



Ballynagare Wind Farm Proposal



- Company Introduction
- Wind Farm Design
- Community Fund
- Q&A
- EIA Activities
- Q&A
- Conclusion



Company Introduction



95 Years

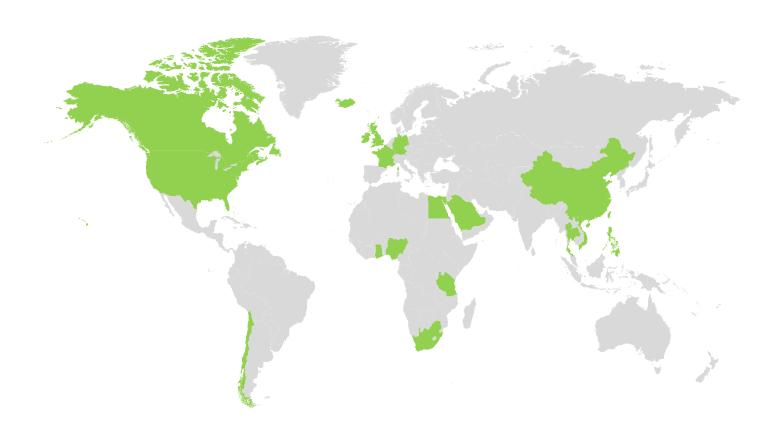
Combined Experience of EMPower Management Team in Renewable Energy

+700 MW

Wind Energy Capacity
Currently Under
Development By EMPower

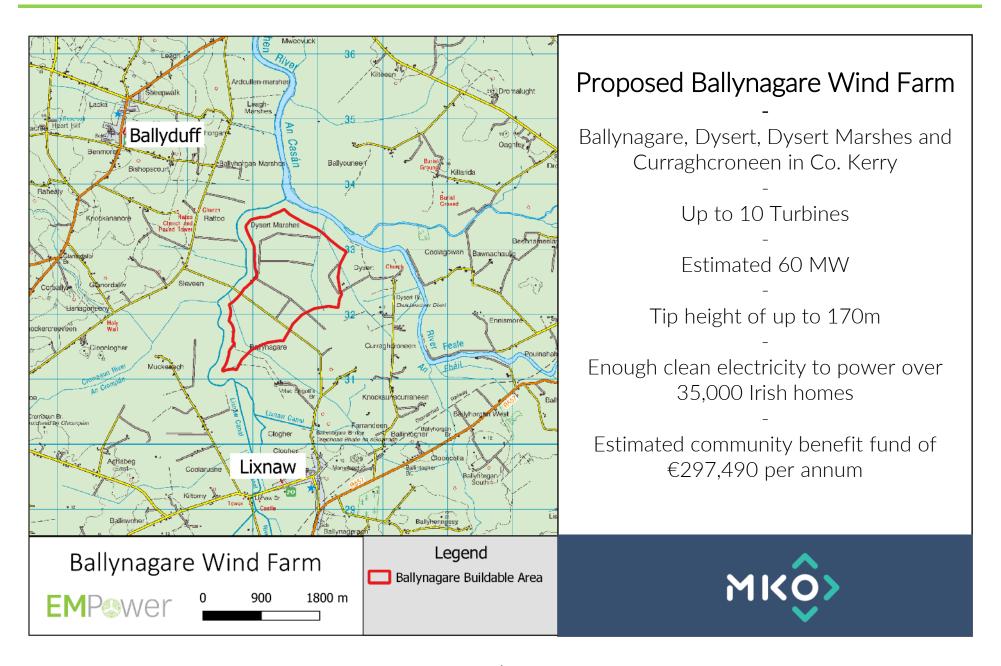
5 Continents

Combined Geographical Experience of EMPower Team in Renewable Energy



Project Introduction





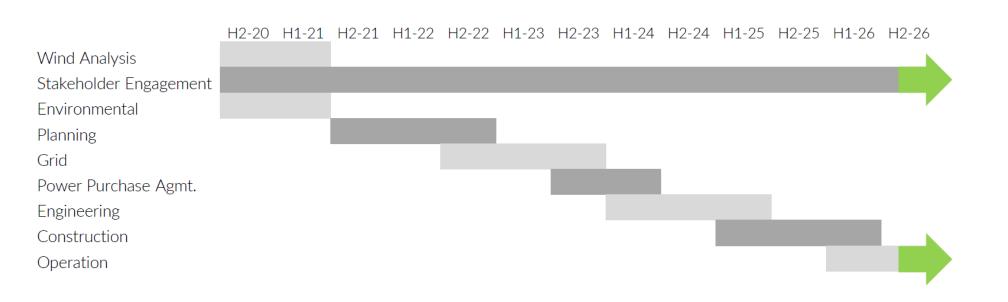
Proposed Project Schedule

Construction Commences



Spring 2025

Planning Submission to An Bord Pleanala (Strategic Infrastructure Development)	Summer 2021
Grid Connection Submission	Summer 2022
Renewable Electricity Support Scheme Submission	Summer 2023



