

OBSERVATION/SUBMISSION TO PLANNING APPLICATION

Case Reference: 323761

Brian Fahy
TwentyAcres
Barnaderg
Tuam
Galway

To: An Coimisiún Pleanála
64 Marlborough Street
Dublin 1
D01 V902

Date: 05 November 2025

Re: Observation/Submission to proposed wind energy development at Cooloo Wind Farm

Location: Cloondahamper, Cloonascragh, Elmhill, Cooloo, Lecarrow, Dangan Eighter, Lissavally, Slievegorm
- Co. Galway

Applicant: Neoen Renewables Ireland Limited

Dear Sir/Madam,

I Brian Fahy of TwentyAcres, Barnaderg have serious concerns about a windfarm that is in for planning permission in my area. First and foremost I built my house on land that I said I would build on one day as child, mainly because of the view from the land. Now to think there is the possibility that the same view will be destroyed by these monster wind turbines is heart breaking. Not only will my day time view be lost but also my night view with red lights lighting up the sky.

I also use the water from the Barnaderg Gortbeg Group Water Scheme as my only source of water for my wife and kids. The water is of excellent quality and I'm very concerned of pollution of various types that would cause my family harm.

I believe the Cooloo windfarm will cause harm within my community in many ways and wish to object to its development for the following reasons.

Planning Framework and Guidelines

The ongoing reliance on the Wind Energy Development Guidelines 2006 is increasingly inappropriate given the advancements in wind energy technology almost twenty years ago. At the time, turbines rarely exceeded 100 metres in height and produced 1–2 MW of power. In contrast, the turbines proposed in this development will reach 180 metres and generate approximately 6 MW, resulting in significantly greater impacts than those envisaged by the 2006 Guidelines.

These guidelines have repeatedly been acknowledged in the Dáil as outdated. In 2013, Deputy Micheál Martin informed then-Taoiseach Enda Kenny that the guidelines did not account for contemporary technology. In 2025, Tánaiste Simon Harris reiterated in the Dáil that the guidelines remain outdated.

Accordingly, it is unreasonable and inconsistent with principles of proper planning and sustainable development for An Coimisiún Pleanála to rely solely on the 2006 Guidelines. Any decision must be informed by current standards and technological realities.

Barnaderg Gortbeg Group Water Scheme

I use the water from Barnaderg Gortbeg Group Water Scheme as my main source of drinking water for my household. The water is of excellent quality and I am very concerned that pollution of various types such as silt, sediment and other contaminants will enter the water source, causing me and my family harm. With the location of two Turbines within the Source Protection Area (SPA) I believe the Cooloo Windfarm should not be granted permission whatsoever, especially in such a highly karsified and hydrologically sensitive area.

Right to Peaceful Enjoyment of Property

Article 1, Protocol 1 of the European Convention on Human Rights (ECHR) safeguards every individual's right to the peaceful enjoyment of their possessions. It provides that: "Every natural or legal person is entitled to the peaceful enjoyment of his possessions. No one shall be deprived of his possessions except in the public interest and subject to the conditions provided for by law and by the general principles of international law."

Approval of this proposed wind farm would constitute a clear interference with this right. If the development proceeds, I will be deprived of the peaceful enjoyment of my home and property. The construction and operation phases would bring significant and continuous disturbance — including persistent noise pollution, low-frequency noise (LFN), shadow flicker, and heavy vehicle movements. The tranquillity and visual amenity of my surroundings, which form an intrinsic part of my home environment and well-being, would be irreversibly diminished.

During construction, the constant flow of heavy machinery and associated noise would cause ongoing disruption and stress, further impacting daily life. Once operational, the presence of industrial-scale turbines dominating the landscape would permanently alter the character of the area, stripping residents of the quiet enjoyment of their homes and lands. This level of intrusion cannot be considered proportionate or justified in the public interest, and therefore conflicts with the protections afforded under Article 1, Protocol 1 of the ECHR.

Property Devaluation

The 2023 CERIS (Centre for Economic Research on Inclusivity and Sustainability) paper – 'Wind Turbines and House Prices Along the West of Ireland: A Hedonic Pricing Approach' – surveyed the prices of houses located near windfarms in seven counties.

