

Addendum to the
Environmental Impact
Assessment Report

NISA
North Irish Sea Array

Volume 7A

Preface



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Glossary of Terminology, Abbreviations and Acronyms

Term, Abbreviation or Acronym	Description
$\mu\text{g} / \text{m}^3$	Micrograms per cubic metre
AA	Appropriate Assessment
AADT	Annual Average Daily Traffic
AAPs	Areas of Archaeological Potential
ABP	An Bord Pleanála
AC	Alternating current
ACA	Architectural Conservation Areas
AcEsk	Eskers comprised of gravels of acidic reaction
ACP	An Coimisiún Pleanála
An Coimisiún Pleanála	The competent authority under the Planning Acts to determine the planning application and carry out the EIA and AA of the proposed development.
AD	Anno Domini
ADD	Acoustic Deterrent Devices
ADCP	Acoustic Doppler Current Profiler; a device that uses sound waves to determine the speed and direction of currents throughout the water column
AEP	Annual Exceedance Probability
AEZ	Archaeological Exclusion Zone
AH	Archaeological Heritage
AHV	Anchor Handling Vessels
AIP	Aeronautical Information Publication
AIS	Automatic Identification System
ALAN	Artificial Light at Night
ALARP	As Low As Reasonably Practicable
ALM	Aerodrome Licensing Memorandum
AlluvMin	Alluvial (min)
AminDW	Deep well drained mineral soil (mainly acidic)
AminPD	Mineral poorly drained (mainly acidic)
AminPDPT	Peaty gleys acidic
AminSP	Surface water gleys / Ground water gleys shallow

Term, Abbreviation or Acronym	Description
AminSRPT	Shallow rocky peaty, non-peaty mineral complexes (mainly acidic)
AminSW	Shallow well drained mineral soil (mainly acidic)
An Bord Pleanála	The competent authority under the Planning Acts to determine the planning application, and carry out the EIA and AA of the proposed development.
Annex I Habitats	Habitat types, listed in Annex 1 of the Habitats Directive (Directive 92/43/EEC), whose conservation requires the designation of Special Areas of Conservation. Priority habitats, which are in danger of disappearing within the EU territory, are highlighted with an asterisk in Annex I.
Annex I Species	Annex I of the Birds Directive (Directive 2009/147/EC) lists 193 bird species and sub-species which are: i) in danger of extinction, ii) vulnerable to specific changes in their habitat, iii) considered rare because of small populations or restricted local distribution and / or iv) require particular attention for reasons of the specific nature of habitat.
Annex II Species	Animal and plant species, listed in Annex II of the Habitats Directive, whose conservation requires the designation of Special Areas of Conservation.
Annex IV	Animal and plant species, listed in Annex IV of the Habitats Directive, in need of strict protection.
Annex V	Animal and plant species, listed in Annex V of the Habitats Directive, whose taking in the wild and exploitation may be subject to management measures.
ANSP	Air Navigation Service Provider
ANSI	American National Standards Institute
Appropriate Assessment (AA)	The statutory process as set out in Article 6 of the Habitats Directive
AQS	Air Quality Standards
AQG	Air quality guidance
ARE	Accelerating Renewable Energy
ARPA	Automatic Radar Plotting Aid
Arup	Ove Arup & Partners Ireland Ltd
Array Area	The area within the offshore development area within which the WTGs, the OSP and inter-array cable(s) will be located
As	Alluvium (sandy)
ASAM	Aeronautical Services Advisory Memorandum
ASR	Air Sensitive Receptor
ATC	Air Traffic Control
ATCs	Automatic Traffic Counts
ATCSMAC	ATC Surveillance Minimum Altitude Chart

Term, Abbreviation or Acronym	Description
AtoN	Aids to Navigation
ATS	Air Traffic Service
AWB	Artificial Surface Waterbodies
AWQR	Annual Water Quality Rating
BAC	Biological Assessment Criteria
BAP	Biodiversity Action Plan
BC	Benthic Community
BCI	Bat Conservation Ireland
BCT	Bat Conservation Trust
Belcamp substation	The existing operational substation where the 220kV underground onshore cable will connect to the national high voltage electricity transmission system
Benthic	Relating to or occurring on the seabed.
BH sites	Built Heritage sites
Birds Directive	The Birds Directive (formally known as Council Directive 2009/147/EC on the conservation of wild birds) is a European Union directive adopted in 2009. It aims to protect all European wild birds and the habitats of listed species, in particular through the requirement for member states to designate of Special Protection Areas.
Birds of Conservation Concern in Ireland	BirdWatch Ireland and the Royal Society for the Protection of Birds (RSPB) in Northern Ireland provided a list of priority bird species for conservation action on the island of Ireland. These Birds of Conservation Concern in Ireland are published in a list known as the BoCCI List. In this BoCCI List, birds which breed and / or winter in Ireland are classified into three separate lists (Red, Amber and Green), based on the conservation status of the bird and hence conservation priority.
BktPt	Blanket peat
BminDW	Deep well drained mineral soil (mainly basic)
BminPD	Mineral poorly drained (mainly basic)
BminPDPT	Peaty gleys basic parent materials basic
BminSP	Surface water gleys / groundwater gleys shallow
BminSPPT	Peaty gleys shallow
BminSRPT	Lithosols peats
BminSW	Renzinas / Lithosols
BMW	Biodegradable Municipal Waste
BoCCI	Birds of Conservation Concern in Ireland