Energy Targets in Ireland



Table 7.5 Potential Metrics to Deliver Abatement in Electric

Key Metrics	2017	2025 Based on MACC	2030 Based on MACC
Share of Renewable Electricity, %	~30%20	52%	70%
Onshore Wind Capacity, GW	~3.3	6.5	8.2
Offshore Wind Capacity, GW	NA	1.0	3.5
Solar PV Capacity, GW	NA	0.2	0.4
CCGT Capacity, GW	~3.6	5.1	4.7

70%
Renewables by 2030

8.2 GW
Onshore wind
by 2030

Source – Department of Communications, Climate Action and Environment Climate Action Plan 2019
Marginal Abatement Cost Curve (MACC) Analysis



Grid Wind CDP SACs Housing Capacity Land

Screening analysis performed on the entire Republic of Ireland incorporating constraints such as:

- Wind speed
- Grid connection
- Environmental Designations
- Culture and heritage
- Tourism
- County Development Plans
- Existing, planned and permitted projects
- Housing





Grid Wind CDP SACs Housing Capacity Land





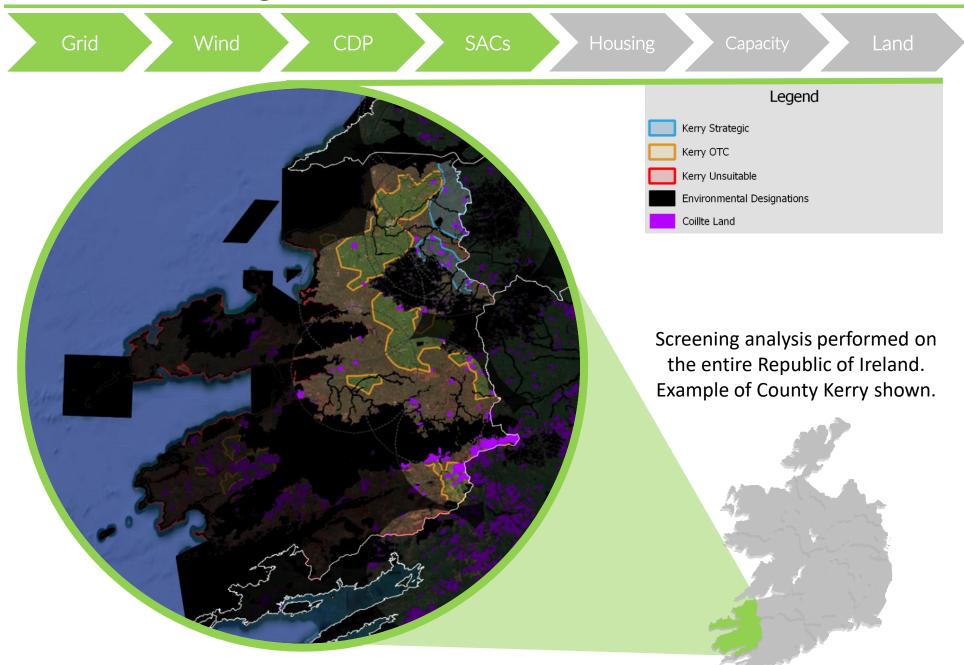
Legend 220kV Line 220kV Substations 110kV Substations 110kV Line Areas Outside Economic Distance of Grid Knockanure Athea Dromada Screening analysis performed on the entire Republic of Ireland. Example of County Kerry shown. Knockearagh

Legend 220kV Line 220kV Substations 110kV Substations 110kV Line Areas Outside Economic Distance of Grid Screening analysis performed on the entire Republic of Ireland. Example of County Kerry shown.



CDP Legend 220kV Line 220kV Substations 110kV Substations 110kV Line Areas Outside Economic Distance of Grid Kerry Strategic Kerry OTC Kerry Unsuitable Screening analysis performed on the entire Republic of Ireland. Example of County Kerry shown.







SACs CDP Legend Kerry Strategic Kerry OTC Kerry Unsuitable **Environmental Designations** Coillte Land 700m Buffers on Residential and Commercial Buildings Screening analysis performed on the entire Republic of Ireland. Example of County Kerry shown.

