

Collette Foster
Stoneridge House
Dromclogh East
Bantry
Co. Cork
P75 R206
ctfoster28@gmail.com

086-0235400

19 May 2026

SID Planning

An Coimisiún Pleanála

64 Marlborough Street

Dublin 1

D01 V902

Reference Planning Application Number: ACP-324165-26

Applicant: Maughanaclea Ltd / Enerco

Development Description: 10-year planning permission for Maughanaclea Wind Farm consisting of 14 no. wind turbines, a 110kV substation and 110kV underground cabling connection and associated works.

Location: Maughanaclea, County Cork.

A Chara,

I am objecting to the above planning application ACP-324165-26, for the development and operation of no. 14 wind turbines at Maughanaclea which will be damaging to the physical and mental health of adults and children who reside or spend prolonged periods while (attending school) within 10 kilometres of the installation as demonstrated in recent research into the propagation of pulsating infrasound by wind turbines.

As a former health worker, I am very concerned that wind energy companies repeatedly refer to the absence of evidence of damage to health by wind turbines. Evidence will not be found if incorrect measurement tools are used.

Recent research supports the fact that wind turbines produce pulsating infrasound which does have a damaging impact on health, most notably in people with High Sensory Sensitivity, 25 -30% of the population has High Sensor Sensitivity.

People with known high sensitivity issues such as migraine are excluded from research studies previously.

Infrasound unrecognized propagates fast, inaudible, and invisible, travels long distances penetrating through concrete and skull bone.

Reference

1. Analysis of noise generated by wind turbines with reference to other low frequency noise sources and their impact on health. J Occup Med Environ Health. 2025 Mar

Infrasound passes through the skull without being attenuated and can directly affect the brain.

References:

1. Resting state network changes induced by experimental inaudible infrasound exposure and associations with self-reported noise sensitivity and annoyance.

Scientific Reports | (2024) 14:24555

2. Infra-slow fluctuations in cortical potentials and respiration drive fast cortical EEG rhythms in sleeping and waking states.

Clinical Neurophysiology, Volume 156, December (2023), Pages 207-219

Infrasound affects sensory cells in the inner ear.

Reference:

1. Responses of the ear to low frequency sounds, infrasound and wind turbines.

(Salt AN, Hullar TE (2010) Hear Res 268:12-21)

2. A basic identification of late auditory evoked potentials at infrasound frequencies: Support via neural network-based signal processing

Journal of Low Frequency Noise, Vibration and Active Control 2023, Vol. 42(2) 719

3. Altered cortical and subcortical connectivity due to infrasound administered near the hearing threshold - Evidence from fMRI. PLoS One. 2017 Apr 12;12(4):e0174420.

doi: 10.1371

Bellut -Staeck (1), **'A fundamental basis for all living creatures, mechanotransduction, is significantly endangered by periodic exposure to impulsive infrasound vibration and technical emitters – in particular cardiovascular and embryological functions'**, presents a comprehensive scientific paper referencing seventy-eight other papers investigating the impacts of infrasound in relation to human and animal health plus the impact on the environment.

'For years, researchers have been searching rather unsuccessfully for the pathophysiological mechanism that explains why people living near infrasound-emitting installations exhibit similar symptoms everywhere, domestic animals display conspicuous behaviour and why animals avoid the immediate vicinity of increasingly taller wind turbines or other technical installations that emit infrasound and vibration. The research was for longer times mainly planned, carried out and evaluated by acousticians.

Since around 2017, international studies have increasingly pointed to cellular stress effects and serious health impacts from chronic exposure to periodically occurring, low-frequency infrasound and vibrations.

The knowledge of the specific properties of this far-reaching environmental factor and the current state of research on endothelial mechanotransduction and PIEZO channels has enabled a paradigm shift.

The possible effects on the affected organisms are becoming increasingly clear.

Sound, whether audible to organisms or not, is subject to the laws of physics.

An organism can be viewed both mechanically and energetically. Every atom vibrates. Communication takes place through the exchange of energy and forces, which forms the basis for the maintenance of structure and function both within an organism and within a biosphere.

The principle of undisturbed mechanotransduction is a fundamental prerequisite for all life functions. The possibility of infrasonic frequencies being transmitted to mechano-sensor levels, is highly evident.

Depending on the individual's ability to compensate, exposure to a chronic stressor such as impulsive and periodic infrasound must lead to an exhaustion which manifests first in functional disorders of the substrate and oxygen supply, progressing to an increasing loss of endothelial functions. New knowledge in a clinical context can contribute to behavioural changes e.g., awareness of high sensitivity to external forces, especially in the first trimester of pregnancy during vasculogenesis where a random event can have significant effects according to the

stochastic principle. Another example is the risk of a workplace with vibrations and low frequencies that could aggravate cardiovascular diseases. Recent studies indicate that humans, animals and plants within a radius of at least 10 kilometers can be harmed by far reaching emissions through IWT techniques.

The surface area of the endothelium in our bodies corresponds approximately to two football pitches.

This paper highlights the impact of damage to the bodies epithelium which lines all of our blood vessels, it is important in the immune system and inflammatory response within the body to mention but a few functions. The disturbing significance for foetal development is also detailed

Reference:

1. Bellut-Staeck, U., M., SCIREA Journal of Clinical Medicine Vol 10, Issue 2, April 2025. A fundamental basis for all living creatures, mechanotransduction, is significantly endangered by periodic exposure to impulsive infrasound vibration and technical emitters – in particular cardiovascular and embryological functions.
<https://doi.org/10.54647/cm321372>

Previously infrasound has not been measured because equipment which cannot detect its presence has been used in measurement and it is therefore declared to be absent.

Ken Mattsson Professor in Scientific computing at Uppsalla University has used appropriate equipment which can detect and measure accurately the level of infrasound propagated and transmitted into the environment by wind turbines. He presented a public health meeting with Dr Hakan Enbom ENT specialist Otoneurologist on the recent studies on noise and infrasound from wind turbines.

The evidence of wind turbine pulsating infrasound and its damaging impact on health is now available so it is time to take appropriate steps to manage the potential for damage being caused to human health by insuring correct measurement and placing turbines away from residential areas and schools where children attending will be exposed to infrasound 7 hours per day, 5 days a week for 7 years or 12 years if their secondary school is also situated in close proximity.

There are 3 primary schools within 3 and a half kilometres of these proposed turbines. The children attending these schools will be exposed to the damaging impact of infrasound.

When we look back at the history of how the damaging effects of mercury, lead, arsenic and tobacco were know about for years before authorities decided to act in the interest of public health it would be unthinkable that these industrial wind developments would be permitted to be constructed in the heartlands of our communities and so be permitted to damage the health

of the those living here and generations to come who will be subjected to their damaging health effects which science has now identified.

Mise le Meas

Collette Foster