Term, Abbreviation or Acronym	Description
Bony fish	Any species with skeletons primarily composed of bone tissue; comprises fishes of the superclass Osteichthyes.
Bq / m ³	Becquerel per cubic metre
BRE	Building Research Establishment Group
Bremore Substation	The new 220 kV substation to be constructed as part of the proposed development located adjacent to the compensation substation. Bremore substation will be connected to the compensation 220kV substation and the Belcamp substation by means of the onshore cables.
BS	British Standard
BSBI	Botanical Society of Britain and Ireland
BSI	British Standard Institute
BTH	Built Heritage
BTO	British Trust for Ornithology
BWI	BirdWatch Ireland
CA	Conservation Area
Cable Contractor Compound	2 No. cable contractor compounds (referred to as the Bremore cable contractor compound within the landfall site and the Blakes Cross cable contractor compound at Blakes Cross South) will be set up along the onshore cable route which will facilitate the cable laying activities throughout the onshore elements of the proposed development.
Cable Duct	The cable ducts will be durable plastic conduits into which the cables will be installed.
CaCO ₃	Calcium carbonate
CAFE	Cleaner Air for Europe
CAP	Climate Action Plan
CARO	Climate Action Regional Office
Cartilaginous fish	Any species with skeletons primarily composed of cartilage; comprises chimaeras and all elasmobranchs.
Catchment	The area of land bounded by watersheds draining into a river, basin or reservoir.
CBA	Cost Benefit Analysis
CBD	Convention on Biological Diversity
CBF	Community Benefit Fund
CBGM	Cement Bound Granular Mixture
CBRA	Cable burial risk assessment
CCAP	Climate Change Action Plan

Term, Abbreviation or Acronym	Description
CCTV	Close-circuit television
CCUS	Carbon capture, utilisation and storage
CD	Chart datum
C&D	Construction and Demolition
CE	Circular Ecology
Cefas	Centre for Environment, Fisheries and Aquaculture
CEMP	Construction Environmental Management Plan
CEN	European Committee for Standardisation
CESSM	Civil Engineering Standard Method of Measurement
CFE	Controlled Flow Excavation
CFP	Common Fisheries Policy
CGS	County Geological Sites
CH	Cultural heritage
CH4	Methane
CHVP	Cultural Heritage Viewpoints
CIE	Córas Iompair Éireann
CIEEM	Chartered Institute of Ecology and Environmental Management
CifA	Chartered Institute for Archaeologists
CIL	Commissioners of Irish Lights
CIP	Copenhagen Infrastructure Partners P/S (The Developer is a 50/50 joint venture between Statkraft Ireland Ltd and Copenhagen Infrastructure Partners P/S)
CIRIA	Construction Industry Research and Information Association
CIV	Cable Installation Vessel
CLO	Community Liaison Officer
CLS	Community Liaison Strategy
CNL	Construction Noise Levels
CNOSSOS	Common Noise Assessment Methods in Europe
CNT	Construction Noise Threshold
CMS	The Convention on the Conservation of Migratory Species
CO	Carbon monoxide

Term, Abbreviation or Acronym	Description
CO2eq	Carbon dioxide equivalent
COMAH	Control of Major Accident Hazards Involving Dangerous Substances
Contractor Compounds	<p>The following terms are used to identify the various relevant contractor compounds:</p> <p>HDD contractor compound(s)</p> <p>Substation contractor compound</p> <p>Cable contractor compound(s)</p>
Construction Phase	The processes and activities on or off site that contribute or are instrumental to the construction of the proposed development towards, and finally to, the Operational Phase.
Compensation substation	The compensation substation is situated within the grid facility and will be connected to the Bremore substation by means of a 220 kV underground cable. This is the substation which will receive the onshore export cables from the landfall site.
COP	Conference of Parties
CORINE	Co-ordinated Information on the Environment
CP	Cathodic Protection
CPA	Coastal Planning Authorities. The functional area of the CPA as set out in the MAP Act includes the nearshore area of that CPA. Dublin City Council, Fingal County Council, Meath County Council and Louth County Council are the relevant CPAs for the proposed development
CPS	Cable protection system
CPUE	Catch per unit effort
CPT	Cone Penetration Test. This is a tool used for geotechnical surveys to determine the engineering properties of soil or seabed sediment.
CRM	Collision Risk Modelling
CRTN	Calculation of road traffic noise
CRU	Commission for Regulation of Utilities
cSAC	Candidate Special Area of Conservation
CSIP	Cable Specification and Installation Plan
CSM	Conceptual Site Model
CSMMP	Construction Stage Mobility Management Plan
cSPA	Candidate Special Protection Area
CSO	Central Statistics Office
CSTP	Celtic Sea Trout Project
CSZ	Core Sustainance Zone

Term, Abbreviation or Acronym	Description
CTA	Dublin Control Area (air traffic control)
CTD profiler	Conductivity, temperature, depth profiler; a device used to detect how the conductivity and temperature of the water column changes relative to depth
CTMP	Construction Traffic Management Plan
CTV	Crew Transfer Vessels
Cumulative Effects Assessment (CEA)	The assessment of potential cumulative effects that may arise from certain impacts from the proposed development acting cumulatively with impacts from other projects considered in the assessment.
Cut	Cut over raised peat
CWMP	Construction Waste Management Plan
DAFM	Department of Agriculture, Food and the Marine
DAHG	Department of Arts, Heritage and the Gaeltacht
DAHGI	Department of Arts, Heritage, Gaeltacht and the Islands
DART	Dublin Area Rapid Transport
DAS	Digital Aerial Surveys
DAU	Development Applications Unit (of the Department of Housing, Local Government and Heritage)
dB	Decibel. Between the quietest audible sound and the loudest tolerable sound there is a million to one ratio in sound pressure (measured in Pascal (Pa)). Because of this wide range, a level scale called the decibel (dB) scale, based on a logarithmic ratio, is used in sound measurement. Audibility of sound covers a range of approximately 0-140dB.
dBA	The human ear system does not respond uniformly to sound across the detectable frequency range and consequently instrumentation used to measure sound is weighted to represent the performance of the ear. This is known as the 'A weighting' and is written as 'dBA'.
DC	Direct current
DCC	Dublin City Council
DCCAIE	Department of Communications, Climate Action and Environment
DCDP	Dublin City Development Plan 2022-2028
DCENR	Department of Communications, Energy and Natural Resources
DCF	Data Collection Framework
DCHG	Department of Culture, Heritage and the Gaeltacht
DCIHR	Dublin City Industrial Heritage Record
DDD	Drive Drill Drive

