

An  
Coimisiún  
Pleanála

## Inspector's Report

**ABP-322258-25**

**Development**

Proposed development of up to 14 no. Wind turbines, 110kV Substation, 110kV Grid Connection & all Associated works

**Location**

Located in the townlands of Cloonshanville, Leggatinty, Ballynahowna, Ballaghcullia, Drummin, Loughbally, Carrigeenynaghtan, Carrigeen, Tonaknick, Carrigeenacreeha, Brackloon, Peak, Cloonkerin, Edenan and Kinclare, Gortnacloy, Tartan, Runnacocka and Scor Beg, Co. Roscommon.

**Prospective Applicant(s)**

Carraigin Power Limited.

**Type of Application**

Pre-Application Consultation under Section 37B of the Planning and Development Act 2000, as amended.

**Planning Authority**

Roscommon County Council

**Date of Site Inspection**

28<sup>th</sup> May 2025

**Inspector**

Paul Kelly

## **1. Introduction**

The Commission received a request on 8<sup>th</sup> April, 2025 from Jennings O'Donovan & Partners Limited, acting on behalf of Carraigin Power Limited ("the prospective applicant") to enter into pre-application consultations under Section 37B of the Planning and Development Act, 2000, as amended, in relation to a proposed development consisting of up to 14no. wind turbines, 110kV substation, 110kV Grid Connection Route (GCR) & associated works in the townlands of Cloonshanville, Leggatinty, Ballynahowna, Ballaghcullia, Drummin, Loughbally, Carrigeenynaghtan, Carrigeen, Tonaknick, Carrigeenacreeha, Brackloon, Peak, Cloonkerin, Edenan and Kinclare, Gortnacloy, Tartan, Runnacocka and Scor Beg, Co. Roscommon.

A first consultation meeting was held between the Commission and the prospective applicant on 15<sup>th</sup> May 2025. A second consultation meeting was held between the Commission and the prospective applicant on 14<sup>th</sup> October 2025 and at which the prospective applicant confirmed that the total number of proposed wind turbines was 11no. A record of each meeting is on file. The prospective applicant sought closure of the pre-application consultation by correspondence dated 4<sup>th</sup> December 2025.

## **2. Site Location**

The subject site is located in northwest County Roscommon, approx. 2km east of Frenchpark, 14km east of Ballaghaderreen and 11km south of Boyle. It is located in proximity to the National Primary Road N5 (on the northern side) and is primarily accessed via local roads from the regional road R361 at Frenchpark. The proposed GCR crosses the N61 to the east of the site.

The site primarily consists of flat peatlands (cutover and raised bog) and forestry (conifer plantations). The area is rural and sparsely populated, with limited sporadic one-off rural dwellings in the wider environs of the site.

## **3. Description of Proposal**

While the original Pre-Application request referenced up to 14 turbines, the proposed development at the time of the closure request comprises the following:

- 11 no. wind turbines with a total rated power output of 62.7MW,
- 6 no. temporary construction compounds,
- 1 no. Met Mast of 30m,
- 1 no. permanent onsite 110kV substation,
- Underground Grid Connection (110kV) over a distance of c.17km to the existing Flagford 220kV substation (to the east of the site), and
- All associated ancillary and site development works.

The prospective applicant confirmed that design flexibility was not being sought and that the proposed turbines were Nordex N163 5.X with a tip height of 185m, a rotor diameter of 163m, and a hub height of 103.5m with an individual turbine output of 5.7MW.

#### **4. Planning History**

I am not aware of any relevant planning history relating to the proposed application site.

The Commission may wish to note that the N5 Ballaghaderreen to Scramoge Road Development and associated CPO was permitted on lands, which includes lands to the south of the proposed development site in the area of Frenchpark. ABP-300493-17 refers. This project is currently under construction.

The Commission may wish to note that the closest wind farm is the permitted 'Leam Windfarm' which consists of 2 no. wind turbines at a distance of approx. 6km to the north/north-west of the proposed development site. ABP-314120-22 refers.

