

EMPower

EMPower is an Irish based international renewable energy developer with over 700 MW in development in Europe and Africa. Our senior management team has a combined 95 years' experience delivering projects from conception to operation across five continents.

EMPower is owned by GGE Ireland Limited, Wind Power Invest A/S and EMP Holdings Limited. We commenced project development in Ireland in 2018 following the government's announcement of the Renewable Energy Support Scheme (RESS) and Ireland's revised emissions target of 70% renewables by 2030.

Our vision is to provide low carbon, ecologically non-invasive, affordable energy to facilitate Ireland's expanding economy and sustainable energy targets. We are currently conducting an Environmental Impact Assessment (EIA) for the proposed 10-turbine windfarm situated in the townlands of Ballynagare, Curraghcraheen, Dysert and Dysert Marshes. EMPower follows Equator Principles and IFC Performance Standards throughout all stages of development in order to ensure the protection of our local ecology and communities.

Our project website (www.ballynagarewindfarm.ie) will be updated regularly with reports as they are made available and the final EIA will be published for comments prior to submission. Please submit comments through the website or email us directly at info@emp.group.

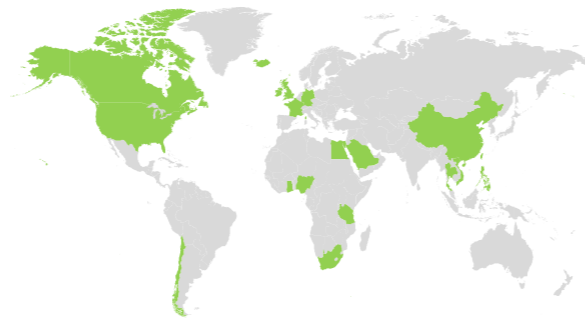
Ballyouneen Wind Farm



95 Years
 Combined Experience of EMPower Management Team in Renewable Energy

700 MW+
 Wind Energy Capacity Currently Under Development By EMPower

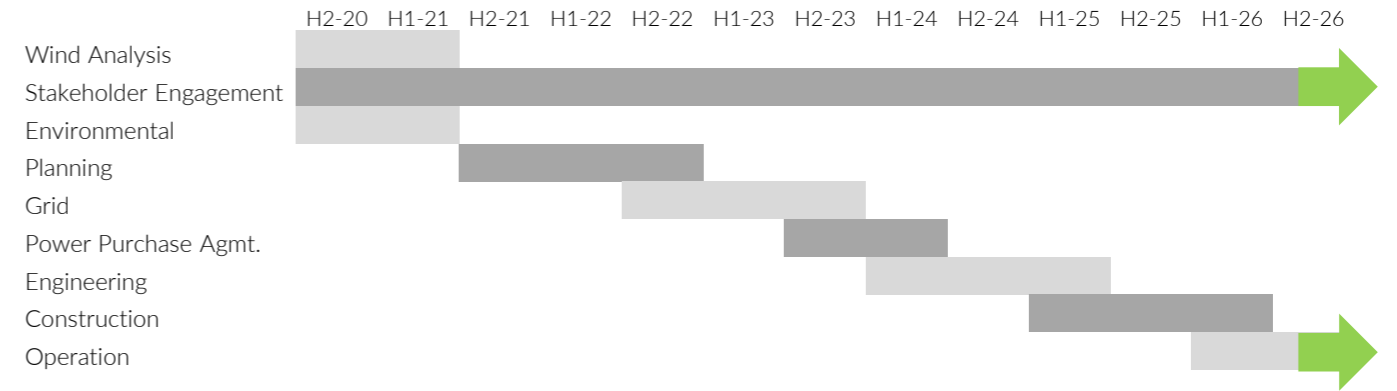
5 Continents
 Combined Geographical Experience of EMPower Team in Renewable Energy



- 10 Turbines
- 56 MW
- Clean power for 33,000 Irish Homes
- No Overhead Transmission Lines

The proposed development area of Ballynagare Wind Farm consists of a 609 acre site located 2.5km south-east of Ballyduff village, County Kerry. EMPower proposes to develop up to 10 turbines, of 170m tip-height, subject to environmental impact assessment and planning permission. The site was identified in the Kerry County Development Plan as an Open to Consideration area for wind development.

Project Schedule



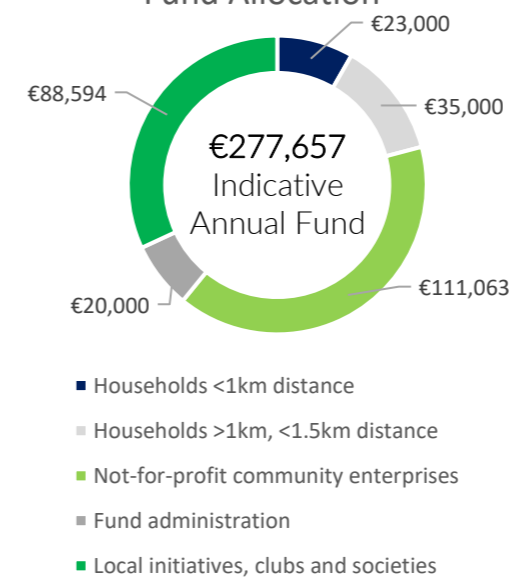
Community Benefit Scheme

The proposed Ballynagare Wind Farm will require a €61.8 million investment and will provide sustainable, low carbon energy generation infrastructure to meet Ireland's growing demand. The development benefits to the local community include significant investment in local infrastructure such as roads and electrical systems, local job creation, and a contribution of €10.1 million in county council rates over the project lifetime.