Term, Abbreviation or Acronym	Description
DDV	Drop-down Video
Decapod crustacean	Crustaceans of the order Decapoda, which includes crabs, lobsters, shrimp and prawns.
DECC	Department of the Environment, Climate and Communications
DECLG	Department of the Environment, Community and Local Government
DEFRA	Department of Environment, Food and Rural Affairs (UK)
DEHLG	Department of the Environment, Health and Local Government.
Demersal	Living and feeding on or near the seabed.
Design Flexibility Opinion (DF Opinion)	The Developer sought an opinion from An Bord Pleanála on design flexibility under section 287A of the Planning Acts. In 2024, An Bord Pleanála issued its opinion on design flexibility, (the “DF Opinion”). Full detail regarding the DF Opinion and how this is reflected in the EIAR is provided in Sections 2.7 and 2.8 of Chapter 2 (EIA and Methodology for the preparation of an EIAR).
Designated sites	Selected sites designated with the aim to conserve habitats and species of conservation concern.
Developer	North Irish Sea Array Windfarm Limited (Ltd). The Developer is a 50/50 joint venture between Statkraft Ireland Ltd and Copenhagen Infrastructure Partners P/S.
Development area	The area within which the proposed development will be located (includes onshore and offshore aspects) and is defined by the planning boundary (shown as “red line” on planning drawings)
Development Permission	Development Permission” has the meaning ascribed to it in the Planning Acts, and, where the context requires, means any development permission granted for the Permitted Maritime Usage.
DF	Design Flexibility
DHLGH	The Department of Housing, Local Government and Heritage
Diadromous	Migrating between fresh and saltwater habitats.
DMAP	National Designated Maritime Area Plan
DMRB	Design Manual for Roads and Bridges
DME	Distance measuring equipment
DoD	Department of Defence
Do Nothing Scenario	The environment as it would be in the future should the proposed development not be developed
DoT	Department of Transport
DP	Dynamic Positioning
DREMP	Dublin Region Energy Master Plan

Term, Abbreviation or Acronym	Description
DS	Do Something
DSM	Digital Surface Model
DSO	Distribution System Operator – the role fulfilled by ESB to operate the electrical network of overhead lines, cables and substations at distribution voltage levels in the Republic of Ireland.
DTM	Digital Terrain Model
DTTAS	Department of Transport, Tourism and Sport
EAP	Environmental Action Programme
ECMG	East Coast Monitoring Group
EC	European Commission
ECC	Offshore export cable corridor which is the area within which the offshore export cables will travel from the offshore substation platform (OSP) to the landfall.
EcoServe	Ecological Consultancy Services Limited
EcIA	Ecological Impact Assessment
ECoW	Ecological Clerk of Works
ED	Electoral District
EEA States	Countries within the European Economic Area
EEZ	Exclusive Economic Zone
EFLA	European Foundation of Landscape Architecture
EFT	Emission Factor Toolkit
EIA	Environmental impact assessment – refers to the assessment process and the assessment that An Bord Pleanála will carry out.
EIA Directive	Environmental Impact Assessment Directive. This refers to Directive 2011/92/EU as amended by Directive 2014/52/EU on the assessment of the effects of certain public and private projects on the environment
EIA Regulations	European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018 (S.I. No. 296/2018)
EIS	Environmental Impact Statement
EirGrid Group	Transmission system operator on the Island of Ireland and transmission asset owner for offshore electrical infrastructure at transmission voltage levels in Ireland. Referred to as EirGrid.
EL	Exploration Licence
Elasmobranch	Cartilaginous fish of the subclass Elasmobranchii; comprises sharks, rays and skates.
Electro-sensitive	Ability to sense electric fields.

Term, Abbreviation or Acronym	Description
EMC	Electromagnetic Compatibility
EMF	Electromagnetic Field
EMP	Environmental Management Plan
EMRA	Eastern and Midlands Regional Assembly
EMSA	European Maritime Safety Agency
EMWR	Eastern-Midlands Waste Region
Environmental Impact Assessment Report (EIAR)	A report of the effects, if any, which proposed development, if carried out, would have on the environment and shall include the information specified in Annex IV of the Environmental Impact Assessment Directive
EPA	Environmental Protection Agency
Epibenthic	Living on the seafloor.
Equivalent continuous sound pressure level of LAeq,T	An index used internationally for the assessment of environmental sound impacts. It is defined as the notional unchanging level that would, over a given period of time (T), deliver the same sound energy as the actual time-varying sound over the same period. Hence fluctuating sound levels can be described in terms of an equivalent single figure value.
EQS	Environmental Quality Standard
ERBD	Eastern River Basin District
ERCoP	Emergency Response Cooperation Plan
ERM	East Regional Model
ERP	Economic Recovery Plan
ESB	Electricity Supply Board (Ireland's DSO)
ESBN	Electricity Supply Board Network
ETS	Emission Trading Scheme
EU	European Union
EUPHA	European Public Health Association
EUROBATS	The Agreement on the Conservation of Populations of European Bats
EVMP	Environmental Vessel Management Plan (Volume 9, Appendix 14.5 of EIAR)
EWIC	East West Interconnector (HVDC electricity interconnector)
FCC	Fingal County Council
FenPT	Fenpeat
Flatfishes	Bony fish of the order Pleuronectiformes; includes plaice, soles, flounders, turbot and their relatives.