#### **5. Precedent Decisions**

The following table outlines a sample of other SID pre-application determinations for wind farm developments of similar scales decided by the Commission:

ACP Ref:	Location	Development Summary	ACP Decision

321507	Galway	11 turbines. Output of 62 to 73MW.	Is SID
320745	Limerick	17 turbines. Output of 75MW to 95MW	Is SID
320703	Mayo	19 turbines. Output of 70.05MW	Is SID
319601	Waterford	15 turbines. Output of 85.5MW to 108MW	Is SID
319219	Kerry	17 turbines. Output of 114MW to 136.8MW	Is SID
319215	Clare	9 turbines. Output of 51.3MW to 64.8MW	Is SID
319139	Limerick	9 turbines. Output of 54MW	Is SID
318203	Offaly	9 turbines. Output of 54.4MW	Is SID

## 6. Pre-Application Consultation Meetings Held

### Meeting No.1

The first pre-application consultation meeting was held between the Commission and the prospective applicant on 15<sup>th</sup> May 2025. Full details of the meeting and matters discussed are contained in the Commissions record of the meeting.

The principal matters arising related to:

- Policy Context
- Clarification of grid connection proposals and Design Flexibility position.
- Clarification of Turbine Delivery Route and accommodation works.
- Preparation of the EIAR and ongoing surveys including: habitats, protected species, aquatic, bats and ornithology

- Landscape and visual
- Archaeology and cultural heritage
- Noise
- Hydrology, hydrogeology and geology.
- Shadow Flicker
- The relationship of the proposed development site with national and European Sites
- Peat stability and landslide susceptibility
- Water Framework Directive
- Cumulative considerations
- Consultations and community engagement

## **Meeting No.2**

The second pre-application consultation meeting was held between the Commission and the prospective applicant on 14<sup>th</sup> October 2025. Full details of the meeting and matters discussed are contained in the Commissions record of the meeting.

The principal matters arising related to:

- Update on development proposal
- Update on environmental and ecological considerations including the potential for significant effects on a number of European sites.

The Commissions representatives noted that many of the required studies remained a work in progress, and that certain matters (such as access arrangements or red line boundaries of the site) were not confirmed. The prospective applicant was advised that further consideration of the elements of the proposed development would be required and that a further meeting would be advisable.

## **7. Legislation**

### **7.1 Planning and Development Act 2000, as amended**

Section 2(1) of the Planning and Development Act 2000, as amended ('the Act'), defines 'strategic infrastructure' as including, *inter alia*:

- (a) any proposed development in respect of which a notice has been served under section 37B(4)(a),

Section 37A of the Act states that:

- (1) An application for permission for any development specified in the Seventh Schedule (inserted by the Planning and Development (Strategic Infrastructure) Act 2006) shall, if the following condition is satisfied, be made to the Commission under section 37E and not to a planning authority.
- (2) That condition is that, following consultations under section 37B, the Commission serves on the prospective applicant a notice in writing under that section stating that, in the opinion of the Commission, the proposed development would, if carried out, fall within one or more of the following paragraphs, namely—

- (a) the development would be of strategic economic or social importance to the State or the region in which it would be situate,
- (b) the development would contribute substantially to the fulfilment of any of the objectives in the National Planning Framework or in any regional spatial and economic strategy in force in respect of the area or areas in which it would be situate
- (c) the development would have a significant effect on the area of more than one planning authority.

The current SID thresholds are set out within the 7th Schedule of the Planning and Development Act 2000, as amended. The relevant threshold for the proposed project is Class 1 –

*'an installation for the harnessing of wind power for energy production (a wind farm) with more than 25 turbines or having a total output greater than 50 megawatts'.*

## **7.2 Environmental Impact Assessment**

Section 37E(1) of the Planning and Development Act, 2000, as amended, requires that an application for permission for development in respect of which a notice has been served under section 37B(4)(a) shall be made to the Commission and shall be

accompanied by an environmental impact assessment report in respect of the proposed development. Therefore, the submission of an EIAR is mandatory.

