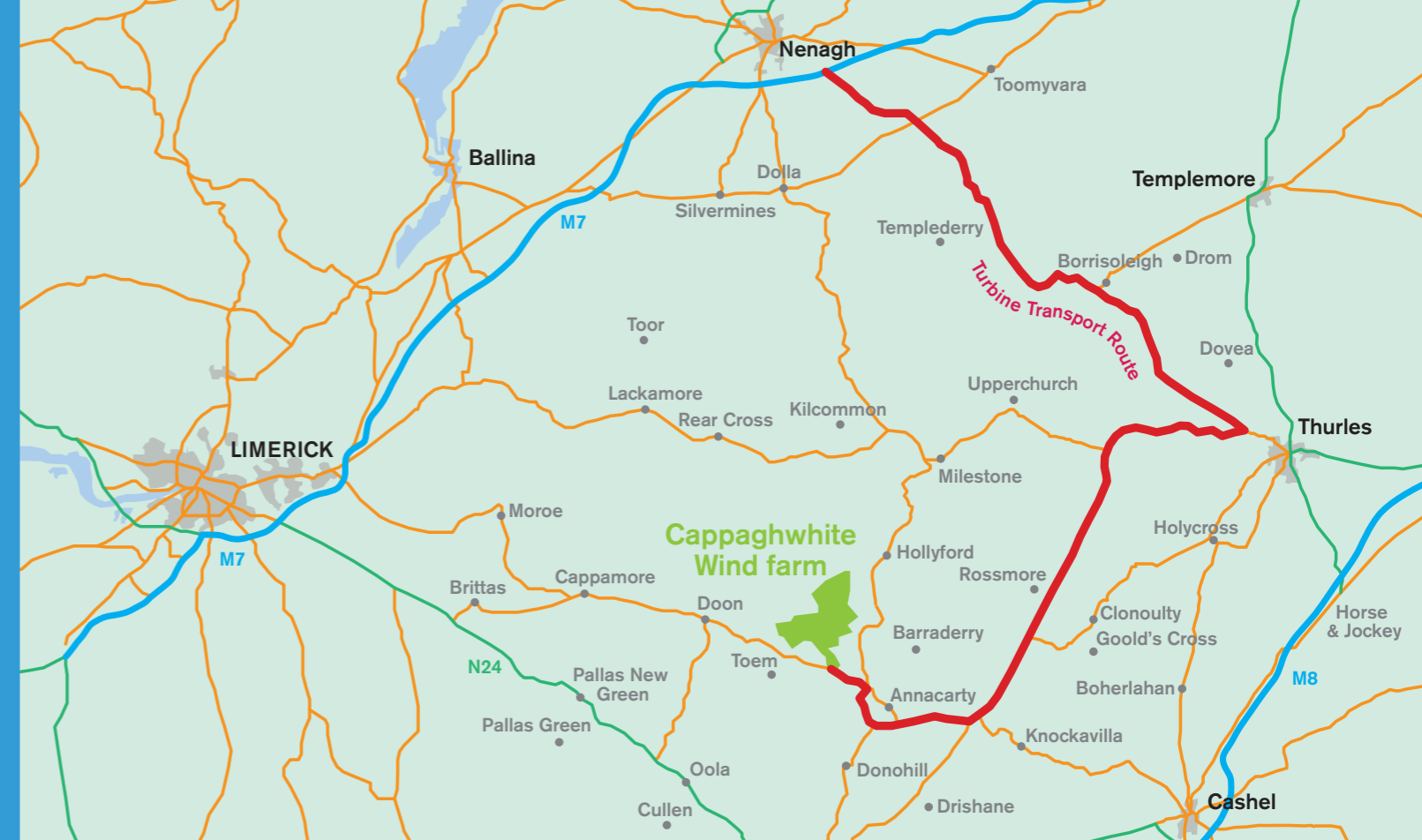
The Next Stage - Wind Turbine Delivery

Turbine deliveries to the wind farm will begin in September 2016, and will be run intermittently over a period of approximately 10 weeks. To avoid local traffic disruption lorries will deliver the components during the early hours of the morning. In total we expect there to be approximately 40 nights of deliveries.

All turbine deliveries will be made via

the project's turbine delivery route. The turbines are being delivered from Denmark to Foynes Port and travel to the wind farm site via the N18, onto the M7 and along the designated local transport route detailed in the map to the left.

Updates will be available closer to the time.



How will the wind farm improve the global, and national environment?

With the active threats of global warming, climate change, and depleting fossil fuel reserves; Ireland must transition from an over-reliance on imported gas and coal to a cleaner, locally-generated more sustainable future thereby enhancing energy independence and lowering our national carbon footprint.

Wind farms are part of the solution due to the abundant wind resource in Ireland. Each year, the operation of Cappawhite Wind Farm could produce enough clean energy to off-set the emission of harmful greenhouse gases, such as: 74,000 tonnes of carbon dioxide (CO₂), 1,900 tonnes of sulphur dioxide (SO_x) and nearly 500 tonnes of nitrogen oxide (NO_x)*

How will the ESB protect the local environment?

We'll strive to protect the local environment at all stages, from construction through to the operation of the wind farm.

An Environmental Impact Statement (EIS) was undertaken as a part of our planning application for the wind farm to assess the likely environmental impacts. We studied, assessed and modelled: traffic and transport, noise, shadow flicker, flora and fauna, geology and soils, cultural heritage, aviation, and telecommunications.

The information gathered from each individual study has helped to shape the design and layout of the wind farm site, and minimise it's impacts through the implementation of some minor mitigation measures.

*Calculated based on: http://www.ivea.com/_windenergy_onshore

Key Mitigation Measures:

- 🍃 We've implemented a traffic management plan to ensure that local community are not inconvenienced due to the project and to protect their health and safety.
- 🍃 An archaeologist has been and will be present on site throughout all excavation works so as to guarantee the protection of local heritage.
- 🍃 We're working with environmental specialists and Coillte Forest management in the protection of all habitats of both mammals and avian species native to the area which could be affected by the wind farm and it's construction. Including the replanting of trees felled during the construction process.
- 🍃 We will monitor and assess noise and shadow flicker relating to the operational wind farm so that it complies with the levels set out in our planning.

Will ESB address community queries?

We believe in full and open engagement when working with the communities in which we operate. Being open and communicating proactively with the local residents throughout the project and responding to community needs that arise.

Are ESB supporting local businesses?

Whenever possible and in line with our procurement guidelines, we've strived to award contracts related to the construction of the wind farm to local labourers, suppliers, and service providers for example accommodation, aggregate and fuel supply.

Will funding be available for local community groups?

A community benefit scheme will be put in place for Cappawhite Wind Farm within 12 months of the completion of wind farm construction, and will run on an annual basis. Every year, we will invest over **€50,000** into a fund which will support projects and initiatives which clearly address local issues, needs, opportunities.

For more information on how our funds work, please visit: www.esb.ie, and search 'Wind Farm Community Funds'.

An additional construction fund has so far supported:

Cappawhite Athletics Club

Cappawhite Community Council

Doon National School

Cappawhite Ladies GAA Club

Youthreach Cappawhite



↑ We held a workshop in Anacarty National School where students had the opportunity to learn about the benefits of renewable energy and even got the chance to build their own wind turbines.

KEEP IN TOUCH



Padraig visiting Cappawhite National School during ESB Tree Week

Our Community Liaison Officer Padraig Carroll is available to meet and discuss residents' concerns in relation to any part of the construction of the wind farm including the turbine delivery and the community fund.

If you have any queries, please contact:



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For more information related to the project, visit our website:

www.cappawhitewindfarm.ie