Term, Abbreviation or Acronym	Description
Flat formation	A method of arranging electrical cable ducts
FLiDAR	Floating Light Detecting and Ranging
FLO	Fisheries Liaison Officer
FLOWW	Fisheries Disruption Settlements and Community Funds
FMMS	Fisheries Management and Mitigation Strategy (Volume 9, Appendix 16.2 of EIAR)
FPV	Fall Pipe Vessels
FRA	Flood Risk Assessment
FRM	Flood Risk Management
FSA	Formal Safety Assessment
FTE	Full Time Equivalent
GAA	Gaelic Athletic Association
GACP	Galvanic Anode Cathodic Protection
Gadoid	Bony fish of the order Gadiformes; includes cod, haddock, hake and their relatives.
GCA	Grid Connection Assessment
GCh	Gravels derived from chert
GDA	Greater Dublin Area
GDRCoP	Greater Dublin Regional Code of Practice
GSDSDS	Greater Dublin Strategic Drainage Study
GEIA	Guidelines for planning authorities and An Bord Pleanála on carrying out Environmental Impact Assessment (published by Department of Housing, Local Government and Heritage in 2018)
GEP	Good Ecological Potential
GES	Good Ecological Status
GGBFS	Ground Granulated Blast-Furnace Slag
GGBS	Ground Granulated Blast-Furnace Slag
GGr	Gravels derived from granite
GHG	Greenhouse Gas
GI	Ground Investigation
GIS	Geographic Information System
GIS	Gas insulated switchgear

Term, Abbreviation or Acronym	Description
GIS building(s)	Gas Insulated Switchgear (GIS) buildings will be located in each substation compound in the grid facility. The purpose of these buildings is to house electrical infrastructure used to switch, separate, transform, measure and distribute electricity.
GLC	Ground Level Concentrations
GLPSsS	Gravels derived from Lower Palaeozoic sandstones and shales
GLs	Gravel derived from limestone
GLVIA	Guidelines for Landscape and Visual Impact Assessment
GLVIA3	Guidelines for Landscape and Visual Impact Assessment: Third Edition
Gmp	Gravels derived from metamorphic rocks
GNI	Gas Networks Ireland
GPR	Ground Penetrating Radar
GPS	Global Positioning System
Grid Connection Point	The point where the onshore 220kV underground cable connects to the existing transmission system – at the existing Belcamp substation and the consented Belcamp extension project (F23A/0040)
Grid Facility	The grid facility comprises of the compensation substation and the Bremore substation together with ancillary infrastructure.
GSI	Geological Survey Ireland
GT	Gross Tonnage
GVA	Gross Value Added
GW	Gigawatt. 1GW is equivalent to 1,000MW
GWB	Groundwater Bodies
GWP	Global Warming Potential
ha	Hectares
HA	Hydrometric Area
Habitats Directive	EU Directive on the conservation of natural habitats, wild fauna and flora (92/43/EEC), commonly known as “the Habitats Directive”, was adopted in 1992, came into force in 1994 and was transposed into Irish law in 1997.
HAT	Highest Astronomical Tide
HCA	UK Homes and Communities Agency
HDD	Horizontal Directional Drilling
HDD Contractor Compound	HDD contractor compounds will be required at various locations to facilitate HDD activities including the landfall site, railway crossing, M1

Term, Abbreviation or Acronym	Description
	crossing and various watercourse crossings where either an offline or inline HDD option is selected.
HDPE	High Density Polyethylene
HDV	Heavy Duty Vehicle
HEV	Historic Environment Viewer
HF	High Frequency
HGV	Heavy Goods Vehicle
HIA	Health Impact Assessment
HLC	Historic Landscape Character
HLV	Heavy Lift Vessel
HMWB	Highly Modified Water Bodies
HP	High Pressure Gas Pipeline
hPa	Hectopascals
HSA	Health and Safety Authority
HSE	Health Service Executive
HTV	Heavy Transport Vehicle
HV	High Voltage
HVAC	High Voltage Alternating Current
HVDC	High Voltage Direct Current
HWM	High water mark as shown on the Ordnance Survey Ireland Historic 1888 -1913 25-inch mapping
Hydromorphology	Hydromorphology is a term used in river basin management to describe the hydrological (water flow, energy etc.) and geomorphological (surface features) processes and attributes of rivers, lakes, estuaries and coastal waters.
Hz	Hertz
IAA	Irish Aviation Authority
IAIA	International Association for Impact Assessment
IALA	International Association of Marine Aids to Navigation and Lighthouse Authorities
IAQM	Institute of Air Quality Management
IC	Impressed Current
ICAO	International Civil Aviation Organization

Term, Abbreviation or Acronym	Description
ICE	Inventory of Carbon and Energy Database
ICES	International Council for the Exploration of the Sea
ICCP	Impressed Current Cathodic Protection
ICF	Irish Concrete Federation
ICOMOS	International Council of Monuments and Sites
IC1	Interconnector 1 Scotland to Ireland (natural gas)
IC2	Interconnector 2 Scotland to Ireland (natural gas)
IEL	Industrial Emissions Licence
IEMA	Institute of Environmental Management and Assessment
IES	Institute of Environmental Sciences
IFI	Inland Fisheries Ireland
IFP	Instrument Flight Procedure
IFR	Instrument Flight Rules
IGI	Institute of Geologists of Ireland
INDCs	Intended Nationally Determined Contributions
Indirect Effect	Indirect Effects (a.k.a. Secondary or Off-site Effects) are effects on the environment, which are not a direct result of the project, often produced away from the project site or because of a complex pathway (EPA 2022).
Inter-array cables (IAC)	These are the subsea electrical cables that will link the wind turbine generators to each other and link the wind turbine generators to the offshore substation platform.
Invasive species	An invasive species is a plant, fungus, or animal species that is not native to a specific location.
IMO	International Maritime Organization
INDCs	Intended Nationally Determined Contributions
INFOMAR	INFOMAR is a DECC funded joint programme between the Geological Survey Ireland and the Marine Institute, which surveys Irish marine territory and creates a range of integrated mapping products of the physical, chemical and biological features of the seabed.
IOA	Institute of Acoustics
IOF	Ornithological features
IOM	Isle of Man
IPC	Integrated Pollution Control
IPCC	Intergovernmental Panel on Climate Change

