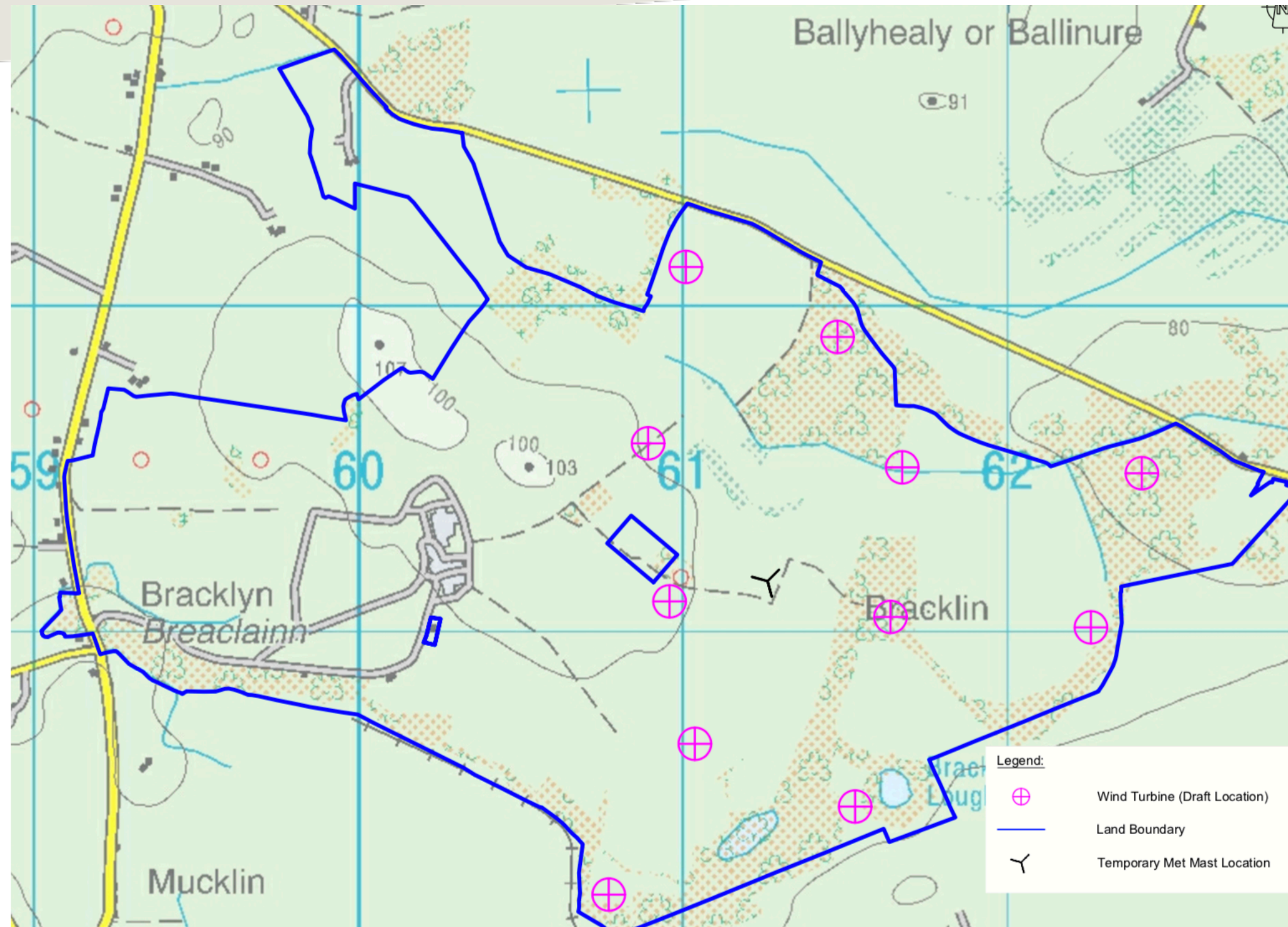


Bracklyn Wind Farm



www.bracklynwindfarm.ie

Bracklyn Wind Farm



Bracklyn Wind Farm

Proposed Project:

