



GALETECH
ENERGY SERVICES

**Strategic Infrastructure Development
Pre-Application Consultation Meeting No. 3**

Cushina Wind Farm (ACP-323296-25)

20 July 2026

Introduction

- Prospective Applicant
 - Cushina Wind Limited
- Prospective Applicant's Agent
 - Galetech Energy Services
- Attendees
 - James Carville (Cushina Wind Limited)
 - Bláithín Rafferty (Galetech Energy Services)
 - Simon Carleton (Galetech Energy Services)
 - David Broderick (Hydro-Environmental Services)
 - Jenny Kiely (Woodrow/APEM Group)
 - John Ball (Woodrow/APEM Group)
 - Richard Carter (Bow Acoustics)

Summary of Meeting No. 2

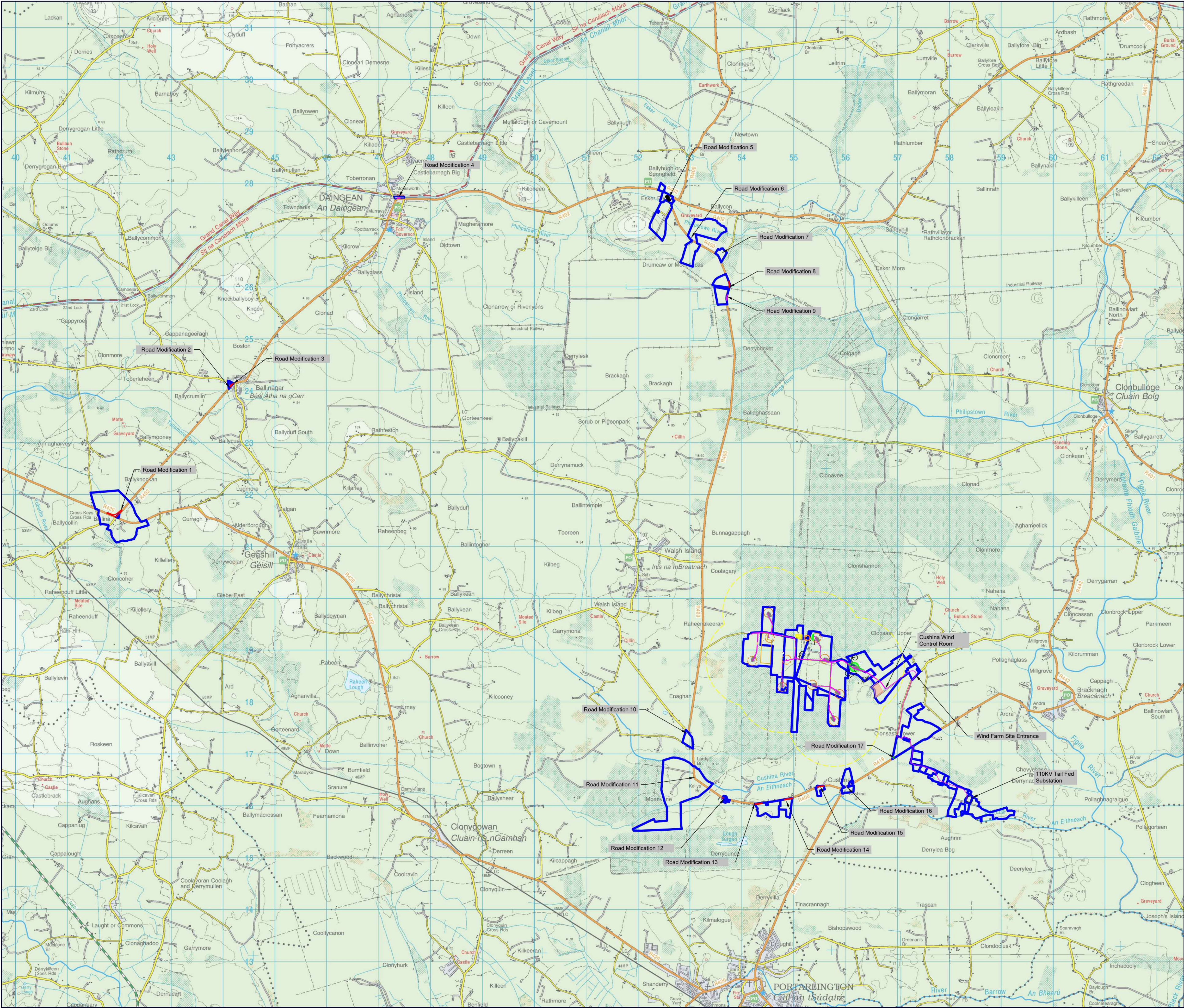
- Prospective Applicant provided further updates on the design evolution of the project.
- Details of the environmental surveys undertaken to that point were discussed including in respect of biodiversity, land and soil and water.
- The outcomes of door-to-door public consultation and sponsorship of local events were discussed.
- An extensive discussion was had regarding hydrological/hydrogeological assessments including in respect of water quality, peat and site investigations to date. It was recommended that further geotechnical site investigations should be explored.
- Matters relating to biodiversity including enhancement areas and aquatic surveys were discussed as well as ornithology.