Site Screening



SACs CDP Legend Buildable Area

Site Screening



SACs CDP Legend Buildable Area

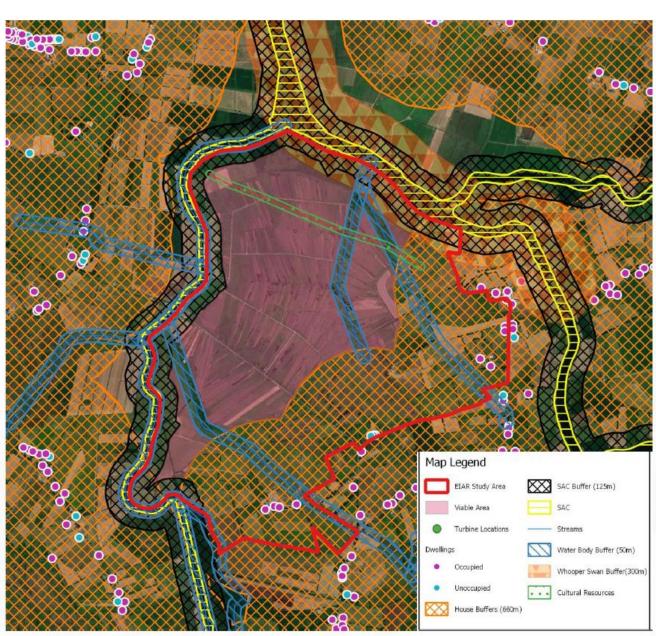
Wind Farm Design

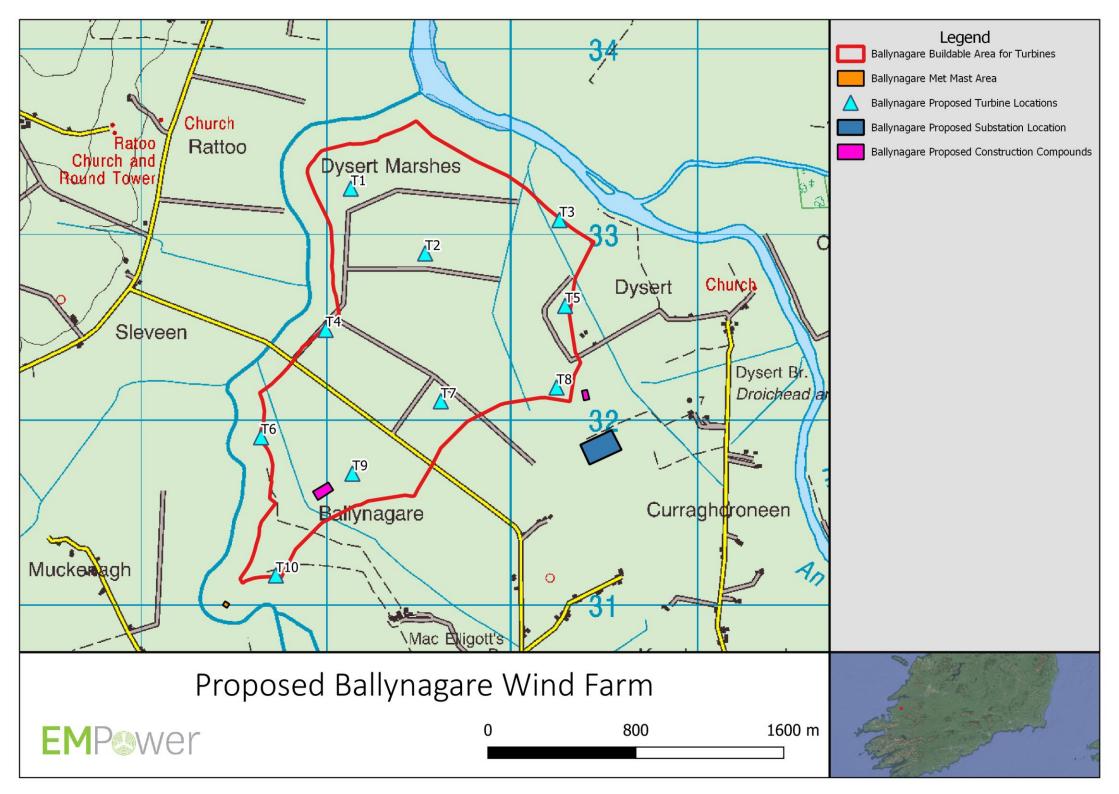


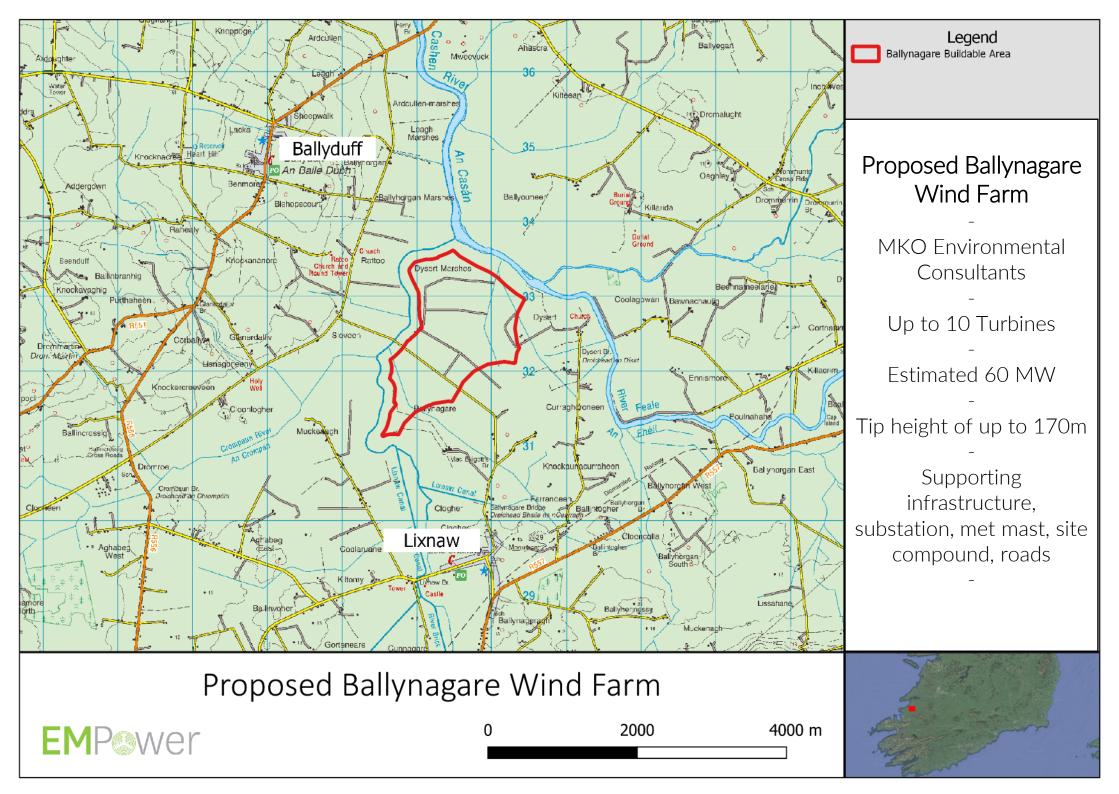