### **7.3 Appropriate Assessment**

The nearest Natura 2000 site is Cloonshanvile Bog Special Area of Conservation (SAC) (Site Code: 000614) c. 235 metres to the northwest of the site (and Turbine T01). Bellanagare Bog Special Protection Area (SPA) (Site Code: 004105) and Bellanagare Bog Special Area of Conservation (SAC) (Site Code: 000592) are located 2.1km to the southwest of the site. Callow Bog Special Area of Conservation (SAC) (Site Code: 000595) and Lough Gara Special Protection Area (SPA) (Site Code: 004048) is located approx. 7km to the northwest of the site.

The applicant intends to submit a Natura Impact Statement (NIS).

## **8. Assessment**

### **8.1 Seventh Schedule Development**

The proposed development will comprise of 11 no. wind turbines with a total rated power output of 62.7 MW.

The current SID thresholds are set out within the 7th Schedule of the Planning and Development Act 2000, as amended. The relevant threshold for the proposed project is:

(Energy Infrastructure)

Class 1: “*an installation for the harnessing of wind power for energy production (a wind farm) with more than 25 turbines or having a total output greater than 50 megawatts*”.

Having regard to the total rated power output (62.7MW) of the proposed development, I am satisfied that the development accords with Section 37A(1) of the Act.

### **8.2 Section 37A(2) Criteria**

In addition to meeting the relevant SID threshold under Section 37A(1) of the Act, under Section 37A(2) the proposed development must also fall within one or more of the following conditions:

**(a) the development would be of strategic economic or social importance to the State or the region in which it would be situate**

The prospective applicant submits that the proposed development will be of significant strategic economic and social importance to the region and the State and therefore satisfies condition No.37A(2)(a) of the Act. This is based on the significant employment and economic activity generated at construction stage, and the significant contribution which will be made to meeting Ireland's renewable energy targets at operational stage.

Irelands obligations under EU and international treaties, including the Paris Agreement (2015) and the European Green Deal, are framed in the national climate objective under the Climate Action and Low Carbon Development Act, 2015, as amended. This national climate objective commits Ireland to becoming a climate resilient, carbon neutral economy by 2050, reducing emissions by 51% by the end of the decade (2030). To achieve this objective, Climate Action Plan 2024 (CAP 24) provides that a 75% reduction in emissions in the electricity sector is required by 2030 (based on 2018 levels) and that central to achieving this is the strategic increase in the share of renewable energy to 80% by 2030, including ambitious targets of deploying 9GW of onshore wind. Published on 15<sup>th</sup> April 2025, Climate Action Plan 2025 (CAP25) reaffirms these renewable energy generation targets.

In national policy terms Project Ireland 2040 is the Government's long-term overarching strategy to make Ireland a better country for all and to build a more resilient and sustainable future. Part of Project Ireland 2040, the National Planning Framework (NPF) sets out to deliver a spatial strategy through National Strategic Outcomes ("NSO's"), including: "*transition to a low carbon and climate resilient society*". The first revision of the NPF (April, 2025) introduces regional renewable electricity capacity allocations to be achieved by 2030, which for the Northern and Western Regional Area, is an additional 1,389MW for onshore wind or 35% of the National share. This is the minimum required for onshore wind generation to meet the 2030 emissions reduction target in the electricity sector.

I am satisfied that the proposed development, through an additional 62.7MW of renewable electricity generation, will contribute to the transition to a low carbon, climate resilient and environmentally sustainable economy in line with national climate change obligations, objectives and targets. I further consider that the proposed development would involve significant capital investment in the region and will create employment opportunities relating to the construction, operation and decommissioning of the development, which together with commercial rates, development contributions, community gain and infrastructure improvements will result in a significant impact on the economic profile of the area and investment in the region.

Having regard to the national and regional policy context and the details of the subject proposal outlined above, I am satisfied that the development **would** be of strategic economic importance to the State and the Region and **would**, therefore, comply with the condition set out in section 37A(2)(a) of the Act.

***(b) the development would contribute substantially to the fulfilment of any of the objectives in the National Planning Framework or in any regional spatial and economic strategy in force in respect of the area or areas in which it would be situate,***

The prospective applicant submits that the proposed development will meet the climate change objectives of Project Ireland 2040 and the NPF and will contribute significantly to the renewable energy targets and strategy supported in the Regional Spatial Economic Strategy (RSES) for the north-western region.

