Sure Partners Limited

ARKLOW BANK WIND PARK PHASE 2 ONSHORE GRID INFRASTRUCTURE

ENVIRONMENTAL IMPACT ASSESSMENT REPORT

VOLUME II Glossary



Glossary and Abbreviations

AA Appropriate Assessment – An assessment of the potential adverse

effects of a plan or project (in combination with other plans or projects) on the Natura 2000 network of European designated sites

for biodiversity as defined by the Habitats Directive

AADT Annual Average Daily Traffic

AAP Area of Archaeological Potential
AAWT Annual Average Weekday Traffic

ABP An Bord Pleanála

ABWP Arklow Bank Wind Park

AC Alternating Current

ACA Architectural Conservations Areas
AEP Annual Exceedance Probability
AH Archaeological Heritage sites

AIS Air Insulated Switchgear

AONB Area of Outstanding Natural Beauty

AQS Air Quality Standards

Archaeological

Heritage

the term 'archaeological heritage' is applied to objects, monuments, buildings or landscapes of an (assumed) age typically older than AD 1700 (and recorded as archaeological sites within the Record of

Monuments and Places)

Architectural Heritage

The term 'architectural heritage' is applied to structures, buildings, their contents and settings of an (assumed) age typically younger

than AD 1700

For the purpose of this report the terms 'architectural heritage' and 'built heritage' have the same intended meaning and are used

interchangeably.

Area of Archaeological Potential An area with known potential for significant archaeological remains as identified in the Wicklow County Development Plan 2016 -2022

Arklow Bank Wind Park Phase 1

The 7 turbines and associated grid cable back to Arklow ESB switch station owned and operated by Arklow Energy Limited under a sublease to the main foreshore lease

Arklow Bank Wind Park Phase 2

"The Project" the combination of the individual components listed below:

- Arklow Bank Wind Park Phase 2 Offshore Infrastructure: This includes all elements of the project consented under the existing Foreshore Lease.
- Arklow Bank Wind Park Phase 2 Onshore Grid Infrastructure: This relates to the onshore grid infrastructure.

- Arklow Bank Wind Park Phase 2 Operations and Maintenance Facility Onshore Infrastructure: This includes the onshore infrastructure at the Operations and Maintenance Facility.
- Arklow Bank Wind Park Phase 2 Operations and Maintenance Facility Nearshore Infrastructure: This includes the required berthing pontoons/nearshore infrastructure.

Arklow Bank Wind Park Phase 2

existing Foreshore Lease.

Offshore Infrastructure

Arklow Bank Wind Park Phase 2

Onshore Grid Infrastructure

This relates to the onshore grid infrastructure Strategic Infrastructure Development (SID) application – the 'proposed development'

Arklow Bank Wind

Park Phase 2 Operations and Maintenance Facility Onshore Infrastructure This includes the onshore infrastructure at the Operations and Maintenance Facility.

This includes all elements of the project consented under the

Arklow Bank Wind

Park Phase 2 Operations and Maintenance Facility Nearshore This includes the required berthing pontoons/nearshore infrastructure.

Assessment area

Infrastructure

Study area considered in the environmental assessment for a given

topic

AVR Accurate Visual Representation

BCI Bat Conservation Ireland

BH Built Heritage sites

Birds Directive European Council Directive 2009/147/EC of the European

Parliament and of the Council on the conservation of wild birds

BNL Basic Noise Level

BOCCI Birds of Conservation Concern in Ireland

BRAG Black, Red, Amber or Green Brief Effects Effects lasting less than a day

BS British Standard

BSI British Standards Institution

BWD Directive 2006/7/EC concerning the management of bathing water

quality (Bathing Waters Directive)

CAD Computer Aided Design

CAFE Clean Air For Europe Directive 2008/50/EC

CAT Cable Avoidance Tool

CBGM Cement Bound Granular Mixture

CCTV Closed-circuit Television
CDP County Development Plan

CE Circular Ecology

C&D

CEM Community Engagement Manager

CEMP Construction Environmental Management Plan

Construction and Demolition

CFA Continuous Flight Auger

CFRAM Catchment Flood Risk Assessment Mapping

COMAH Control of Major Accidents Hazards involving Dangerous

Substances

COVID-19 Coronavirus Disease 2019

CIEEM Chartered Institute of Ecology and Environmental Management

CITES Convention on International Trade in Endangered Species
CIRIA Construction Industry Research and Information Association

CPO Compulsory Purchase Order

CRTN Calculation of Road Traffic Noise

CSE Cable Sealing End

CSM Conceptual Site Model
CSO Central Statistics Office

CTMP Construction Traffic Management Plan

Cultural Heritage 'Cultural Heritage' where used generically, is an over-arching term

applied to describe any combination of archaeological, architectural

and cultural heritage features.