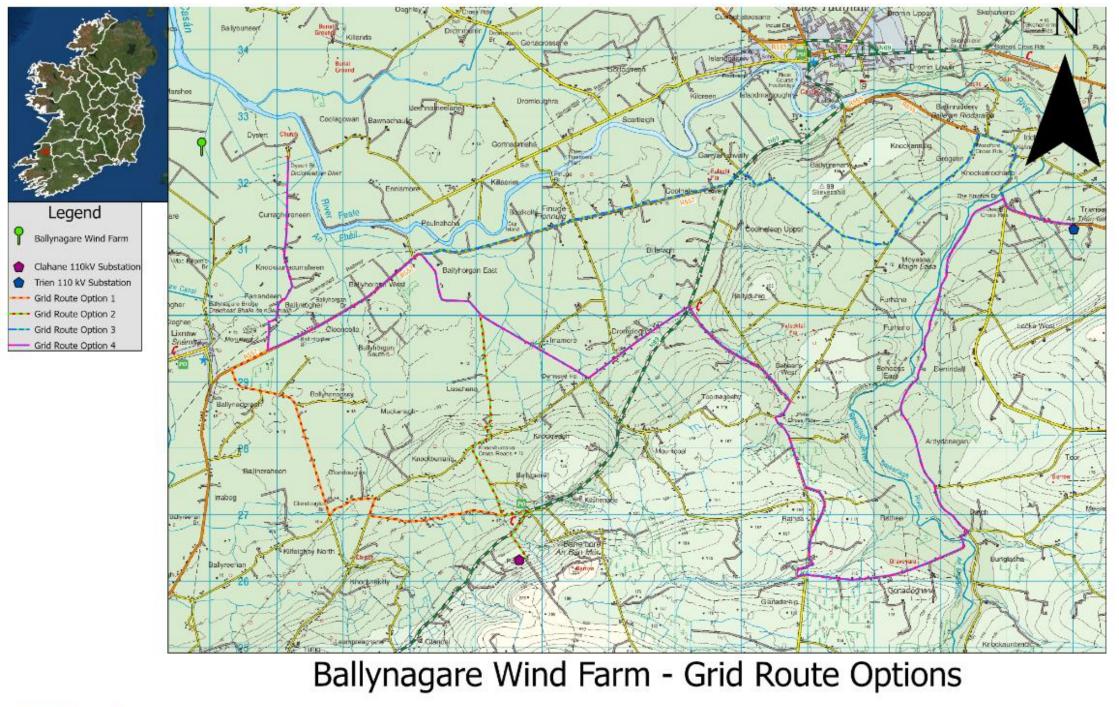
Project Design/Constraints

- Development site is located in an area deemed 'Open to Consideration' in the extant Development Plan.
- Constraints include:
 - SAC and buffer
 - Water body
 - Dwellings
 - Landownership
 - Cultural Heritage