As stated in the preceding section, Project Ireland 2040, which includes the NPF, is the Government's long-term overarching strategy to build a more resilient and sustainable future. Having reviewed the recently revised NPF (First Revision, April 2025) I note the following relevant National Policy Objectives (NPOs):

- *"Reduce our carbon footprint by integrating climate action into the planning system in support of national targets for climate policy mitigation and adaptation objectives, as well as targets for greenhouse gas emissions reductions as expressed in the most recently adopted carbon budgets" -*

**NPO69**

- “Promote renewable energy use and generation at appropriate locations within the built and natural environment to meet national objectives towards achieving a climate neutral economy by 2050” - **NPO70**
- “Each Regional Assembly must plan, through their RSES, for the delivery of the regional renewable electricity capacity allocations indicated for onshore wind and solar reflection in Table 9.1, and identify allocations for each of the local authorities, based on the best available scientific evidence and in accordance with legislative requirements, in order to meet the overall national target” – **NPO74**

\* Table 9.1 (NPO 74) sets a regional renewable electricity capacity allocation of 1,389MW for onshore wind for the northern and western region by 2030.

The current Regional Spatial and Economic Strategy for the Northern and Western Region (2020-2032) recognises the national objective to achieve transition to a competitive, low carbon, climate resilient and environmentally sustainable economy by 2050. The commitment to a reduction of greenhouse gases and power generation from sustainably produced electricity are also acknowledged. The RSES sets out five growth ambitions which includes focussing on the aggressive pursuit of a low carbon approach to enhance regional differentiation and the provision and maintenance of energy infrastructure to deliver compact growth and a connected, vibrant, inclusive, resilient and smart region. It includes a set of Regional Policy Objectives (RPOs) of which the following are note:

- “to encourage the development of the transmission and distribution grids to facilitate the development of renewable energy projects and the effective utilisation of the energy generated from renewable resources having regard to the future potential of the region over the lifetime of the strategy and beyond” – **RPO 4.17**
- “to support the development of secure, reliable and safe supplies of renewable energy, to maximise their value, maintain inward investment, support indigenous industry and create jobs” – **RPO 4.18**

In this regard I consider that the proposed development to generate 62.7MW of renewable energy by using wind as a resource would assist in reducing greenhouse

gas emissions and would contribute significantly towards the achievement of a low carbon economy.

Having regard to the above, I am satisfied that the development **would** meet relevant national policy objectives of the NPF and **would** serve to fulfil the relevant regional policy objectives of the RSES for the Northern and Western Regional Assembly. The development would, therefore, satisfy the requirement set out in section 37A(2)(b) of the Act.

***(c) the development would have a significant effect on the area of more than one planning authority.***

The proposed development site and grid connection is located entirely within the Roscommon County Council administrative area. However, it is located approx. 6km (south) of the administrative area of Sligo County Council. I note that the initial ZTV studies indicate that 57.2% of a 20km study area will have theoretical visibility of the proposed turbines as well as existing, permitted or in-planning turbines, and that a significant proportion of the 20km study area will have theoretical visibility of 9-11 turbines. The proposed development site is also hydrologically linked to Lough Gara within Co. Sligo which is both a European Site (SPA) and a protected drinking water lake. This water body has a 'moderate' water quality status and is deemed 'at risk' in the 2019- 2024 WFD cycle. The proposed development site is also approx. 27km east of Ireland West Airport, Co. Mayo.

Having regard to the above, I am satisfied that the Commission could reasonably come to the conclusion that the proposed development **would** have a significant effect on the area of more than one planning authority. Accordingly, I am of the opinion that the proposal **would** come within the scope of this requirement to be considered as complying with section 37A(2)(c) of the Act.

### **8.3 Prescribed Bodies**

In view of the scale, nature, and location of the proposed development, as described in this report, it is recommended that the prospective applicant should consult with the prescribed bodies listed in the attached Appendix 1 in respect of any future application for approval.

#### **8.4 Schedule of Information to Inform the Completeness Check**

Attached as Appendix 2 is a Schedule of Information which is being provided to inform the completeness check which is required by Section 37JA of the Planning and Development Act, 2000, as amended. It is based on the discussion at the two pre-application consultation meetings held. The applicant chose to close the consultations after two meetings. Consequently, there was no opportunity to discuss other relevant considerations. These other relevant considerations are also included in the Schedule of Information.