Term, Abbreviation or Acronym	Description
IPHI	Institute of Public Health in Ireland
IPI	Irish Planning Institute
IRCG	Irish Coast Guard
IrSTCSsS	Irish sea till derived from Cambrian sandstones and shales
IrSTLPSsS	Irish Sea Till derived from Lower Palaeozoic sandstones and shales
IrSTLs	Irish sea till derived from limestones
ISMA	Irish Sea Marine Assessment
ISMP	Invasive Species Management Plan
ISO	International Organization for Standardization
ITM	Irish Transverse Mercator
I&OU	Infrastructure and Other Users
IWeBS	Irish Wetland Bird Survey
Joint Bay	A joint bay is an underground chamber which facilitates the pulling-through of cables through pre-installed cable ducts. These chambers will “joint” consecutive lengths of cables into one continuous overall circuit within a controlled environment.
JTCs	Junction Turning Counts
JUV	Jack-up Vessels
KER	Key ecological receptors – Ecological receptors include any living organisms (other than humans), the habitat which supports such organisms, or natural resources which could be adversely affected by the proposed development
kg	Kilogram
kHz	Kilohertz
KIS-ORCA	Offshore Renewable & Cable Awareness
km	Kilometre
kt	Kilotonnes
kV	Kilovolt
kJ	Kilojoules
KPI	Key Performance Indicator
kW	Kilowatt (equivalent to 1,000 watts)
kWhr	Kilowatt-hour
LA10	LA10 is the A-weighted sound pressure level obtained by using the fast time-weighting (F) that is exceeded for 10% of the time interval

Term, Abbreviation or Acronym	Description
	considered (denoted by T). It is generally used to describe road traffic noise.
LA90	LA90 is a parameter that is widely used to quantify background noise and generally reflects the soundscape in the lulls between individual events. It is the A-weighted sound pressure level that is exceeded for 90% of a given time interval.
Lac	Lacustrine sediments
LAeq	A-weighted equivalent continuous sound level
LAM	Local Area Model
Land Use	The use and management of the natural, semi-natural and built environment.
Landfall site	The landfall site includes all infrastructure from where the offshore export cable comes onshore to where it connects to the compensation substation. This includes the area from where the offshore export cables are brought onshore, the relevant construction compound(s), TJB, HDD under the Irish Rail line, and where the onshore export cable connects to the compensation substation.
Landscape Character Area	Distinct types of landscape which are generic in character in that they may occur in different parts of the country, but wherever they are they share broadly similar combinations of geology, topography, drainage patterns, vegetation and historical land use and settlement pattern.
LAP	Local Area Plan
LAT	Lowest Astronomical Tide
LCC	Louth County Council
LEBM	Low energy bound mix
LED	Light Emitting Diode
LEVs	Low Emission Vehicles
LF	Low Frequency
LGV	Light Goods Vehicle
LIDAR	A remote sensing technology that measures distance by illuminating a target with a laser and analysing the reflected light
LP	Low Pressure Gas Pipeline
LNG	Liquified Natural Gas
LMP	Lighting and Marking Plan (Volume 9, Appendix 17.3 of EIAR)
LOA	Length Overall
LoD	Limits of Deviation
LoLo	Lift-on/Lift-off
LoW	List of Waste

Term, Abbreviation or Acronym	Description
LV	Low Voltage
LVIA	Landscape and Visual Impact Assessment
LWM	Low Water Mark
m	Metres
m ³	Cubic Meter
MAC	Maritime Area Consent, the right to occupy a part of the maritime area for the permitted maritime use.
made	Made ground
Mag	Magnetometer which is an instrument used to measure magnetic fields at a particular location.
Magneto-sensitive	Ability to sense magnetic fields.
Magnitude	The size, extent and duration of an impact
MAP	Maritime Area Planning
MAP Act	Maritime Area Planning Act
MARA	Maritime Area Regulatory Authority
MarESA	Marine Evidence Based Sensitivity Assessment
Marine Processes	Relates to the EIA topic of Marine Geology, Oceanography and Physical Processes
Maritime Area Consent Boundary	The MAC boundary is the boundary of the offshore area which the holder of the MAC has the right to occupy
MarLIN	The Marine Life Information Network
MarSands	Marine sands and gravels
MarSed	Marine / estuarine sediments
MASP	Metropolitan Area Strategic Plan
MBBS	Multibeam Backscatter
MBES	Multi-beam echo sounder, an acoustic marine survey tool used to map the seabed.
mBGL	Metres Below Ground Level
Mbs	Marine Beach Sands
MCA	Multi-Criteria Analysis
MCIB	Marine Casualty Investigation Board
MDS	Maximum Design Scenario
MCC	Meath County Council