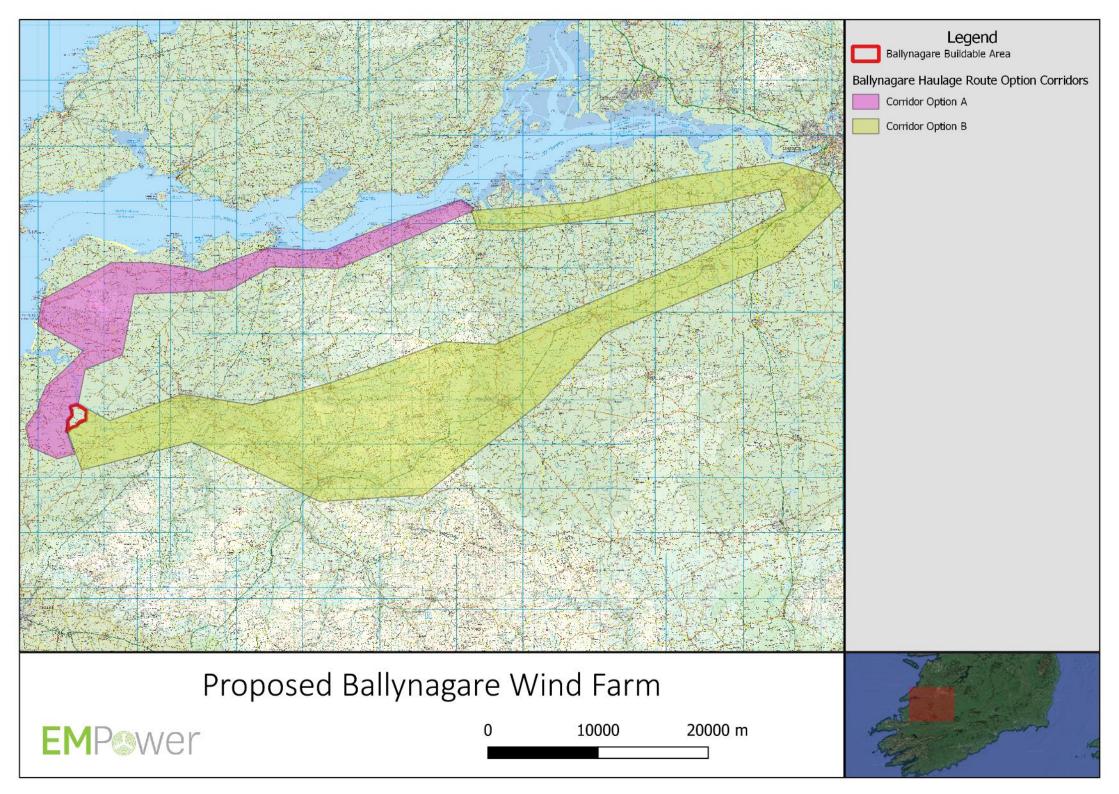








0 0.75 1.5 3 4.5 6



Community Benefits



95

Direct jobs in construction phase

22

Highly skilled jobs over project lifetime

€61.8 million

Investment in Irish infrastructure

€4.46 million

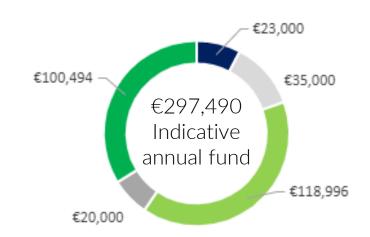
Total indicative Community Fund Contribution

