

Proposed Dyrick Hill Wind Farm Project

Public Consultation
Project Design Webinar No. 2
Thursday July 21st 2022

A recording of this Webinar will be made available on www.dyrickhillwindfarm.ie for those who are unable to attend this evening.

We will begin momentarily as we are just allowing people a few extra minutes to dial in....



Proposed Dyrick Hill Wind Farm Project

- Company Introduction
- Ireland's Energy Targets
- Proposed Project Location
- Study Area Screening
- Project Design Iteration 1
- Grid Connection and Access Routes
- Community Benefits & Project Schedule
- Question Time
- Environment Impact Assessments
- Question Time
- Conclusion



Company Introduction



95 Years

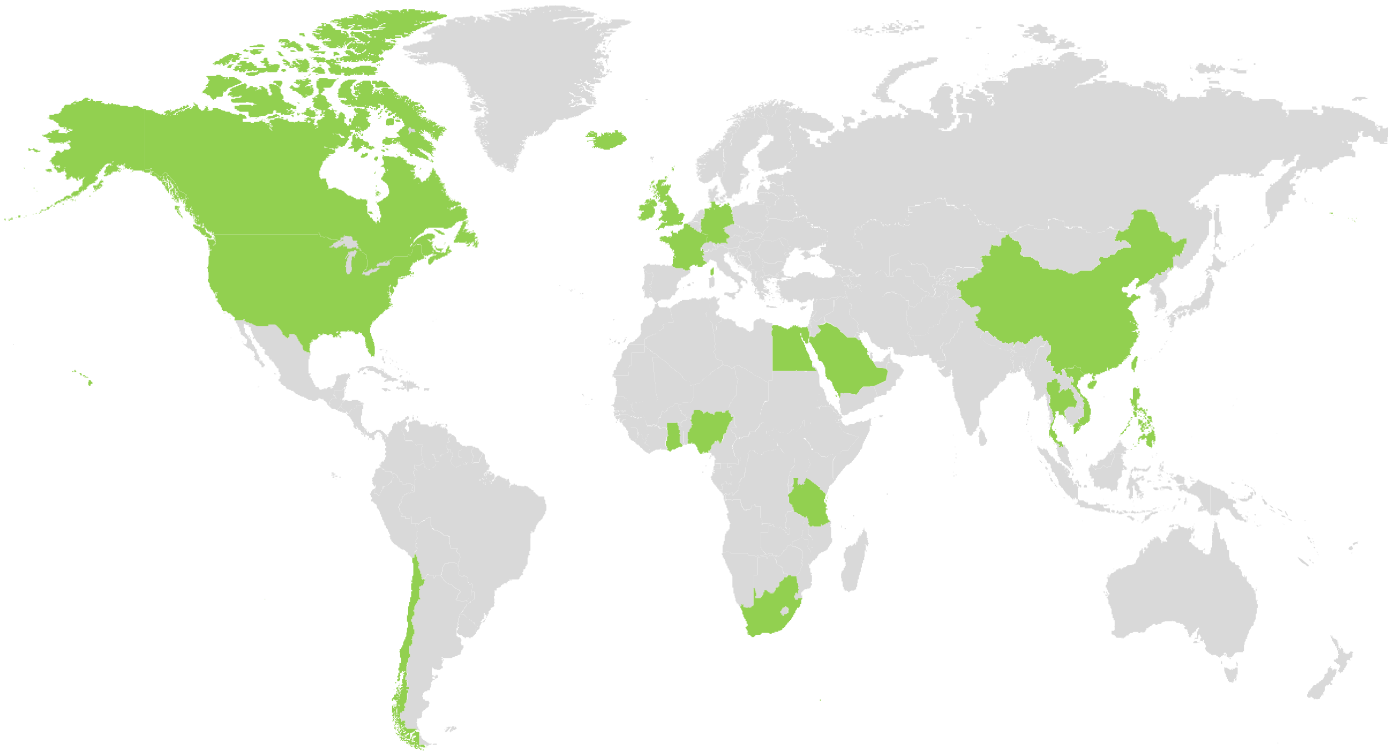
Combined Experience of
EMPower Management
Team in Renewable Energy