Project Design/Development Description

- Project Design Evolution
 - Continued refinement of project layout since Meeting No. 2
 - <1km of grid connection route has been altered along the L1005.
 - Refinement of turbine component haul route; permanent upgrade requirement in County Galway comprising the removal of a short section of stone wall and existing fencing. Following delivery of turbine components, fencing to be installed along the full length of wall/fencing removal to accommodate future turbine component deliveries. These works will form part of the proposed development.
 - Geophysical survey of turbine locations ongoing and a number of boreholes are being carried out. Results of borehole investigations awaited.
 - Pending outcome of borehole investigations, no further design alterations are anticipated.
 - Design flexibility consultation ongoing

Project Design/Development Description

- Draft Description of the Proposed Development
 - 11 no. wind turbines with an overall tip height of 220m, a rotor diameter range of between 162m-175m and a hub height range of between 132.5m-139m (electrical output of between 71.5MW-79.2MW);
 - All associated turbine foundations and crane hardstanding areas;
 - Construction of 1 no. site entrance to provide access for construction and operational phase traffic;
 - Provision of new internal site access tracks;
 - 1 no. Electrical Control Building;
 - Underground Electricity & Communications Cables;
 - 1 no. guy-wired meteorological mast with an overall height of 30m;
 - 1 no. temporary construction compound;
 - The storage, as required, of excavated material at dedicated spoil deposition areas;
 - All associated and ancillary site development, excavation, construction, landscaping and reinstatement works, including provision of site drainage infrastructure and environmental mitigation measures.
 - The installation of 4.3km of underground electricity line to connect the proposed wind farm to the proposed Derrynadarragh Wind Farm 110 kilovolt (kV) electrical substation; and,
 - Temporary and permanent works to public roads along the turbine component haul route.



Legend:

- Ownership Boundary
- Application Boundary
- Wind Farm Access Tracks & Crane Hardstanding Areas
- Indicative Cable Routes
- Surplus Soil Deposition Areas
- Forestry to be felled
- Swept Area to Turbine Rotor
- Bat Buffer
- Four Times Turbine Tip Height Setback to dwellings
- Forestry to be Planted

Prepared by:



Galetech Energy Developments Ltd,
Clondorgan,
Stradone,
Co. Cavan

Client:

Cushina Wind Ltd

Job Title:

Cushina Wind Farm

Drawing Title:

Overview Map (1:35,000)

Drawing No.:
240730/CMP/GD/003

Revision No.:
Rev14

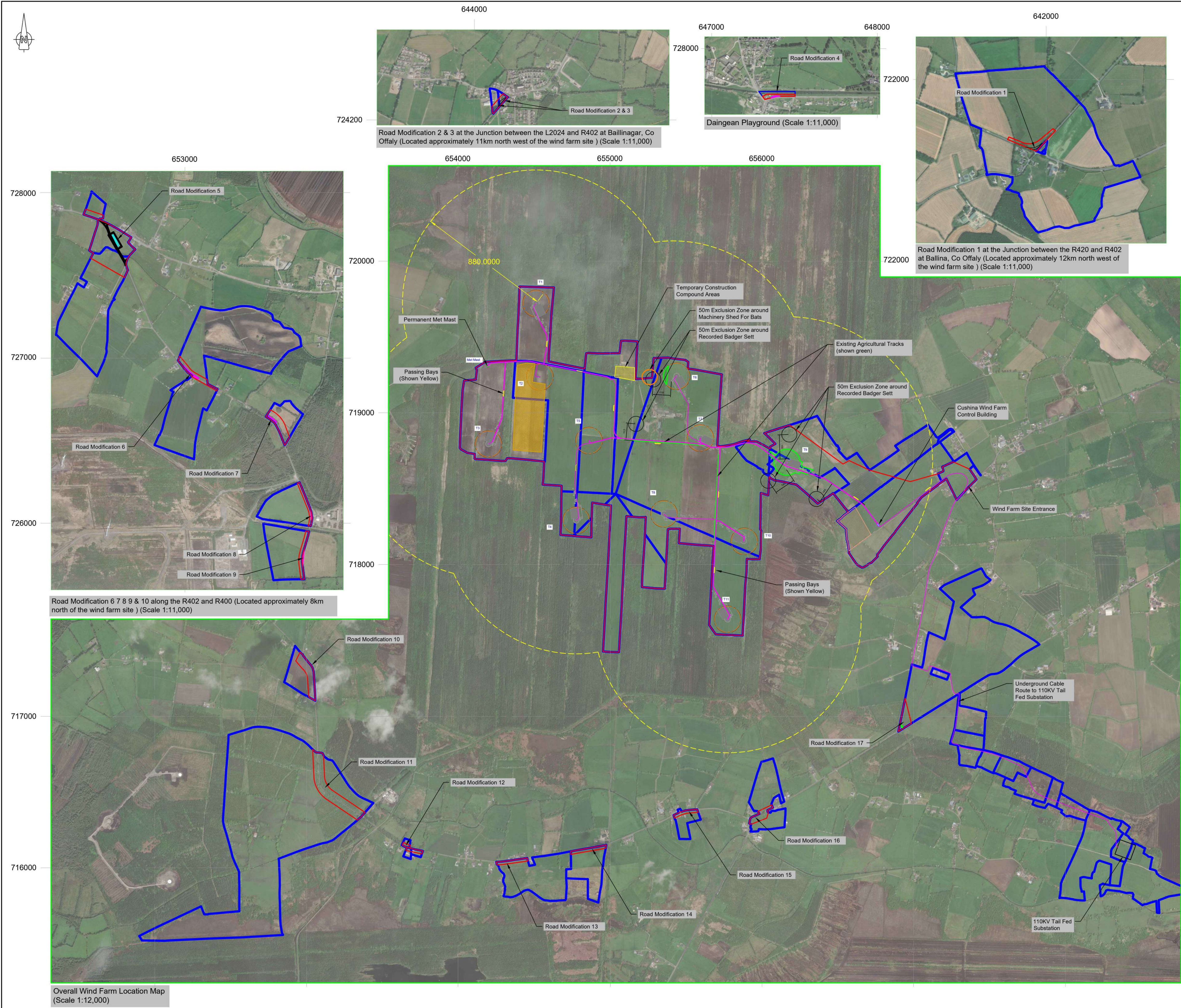
Scale:
(A1) 1:35,000

Date:
29/06/2026

Drawn By:
C.M.P

Checked By:
J.C

Confirmed By:
S.D



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Prepared by:		
 Galetech Energy Developments Ltd, Clondargan, Stradone, Co. Cavan		
Client:		
Cushina Wind Ltd		
Job Title:		
Cushina Wind Farm		
Drawing Title:		
Overall Site Location Map		
Drawing No.:	240730/CMP/GD/001	Revision No.:
		Rev14
Scale:	AS SHOWN	Date:
		29/06/2026
Drawn By:	Checked By:	Confirmed By:
C.M.P	J.C	S.D