The term 'cultural heritage', where used specifically, is applied to other (often less tangible) aspects of the landscape such as historical event, folklore memories and cultural associations. This designation can also accompany an archaeological or architectural designation or describe features that have a more recent origin but retain cultural

heritage significance.

Cumulative effect The addition of many minor or significant effects, including effects

of other projects, to create larger, more significant effects. (EPA,

2017)

CWMP Construction Waste Management Plan

DAFM Department of Agriculture, Food and Marine

DC Direct Current

DCCAE Department of Communications, Climate Action and Environment

DECC Department of Environment, Climate and Communications

Decibel (dB) The ratio of sound pressures, which we can hear, is a ratio of 106

> (one million: one). For convenience, therefore, a logarithmic measurement scale is used. The resulting parameter is called the 'sound pressure level' (Lp) and the associated measurement unit is the decibel (dB). As the decibel is a logarithmic ratio, the laws of

logarithmic addition and subtraction apply.

DHLGH Department of Housing, Local Government and Heritage DHPCLG Department of Housing, Planning, Community and Local

Government

DL Demesne Landscapes

DMRB Design Manual for Roads and Bridges

DN 'Do Nothing' Scenario - The environment as it would be in the

future should the proposed project not be developed

DS 'Do Something' Scenario - The environment should the proposed

project be developed

EC European Council

ECoW Environmental (Ecological) Clerk of Works

ED **Electoral Division**

Effect A change resulting from the implementation of a project

EIA **Environmental Impact Assessment**

EIAR Environmental Impact Assessment Report

EIS Environmental Impact Statement

ELF-EMF Extremely Low Frequency Electric and Magnetic fields

EMF Electro Magnetic Fields

EMI Electro Magnetic Interference

EPA Environmental Protection Agency ERT Electrical Resistivity Tomography

ESB Electricity Supply Board ETS Emissions Trading Scheme

EU **European Union**

European designated

site

The Natura 2000 site network, i.e. Special Areas of Conservation -(including candidate SACs) protected under the provisions of the Habitats Directive and Special Protection Area - (including

proposed SPAs) protected under the provisions of the Birds

Directive

Relating to a river, i.e. fluvial flow is the flow of freshwater Fluvial

Foreshore The area of the land and seabed between the high water mark of

ordinary or medium tides and the 12 nautical mile limit

Foreshore Lease The Arklow Bank Wind Park area in which the wind turbines,

Area foundations, inter-array cables, export cables and offshore

substations will be located.

FRA Flood Risk Assessment
FRS Flood Relief Scheme

GAC Generic Assessment Criteria

GCL Geosynthetic Clay Liner

GDA Greater Dublin Area

GHG Greenhouse Gas

GI Ground Investigation

GIS Gas Insulated Switchgear

GNI Gas Networks Ireland
GOI Government of Ireland

GPR Ground Penetration Radar

GPS Ground Positioning System

GSI Geological Survey of Ireland

GW Gigawatt

GWB Groundwater body
HA Hydrometric Area

Habitat An area or natural environment formed of physical factors such as

soil and moisture that reside in a defined topographical area in

which organisms (fauna and flora) normally live.

Habitats Directive Council Directive 92/43/EEC on the conservation of natural habitats

and of wild fauna and flora

H&S Health and Safety

HDD Horizontal Directional Drilling

HDPE High Density Polyethylene

HGV Heavy Goods Vehicle

HIA Health Impact Assessment

HLGH Housing, Local Government and Heritage

HSA Health Service Authority
HSE Health Services Executive

HV High Voltage

HVAC High Voltage Alternating Current

HWM High Water Mark (Ordinance Survey Maps)

IAQM Institute of Air Quality Management

IARC International Agency for Research on Cancer

ICE Institute of Civil Engineers

ICNIRP International Commission on No-Ionizing Radiation Protection

ICPSS Irish Coastal Protection Strategy Study

Industrial Emissions Licence IEL **Industrial Emissions Directive IED**

IEMA Institute of Environmental Management

IFI Irish Fertilizer Industries Inland Fisheries Ireland IFI

IGBT Insulated Gate Bipolar Transistor IGI Institute of Geologists of Ireland

Indirect Effects Effects, which are not a direct result of the project, often produced

away from or as a result of a complex pathway (EPA, 2017)

Interaction The link between a pressure and the receptor. There must be an

interaction for an impact to occur

Inter-related Likely significant effects arising from the interaction of different (Interactive) Effects

environmental factors that give rise to multiple effects on a single

receptor

IPPC Integrated Pollution and Prevention Control

IROPI Imperative reasons of overriding public interest

ISMP Invasive Species Management Plan **International Standards Organisation** ISO

International Union for Conservation of Nature **IUCN**

kV Kilovolt

LAP Local Area Plan

Landfall The area in which the offshore export cables make landfall and is

the transitional area between the offshore cabling and the onshore

cabling

LCA Landscape Character Area

The equivalent continuous sound level. It is an average and is used L_{Aeq T}

to describe a fluctuating noise in terms of a single noise level over

the sample period (T).