Term, Abbreviation or Acronym	Description
Mesc	Estuarine silts and clays
MFE	Mass Flow Excavation
mg / m ³	Milligrams per cubic metre
MGN	Marine Guidance Note
MHWN	Mean High Water Neap (tides)
MHWS	Mean High Water Spring (tides)
MI	Marine Institute
MINNS	Marine Invasive Non-Native Species
Mitigation Measure	Measure which would avoid, reduce, or remediate an impact.
MLWN	Mean Low Water Neap (tides)
MLWS	Mean Low Water Spring (tides)
MMMP	Marine Mammal Mitigation Protocol (Appendix 14.4 of Volume 9 of EIAR)
MMO	Marine Management Organisation
MMO	Marine Mammal Observer
MMO/PAM operator	Marine Mammal Observer/Passive Acoustic Monitoring operator
MNR	Mean Neap (tide) Range
mOD	Metres Above Ordnance Datum Malin Head
MP	Medium Pressure Gas Pipeline
MPA	Marine Protected Areas
MPCP	Marine Pollution Contingency Procedure
MPDM	Maritime Planning and Development Management Act.
MRF	Materials Recovery Facility
m/s	Meters per Second
MSA	Million Standard Axles
MSFD	Marine Strategy Framework Directive (Directive 2008/56/EC)
MSL	Mean Sea Level
MSO	Marine Survey Office
MSR	Mean Spring (tide) Range
MSW	Municipal Solid Waste
Mt	Megatonnes

Term, Abbreviation or Acronym	Description
Multi-beam echo sounder (MBES)	MBES is an acoustic marine survey tool used to map the seabed.
MV	Medium Voltage
MVA	Megavolt-Ampere
MW	Megawatt (equivalent to 1,000KW)
N ₂ O	Nitrous Oxide
NAF	National Adaptation Framework
NAS	Noise Abatement System
Natura 2000 sites or European Sites	Sites designated under the Habitats and Birds Directives (includes SACs and SPAs)
Natura Impact Statement (NIS)	A statement, for the purposes of Article 6 of the Habitats Directive, of the implications of a proposed development, on its own or in combination with other plans or projects, for one or more than one European site, in view of the conservation objectives of the site or sites
NBAP	National Biodiversity Action Plan
NBDC	National Biodiversity Data Centre
NDB	Non-Directional Beacon
NDC	National Determined Contributions
NDP	National Development Plan
NECP	National Energy and Climate Plan
NEDS	National Energy Demand Strategy
NETN	National Electricity Transmission Network
NFGWS	National Federation of Group Water Schemes
NG4	Noise Guidance Note
NH ₃	Ammonia
NHA	Natural Heritage Area
NI	Northern Ireland
NIAH	National Inventory of Architectural Heritage
NIEA	Northern Ireland Environment Agency
NISA	North Irish Sea Array
nm	Nautical Mile
NM	Noise Measurement
NM	Noise Monitoring

Term, Abbreviation or Acronym	Description
NMI	National Museum of Ireland
NMPF	National Marine Planning Framework
NMS	National Monuments Service
NMVOC	Non-methane volatile organic compounds
NO	Nitric Oxide
NO2	Nitrogen Dioxide
North Irish Sea Array (NISA) Offshore Wind Farm	The North Irish Sea Array (NISA) Offshore Wind Farm is an offshore wind farm located off the east coast of Ireland, off counties Dublin, Meath, and Louth. The proposed development is comprised of onshore and offshore infrastructure.
North Irish Sea Array Windfarm Limited (Ltd)	North Irish Sea Array Windfarm Limited (Ltd) is the Developer. The Developer is a 50/50 joint venture between Statkraft Ireland Ltd and Copenhagen Infrastructure Partners P/S.
north, south, east, west, etc.	Lower case. Compound directions take hyphens, e.g. north-west.
NOx	Nitrogen Oxides
NOAA	National Oceanic and Atmospheric Administration
NOTAM	Notice to Airmen
NPF	National Planning Framework
NPO	National Policy Objective
NPWS	National Parks and Wildlife Services
NRA	Navigational Risk Assessment
NRW	Natural Resources Wales
NSIP	Nationally Significant Infrastructure Projects
NSLs	Noise sensitive locations
NSO	National Strategic Outcomes
NSR	Noise Sensitive Receptors
NSTA	North Sea Transition Authority
NTA	National Transport Authority
NtMs	Notice to Mariners
NUC	Not Under Command
Nursery grounds	Areas important for the development of juvenile fish and shellfish.
NWIS cSPA	North-west Irish Sea candidate Special Protection Area
O3	Ozone

Term, Abbreviation or Acronym	Description
OD	Outside Diameter
Offshore EMP	Offshore Environmental Management Plan (EMP) (Appendix 9.1 of Volume 9)
Offshore export cable corridor	The specific corridor of seabed (seaward of high water mark) from the array area to the landfall site, in which the offshore export cable route will be located. Referred to as the ECC.
Offshore export cable(s)	Comprises of 2 No. subsea 220kV HVAC cables linking the offshore substation platform to the transition joint bay (TJB) within the landfall site.
Offshore infrastructure	This relates to the aspects of the proposed development located seaward of the HWM
Offshore development area	That area within the proposed development boundary located seaward of the HWM
Offshore substation platform (OSP)	The OSP is the offshore electrical structure which contains the equipment needed to connect the WTGs to the offshore export cables.
Onshore CEMP	Onshore construction environment management plan (Appendix 9.1 of Volume 9)
Onshore cable route	This is the route taken by the onshore cable(s) which links the Bremore 220kV substation to the existing Belcamp 220kV substation.
Onshore cable(s)	The onshore underground 220kV HVAC cables will connect Bremore substation to the existing Belcamp substation. This will comprise of up to 6 No. power cables and 2 No. fibre optic cables.
Onshore export cable(s)	Comprises onshore underground 220kV HVAC cables which will be routed from the transition joint bay at the landfall site connecting to the grid facility.
Onshore development area	That area within the proposed development boundary located landward of the HWM
Onshore infrastructure	This relates to the aspects of the proposed development located landward of the HWM
OPC	Ordinary Portland Cement
OPERA	Operational Programme for the Exchange of Weather Radar Information
Operation and Maintenance Facility (OMF)	The location from where the daily operations and normal repairs, replacement of parts and structural components, and other activities needed to operate and maintain the proposed development will be performed during its lifetime.
Operational Phase	This phase refers to the processes and activities implemented following the Construction Phase
OPW	Office of Public Works
ORE	Offshore Renewable Energy
ORESS 1	ORESS 1 Offshore Renewable Energy Support Scheme - the first Offshore Auction run under the Government of Ireland's Renewable