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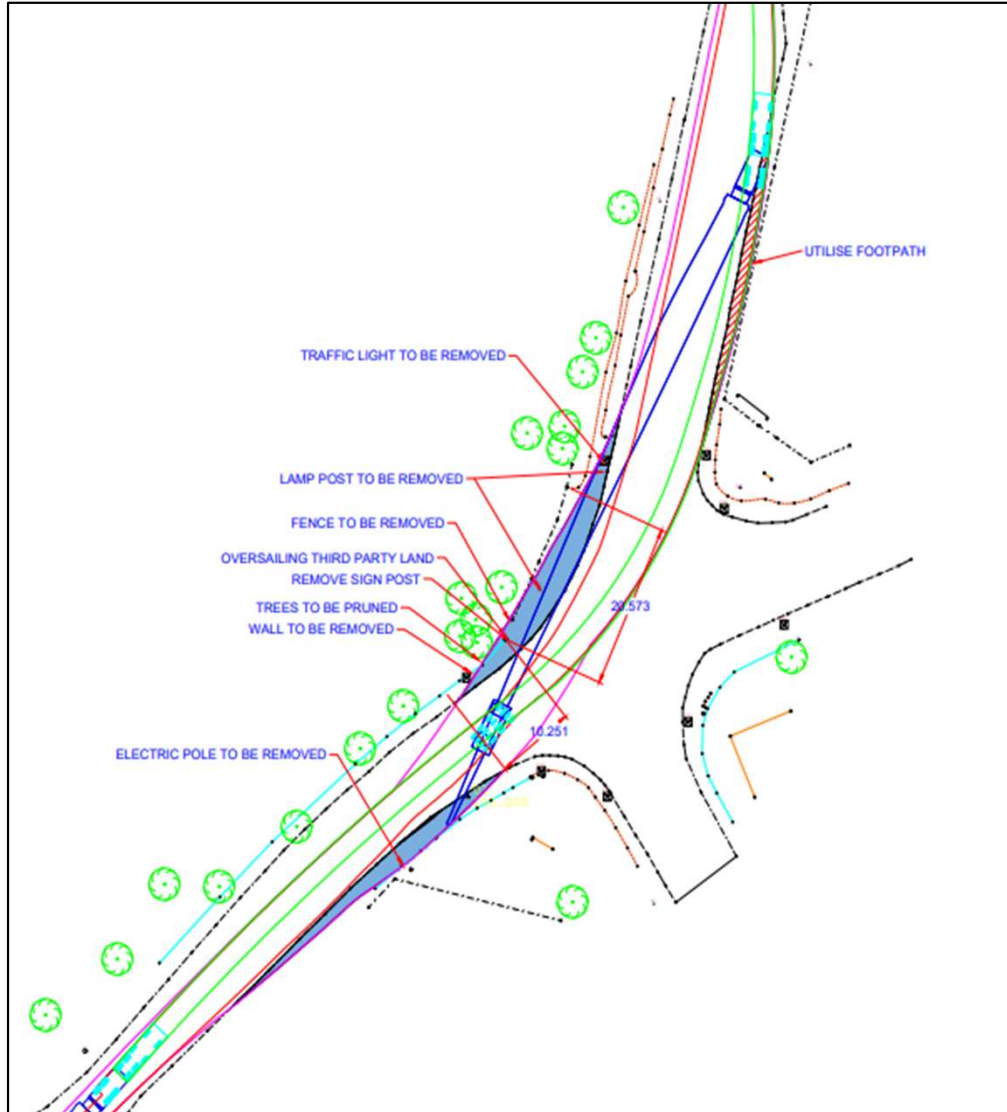
Drawing Title:

Overall Site Location Map (1:6,000)

Drawing No.:	240730/CMP/GD/002	Revision No.:	Rev14		
Scale:	(A1) 1:6,000	Date:	29/06/2026		
Drawn By:	C.M.P	Checked By:	J.C	Confirmed By:	S.D

Additional Haul Route Upgrade

Location here: <https://maps.app.goo.gl/bpkduGVpYh2fH1Cd6>



Public Consultation Events

- Brackangh (9th June)
 - 6 no. attendees
 - Most had previously engaged during door-to-door consultation
 - Good awareness of the project
 - Queries included:-
 - Cumulative number of turbines in the area
 - Aviation lights on turbines
 - Entry and exit locations/site entrance for turbines
 - Public road impacts/maintenance
- Walsh Island (11th June)
 - 10 no. attendees
 - Similar to above, most had previously engaged during door-to-door consultation
 - Good awareness of the project
 - Queries included:-
 - Cumulative number of turbines in the area
 - Community Benefit Fund and available funding
 - Proposed Community Plan for residents within 1-2km of the turbines.
 - Public road queries regarding construction haul routes.



Community Consultation Summary

- May 2023 – Door-to-door consultation providing information regarding installation meteorological mast.
- August 2023 – Door-to-door consultation providing information regarding planning application for continued operation of meteorological mast
- February 2026 – Door-to-door consultation providing preliminary information regarding the project
- June 2026 - 2 no. consultation clinics in local area
- June 2026 – Information event at St. Broghan's National School.
- Separately, the project has sponsored a number of local community events and has been in regular contact with landowners and local residents.