L_{Ar T} The rated noise level, equal to the L_{Aeq} during a specified time

interval (T), plus specified adjustments for tonal character and/or

impulsiveness of the sound.

LED Light Emitting Diode

Local sand and gravel aquifer Lg

LGV Light Goods Vehicle

LI Locally Important LOD Limit of Detection

LoW List of Wastes

LULUCF Land Use, Land Use Change and Forestry

LV Low Voltage
LV Light Vehicle

m metres

MAD Major Accidents and Disasters

MASW Multi-Channel Analysis of Surface Waves

MEC Maximum Export Capacity

MHW Mean High Water

Mitigation This is defined as measures which avoid or reduce environmental

effects which are not included in the design of the proposed development or otherwise included 'up front' in the development

description

MTBM Micro-Tunnel Boring Machine

MV Medium Voltage

MW Megawatt

NACE Statistical Classification of Economic Activities in the EU

Natura 2000 the European network of nature conservation areas, including

special areas of conservation, and special protection areas under the

Birds Directive, provided for by Article 3(1) of the Habitats

Directive

NBDC National Biodiversity Data Centre

NDP National Development Plan

NECP National Energy and Climate Plan

NETN National Electricity Transmission Network

NG4 Environmental Protection Agency (EPA) 'Guidance Note for Noise:

Licence Applications, Survey and Assessments in Relation to

Scheduled Activities'

NHA National Heritage Area - the habitats present or which holds species

of plants and animals whose habitat needs protection

NIAH National Inventory of Architectural Heritage

NIS Natura Impact Statement

NMFS National Marine Fisheries Service

NMPF National Marine Planning Framework

NPF National Planning Framework

NPWS National Parks and Wildlife Service

NRA National Roads Authority

NSAI National Standards Authority of Ireland

NSL Noise Sensitive Locations
NTS Non-Technical Summary

NVMP Noise and Vibration Management Plan

OD Outer Diameter

OGI Onshore Grid Infrastructure

OH Overhead

OHL Overhead Line

OMF Operations and Maintenance Facility

OPW Office of Public Works

ORE Offshore Renewable Energy

OREDP Offshore Renewable Energy Development Plan

OSI Ordnance Survey Ireland

OSP Offshore Substation Platform

PE Population Equivalent

PfG Programme for Government

PFRA Preliminary Flood Risk Assessment

PIR Pre-Insertion Resistors

Planning boundary The boundary for planning purposes of the project in question, i.e.

the red line boundary

PM Particulate Matter

pNHA Proposed Natural Heritage Area

PPE Personal Protective Equipment

PPV Peak Particle Velocity

The Project The overall Arklow Bank Wind Park Phase 2 development,

comprising all individual components

Proposed The specific title of the proposed development is called "Arklow development Bank Wind Park Phase 2 Onshore Grid Infrastructure". This is the

development which is the subject of the EIAR. This proposed

development forms part of an overall Project.

PVC Polyvinyl Chloride

Receptor Any ecological or other specific feature that is sensitive to or has the

potential to be affected by a pressure

Residual Effect The degree of environmental change that will occur after the

proposed mitigation measures have taken effect

RESS Renewable Electricity Support Scheme

RMP Records of Monuments and Places

RPS Records of Protected Structures

RSES Regional Spatial and Economic Strategy

RWB River Water Body

SA Surge Arrestor

SAC Special Areas of Conservation SDG Sustainable Development Goals

SEA Strategic Environmental Assessment

Sensitive Receptor Physical or natural resource, special interest or viewer group that

may experience an impact

SEVESO site Sites that are regulated under the EU SEVESO Directives due to the

presence of dangerous substances in sufficient quantities

SF6 Sulphur Hexaflouride gas

Short-term Effects Effects lasting one to seven years

SI Site Investigation

SID Strategic Infrastructure Development

Site The entire area within the planning boundary for the proposed

development

SMR Sites and Monuments Record

SPA Special Protection Area
SPL Sure Partners Limited
SPZ Source Protection Zone

STATCOM Static Synchronous Compensator SWMP Surface Water Management Plan

TAO Transmission Asset Owner

TII Transport Infrastructure Ireland

TJB Transition Joint Bay
TPO Tree Protection Order

TRL Transport Research Laboratory
TSO Transmission System Operator

UKEA UK Environment Agency

UN United Nations

UPS Uninterruptible Power Supply

UXO Unexploded Ordnance

WCC Wicklow County Council

WCDP Wicklow County Development Plan

WFD Water Framework Directive

WHO World Health Organisation Wastewater Treatment Plant WwTP

ZON Zone of Notification

The spatial extent over which an activity is predicted to have an impact on the receiving environment Zone of Influence