Assessment work at the proposed Bracklyn Wind Farm site has shown that it is capable of accommodating up to 60 Megawatts (MW) of installed generating capacity. The Project will essentially comprise of up to 11 wind turbines (5-6 Megawatts). Apart from the turbines themselves, the other principal components of the wind farm are the foundations to support the turbine towers, access roads, crane hard-standings, underground cables between the turbines, on-site electricity substation and an electrical connection to the appropriate node on the National Grid. The exact type of turbine that will be used has not yet been finalised, however in order not to underestimate any potential impacts, the largest physical dimensions of all of the wind turbines under construction have been used to assess the visual impact of the project. The maximum turbine envelope has a blade tip height of approx 180 meters.

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Wind Energy - Climate Action

Government policy has set a target for 70% of the electricity we consume by 2030 to be generated from renewable resources. Wind energy will be the main component of Ireland's renewable electricity by this time in order to play its part in achieving the European climate and energy ambitions.

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The Need for Wind Farm Capacity

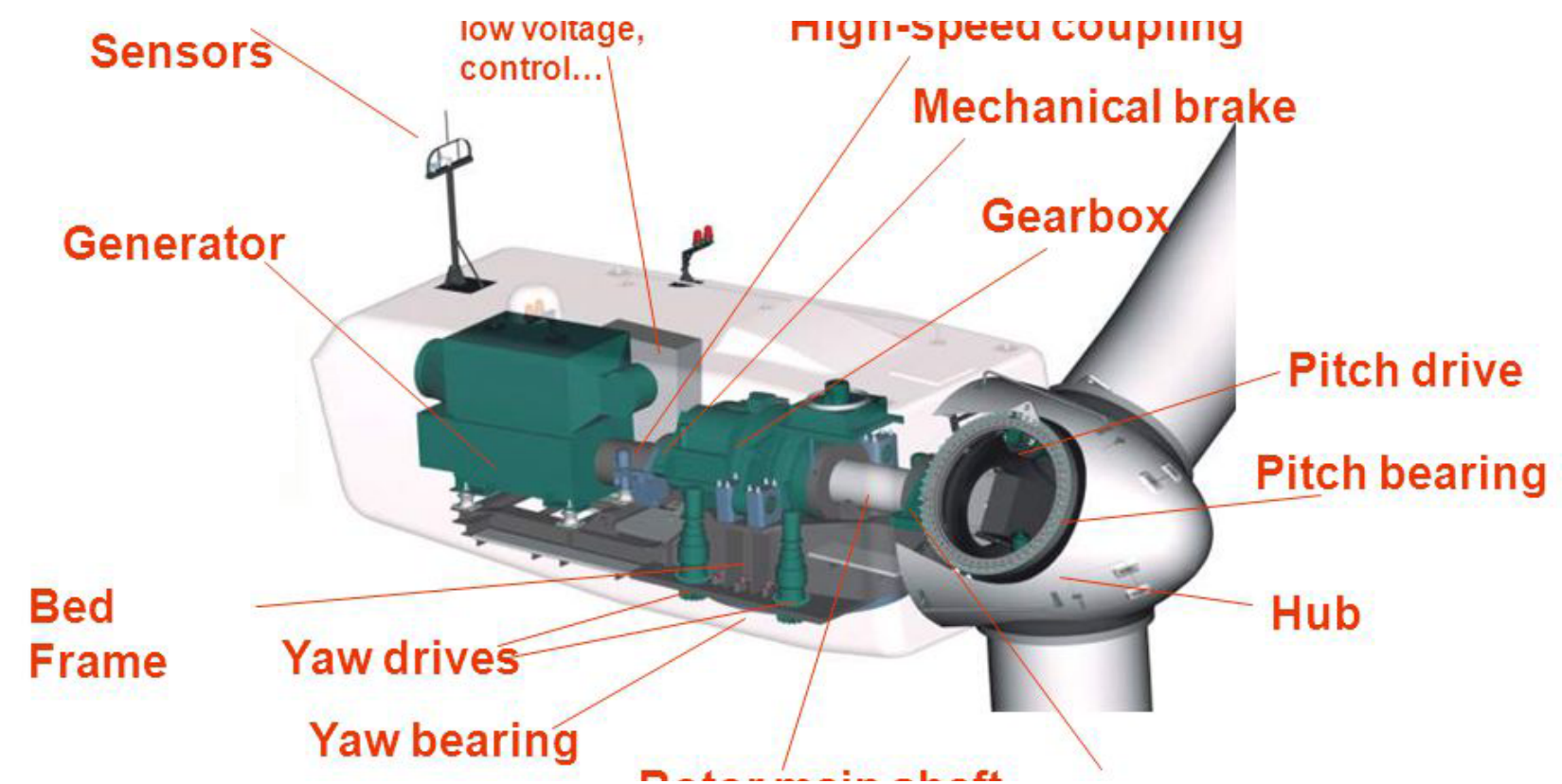
Government policy has set a target for 70% of the electricity consumed in 2030 to be generated from renewable resources, It is acknowledged that wind energy will provide the main component of Ireland's renewable electricity at that time in order to play it's part in achieving the European climate and energy ambitions.