The paper states that: 'The analysis finds a robust and significant reduction in property value of -14.7% within 1km of a turbine' and that 'Back-of-the-envelope calculations suggest that the total loss in value for houses within 1km of a turbine in the case counties is approximately €6.8 million.'

Galway County Council is an agent for the state of the Republic of Ireland and as such is responsible to uphold Article 40 of the Irish Constitution which states – ‘the state shall in particular by its laws protect as best it may from unjust attack and in the case of injustice done vindicate the life, person, good name, and property rights of every citizen.’

I am aware that the Barnaderg Cooloo Wind Farm Action Collective have spoken to a local auctioneer, who said that he had trouble selling a house in County Mayo because it was close to several wind turbines. The auctioneer was able to site a specific instance whereby a married couple looked at the house and decided not to buy it. The auctioneer said that the presence of the wind turbines was a crucial factor in the couple's decision not to buy the house. The owners of this house ended up selling for less money than the couple had been initially willing to pay for the house.

Noise

Planning permission for the proposed Cooloo Wind Farm should be refused on the basis that it poses a clear and foreseeable risk of substantial interference with the normal use and enjoyment of nearby homes. In *Byrne & Moorhead v ABO Energy* [2025] IEHC 330, the Irish High Court found that wind turbine noise—specifically low-frequency and amplitude-modulated sound—constituted a private nuisance under common law, as it significantly disrupted residents' ordinary domestic life. The Court held that such noise amounted to an unreasonable and continuous intrusion, preventing the quiet occupation of the home and resulting in the permanent shutdown of three turbines in County Wexford.

The Cooloo proposal relies on outdated ETSU-based noise criteria that fail to account for the same low-frequency and modulated noise effects found to cause substantial nuisance in the Wexford case. Given the proposed turbines' greater height and rotor size, the likelihood of these harmful acoustic effects occurring at Cooloo is even higher. Approving this development under obsolete standards would disregard the High Court's findings and expose local residents to predictable and legally recognized interference with their right to the peaceful enjoyment of their homes. Planning permission should therefore be refused in full on these grounds.

Shadow Flicker

The EIAR's treatment of shadow flicker fails to meet statutory and international standards for the assessment and mitigation of human health and residential amenity impacts. It relies on outdated guidelines, applies over-simplified modelling assumptions, and does not provide adequate protection to the large number of dwellings and receptors affected.

The EIAR confirms that:

- 218 residential receptors are located within 1.62 km of proposed turbines,
- 171 of these are predicted to experience shadow flicker, and
- 43 receptors are within 1 km of a turbine.

These figures demonstrate that the project is situated in a densely inhabited rural area, yet the assessment dismisses the significance of impact based solely on a theoretical model rather than verified site conditions.

By any reasonable measure, 171 dwellings affected by a rotating shadow intrusion constitutes a major residential amenity and public health concern, not a negligible effect.

The EIAR applies the 2006 DoEHLG Wind Energy Development Guidelines, which allow up to 30 minutes per day or 30 hours per year of shadow flicker at any dwelling.

However:

- The 2019 Draft Wind Energy Development Guidelines (and reiterated in the 2025 Climate Action Plan Annex) require that no occupied dwelling or sensitive receptor experiences any shadow flicker through the

use of automatic turbine control systems.

- The EIAR itself acknowledges that turbine software could achieve this standard but chooses to assess impacts under the obsolete 2006 thresholds.

This approach is contrary to current best practice and fails to future-proof the development in line with national policy on renewable energy development and community protection. Although the EIAR cites various international studies (some over a decade old) claiming no proven medical link between shadow flicker and disease, it fails to address contemporary health guidance:

- The World Health Organisation (2018) recognises annoyance and sleep disturbance as legitimate health effects of environmental light and noise intrusions.
- The HSE's own scoping response (2023) requested an assessment of all likely significant impacts on sensitive receptors, including shadow flicker, along with proposed mitigation.
- The EIAR's discussion focuses on whether shadow flicker can cause seizures (which is rare), but ignores chronic stress, fatigue, and loss of amenity due to regular flicker events within residential interiors.