Geology, Hydrogeology & Hydrology

- Additional Survey work has been undertaken.
 - Geotechnical site investigations
 - Water sampling of the Figile_70 watercourse.
- Watercourses and drains have been inspected and mapped across the site.
- Ongoing preparation of EIAR Land & Soil Chapter
- Ongoing Preparation of Water Chapter
- Preparation of Water Framework Assessment
- Preparation of Stage II Flood Risk Assessment

Biodiversity

- Habitats, Bats, Mammals & Aquatic Ecology

- Comprehensive ecology surveys have been completed for habitats, bats, mammals and aquatic ecology across the wind farm site, electricity line route and turbine component haul route.
- The project site consists primarily of agricultural grassland, arable land, hedgerows, treelines and drainage features, with smaller areas of woodland and peatland habitats.
- Protected species surveys confirmed the presence of common bat species, otter, badger and other typical ecological receptors associated with the wider landscape.
- Aquatic ecology surveys included water quality assessment, macroinvertebrate surveys, fish habitat assessment and white-clawed crayfish surveys. No significant aquatic constraints were identified.

- Water Quality and Appropriate Assessment

- The principal ecology consideration identified is protection of downstream water quality and hydrological connectivity to the River Barrow and River Nore SAC. At its closest point, the SAC is c. 5.3 km south of the project and is c. 11.1km downstream of the project.
- Appropriate Assessment Screening identified the River Barrow and River Nore SAC as the only European site requiring further assessment.
- NIS is being prepared to assess potential effects on downstream Natura 2000 interests.
- Detailed design and mitigation measures have been developed, including Sustainable Drainage Systems (SuDS), water quality protection measures and construction management controls.

Biodiversity (continued)

- Summary
 - Ecological assessment has identified no significant constraints that cannot be mitigated through design, construction management and habitat protection measures.
 - Following mitigation, no likely significant adverse ecological effects are predicted.

Ornithology

- A comprehensive ornithological dataset was collected over three breeding seasons and four non-breeding seasons, including 1,481.5 hours of Vantage Point survey effort between October 2021 and March 2025.
- No breeding Hen Harrier territories were recorded within the survey area and no communal winter roosts were identified. Winter use was limited primarily to occasional foraging activity.
- Whooper Swan, Golden Plover and Lapwing remain the principal wintering bird interests associated with the site.
- Localised breeding Snipe and Woodcock territories were recorded, principally associated with wet grassland, peatland and woodland edge habitats.
- Collision Risk Modelling predicts negligible collision mortality for all assessed species, including Annex I species and raptors. Predicted mortality levels are below thresholds capable of generating population-level effects.
- Following mitigation and embedded design measures, no significant adverse effects on bird populations are predicted during construction, operation or decommissioning. The remaining considerations relate primarily to disturbance management, habitat protection and good construction practice.

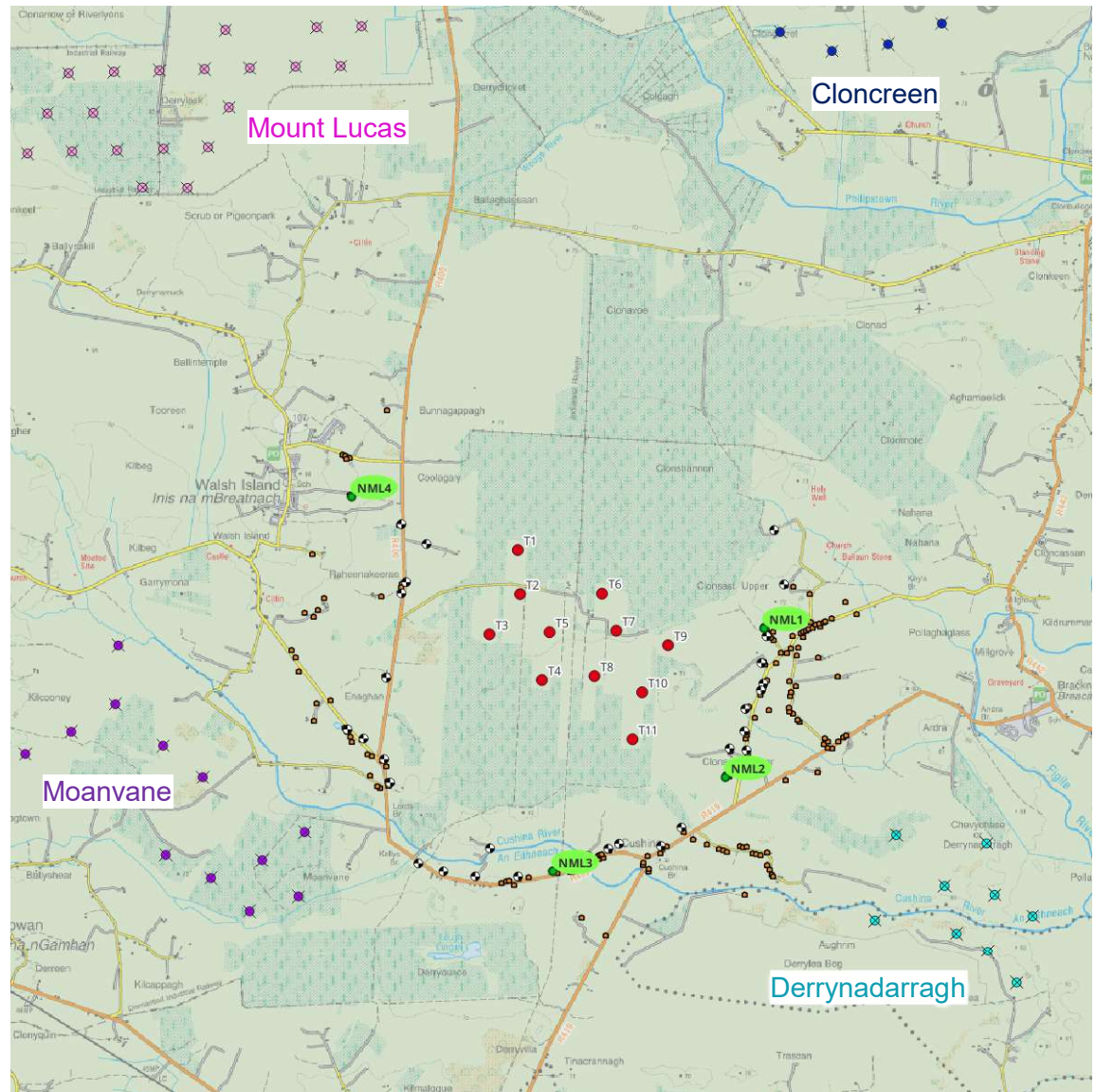
Ornithology (Continued)