#### **9. Recommendation**

Based on the foregoing assessment, it can be concluded that the proposed development would exceed the threshold set out in the Seventh Schedule of the Planning and Development Act 2000, as amended, and therefore satisfies Section 37A(1) of the Act. It can also be concluded that the development is of strategic importance by reference to the requirements of Section 37A(2)(a), Section 37A(2)(b) and 37A(2)(c) of the Act.

I recommend that the Commission serve a notice on the prospective applicant, pursuant to Section 37(B)(4) of the Planning and Development Act 2000, as amended, stating that it is of the opinion that the proposed development which comprises the following:

- 11 no. wind turbines (*Nordex N163 5.X with a tip height of 185m, a rotor diameter of 163m, a hub height of 103.5m and an individual turbine output of 5.7MW*) with a total rated power output of 62.7MW,
- 6 no. temporary construction compounds,
- 1 no. Met Mast of 30m,
- 1 no. permanent onsite 110kV substation,
- Underground Grid Connection (110kV) over a distance of c.17km to the existing Flagford 220kV substation (to the east of the site), and
- All associated ancillary and site development works.

Would constitute a strategic infrastructure development within the meaning of Section 37A of the Act for the reasons and considerations set out below.

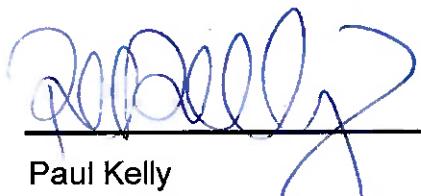
### **REASONS AND CONSIDERATIONS**

Having regard to the size, scale and location of the proposed windfarm and related development, and to the policy context, it is considered that the proposed development comprising the development of an 11 no. turbine windfarm with an overall total rated power output of 62.7MW, grid connection and associated infrastructure on a site at Cloonshanville, Leggatinty, Ballynahowna, Ballaghcullia, Drummin, Loughbally, Carrigeenynaghtan, Carrigeen, Tonaknick, Carrigeenacreeha, Brackloon, Peak, Cloonkerin, Edenan and Kinclare, Gortnacloy, Tartan, Runnacocka and Scor Beg in Co. Roscommon, constitutes development that falls within the definition of energy infrastructure in the Seventh Schedule of the Planning and Development Act 2000, as amended, thereby satisfying the requirements set out in Section 37A(1) of the Act.

The proposed development is also considered to be of strategic importance by reference to the requirements of Section 37A(2)(a), 37A(2)(b) and 37A(2)(c) of the Planning and Development Act 2000, as amended.

An application for permission for the proposed development must therefore be made directly to An Coimisiun Pleanála under Section 37E of the Act.

I confirm that this report represents my professional planning assessment, judgement and opinion on the matter assigned to me and that no person has influenced or sought to influence, directly or indirectly, the exercise of my professional judgement in an improper or inappropriate way.

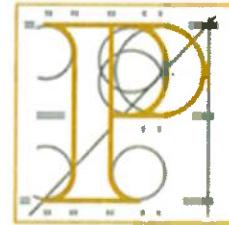


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Paul Kelly

**Senior Planning Inspector**

Date: 08/01/2026

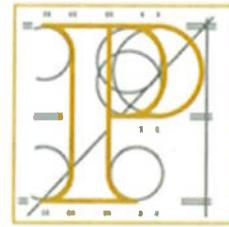


## Appendix 1 – Prescribed bodies

- Department of Housing and Local Government and Heritage
- Department of Climate, Energy and the Environment
- Department of Transport
- Department of Tourism, Culture, Arts, Gaeltacht, Sports and Media
- Department of Agriculture, Food & Marine
- Roscommon County Council
- Sligo County Council
- Northern and Western Regional Assembly
- Transport Infrastructure Ireland
- An Chomhairle Ealaion (Arts Council)
- The Heritage Council
- Failte Ireland
- An Taisce
- Irish Water
- Inland Fisheries
- Irish Aviation Authority
- Air Nav Ireland
- Ireland West Airport (Connaught Airport Development Company (CADCO) Ltd.)
- EPA
- HSE
- Health and Safety Authority
- The Commission for Regulation of Utilities

- ESB
- EirGrid

Further notifications should also be made, where deemed appropriate.