The result is a narrow and outdated view of human health inconsistent with EPA (2022) guidance, which defines health as "a state of complete physical, mental and social well-being."

The shadow flicker assessment in the Cooloo Wind Farm EIAR is deficient, outdated, and incomplete. It underestimates the true scale of residential intrusion and fails to apply the precautionary principle required under both EU and Irish environmental law.

Given:

- 171 dwellings predicted to experience flicker
- Outdated 2006 guideline thresholds
- Absence of enforceable mitigation and cumulative analysis

this development cannot be deemed to have no likely significant effect on human health or amenity.

National Schools

I am concerned that the presence of the wind turbines so close to the three local schools will have an impact on students, staff and the overall school community. All of the schools are less than 2.5 km away from a turbine. Turbines are known to create noise, low frequency infrasound and shadow flicker. These issues will no doubt impact on the students in the local schools.

Also during the construction phase and while laying the cabling, the roads will experience increased traffic and road closures. This will impact children travelling to and from school. I am also concerned that if Cooloo Wind Farm is granted planning permission less people will be moving to or building in the area. This will lead to fewer children in the community and may lead to schools losing teachers, and ultimately school closures.

Barnaderg National School

Barnaderg National School is located approximately 2.49 km from Turbine No 1.

The turbines being this close to the school will no doubt have an impact on the education of the children in Barnaderg NS. The school will suffer from noise pollution and infrasound. In addition to this, during the construction phase and while laying cabling the roads to and from the school will be impacted by road closures, traffic, additional noise and dust. Again, all of this will impact on the children of the school.

I am also concerned that if t planning permission is granted less people will be moving to or building in the area of Barnaderg. This will lead to fewer children in the community and may lead to the school losing teachers, and ultimately the school closure.

Farming

There are dairy and dry-stock farmers in Barnaderg, Cooloo and the surrounding areas, both full-time and part-time. Holdings vary in size. Many of these farmers depend on their livestock performing well in order to pay their bills. Also, those who are farming in the area enjoy the work they do, in the absence of shadow flicker, noise or visual pollution. If this development is granted their livelihoods will be impacted.

The 'Importance of Noise Hygiene in Dairy Cattle Farming – A Review' (Published November 1st of 2023 by Dimo Dimov, Toncho Penev and Ivaylo Marinov) details how vibration and noise from a milking parlour can negatively impact the milk yield and milk quality of a dairy cow. The paper also discusses how exposing animals to noise from an unfamiliar source can cause them stress.

It is also important to note that the developer has not taken into account the ways in which farmers depend on the local roads for moving cattle and for access to their land when going about their daily tasks within their farms.

Reference:

Dimov, D., Penev, T., and Marinov, I. (2023) 'Importance of Noise Hygiene in Dairy Cattle Farming – A Review'. Featured Position and Review Papers in Acoustics Science.

Available at: <https://www.mdpi.com/2624-599X/5/4/59>.

Extra construction traffic

I strongly object to this proposal due to the major disruption and safety risks it poses to our local community during the construction phase. The Traffic Management Plan fails to provide clear information on delivery schedules, routes or mitigation for abnormal turbine loads. Our rural roads are narrow, shared by farm machinery, school buses and local traffic, and cannot safely accommodate such heavy haulage without damage or obstruction. The application states that there will be approximately 14 extra return trips made by trucks carrying materials. This is vastly underestimated for a project of this size. There are no binding guarantees on road repairs, traffic management or timing of deliveries to avoid peak community use. Residents, farms and schools in Barnaderg, Cooloo and surrounding areas will face delays, dust, noise and restricted access. This plan does not adequately safeguard community safety, local livelihoods or the integrity of rural infrastructure. Permission should not proceed without full, enforceable traffic controls and local protection measures.

Battery storage and substation safety risks

I object on the grounds of unacceptable risks to public health, fire safety, and water contamination posed by the proposed substation and Battery Energy Storage System (BESS).