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How Wind Turbines Operate:

Figure 2 – Nacelle & Hub Components

Wind turbines convert the kinetic energy in wind to generate electricity. To create electricity from wind, the blades capture the wind which drives the shaft connected to a gear box as shown in figure 2. The Tubular towers, carrying the nacelle and rotor, are made of steel or concrete and taper from their base to the top.



Type to enter a caption.

Bracklyn Wind Farm

Safety

Safety is our number 1 priority in the construction and operational phase of all our projects. There will be an opportunity to visit one of our operational wind farms to see how committed we are to health and safety by setting the highest standards.

Environment

Wind power is a low-carbon energy source. When a wind turbine generates electricity it produces virtually zero carbon emissions. The development of clean wind energy avoids significant carbon dioxide (CO₂) pollution. In 2019, wind energy met a record 32.5% of our electricity demand, the second highest in Europe and the highest in onshore wind.

** 65 % renewable energy on the national power system at any given time, a milestone reached in April 2017. Bracklyn Wind Farm will supply the needs of approximately 46,900 * homes with green energy every year, based on draft 11 turbine layout.

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Benefits of the Development

At National Level, the proposed Bracklyn Wind Farm will play a worthy part in assisting Ireland's commitment to increasing its renewable energy sources in the post 2020 period with the production of renewable electricity.

Our Government's new pledge on the 25th March 2019 to generate 70% of electricity from renewable sources by 2030 is an increase from its previous target of 55% and will form part of the new Climate Action Plan that is being overseen by the present Minister for Communications, Climate Action, and the Environment.

Our proposed Bracklyn project will contribute in reducing our total National greenhouse gas emissions. In doing so, it will reduce our dependence on external energy sources and help to improve our energy security of supply.

Bracklyn Wind Farm

At Regional Level, this new proposed development will help to meet the rising demand for electricity especially renewable electricity, resulting from renewed economic growth in the Midlands. The construction phase will create additional employment in the region through the supply of services and materials to the proposed wind farm.

At Local Level, it will ensure the continuity of enterprise and employment in the area. It is expected that up to 100 workers would be employed on the project at peak. It will also support long term high quality technical jobs in operation and maintenance as well as ancillary functions. Once in operation the rates that will be paid by Bracklyn Wind Farm to Westmeath County Council will support the provision of local services. A range of other benefits associated with the development will be provided to the community. There will be a community fund set up in accordance with the Irish Wind Energy Association (IWEA) best practice and it will be available to the community.