+700 MW

Wind Energy Capacity
Currently Under
Development By EMPower

5 Continents

Combined Geographical
Experience of EMPower
Team in Renewable Energy



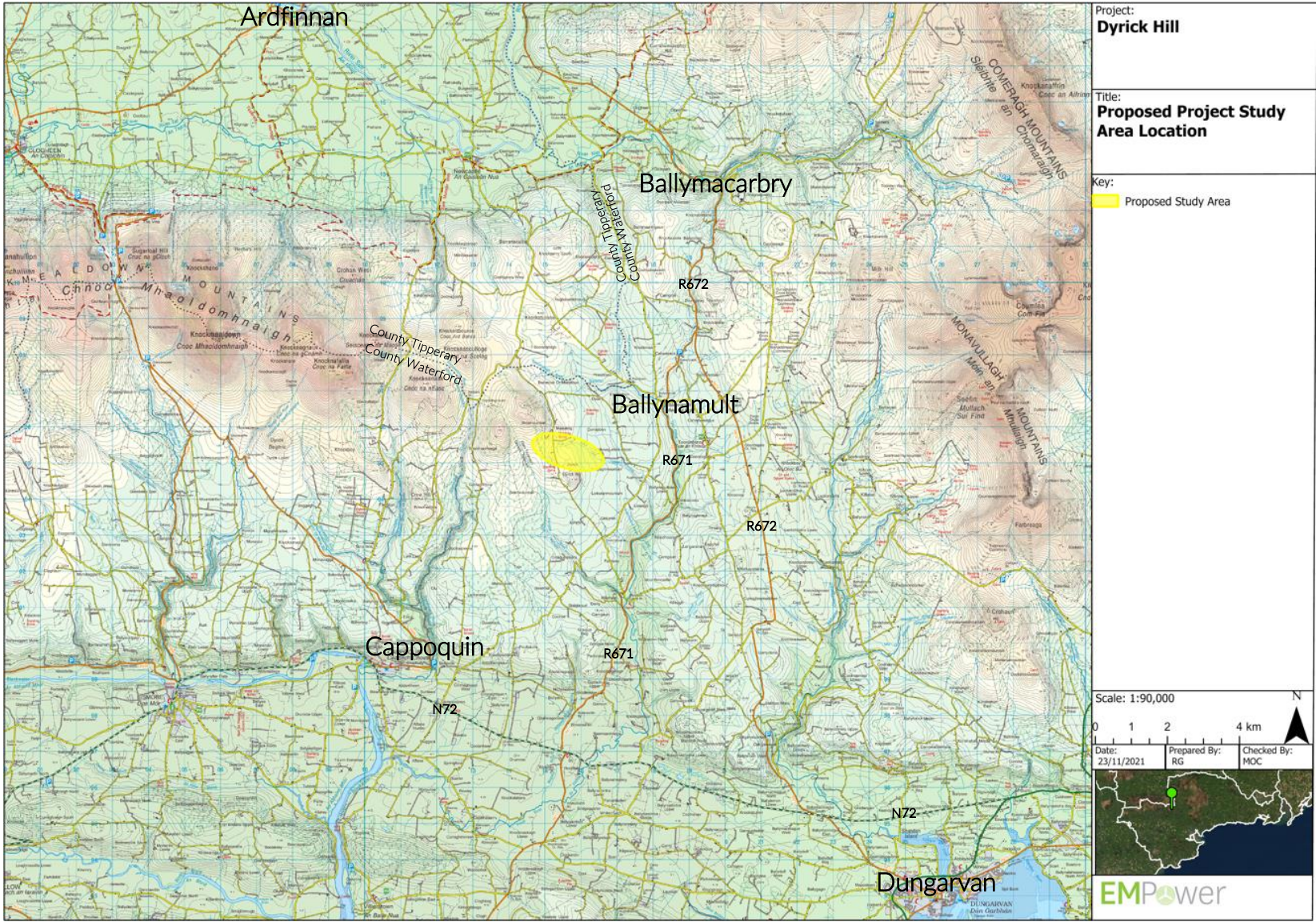
Energy Targets in Ireland

Key Metrics	2017	2025 Based on MACC	2030 Based on MACC
Share of Renewable Electricity, %	~30% ²⁰	52%	80%
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

80%
Renewable
Electricity by
2030

8.2
GigaWatts
Onshore wind
by 2030

Proposed Project Introduction - Location



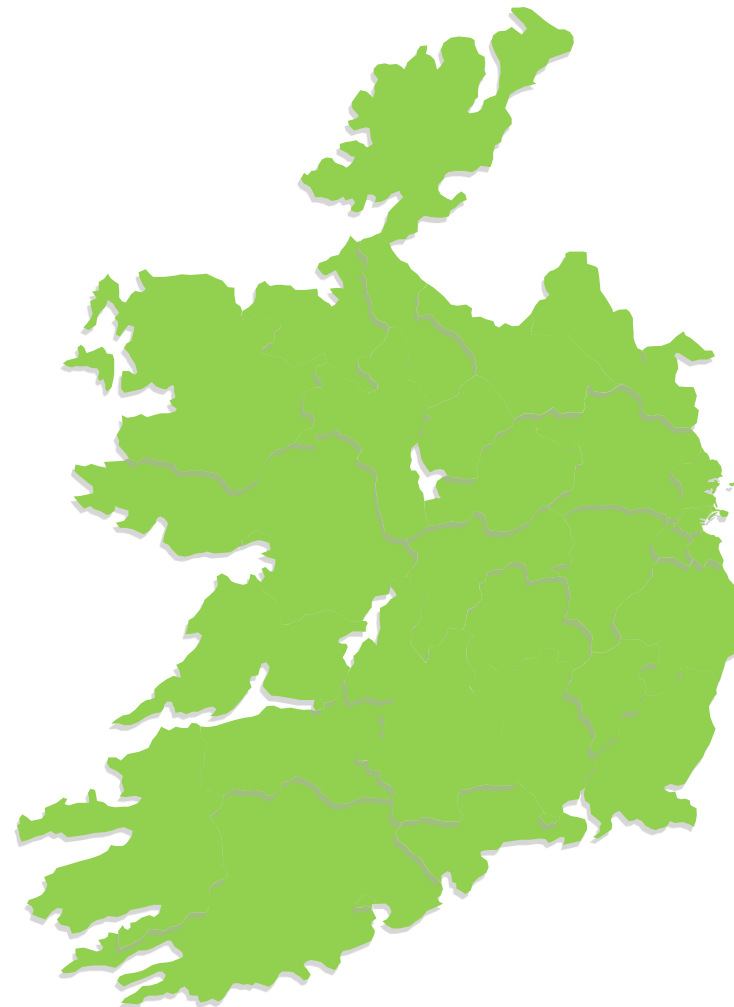
- Proposed Dyrick Hill Wind Farm Project Study Area
-
- Approximately 16km northwest of Dungarvan
-
- Approximately 8.5km southwest of Ballymacarbry
-
- Approximately 8 km northeast of Cappoquin
-
- Knockmealdown Mountains to the west
-
- N72 running between Cappoquin and Dungarvan to the south
-
- R671 runs approx. 2.5km to the east
-
- Jennings O'Donovan Consulting Engineers are the project's Planning Consultant