The developer's own Appendix 12-3 Battery Storage Noise Assessment (Sept 2025) identifies fifteen CATL EnerC+ battery containers containing lithium-ion (LiFePO₄) systems manufactured by CATL. Predicted operational noise levels reach up to 31 dB LAeq at nearby homes, representing an increase of +11 to +14 dB above background levels. The report itself classifies this as a "significant adverse impact" on residential amenity. Scientific research shows that chronic noise above 30 dB can raise risks of cardiovascular disease and sleep disturbance.

Lithium-ion Battery Energy Storage System (BESS) installations worldwide have experienced fires and explosions that release toxic gases such as hydrogen fluoride and hydrogen cyanide. Research shows that fire-water run-off from lithium-ion battery fires can contain hydrofluoric acid, dissolved metals, and fluorinated organic compounds, which may contaminate nearby soil and waterways if not properly contained.

This proposed Substation and BESS would have a major impact on The Lough Corrib Special Area of Conservation, as a nearby stream eventually flows into Lough Corrib, potentially harming aquatic life and

drinking water sources.

Based on the absence of any Fire Safety Management Plan within Appendix 12-3, it appears that nearby fire services are not equipped or trained to respond effectively to large-scale lithium-ion battery fires.

In *Grace & Others v. An Bórd Pleanála* (2017), the Supreme Court ruled that a residence within one kilometer of a proposed development site had standing to argue against consent. This case emphasizes the significance of thoroughly evaluating related infrastructure such as the substation and BESS, which ought to be included in the same consenting procedure as the wind farm itself.

With homes, farmland, and livestock within a few hundred metres of the proposed site, this industrial-scale development poses an unacceptable risk to community health, safety, and environmental integrity. Until independent noise, fire-safety, and hydrological risk audits are completed and verified by competent authorities, I urge An Bord Pleanála to refuse this application in accordance with the Precautionary Principle.

References:

- National Fire Protection Association (NFPA) (2020) Hazard Assessment of Lithium-Ion Battery Energy Storage Systems
- TNEI Ireland (2025) Appendix 12-3 Battery Storage Noise Assessment
- World Health Organization (WHO) (2018) Environmental Noise Guidelines for the European Region
- Irish Legal News (2017) Supreme Court: Challenge to wind farm development referred to CJEU

Major accidents and natural disasters

I object on the grounds that Chapter 16 of the Cooloo Wind Farm EIAR fails to provide a robust assessment of major accident and natural disaster risks.

The report's references to peat instability and raised-bog cutover are inadequate given the known susceptibility of peat landscapes to movement and sediment release during heavy rainfall or storm surge events. The EIAR's reliance on generic statements about low geological risk neglects the amplified high-wind, flood and peat-fire hazards forecast for County Galway under the local authority climate plan.

The lack of detailed modelling of flood-pathways or worst-case scenario storm events undermines the precautionary principle embedded in Irish planning law. This is a serious deficiency given the scale of the proposed development and the sensitivity of the peat landscape.

No explicit contingency or evacuation measures are detailed for the community along the grid-route corridor — a serious omission when tall turbines and infrastructure could present hazard in extreme events.

The assessment is incomplete and fails to satisfy the legislative requirements of an EIAR insofar as it must identify, describe and assess direct and indirect effects of the development on the environment and human beings.

I call on An Coimisiún Pleanála to require an independent supplementary risk assessment, specific to peat-hazard, flood-modelling and major-accident scenarios, before any decision is made on this application.

References:

- Galway County Council (2024) Local Authority Climate Action Plan 2024-2029
- Environmental Protection Agency (EPA) (2022) Guidelines on the Information to be Contained in Environmental Impact Assessment Reports (EIAR)
- European Commission (2024) Environmental Impact Assessment: Overview of EU Rules

Conclusion

In light of the serious concerns outlined above I urge An Coimisiún Pleanála to refuse permission for this development. This proposal has also divided our community and in time, if this development is allowed to go

ahead, it will destroy relationships within the community and no doubt have an impact on the population of the community. In addition it will no doubt result in further action to legally stop the windfarm from operating as a result of its impact on the community. An Coimisiún Pleanála must listen to the concerns of our community and act accordingly.

Yours Sincerely,

Brian Fahy

Name: Brian Fahy
Date: 05 November 2025