- Summary

- The EIAR is likely to conclude that the project will not result in likely significant adverse effects on any ornithological receptor.
- While Whooper Swan, Golden Plover, Lapwing, Snipe, Woodcock and Hen Harrier remain Important Ecological Features within the assessment, collision risk is negligible and predicted effects are below levels capable of affecting conservation status or population viability.
- Residual ornithological effects are therefore assessed as not significant.
- All assessments have been carried out on a cumulative basis in combination with wind energy developments in wider environs of the site.

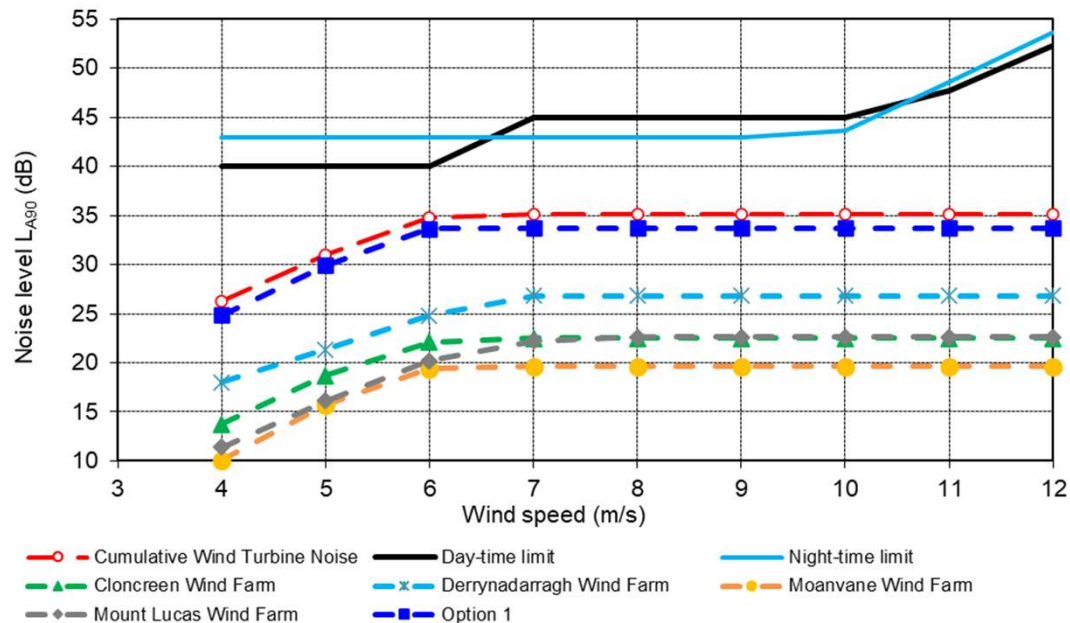
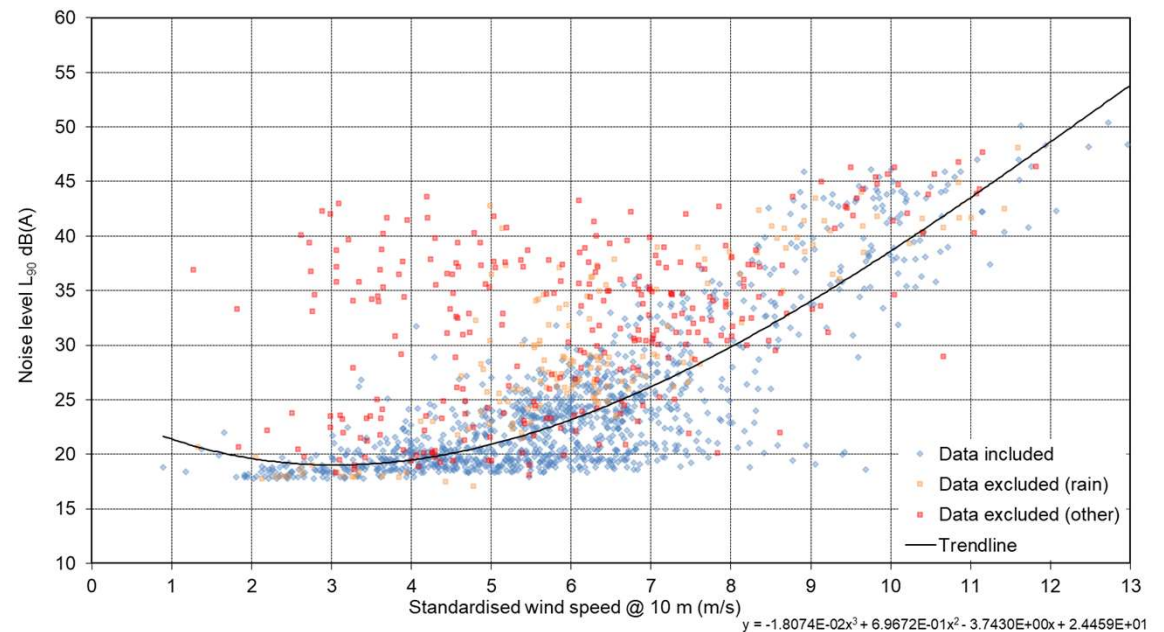
Noise & Vibration