Bracklyn Wind Farm

PROJECT MILESTONES AND TIMELINES

Oct 2016-Dec 2022

Initial Project Feasibility & Baseline Surveys

May 2020 - Dec 2025

Community Consultation & Stakeholder Engagement

Dec 2019 - Dec 2020

Detailed Surveys & Engineering Design

Winter 2020

Final Turbine Layout & Design Proposals

Winter 2020 - Spring 2021

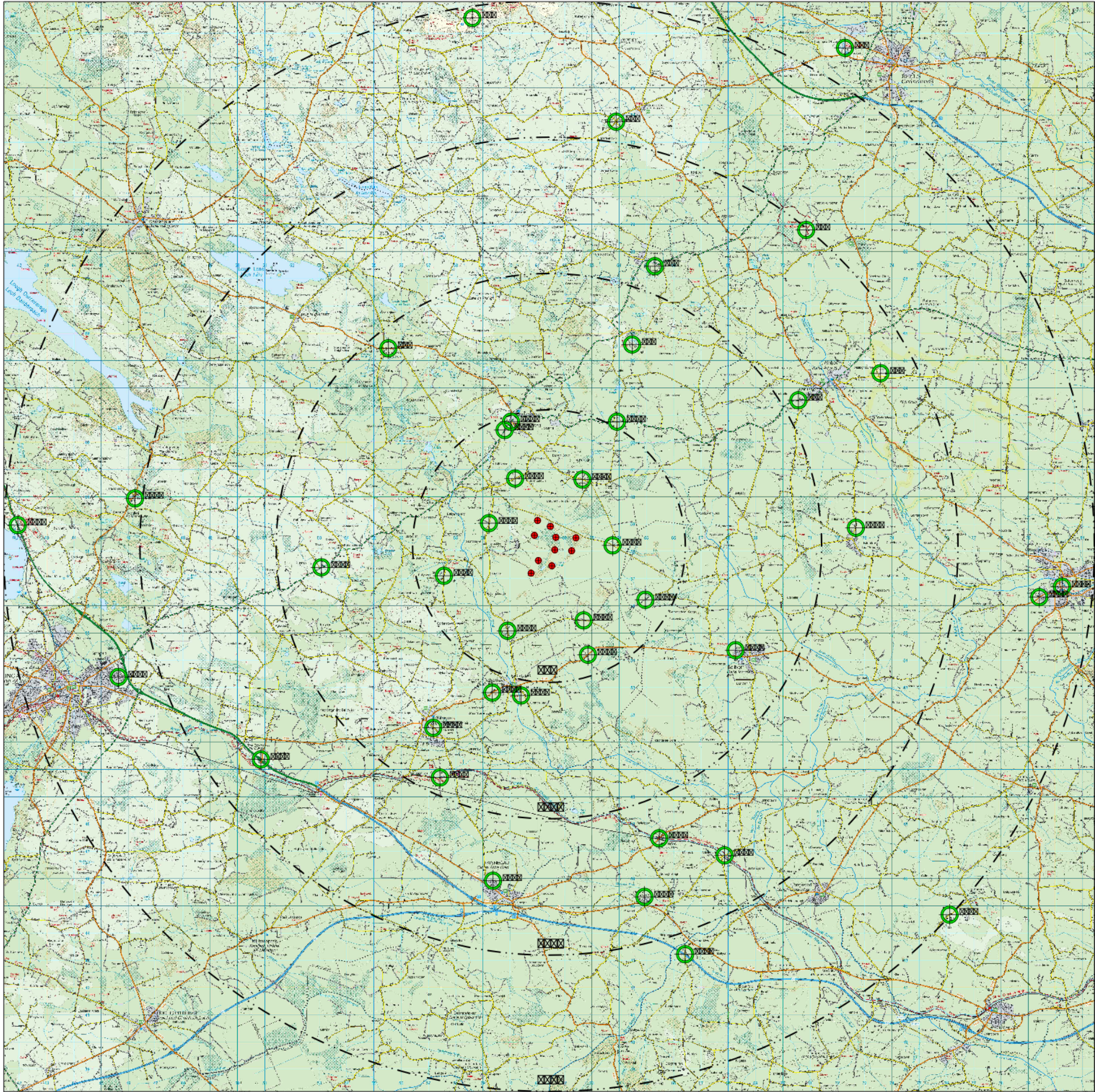
Planning Application completion & submission

Further Projects Milestones

Planning Decision will determine Further Project Milestones







Description:
Location of Viewshed Reference
Points for the proposed wind
farm

A photomontage was prepared
from each Viewshed Reference
Point



Legend:

Viewshed Reference Points

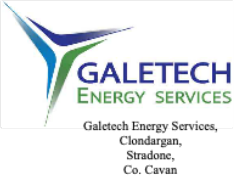


Proposed Wind Turbine Location



Date:	Rev:	Description:	Drawn By:
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Prepared by:



Client:

Bracklyn Wind Ltd

Job Title:

Photomontages & ZTV Maps

Drawing Title:

Figure 1: DRAFT Location of VRPs

Drawing No.:	Revision No.:
DRAFT_PAS_PHO_01	0

Scale:	Date:
(A1) 1:75,000	08/07/2020

Drawn By:	Checked By:	Confirmed By:
C.M.P	J.B	S.C



Existing Landscape

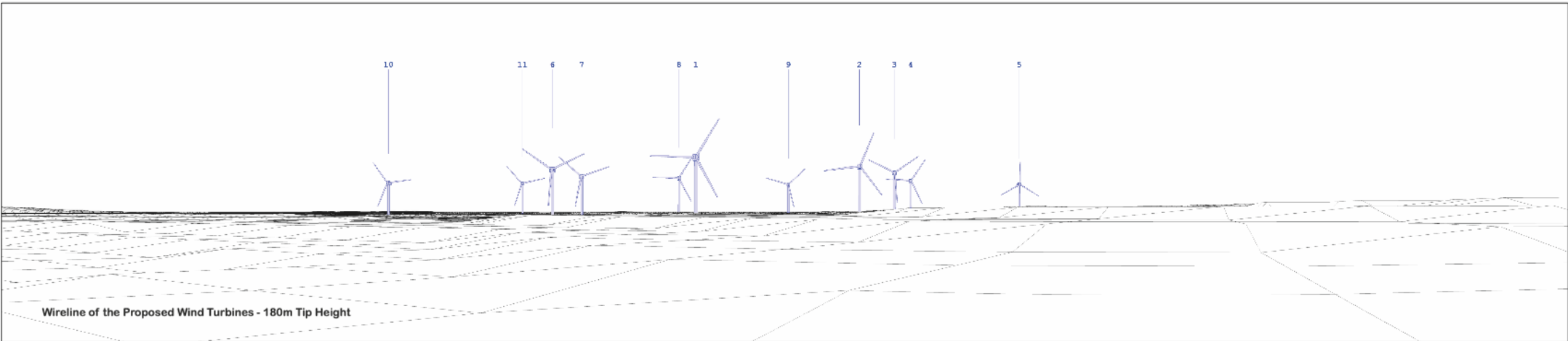


Proposed Wind Turbines - 180m Tip Height



Figure 2:
DRAFT VRP 13 - Existing Landscape & Photomontage of the Proposed Wind Turbines

OS Reference:	660123E, 760690N (TMS)	Horizontal field of View:	90° (Far Projection)	Camera:	Nikon EOS 6D
Viewpoint Elevation:	92m AOD	Principal distance:	300mm	Lens:	50mm (Nikon f/1.8)
Direction of View:	157 degrees	Correct Printed Image Size:	600mm x 260mm	Camera height:	1.5m AGL
Nearest Turbine:	1,746m to Turbine T1	Turbine Dimensions:	101m Hub - 158m Rotor	Date & Time:	02/07/2020 14:02



Wireline of the Proposed Wind Turbines - 180m Tip Height



Proposed Wind Turbines - 180m Tip Height



Figure 3:
DRAFT VRP 13 - Wireline & Photomontage of the Proposed Turbines

OS Reference:	660123E, 760690N (TMS)	Horizontal field of View:	90° (Far Projection)	Camera:	Nikon EOS 6D
Viewpoint Elevation:	92m AOD	Principal distance:	300mm	Lens:	50mm (Nikon f/1.8)
Direction of View:	157 degrees	Correct Printed Image Size:	600mm x 260mm	Camera height:	1.5m AGL
Nearest Turbine:	1,746m to Turbine T1	Turbine Dimensions:	101m Hub - 158m Rotor	Date & Time:	02/07/2020 14:02