Study Area Screening



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



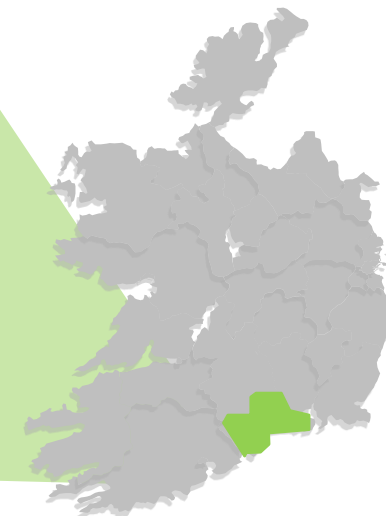
Study Area Screening



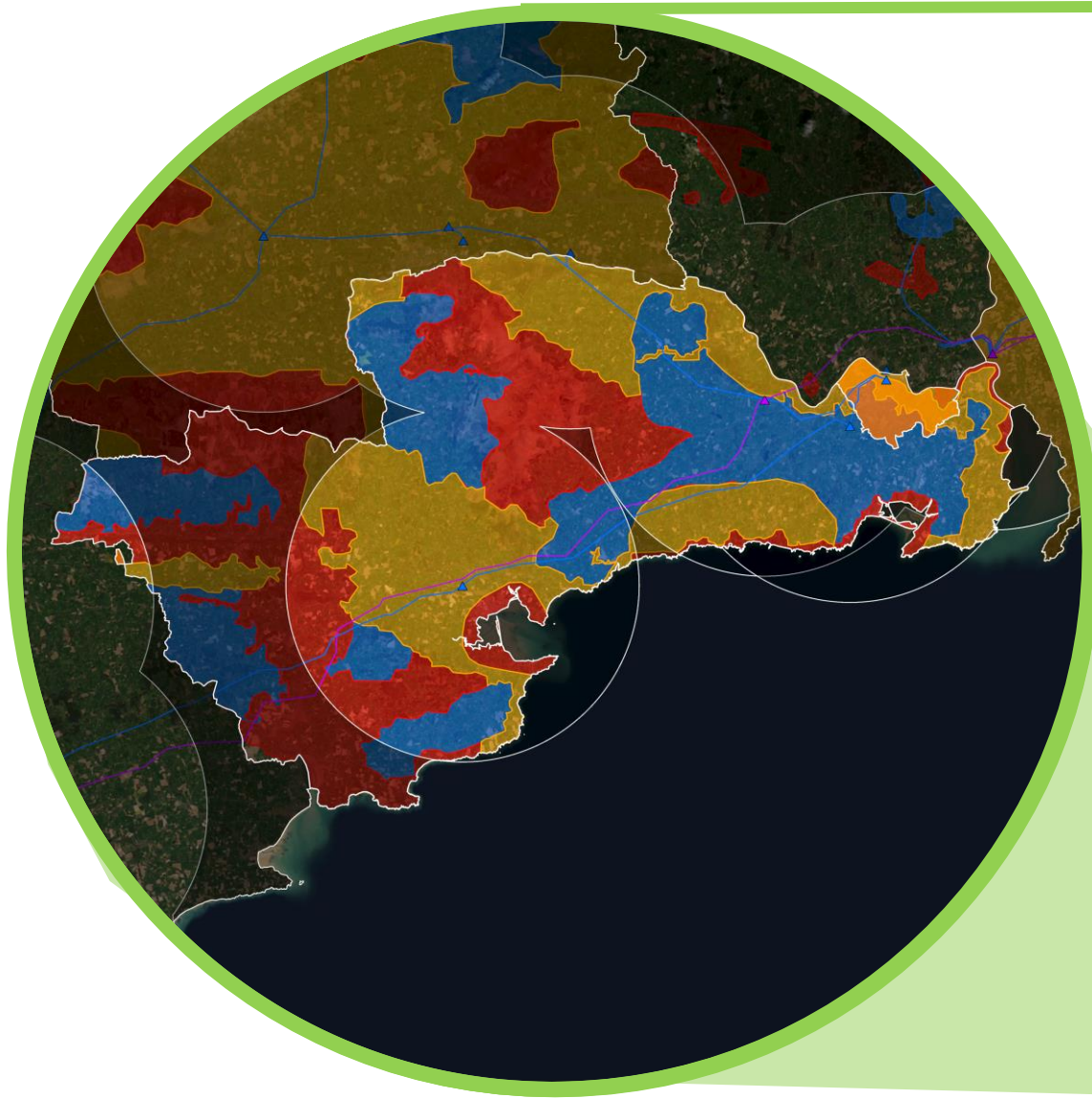
Legend

- 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 Waterford shown.