€10.1 million

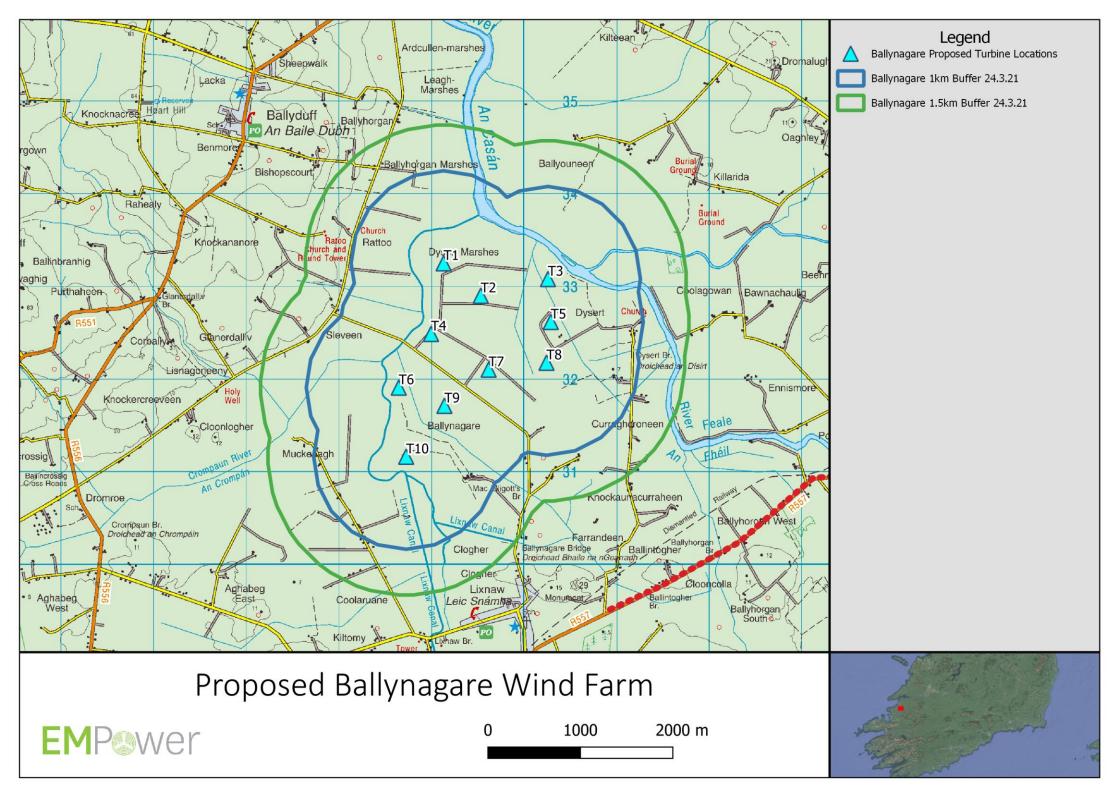
County Council Rates Contribution

Renewable Electricity Support Scheme (RESS) High Level Design

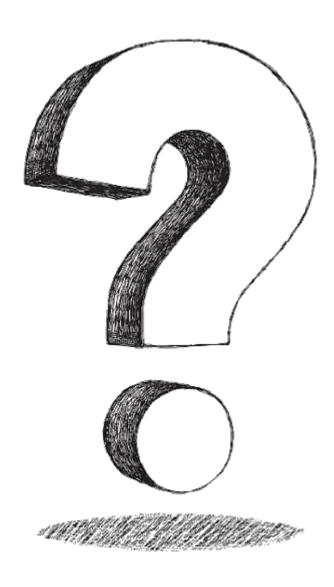
Ballynagare Indicative Community Fund Allocation



- Combined Fund for Households <1km distance
- Combined Fund for Households >1km, <1.5km distance
 </p>
- Not-for-profit community enterprises
- Fund administration
- Local initiatives, clubs and societies