Term, Abbreviation or Acronym	Description
	Electricity Support Scheme and is a pivotal component of the Programme for Government and the Climate Action Plan 2024.
OREDP	Offshore Renewable Energy Development Plan
OREDP II	Offshore Renewable Energy Development Plan II
OREI	Offshore Renewable Energy Installations
OS	Ordnance Survey
OSI	Ordnance Survey Ireland
OSPAR	Oslo/Paris Convention (for the Protection of the Marine Environment of the North-East Atlantic)
OSV	Offshore Supply Vessels
OUV	Outstanding Universal Value
OWF	Offshore Wind Farm
O&M	Operation and Maintenance
Ovigerous	Carrying or bearing eggs.
PAM	Passive Acoustic Monitoring
Pb	Lead
PC	Process Contribution
PCBs	Polychlorinated Biphenyls
PEC	Predicted Environmental Concentration
PEIR	Preliminary Environmental Information Report
PEL	Probable Effects Level
Pelagic	Living and feeding in the water column.
PfG	Programme for Government
Phase One Projects	The Phase One Projects refer to the five east coast offshore wind projects that participated in the ORESS 1 auction in 2023. These projects are: Dublin Array, Codling Wind Park, Oriel Windfarm, Arklow Bank, and the North Irish Sea Array (the proposed development).
Physical connection to transmission system	Construction of the cable run-in and tie-in to the existing Belcamp substation.
PIANC	World Association for Waterborne Transport Infrastructure
Planning Acts	Planning and Development Act 2000, as amended
Planning boundary	The boundary for planning purposes of the proposed development, i.e. the red line boundary – shown on the planning drawings. All of the proposed development is located within the planning boundary
PLL	Potential Loss of Life

Term, Abbreviation or Acronym	Description
PLONOR	Pose Little or No Risk to Environment
PM	Particulate <atter
PM10	Particulate matter of less than 10 microns
PM2.5	Particulate matter of less than 2.5 microns
pNHA	Proposed Natural Heritage Area
PPV	Peak Particle Velocity
Pre-lay grapnel run (PLGR)	A PLGR is a pre-construction operation for the offshore components of the proposed development. PLGR will remove any obstacles that could obstruct the cable plough during offshore export cable installation.
PRFs	Potential Roost Features
Project Option 1	Project Option 1 consists of 49 WTGs with 250m rotor diameter
Project Option 2	Project Option 2 consists of 35 WTGs with 276m rotor diameter
ProPG	Professional Practice Guidance on Planning and Noise
Proposed development	This refers to the overall Offshore Wind Farm project, which is the subject of the planning application, and which includes all offshore and onshore infrastructure
Proposed development boundary	This is the development or red line boundary within which all of the proposed development is located.
PSA	Particle Size Analysis
PSAC	Portmarnock Sub Aqua Club
PSO	Public Service Obligation
PSR	Primary Surveillance Radar
PSZ	Public Safety Zone
PTS	Permanent Threshold Shift
PV	Solar Photo Voltaic
PVA	Population Viability Analysis
PVC	Polyvinyl Chloride
PWMS	Precautionary Working Method Statement
QI	Qualifying Interest
QoS	Quality of Service
RA	Residential area
RAF	Royal Air Force (UK)
RAM	Restricted in Ability to Manoeuvre

Term, Abbreviation or Acronym	Description
RBD	River Basin District
RBMP	River Basin Management Plan
rBWD	Revised Bathing Water Directive (Directive 2006/7/EC)
Rck	Bedrock outcrop or subcrop
Receiving/Baseline Environment	This is the term used for the baseline environment against which the impacts from the project are assessed.
Receptor	Something that could be affected by the proposed development, such as people, an ecological system, property, or a water body. Receptors should be identified and illustrated in a map/figure where discussed in your assessment.
RED III	Renewable Energy Directive (EU) 2023/2413
REI	Renewable Energy Infrastructure
RES-E	Electricity Generated from Renewable Energy Sources
RESS	Renewable Electricity Support Scheme
RFC	Royal Flying Corps (UK)
RFI	Request for Further Information
RLB	Red Line Boundary
RLoS	Radar Line of Sight
RNAS	Royal Navy Air Service (UK)
RNLI	Royal National Lifeboat Institution (UK)
RMP	Record of Monuments and Places
RoRo	Roll-on/Roll-off
ROV	Remotely Operated Vehicles
RPA	Root Protection Area
RPO	Regional Policy Objectives
RPS	Record of Protected Structures
RSA	Road Safety Authority
RSES	Regional Spatial and Economic Strategy
RSL	Relative Sea Level
RWMPO	Regional Waste Management Planning Offices
SAC	Special Area of Conservation