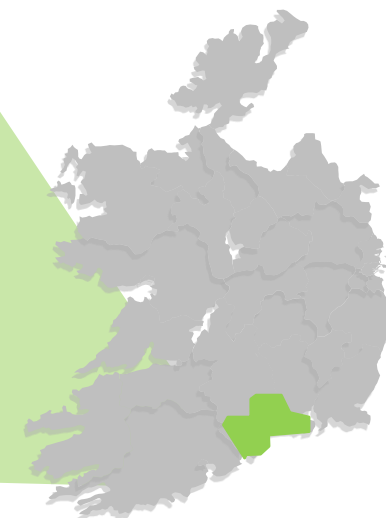
Study Area Screening



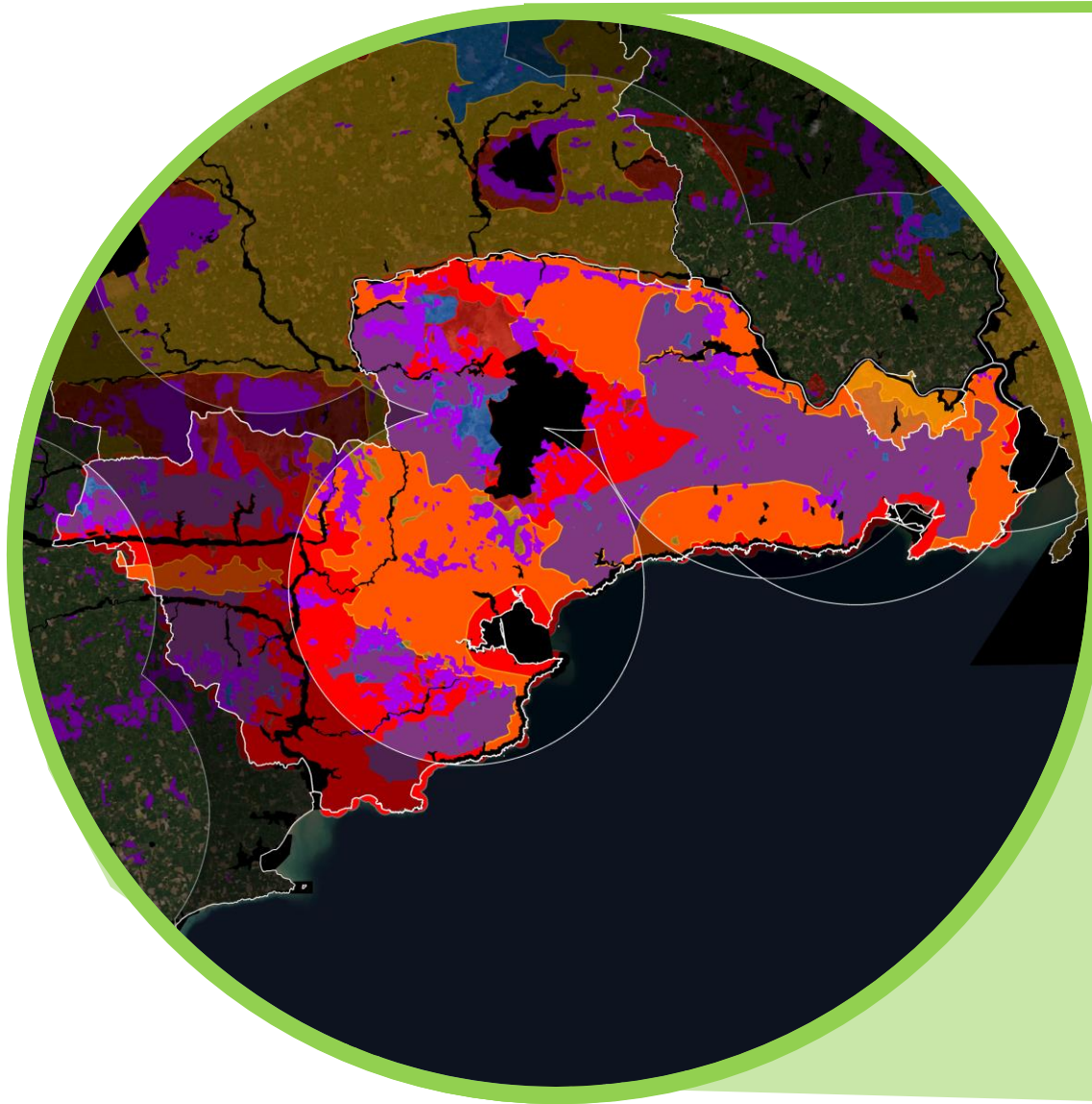
Legend

- 220kV Line
- ▲ 220kV Substations
- ▲ 110kV Substations
- 110kV Line
- Areas Outside Economic Distance of Grid
- Waterford Strategic
- Waterford OTC
- Waterford Unsuitable

Screening analysis performed on the entire Republic of Ireland. Example of County Waterford shown.



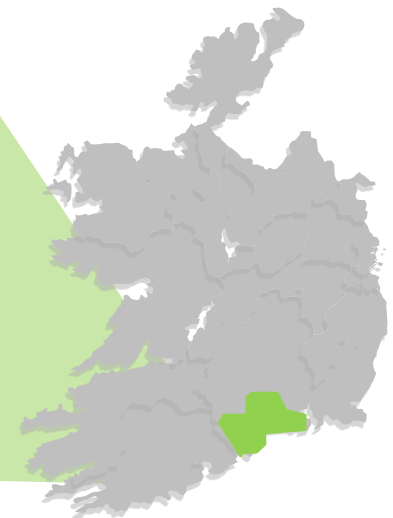
Study Area Screening



Legend

- Waterford Strategic
- Waterford OTC
- Waterford Unsuitable
- Environmental Designations
- Coillte Land
- 700m Buffers on Residential and Commercial Buildings


Screening analysis performed on the entire Republic of Ireland. Example of County Waterford shown.