An  
Coimisiún  
Pleanála

## Appendix 2:

### Schedule of Information to Inform Completeness Check

This Schedule of Information seeks to provide details which will facilitate An Coimisiún Pleanála in undertaking the Completeness Check required by Section 37JA of the Planning and Development Act 2000, as amended in order to process the application. It shall not be construed as comprising an assessment of the application documentation or a consideration of the merits of the proposed development.

#### **Details of Proposed Development at Closure**

<b>Pre-Application Ref.</b>	ABP-322258-25
<b>Prospective Applicant:</b>	Carraigin Power Limited
<b>Date of Final Meeting:</b>	14 <sup>th</sup> October 2025
<b>Number of Turbines:</b>	11 no.
<b>Design Flexibility opinion:</b>	No.
<b>Is Grid Connection Included:</b>	Yes.
<b>Is a BESS included:</b>	No.
<b>Accommodating works for TDR:</b>	Yes.

#### **Information**

##### **Plans and Particulars**

<b>Public Notice</b>	<ul style="list-style-type: none"> <li>• Time Period for Consultation and Fee for Submissions</li> <li>• Standalone Website Address</li> <li>• EIAR and NIS referenced</li> <li>• Reference to Section 37JA</li> <li>• All townlands within the site boundary to be correctly referenced.</li> </ul>
<b>Prescribed Bodies</b>	<ul style="list-style-type: none"> <li>• Notification of All Prescribed Bodies and a copy of the correspondence sent to same.</li> </ul>
<b>Land Ownership</b>	<ul style="list-style-type: none"> <li>• Interest in land</li> <li>• Written consent of all other landowners (<i>Inc. legally binding agreement &amp; land registry map if required</i>)</li> </ul>
<b>Design Flexibility</b>	Design flexibility not sought.
<b>Fee</b>	
<b>EIA Portal</b>	Letter from Portal
<b>Planning Statement</b>	<ul style="list-style-type: none"> <li>• Renewable Energy Designation Policy Statement</li> <li>• Statement outlining compliance with all relevant policies and objectives in the County Development Plan including a justification for material contravention of same if relevant.</li> <li>• Consultation overview</li> <li>• Community Benefit Fund</li> <li>• Planning history</li> </ul>
<b>Drawings</b>	<ul style="list-style-type: none"> <li>• Drawing Schedule</li> <li>• Site location map</li> <li>• Site layout plan</li> <li>• Plans, elevations, sections and cross-sections</li> <li>• Wayleaves shown</li> <li>• Grid Connection Route</li> <li>• Scales appropriate</li> </ul>
<b>EIAR</b>	
<b>No design Flex</b>	One turbine type ( <i>Nordex N163 5.X with a tip height of 185m, a rotor diameter of 163m, and a hub height of 103.5m with an individual turbine output of 5.7MW</i> ) and grid connection to be assessed.
<b>Non-Technical Summary</b>	Provided as a standalone section.
<b>Introduction</b>	<ul style="list-style-type: none"> <li>• Legislative context</li> <li>• Scoping Consultation</li> <li>• Community Engagement Report</li> </ul>