Term, Abbreviation or Acronym	Description
Salmonid	Any species of the family (Salmonidae) of elongate bony fishes (such as a salmon or trout) that have the last three vertebrae upturned (i.e. ray-finned fish).
SAR	Search and Rescue
SBJ	Suction Bucket Jackets
SBP	Acoustic sub-bottom profilers (SBP) are marine survey tools used to determine physical properties of the sea floor and gather geological information a few metres below the sea floor.
SCADA	Supervisory Control and Data Acquisition
SC-DMAP	South Coast Designated Maritime Area Plan
SCI	Special Conservation Interest
SDG	Sustainable Development Goal
SDR	Standardised Death Rate
SDZ	Strategic Development Zone
SEA	Strategic Environmental Assessment
SEAI	Sustainable Energy Authority of Ireland
SEL	Sound Exposure Level
SELcum	Cumulative Sound Exposure Level
Sensitive Receptor	Physical or natural resource, special interest or viewer group that may experience an impact
Sensitivity	Vulnerability of a sensitive receptor to change
SFC	Sustainable Fisheries Community
SFPA	Sea Fisheries Protection Authority
SHD	Strategic Housing Development
Shellfish	Shell-bearing aquatic invertebrates used as food; includes various species of crustaceans, bivalves, and gastropods.
SI	Statutory Instruments
Side Scan Sonar (SSS)	This is a marine survey method used to create an image of large areas of the sea floor.
SISAA	Supporting Information for Screening for Appropriate Assessment
SLoO	Single Line of Orientation
SLVIA	Seascape, Landscape and Visual Impact Assessment
SMR	Sites and Monuments Record
SNCB	Statutory Nature Conservation Body

Term, Abbreviation or Acronym	Description
SNH	Scottish Natural Heritage
SO ₂	Sulphur Dioxide
SO _x	Sulphur Oxides
SOLAS	Safety of Life at Sea
Sound power level	The sound power level (L _w) of a source is a measurement of the total acoustic power it radiates. The sound power level is an intrinsic characteristic of a source (analogous to its volume or mass), which is not affected by the environment within which the source is located.
SOV	Service Operation Vessels
SPA	Special Protection Area
Spawning grounds	Areas where fish and shellfish aggregate to release their gametes for fertilisation or locations where egg cases are deposited.
SPL	Sound Pressure Level
SPL _{peak}	Peak Sound Pressure Level
SPM	Suspended Particulate Matter
SPS	Subsea Protection Systems
SPZ	Source Protection Zone
Study area	The area which is characterised and assessed for individual receptors in each EIAR chapter
Substation construction compound	One substation construction compound will be established in the grid facility site and will facilitate the construction of the compensation substation and the Bremore substation.
SSC	Suspended Sediment Concentration
SSCV	Semi-Submersible Crane Vessel
SSR	Secondary Surveillance Radar
STECF	Scientific, Technical and Economic Committee for Fisheries
SUA	Special Use Airspace
SuDS	Sustainable Drainage Systems
Sulphur Hexafluoride (SF ₆)	SF ₆ is used as an electrical insulating material within electrical infrastructure such as breakers and transformers.
SVC	Static VAR compensator
Swim bladder	Gas-filled organ of many bony fish; used to control buoyancy.
SWO	Storm Water Overflow
TAC	Total Allowable Catch

Term, Abbreviation or Acronym	Description
Tailte Éireann	Ordnance Survey Ireland Geohive (OSI) (now called Tailte Éireann)
TCA	Townscape Character Assessment
TCSsS	Till derived from Cambrian sandstones and shales
TdlMr	Tidal Marsh
TDP	Transmission Development Plan
TEL	Threshold Effect Level
TGr	Till derived from granites
TICCIH	The International Committee for the Conservation of the Industrial Heritage
TII	Transport Infrastructure Ireland
Transition Joint Bay (TJB)	Infrastructure to facilitate the transition from offshore export cables to onshore export cables at the landfall site
TLPSsS	Till derived from Lower Palaeozoic sandstones and shales
TLs	Till derived from limestones
TMp	Till derived from metamorphic rock
Transmission System	The electrical network of overhead lines, cables and substations operated by EirGrid Group at transmission voltage levels on the Island of Ireland
Trefoil formation	A method of arranging electrical cable ducts
TP	Transition Piece
TPO	Tree Preservation Order
TQz	Till derived from quartzites
TSHD	Trailer Suction Hopper Dredger
TSS	Traffic Separation Scheme
TTS	Temporary Threshold Shift
UCC	University College Cork
Uisce Éireann	Irish Water
UKEA	United Kingdom Environment Agency
UKHA	United Kingdom Highways Agency
UKHO	United Kingdom Hydrographic Office
UKFEN	United Kingdom Fisheries Economic Network
UKCS	United Kingdom Continental Shelf
UNCLOS	United Nations Convention on the Law of the Sea

Term, Abbreviation or Acronym	Description
UNECE	United Nations Economic Commission for Europe
UNEP	United Nations Environment Program
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNFCCC	United Nations Framework Convention on Climate Change
UPS	Uninterruptible Power Supply
Urban	Urban (ground made)
UV	Ultraviolet
UWWT	Urban Waste-Water Treatment
UXO	Unexploded ordinance. Typically, shells or bombs from World War I or World War II, which did not explode when deployed.
VDV	Vibration Dose Value
VER	Valuable Ecological Receptor
VFR	Visual Flight Rules
VHF	Very High Frequency
VOCs	Volatile Organic Compound
VMP	Vessel Management Plan
VMS	Vessel Monitoring System
VP	Viewpoint
VRDP	Visual Representation of Development Proposals
VSLs	Vibration Sensitive Locations
WADT	Weekly Average Daily Traffic
Water Body	A surface water body as defined under the Water Framework Directive (WFD) i.e. a river/stream, lake, transitional, coastal, or groundwater body.
WCP	Waste Collection Permit
WEEE	Waste Electrical and Electronic Equipment
WEI	Wind Energy Ireland
WFD	Water Framework Directive (Directive 2000/60/EC)
WHO	World Health Organization
WHS	World Heritage Site
WSN	Water Supply Network
WTG	Wind Turbine Generator

Term, Abbreviation or Acronym	Description
WWTS	Wastewater Treatment System
Wx	Abbreviation used throughout the EIAR to identify watercourse crossings within the proposed development.
ZAP	Zone of Archaeological Potential
Zone of Influence (ZoI)	An area within which environmental impact arising from a certain activity may occur.
ZTV	Zone of Theoretical Visibility