Hydrology

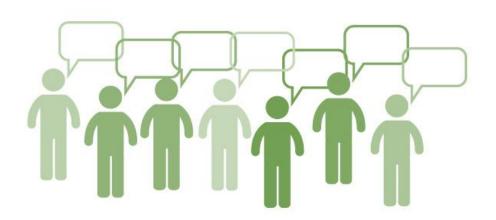




Ornithology



Population & Human Health

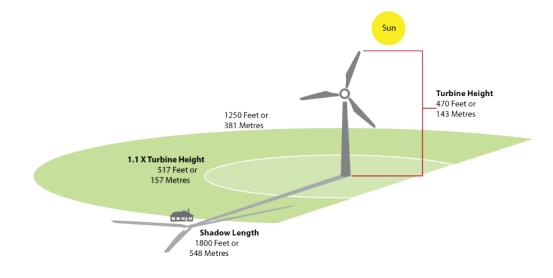




Biodiversity



Shadow Flicker





Sound



Construction and Civil Engineering

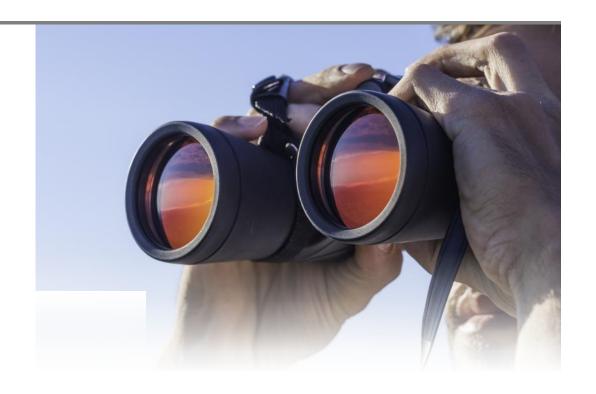


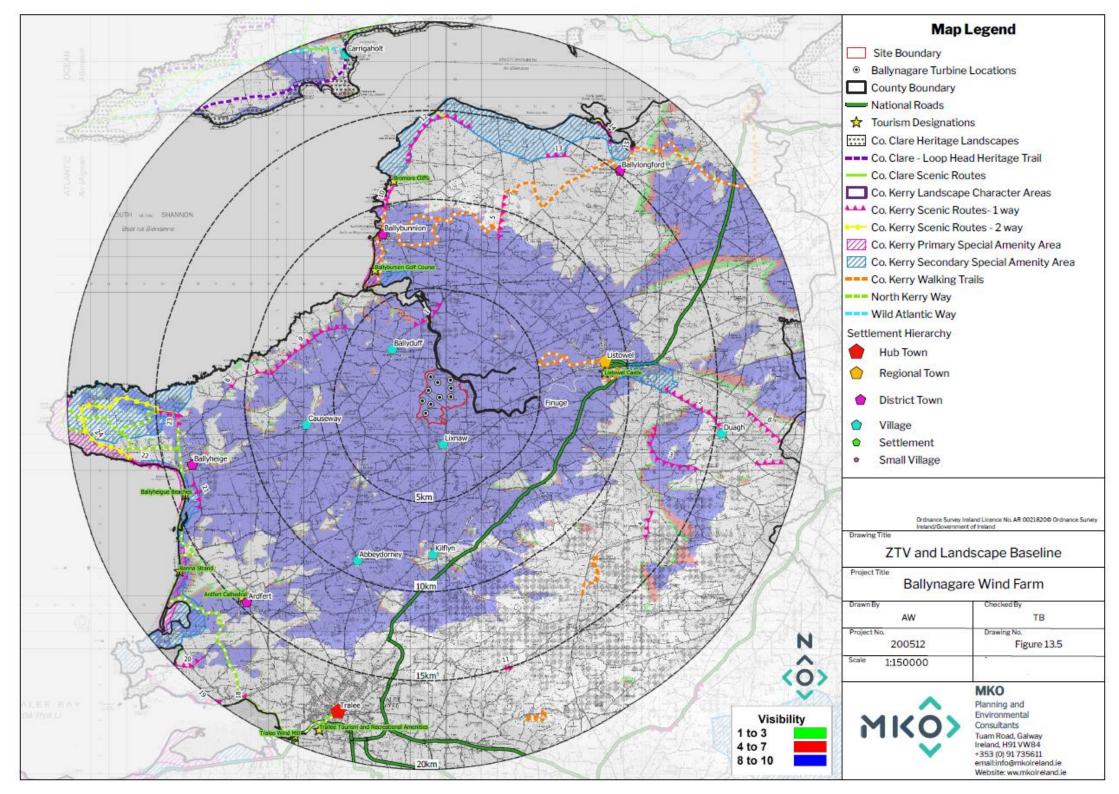


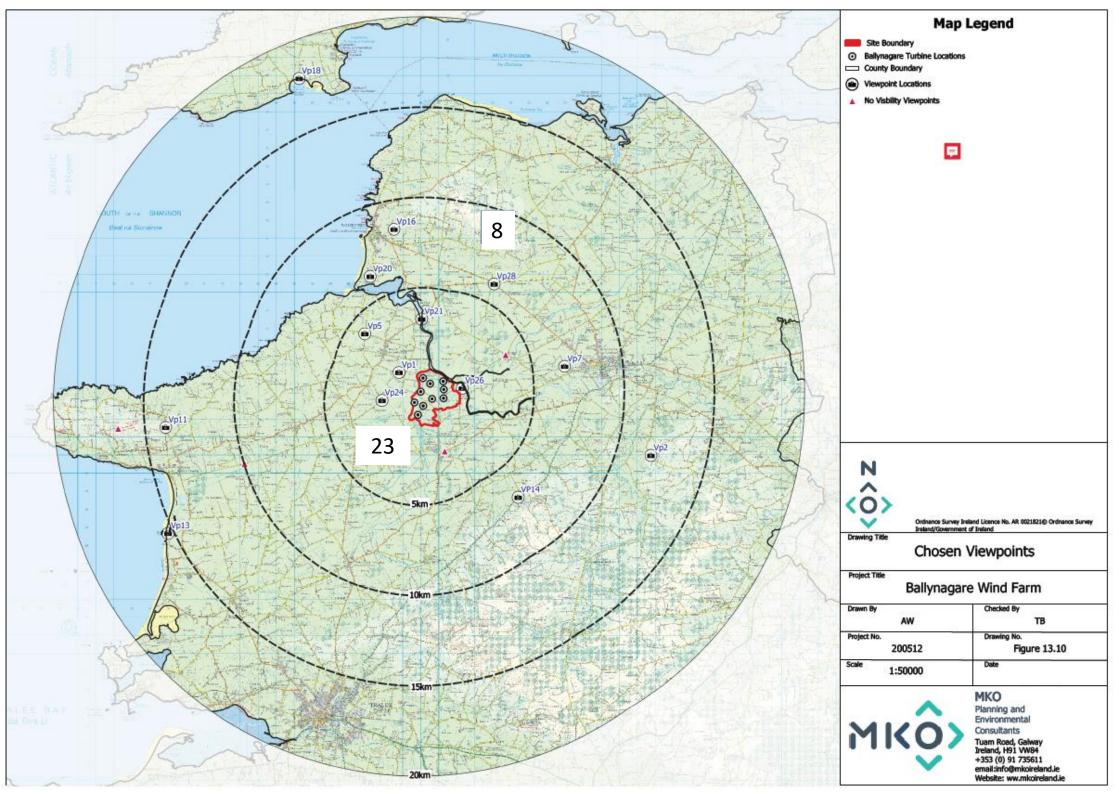
Archaeology



Landscape and Visuals









View **Point**

Farranastack

Photomontage 8

View Point: View from local road off the R553 in the townland of Farranastack, approximately 8.7 km northeast of the nearest turbine.