- Noise monitoring was completed at the indicated locations. Assessments have been carried out on a cumulative basis in combination with wind energy developments in wider environments of the site.
- The assessment catered for:-
 - 2 no. wind farms within 5km (Moanvane and Derrynadarragh)
 - 2 no. more within 10km (Mount Lucas and Cloncreen)
- 4 no. survey locations (NML1 – NML4)
- Noise assessment follows:
 - Wind Energy Development Guidelines for Planning Authorities 2006
 - ETSU Guidance (per 2026 update)
 - Institute of Acoustics Good Practice Guide 2013



Noise & Vibration (continued)

- 5 no. weeks background survey data at 4 no. locations.
- Noise levels of Cushina Wind Farm do not exceed relevant limits.
- Cumulative noise levels from all wind farms do not exceed relevant limits.
- No requirement for curtailment.



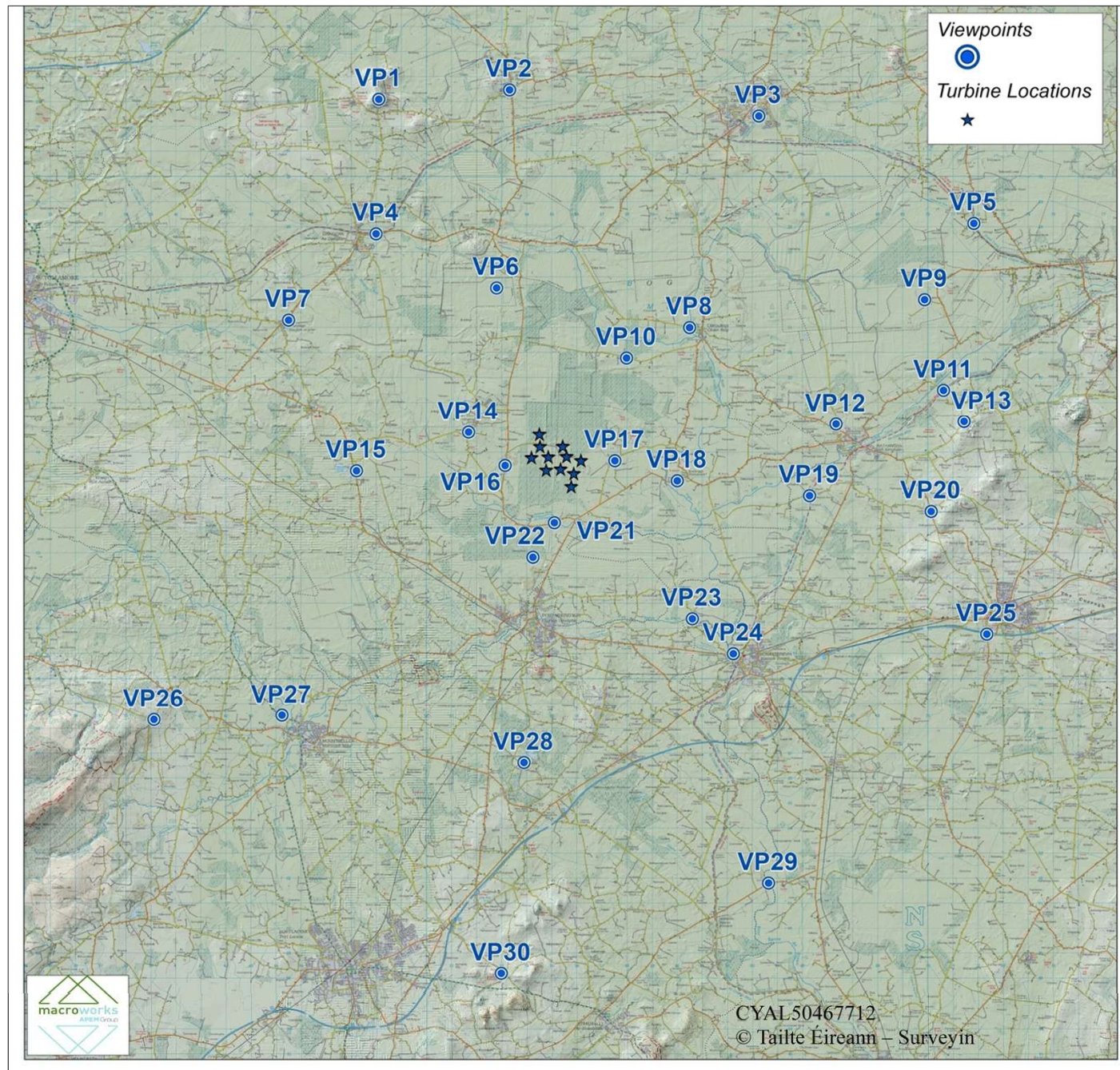
Shadow Flicker

- Shadow flicker modelling ongoing, pending confirmation of final design.
- It will identify a 'worst case' scenario showing the number of receptors that are predicted to experience maximum daily and annual shadow flicker.
- Given all dwellings are >1 km from wind turbines, a scenario whereby shadow flicker exceeds the 30-minutes/day or 30 hours/year thresholds of the Wind Energy Development Guidelines for Planning Authorities 2006 is not expected.
- However, at an early stage of the project's development, the Prospective Applicant committed to implementing a 'zero shadow flicker' approach in accordance with the Draft Revised Wind Energy Development Guidelines 2019. The elimination of shadow flicker will be enabled through software and technological measures which will shut down the wind.