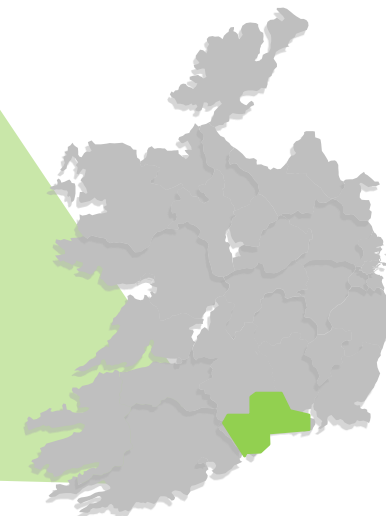
Study Area Screening



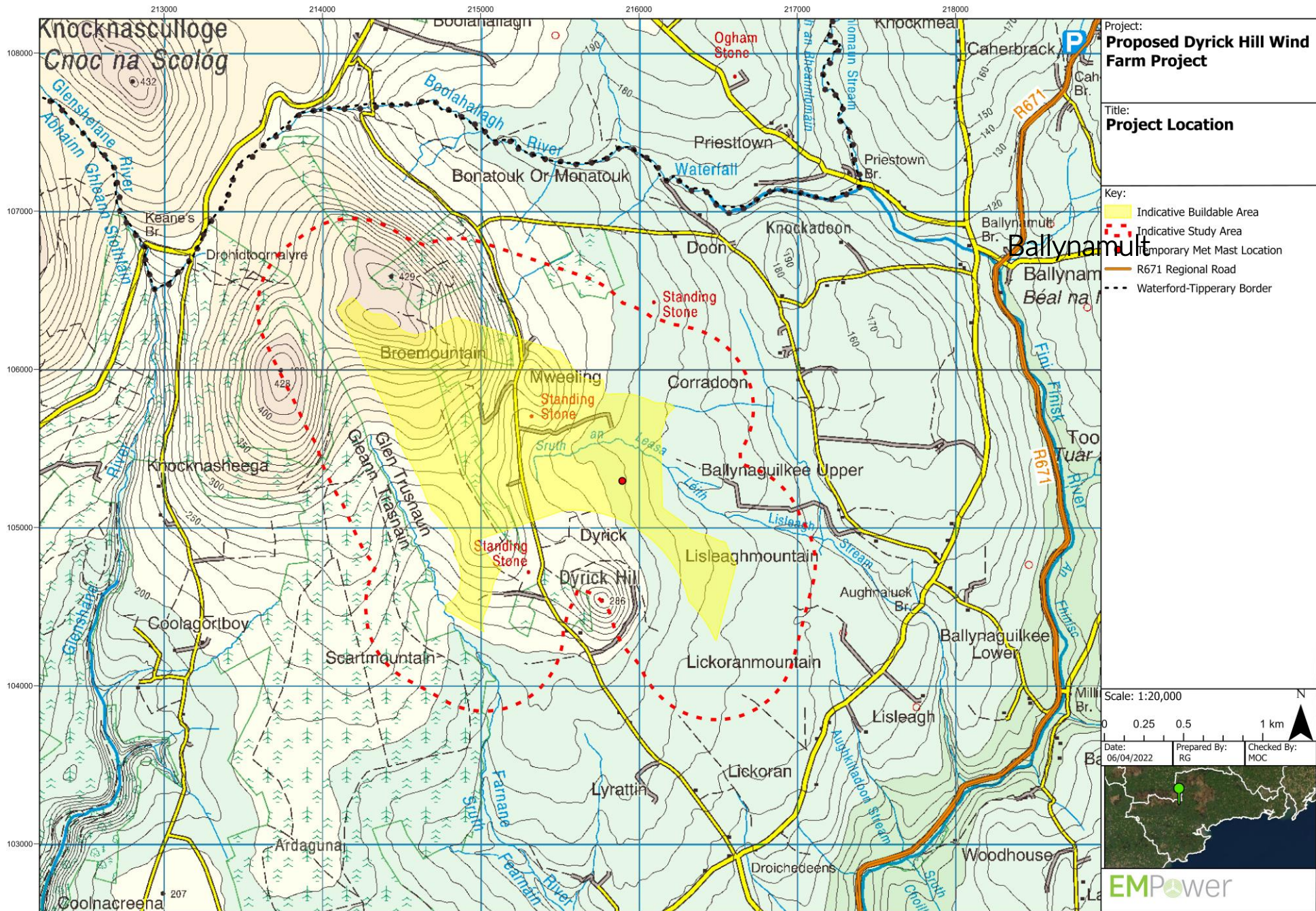
Legend

 Dyrick Hill Buildable Area

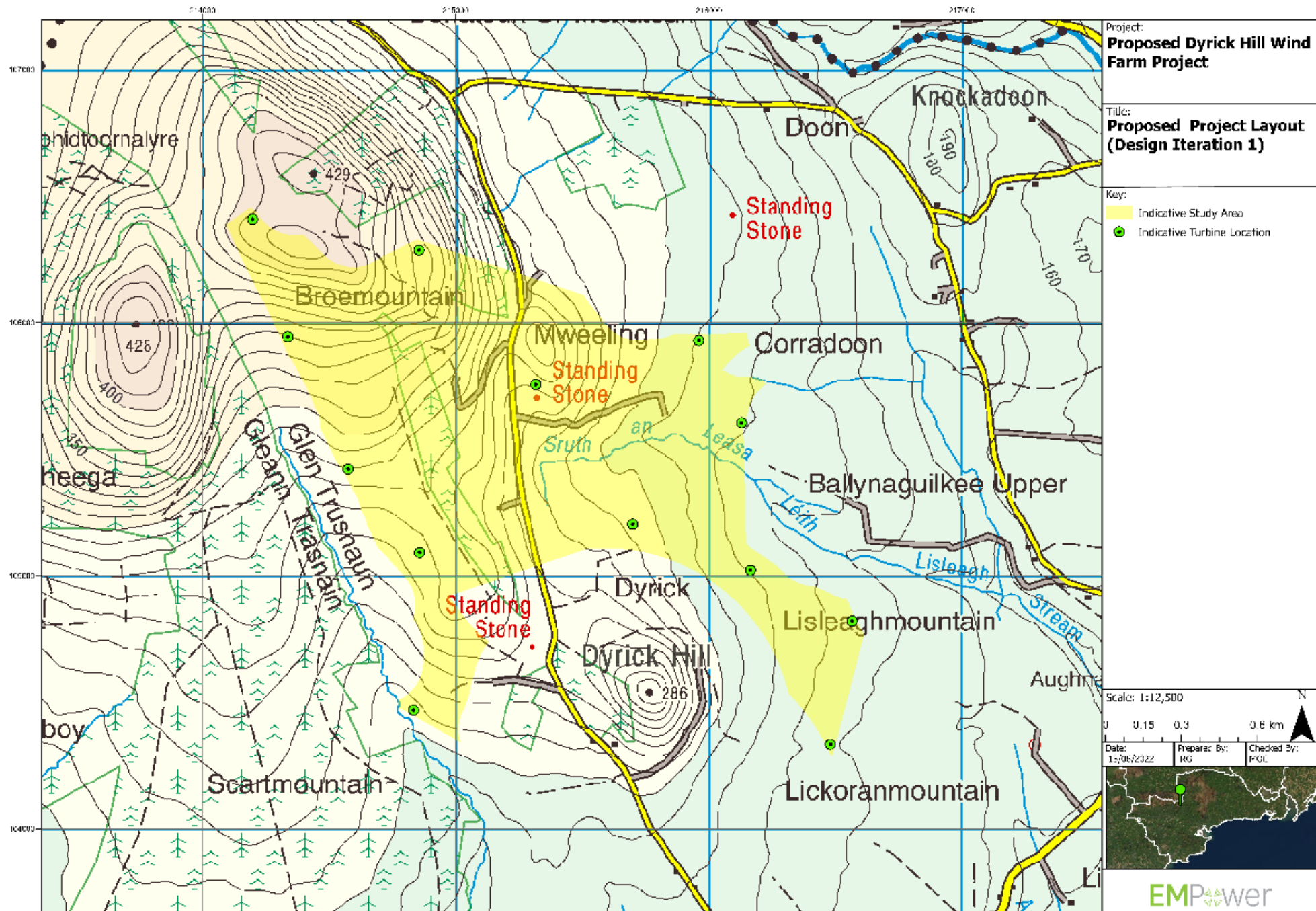
Screening analysis performed on the entire Republic of Ireland. Example of County Waterford shown.