	<ul style="list-style-type: none"> <li>Methodology/methodologies for the assessment of the environmental factors and for the description and consideration of the significance of effects</li> <li>Study Area(s) and justification for same.</li> <li>Project Team (Author qualifications, experience and expertise)</li> <li>Technical Difficulties/Limitations</li> </ul>
Description of the Proposed Development	<ul style="list-style-type: none"> <li>Detailed description (all stages) of the characteristics of the proposed development including use of natural resources, production of waste, emissions &amp; disturbances</li> <li>Construction Environmental Management Plan</li> <li>Decommissioning Plan</li> <li>Waste &amp; Resource Management Plan</li> </ul>
Consideration of Alternatives	<ul style="list-style-type: none"> <li>Site selection &amp; design process</li> <li>Reasonable alternatives considered (Layout, scale, technologies, grid connection, turbine delivery, substation infrastructure, construction methodology etc)</li> </ul>
Population and Human Health	<ul style="list-style-type: none"> <li>Population &amp; Settlement Patterns</li> <li>Economic Activity &amp; Employment</li> <li>Tourism &amp; Amenities (Inc. recreational trails/waterways)</li> <li>Human Health &amp; Wellbeing (Reference Studies)</li> <li>Property Devaluation/House Prices</li> </ul>
Biodiversity	<ul style="list-style-type: none"> <li>Derogations (Required/Obtained)</li> <li>Ecological Impact Assessment</li> <li>Biodiversity Enhancement Areas/Management Plan (<i>Proposed Peat Restoration</i>)</li> <li>Bat Surveys (to include): <ul style="list-style-type: none"> <li>Preliminary Roost Assessment Surveys,</li> <li>Bat activity transect surveys,</li> <li>Static bat detector deployments,</li> <li>Emergence/re-entry bat roost,</li> <li>Hibernation</li> <li>Survey data to include a min. of 30 days in each season, in a variety of weather conditions with detectors at different height levels.</li> </ul> </li> <li>Invasive Species Management Plan</li> </ul>

	<ul style="list-style-type: none"> <li>• Terrestrial Surveys (<i>Habitat &amp; ecology (inc protected flora, invasive plant species, mammals, amphibians and reptiles)</i>)</li> <li>• Aquatic Surveys (<i>Habitat &amp; ecology (inc river habitat, macroinvertebrate, electro-fishing, fisheries)</i>)</li> </ul>
Ornithology	<ul style="list-style-type: none"> <li>• Surveys (<i>Vantage Point, Breeding &amp; non-breeding, hinterland, Dusk, Walkover, Roost &amp; Winter surveys</i>)</li> <li>• Connectivity with European Sites</li> <li>• Collision Risk Model (CRM) Assessment</li> <li>• Monitoring Programme</li> <li>• Cumulative Assessment</li> </ul>
Noise and Vibration	<ul style="list-style-type: none"> <li>• Baseline Noise Levels</li> <li>• Map of all receptors within 4 x Tip of Turbines</li> <li>• Predicted Noise Levels</li> <li>• Proposed Noise Limits (cumulative)</li> <li>• Operational Noise Monitoring Proposal</li> <li>• Mitigation Strategy for Operational Amplitude Modulation and Tonal Noises</li> <li>• Cumulative Noise Assessment (<i>to include N5</i>)</li> </ul>
Shadow Flicker	<ul style="list-style-type: none"> <li>• Shadow Flicker Analysis</li> <li>• Wind Turbine Control Measures</li> </ul>
Air and Climate	<ul style="list-style-type: none"> <li>• Carbon Impact Assessment including Embodied Energy Assessment and Climate Change Vulnerability Assessment</li> <li>• Dust Generation/Emissions and Management</li> <li>• Vehicle Emissions and Management</li> </ul>
Land, Soils & Geology	<ul style="list-style-type: none"> <li>• Ground Condition Assessment (inc): <ul style="list-style-type: none"> <li>◦ Ground Investigations Report</li> <li>◦ Site Investigations Report</li> <li>◦ LIDAR Survey</li> <li>◦ On site precipitation monitoring and use of climate data</li> <li>◦ Ground and surface water monitoring (<i>using piezometres</i>) and in-situ hydraulic conductivity testing.</li> <li>◦ Slope Stability Analysis (<i>Justification of model employed. Deterministic model recommended</i>).</li> </ul> </li> <li>• Peat and Spoil Management Plan</li> </ul>