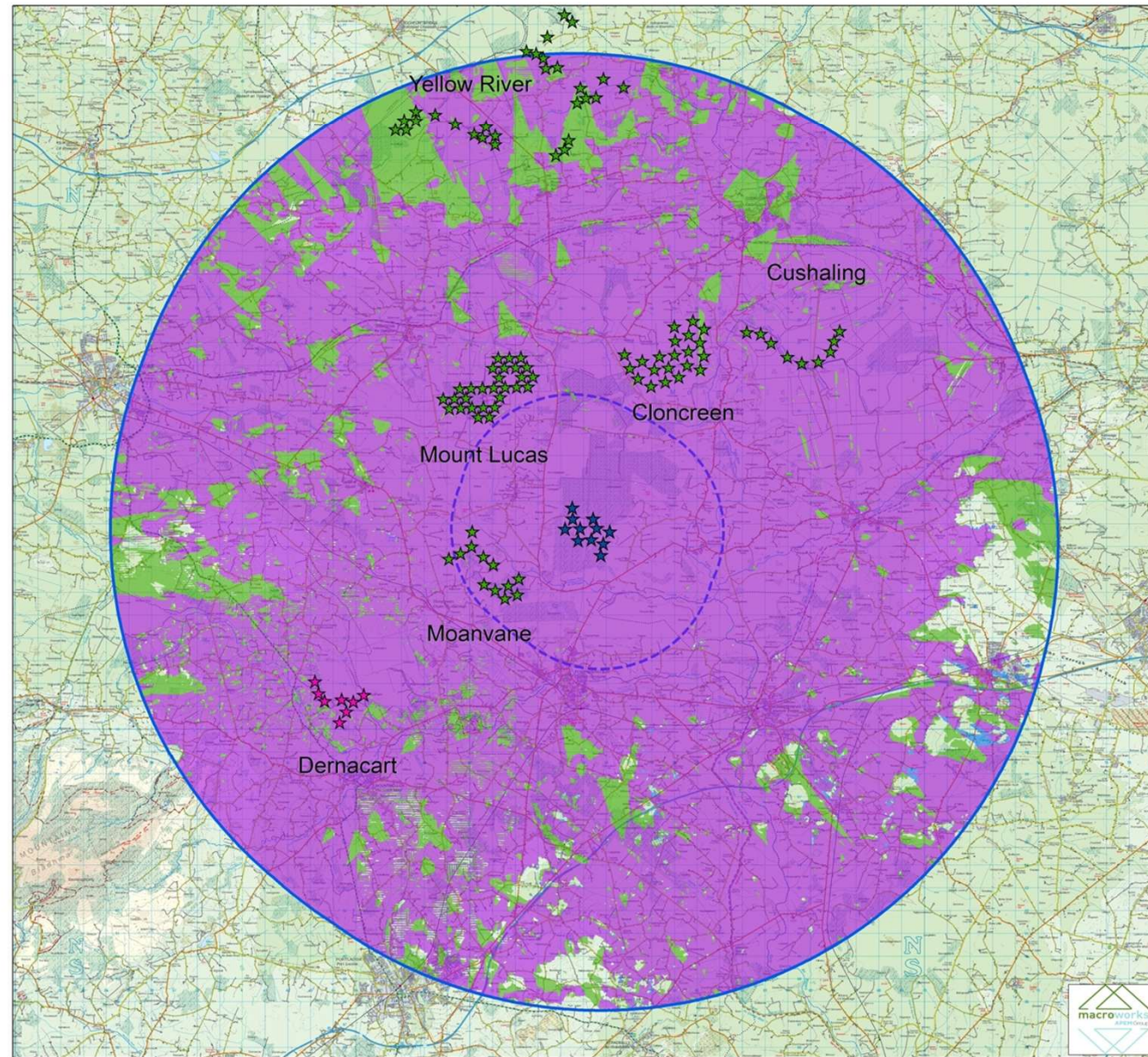
Landscape

- The preparation of all visualisation documentation has been completed including Zone of Theoretical Visibility mapping, viewpoint mapping and photomontages.
- The following slides contain viewpoint mapping, zone of theoretical visibility mapping and a number of photomontages.
- Assessments have been carried out on a cumulative basis in combination with wind energy developments in wider environments of the site.