Existing Landscape

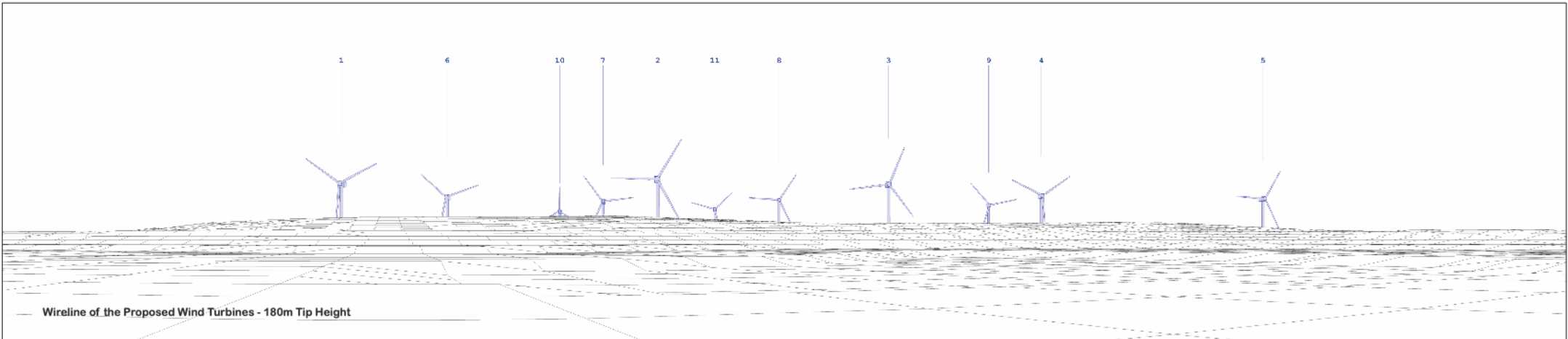


Proposed Wind Turbines - 180m Tip Height



Figure 4:
DRAFT VRP 18 - Existing Landscape & Photomontage of the Proposed Wind Turbines

OS Reference:	659165E, 759065N (T24)	Horizontal field of View:	90° (off the Projection)	Camera:	Nikon EOS 6D
Viewpoint Elevation:	83m AOD	Principal distance:	300mm	Lens:	50mm (Nikon f/1.8)
Direction of View:	113 degrees	Correct Printed Image Size:	600mm x 260mm	Camera height:	1.5m AGL
Nearest Turbine:	1725m to Turbine T2	Turbine Dimensions:	101m Hub - 158m Rotor	Date & Time:	02/07/2020 12:33



Wireline of the Proposed Wind Turbines - 180m Tip Height



Proposed Wind Turbines - 180m Tip Height




Figure 5:
DRAFT VRP 18 - Wireline & Photomontage of the Proposed Turbines

OS Reference:	659165E, 759065N (T24)	Horizontal field of View:	90° (off the Projection)	Camera:	Nikon EOS 6D
Viewpoint Elevation:	83m AOD	Principal distance:	300mm	Lens:	50mm (Nikon f/1.8)
Direction of View:	113 degrees	Correct Printed Image Size:	600mm x 260mm	Camera height:	1.5m AGL
Nearest Turbine:	1725m to Turbine T2	Turbine Dimensions:	101m Hub - 158m Rotor	Date & Time:	02/07/2020 12:33



Figure 6:
DRAFT VRP 19 - Existing Landscape & Photomontage of the Proposed Wind Turbines

OS Reference:	663714E, 758786N (UTM)	Horizontal field of View:	90° (Full Projection)	Camera:	Nikon EOS 6D
Viewpoint Elevation:	79m AOD	Principal distance:	300mm	Lens:	50mm (Nikon F1.8)
Direction of View:	257 degrees	Correct Printed Image Size:	600mm x 260mm	Camera height:	1.5m AGL
Nearest Turbine:	1391m to Turbine T10	Turbine Dimensions:	101m Hub - 158m Rotor	Date & Time:	02/07/2020 14:30