Hydrology, Hydrogeology & Water Quality	<ul style="list-style-type: none"> <li>• Hydrological Assessment</li> <li>• Hydrogeological Assessment</li> <li>• Flood Risk Assessment</li> <li>• Surface water/Drainage Management Plan</li> <li>• Standalone Water Framework Directive Compliance Report</li> <li>• Emergency Response Plan</li> <li>• Water Quality Management Plan</li> <li>• Drinking Water Source (UE and GWSS) Assessment</li> </ul>
Landscape & Visual	<ul style="list-style-type: none"> <li>• Photomontages</li> <li>• ZTV Analysis (20km radius from development site)</li> <li>• Landscape Character Assessment</li> <li>• Viewpoint Assessment</li> </ul>
Traffic & Transportation	<ul style="list-style-type: none"> <li>• Turbine Delivery Route &amp; Swept Path Analysis</li> <li>• Haul Route &amp; Swept Path Analysis</li> <li>• Traffic and Transport Assessment</li> <li>• Traffic Management Plan (including Construction traffic)</li> <li>• Stage 1 Road Safety Audit</li> <li>• Design Report (TII requirements)</li> </ul>
Material Assets	<ul style="list-style-type: none"> <li>• Gas/ESB networks</li> <li>• Telecommunications Impact Study</li> <li>• Aviation Review Statement</li> <li>• Any other relevant material assets identified in consultation process</li> </ul>
Cultural Heritage	<ul style="list-style-type: none"> <li>• Heritage Impact Assessment &amp; a Historic Landscape Character Assessment</li> <li>• Archaeological Impact Assessment</li> </ul>
Major Accidents and Disasters	<ul style="list-style-type: none"> <li>• Construction Stage</li> <li>• Operational Stage</li> <li>• Impact of Climate Change</li> </ul>
Cumulative Assessment	Projects considered should be clearly identified and the location of the cumulative assessment clearly labelled within each Chapter as relevant.
Interactions of the Foregoing	Description of interactions between factors.

Compendium of Mitigation Measures	<p>Intent expressed for the implementation of mitigation measures to be clearly set out as – ‘shall’.</p> <p>Commitments need to be expressed clearly and be specific.</p>
Appendices	<p>All appendices and sub appendices to be submitted in hard and soft copy. To include:</p> <ul style="list-style-type: none"> <li>• Glossary of Terms</li> <li>• Noise Survey Results &amp; Calibration Certificates</li> <li>• Material Volume Calculations</li> <li>• Statement of Competency</li> <li>• Other relevant documents</li> </ul>
<b>AA Screening report</b>	<ul style="list-style-type: none"> <li>• Author qualifications, experience and expertise</li> <li>• Methodology</li> <li>• Zone of Influence (ZOI) and identification of relevant European Sites to be based on a Source-Pathway-Receptor Model using the precautionary principle</li> <li>• Must include consideration of: Cloonshanville Bog Special Area of Conservation (SAC) (Site Code: 000614), Bellanagare Bog Special Protection Area (SPA) (site Code: 004105), Bellanagare Bog Special Area of Conservation (SAC) (Site Code: 000592), Callow Bog Special Area of Conservation (SAC) (Site Code: 000595), and Lough Gara Special Protection Area (SPA) (Site Code: 004048).</li> </ul>
<b>NIS</b>	<ul style="list-style-type: none"> <li>• Author qualifications, experience and expertise</li> <li>• Methodology</li> <li>• Collision Risk Modelling (CRM)</li> <li>• Biodiversity &amp; Ornithology Surveys for QI &amp; SCI species and habitats in accordance with Best Practice</li> <li>• Consideration of relevant Land, soils &amp; geology reports/assessments*</li> <li>• Consideration of relevant Hydrological, hydrogeological &amp; water reports/assessments*</li> <li>• Compendium of Mitigation Measures (<i>Intent expressed for implementation of mitigation measures – ‘shall’</i>)</li> </ul>

	* As stipulated above for EIAR.
<b>Appendices</b>	All appendices and sub appendices to be submitted in hard and soft copy.
<b>Other Documents (To include):</b>	
Civil Engineering Report	<ul style="list-style-type: none"> <li>• Site Entrances</li> <li>• Access Tracks</li> <li>• Wind turbines</li> <li>• Cable routes &amp; connections</li> <li>• Substation (Compound &amp; Buildings)</li> <li>• Meteorological Mast</li> <li>• Temporary construction compounds</li> <li>• Borrow Pits &amp; Deposition Areas</li> <li>• Haul Route</li> <li>• Turbine Delivery Route</li> <li>• Surface Water Design</li> <li>• Wastewater</li> <li>• Potable Water</li> <li>• Decommissioning &amp; Restoration</li> </ul>