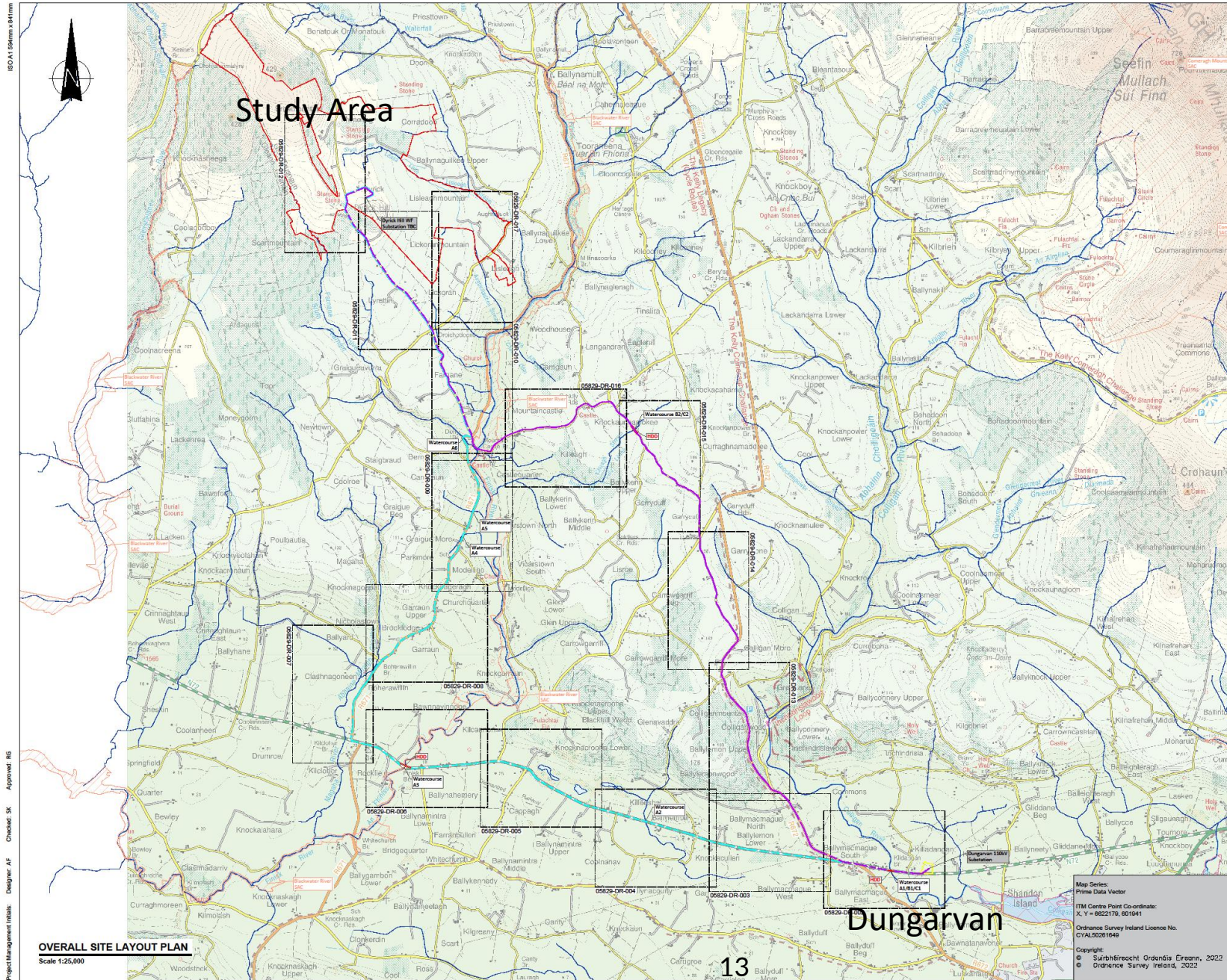
Project Study Area – Buildable Area



Project Study Area – Design Iteration 1



Grid Connection Assessment



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PROJECT
Dyrick Hill WF
110kV Grid Connection

CLIENT

CONSULTANTS

NOTES:
Routes shown are indicative only at this stage and subject to further assessment.
Additional services and watercourses may be encountered on the route.

- LEGEND:**
- UGC Option A (16.42km) shown thus —
 - UGC Option B (18.61km) shown thus —
 - Wind Farm Boundary shown thus —
 - River/ Lakes shown thus —
 - SAC shown thus
 - SPA shown thus
 - Dyrick Hill Wind Turbines shown thus ●

PROGRESS PRINT
06.07.2022

ISSUE/REVISION

NO	DATE	DESCRIPTION

PROJECT NUMBER
05-829

SHEET TITLE
Overall Site Layout Plan

SHEET NUMBER
05829-DR-001

Project Management Initials: Designer: AF Checked: SK Approved: RG

OVERALL SITE LAYOUT PLAN
Scale 1:25,000

Map Series:
Prime Data Vector
ITM Centre Point Co-ordinate:
X: Y: 6622170, 601941
Ordinance Survey Ireland Licence No.
CIVIL/02/1949
Copyright:
© Suirbhéireacht Ordnáis Éireann, 2022
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Grid Connection Assessment

ISO A1 594mm x 841mm
Project Management Initials: Designer: AF
Checked: SK
Approved: RG



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PROJECT
 Dyrick Hill WF
 110kV Grid Connection

CLIENT



CONSULTANTS

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- LEGEND:-**
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 - River/ Lakes shown thus ---
 - SAC shown thus
 - SFA shown thus
 - Dyrick Hill Wind Turbines Shown thus ●

PROGRESS PRINT
06.07.2022

ISSUE/REVISION

NO.	DATE	DESCRIPTION

FD1	25.05.22	Issued For Information
FD2	11.10.21	Issued For Information
IR1		
IR2		
IR3		