View point grid reference	E 492,953 N 641,450
Date of image taken	05.11.2020
Time of image taken	4:34pm
View point elevation	150m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	200°
Horizontal extent of proposed turbines	9°
Distance to nearest proposed turbine	8.7km (T3)
Number of proposed turbines visible	x/10
Turbine Hub Height	92.5m
Turbine Tip Height	170m
Turbine Rotor Diameter	155m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
Map Licence	@Copyright of Ordnance Survey Ireland. All Rights Reserved; License No: AR 0021820





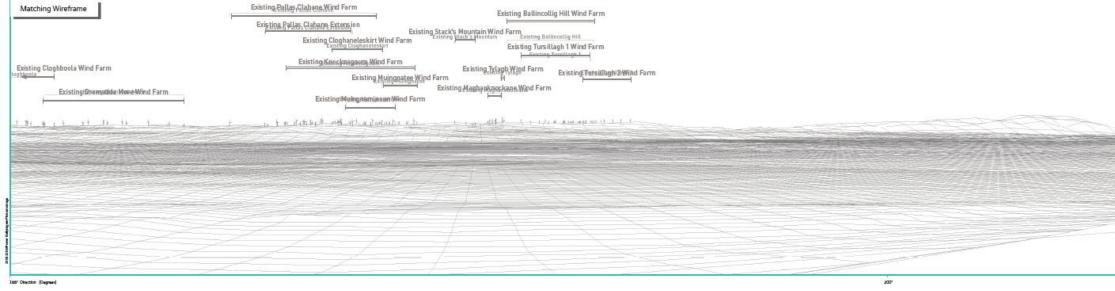
90° View Extent



53.5° View Extent













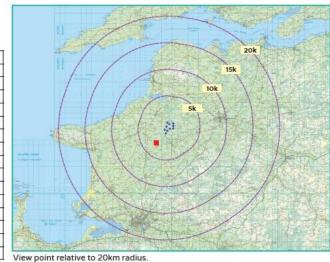
View Point 23

Aghabeg East

Photomontage 23

View Point: View from the Ballyduff local road in the townland of Aghabeg East, approximately 2.6 km southwest from the nearest turbine.

O	
View point grid reference	E 486,942 N 629,466
Date of image taken	05.11.2020
Time of image taken	10:55am
View point elevation	10m
Angle of Views	90° / 53.5°
View Direction (Image Centre)	40°
Horizontal extent of proposed turbines	21°
Distance to nearest proposed turbine	2.6km (T10)
Number of proposed turbines visible	x/10
Turbine Hub Height	92.5m
Turbine Tip Height	170m
Turbine Rotor Diameter	155m
Camera	Canon EOS 600D with 1.5x sensor
Lens	35mm prime. Equivalent zoom range 52.5mm
Tripod	Manfrotto 190X extended to approx 1.65m.
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90° View Extent

Key Image at 120'

53.5° View Extent

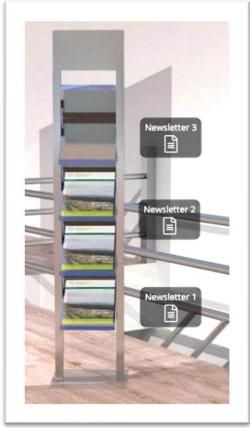




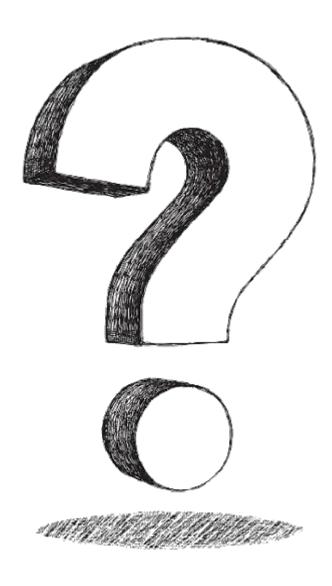
Virtual Consultation Room











Conclusion



Proposed Ballynagare Wind Farm

- Up to 10 turbines
- Estimated 60 MW
- 35,000 Irish homes powered

Community Fund

- Average €297,000 per year
- €1,000 per year (households <1km)
- €500 per year (households >1km <1.5km)
- Fund focused on Ballyduff and Lixnaw Villages

Next Steps

- Virtual consultation room
- Submission for planning in Summer 2021

Get in Touch

A: EMPower, 2 Dublin Landings, North Wall Quay, North Dock, Dublin 1

E: info@emp.group

T:015880178