Viewpoint Locations



Current Baseline Cumulative ZTV Map



Turbines
★ Proposed
★ Existing
★ Permitted

Study Areas
5km
20km

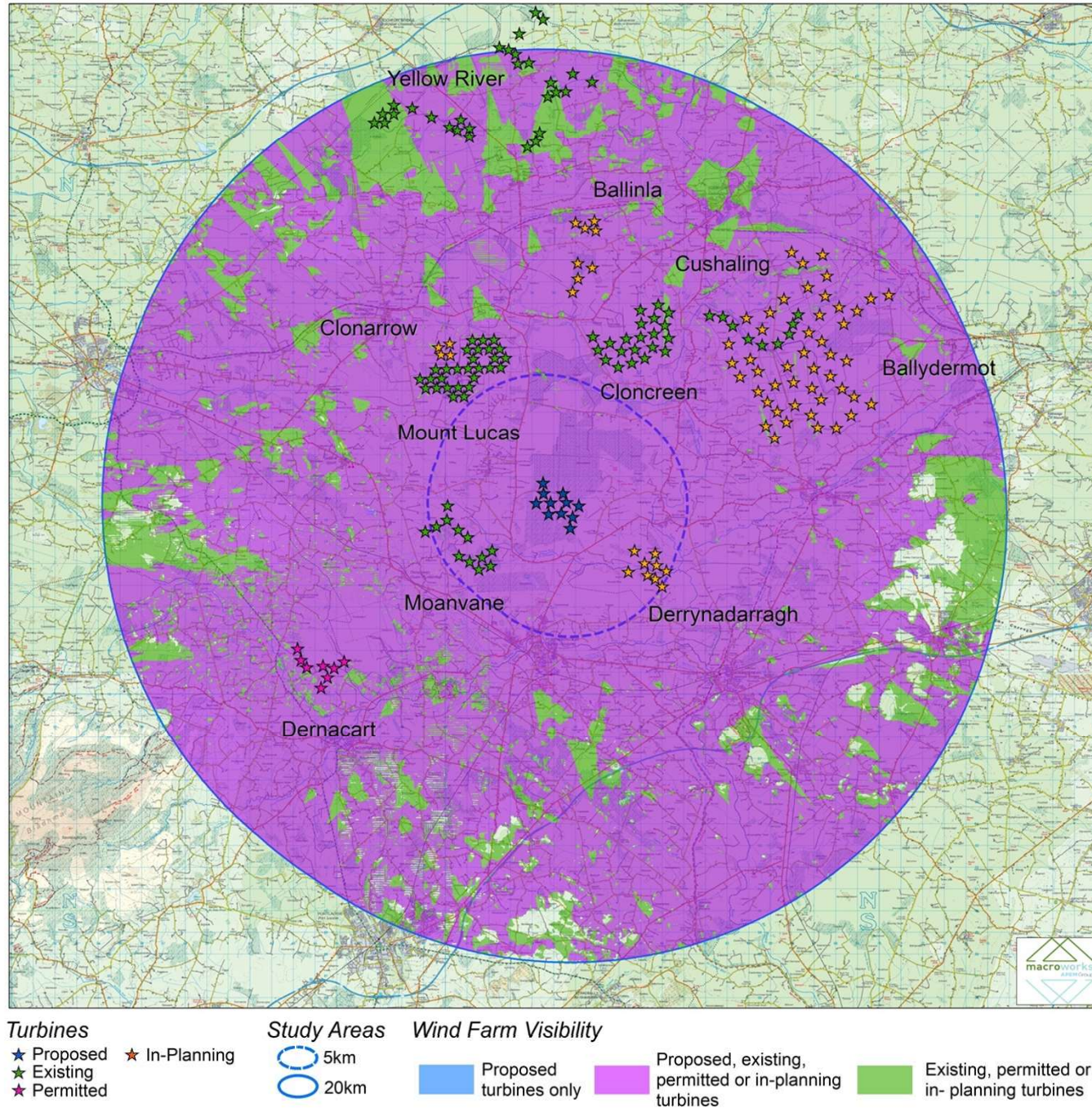
Wind Farm Visibility

Proposed
turbines only

Proposed, existing, or
permitted turbines

Existing or permitted
turbines only

Future Baseline Cumulative ZTV Map



Landscape

- Landscape Effects
 - The assessment does not identify any likely significant landscape effects arising from the project.
- Visual Effects
 - Based on the visual impact assessment, operational phase visual effects are assessed to be not significant.
- Cumulative Effects
 - The cumulative landscape and visual effects of the project are not assessed to notably differ from the assessment of the project individually, which has numerous surrounding wind farms present in a baseline context that is becoming more characterised by wind energy development. The cumulative landscape and visual effects of the project are assessed to be not significant.

Cultural Heritage

- Findings of assessment carried out to date:-
 - No heritage features within site of prospective development.
 - One recorded monument within 1km of the wind farm site.
 - No national monuments in State care within 5km of the wind farm site.
 - No World Heritage Sites or sites included in the Tentative List as consideration for nomination to the World Heritage List within 5km of the wind farm.
 - No protected structures within the site of the prospective development.
 - Construction may result in adverse effects on previously unrecorded heritage features if encountered during excavations.
 - Operation phase effects likely to be limited to visual effects.
- In consultation with the Department of Housing, Local Government & Heritage (Development Applications Unit), a Peatland Walkover Survey was recommended.
 - Carried out June 2026
 - Report confirms that no archaeological features were identified during the survey, but that the wider development area is one of general archaeological potential

Material Assets

- Transport
 - Further assessment of the turbine delivery route completed to confirm the locations and scope of works to be completed.
 - Consultations with Roads Department of Galway County Council and Offaly County Council are ongoing. Traffic management requirements have been discussed and proposals/mitigations are known and understood.
 - Ongoing assessments of predicted traffic volumes and construction material haul routes.
 - Assessments have been carried out on a cumulative basis in combination with other developments, including wind energy developments, in wider environs of the site.
- Telecommunications
 - 1 no. Enet link traversing the project site. Consultations ongoing.
- Aviation
 - A review of likely effects on operations at Benfield Aerodrome (Funfly Sports) and Clonbullouge Airfield (Irish Parachute Club) has been undertaken.
 - Assessments finds that significant effects are not likely due to separation distance which, in turn, avoids significant effects on take-off climbs, landing approaches, parachute jumps and drop-zones, and effects due to turbulence.

Next Steps

- Design Flexibility Opinion Consultation
- Request closure of pre-application consultation process.
- Finalisation of project design/layout
- Completion of Environmental Impact Assessment Report.
- Completion of Natura Impact Statement.
- Submission of planning application in September 2026.



Galetech Energy Services

Clondargan, Stradone, Co. Cavan Ireland

Telephone +353 (0)49 555 5050

www.galetechenergyservices.com