PROJECT NUMBER

05-829

SHEET TITLE
Overall Site Layout Plan

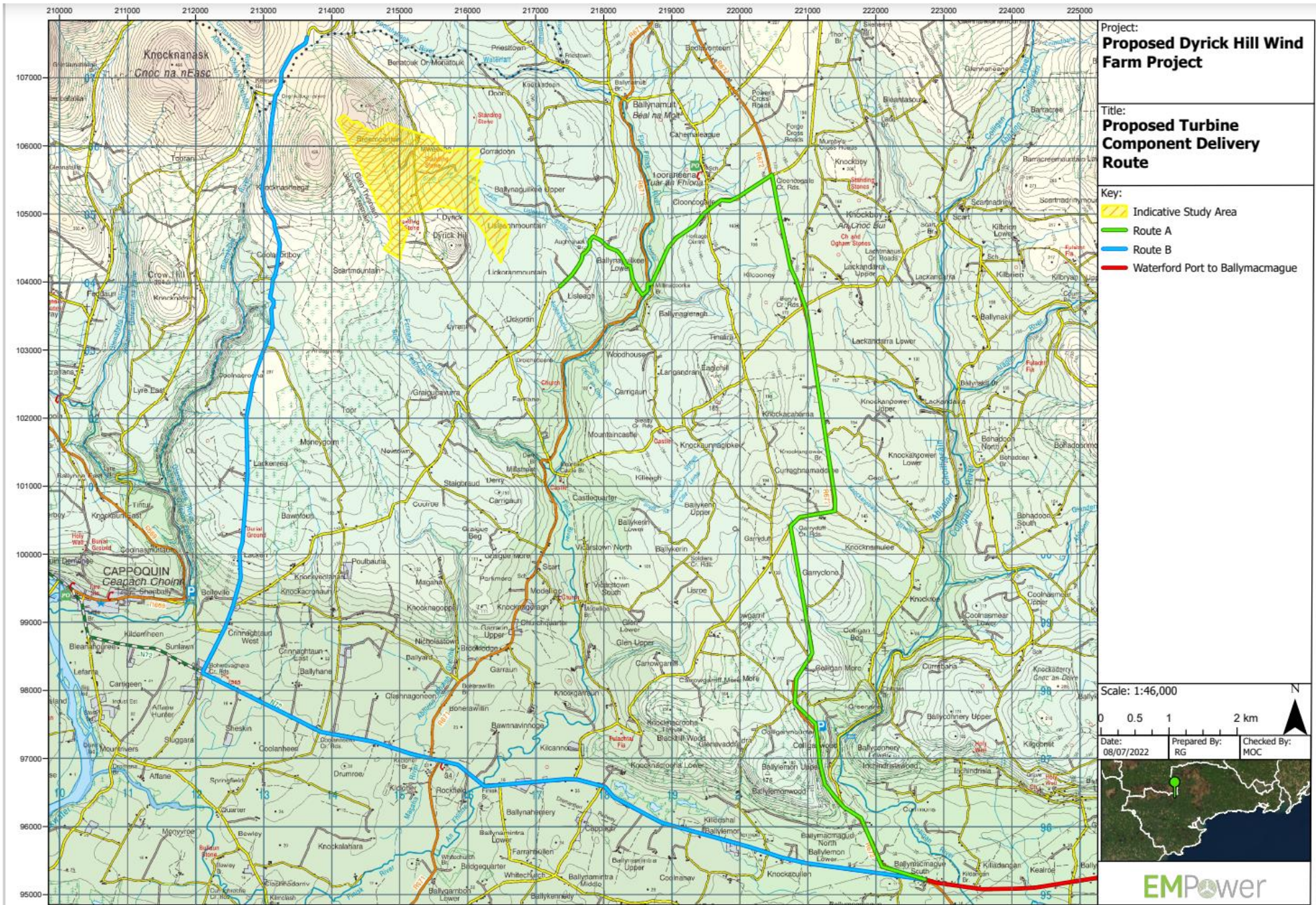
SHEET NUMBER
05829-DR-001

OVERALL SITE LAYOUT PLAN
Scale 1:25,000

Turbine Delivery Route Assessment

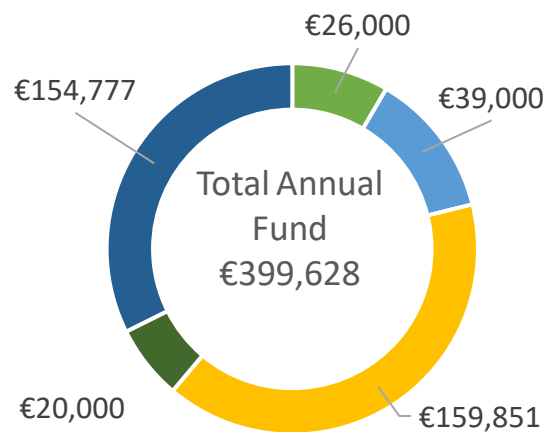


Turbine Delivery Route Assessment





Dyrick Hill Indicative Community Fund Allocation



- Combined Fund for Households <1km distance
- Combined Fund for Households >1km, <2km distance
- Not-for-profit community enterprises
- Fund administration
- Local initiatives, clubs and societies

€ 90 million¹

Investment in Irish infrastructure

€ 6 million¹

Total Community Fund Contribution

€ 22.5 million²

Approximate County Council Rates Contribution

137 Construction Jobs³

Direct Jobs in Construction Phase

32 Project Jobs⁴

Highly Skilled Jobs Over Project Lifetime

1 – Example for 13 Turbine project with a mega watt installed value of 80.6 MW

2 – Estimated €8,000 per mega watt installed for 35 year project lifespan

3 – 1.7 Jobs per MW (SEAI)

4 – 0.4 Jobs per MW (SEAI)