Ballynagare Wind Farm will also provide a community fund calculated in accordance with the Renewable Electricity Support Scheme (RESS) Terms and Conditions at **€2 per MWh** of electricity produced by the project. This is to be made available to the local community for the duration of the RESS (15 years). The average capacity factor of wind energy projects in Ireland is 28.3% (SEAI, 2019). Using this efficiency figure as an example, and a capacity of 56 MW, the community benefit fund would amount to an average of €277,657 per annum. The actual fund will vary around the average from year to year, depending on wind conditions. Onsite wind measurements suggest that Ballynagare will be capable of achieving an above average capacity factor, and therefore a larger community fund.

This scheme is proposed to be divided as per the indicative illustration in the chart below. An annual payment of **€1,000** will be provided to each household within 1km of any Ballynagare Wind Farm turbine. An annual payment of **€500** will be provided to each household located between 1km and 1.5km of a turbine. These payments will be fixed and will not fluctuate. 40% of the fund, amounting to approximately €111,000 per year in this example, will be allocated to not-for-profit community enterprises, with an emphasis on low-carbon initiatives. The remainder of the fund will be directed towards local clubs, societies and initiatives, with an emphasis on the villages of Lixnaw and Ballyduff. We welcome any suggestions from the community on suitable local projects that could be supported under this initiative.

Ballynagare Indicative Community Fund Allocation



- 95** Direct jobs in construction phase
- 22** Highly skilled jobs over project lifetime
- € 61.8 million** Investment in Irish infrastructure
- € 4.2 million** Total Indicative Community Fund Contribution
- € 10.1 million** County Council Rates Contribution

Environmental Impact Assessment

Following initial site screening activities, EMPower have commissioned an Environmental Impact Assessment (EIA) for the Ballynagare Wind Farm to assess what effects the project might have on the environment and local community. This is being carried out by the independent environmental and engineering consultancy, McCarthy Keville O'Sullivan (MKO), and the resulting reports will be issued to the planning and regulatory authorities. The final design will ensure that any sensitive areas are protected throughout development. A description of some key ESIA activities is presented to the right.



Social Impact Assessment

This involves examining the social effects of infrastructure projects on the surrounding community, examining land use, employment, health and safety, tourism and local amenities.



Ecology

An ecological impact assessment will be carried out in order to assess the impact on the site's flora and fauna, evaluating potential impacts on the local ecosystem. In line with industry best practice, EMPower are conducting 2 years bird surveys prior to planning application submission.



Shadow Flicker

Shadow flicker refers to alternating changes in light intensity caused by the moving turbine rotors impacting dwellings. EMPower will carry out a shadow flicker analysis to avoid any impact of shadow flicker on local buildings in line with current guidelines.



Noise Assessment

A noise assessment will be carried out to assess the impact of noise on the surrounding community by installing sound meters at noise sensitive locations (houses) and using turbine noise curves to establish noise emissions and design out any potential impacts.



Landscape and Visual

A zone of theoretical visibility (ZTV) will be produced outlining which turbines will be visible from various locations. Photo montages will identify the visual impact of the project by showing the operational turbines in situ.

Wind Energy FAQ

How efficient is wind energy?

Wind turbines produce electricity approximately 85% of the time. The other 15% of the time they are not turning for reasons, such as: very low wind speeds, very high wind speeds, and maintenance/repair work.

After six to seven months, a wind turbine will have produced as much energy as has gone into constructing it. Ballynagare Wind Farm is anticipated to produce enough electricity to power 33,000 Irish homes.

Do wind farms effect house prices?

Several studies from the United Kingdom by The Centre for Economics and Business Research (CEBR), The Institute of Chartered Surveyors, The House of Commons Library and Renewable UK conclude wind farms have little or no impact on property values.

Are turbines linked to health issues?

The balance of scientific evidence and human experience to date clearly concludes that wind turbines are not harmful to human health – in fact, wind energy reduces harmful air emissions and creates no harmful waste products when compared with other sources of electricity.

What is a turbine's lifetime emissions?

Wind energy emits no toxic substances such as mercury and air pollutants like smog-creating nitrogen oxides, acid rain-forming sulphur dioxide and particulate deposits.

A 2014 study by the Intergovernmental Panel on Climate Change (IPCC) found onshore wind energy to have the lowest mean lifecycle emissions of all viable sources, such as solar, nuclear energy and natural gas, at just 11 grams CO₂(e) per kWh.

Get in touch

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Ballynagare Wind Farm

Statement of Community Consultation