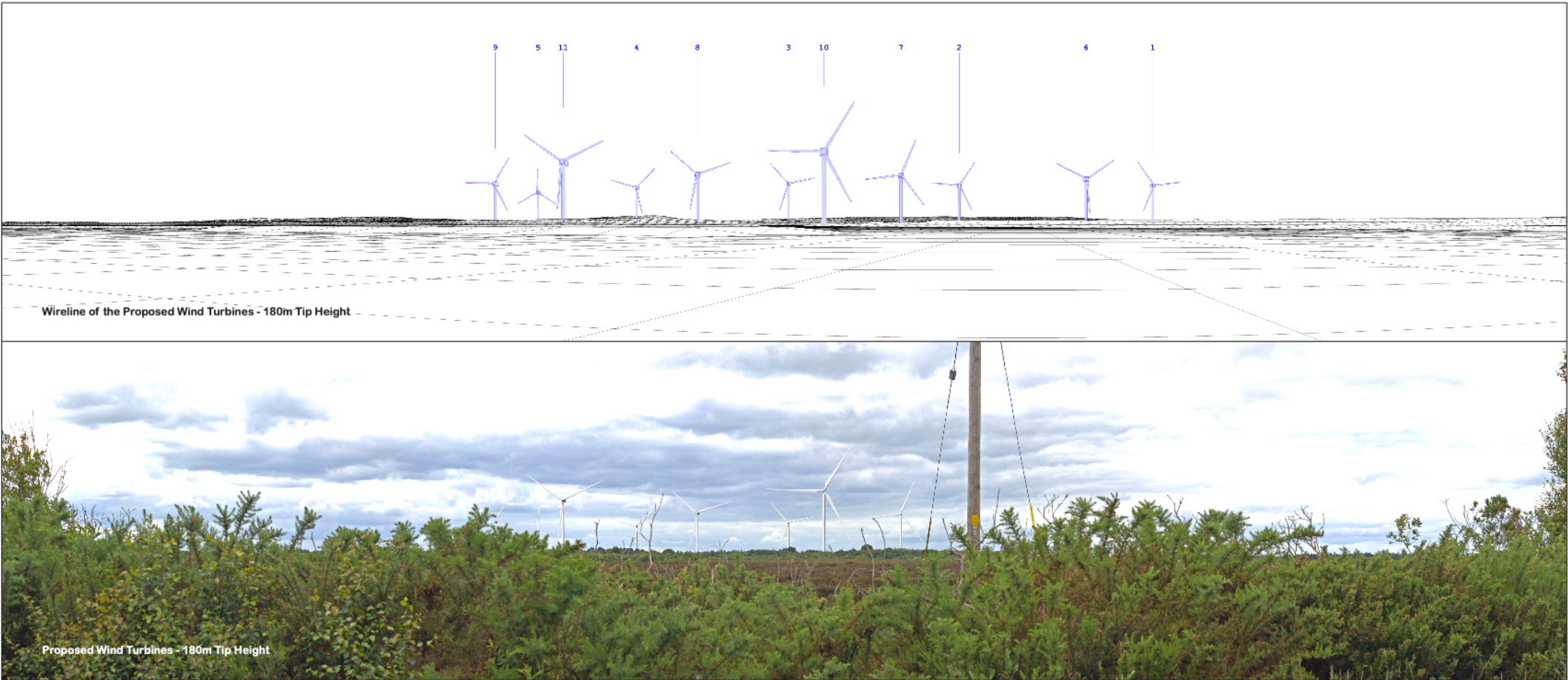


Figure 7:
DRAFT VRP 19 - Wireline & Photomontage of the Proposed Turbines

OS Reference:	663714E, 758786N (UTM)	Horizontal field of View:	90° (Full Projection)	Camera:	Nikon EOS 6D
Viewpoint Elevation:	79m AOD	Principal distance:	300mm	Lens:	50mm (Nikon F1.8)
Direction of View:	257 degrees	Correct Printed Image Size:	600mm x 260mm	Camera height:	1.5m AGL
Nearest Turbine:	1391m to Turbine T10	Turbine Dimensions:	101m Hub - 158m Rotor	Date & Time:	02/07/2020 14:30

Bracklyn Wind Farm

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