Project Schedule



Planning Submission to Consenting Authority Q4 - 2022

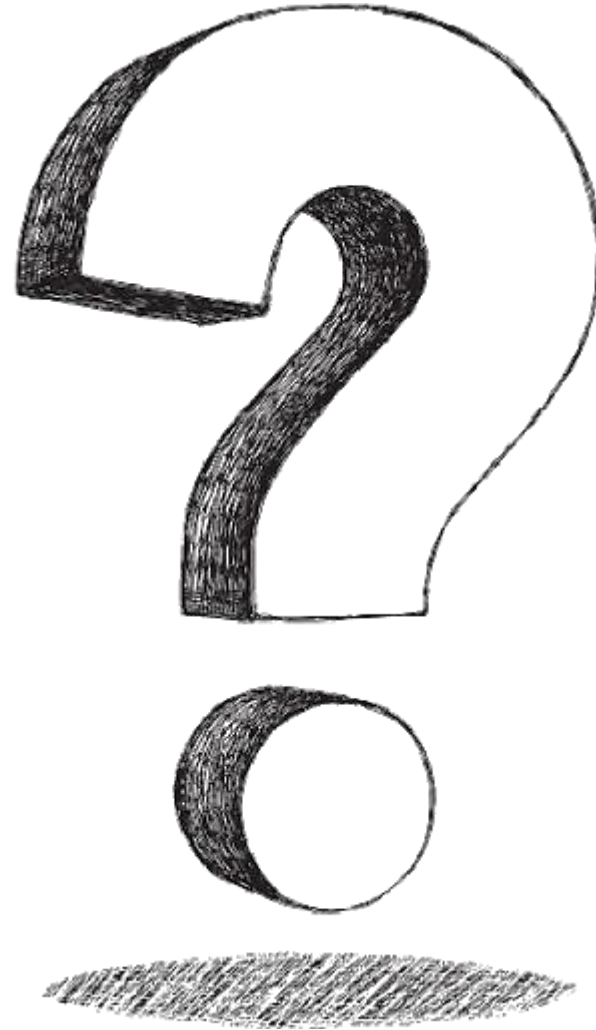
Grid Connection Submission Q2 - 2024

Detailed Project Design Q4 - 2024

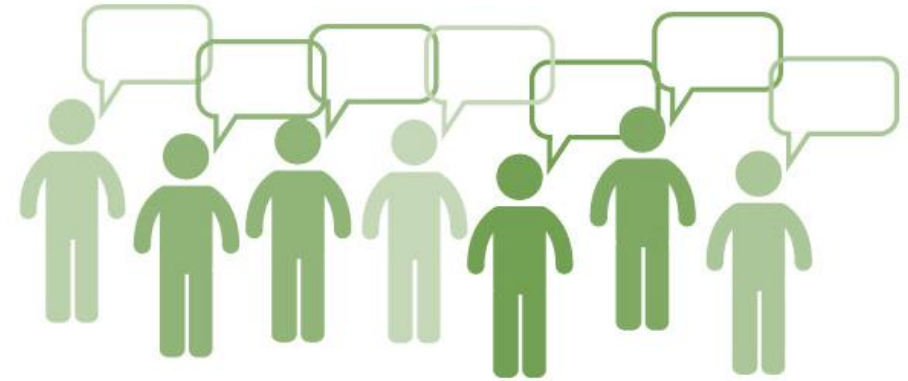
Construction Commences Q1 - 2025

Proposed Dyrick Hill Schedule	2020				2021				2022				2023				2024				2025				2026				2027			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Ornithology Studies																																
Planning Consultant (EIAR)																																
Stakeholder Consultation																																
Wind Measurement (Met Mast)																																
Planning Submission & Consideration																																
Grid Connection Application																																
Detailed Project Design																																
Project Construction																																
Project Operational																																

Note: Q1, Q2, Q3 and Q4 in the above schedule represent yearly quarters. For example, Q1 represent the first quarter of that year



Social Impact



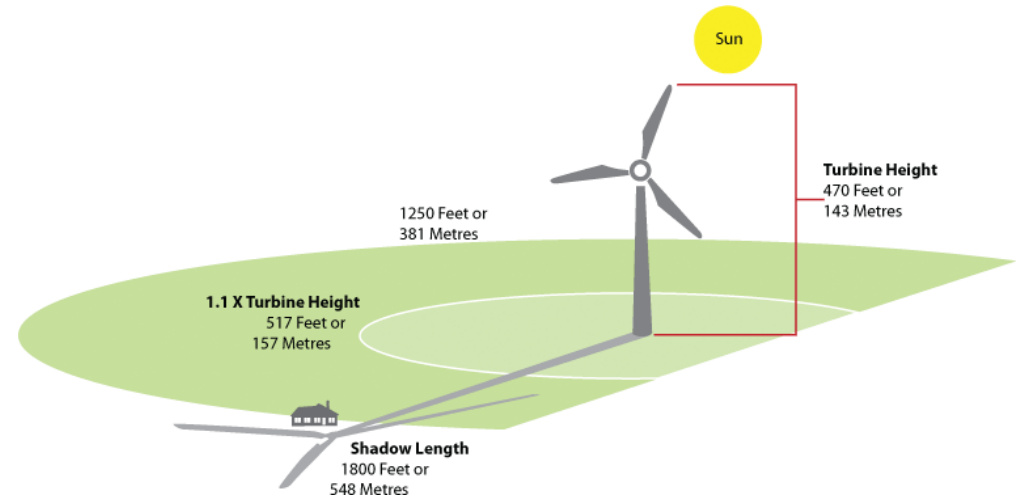
Flora & Fauna

Hydrology



Ornithology

Shadow Flicker



Sound

Construction and Civil Engineering

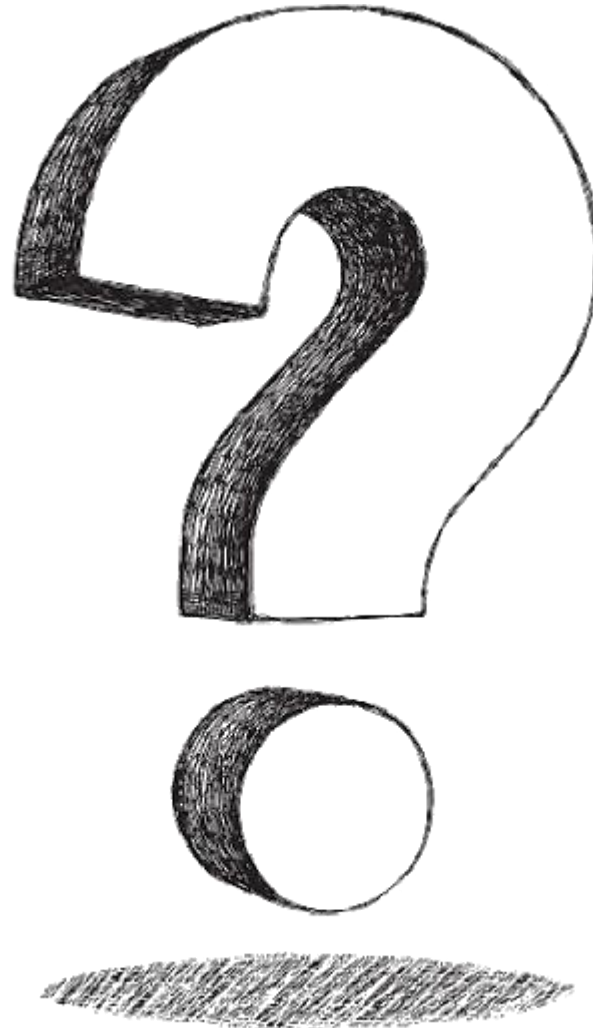


Archaeology



Virtual Community Consultation Room





Conclusion

- **Proposed Dyrick Hill Wind Farm Project**
 - Study Area capable of accommodating 13 wind turbines
 - Potentially 80.6 MW
 - 41,900 Irish homes powered

- **Community Fund**
 - €399,628 per year⁵
 - Min €1,000 per year (households <1km)
 - Min €500 per year (households >1km <2km)

- **Next Steps**
 - Design Iteration 2 and 3 progression
 - Ground investigation results analyses
 - Noise monitor results analyses
 - Turbine Component Delivery Route Options Assessed
 - Most Feasible Grid Connection Route
 - Community Engagement Continues



Please contact us at any stage if you have any further question or suggestions on this project proposal.

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Phone : 01 588 0178

Project website www.dyrickhillwindfarm.ie