

## REFERENCES

### Introduction

Department of the Environment, Community and Local Government (2013). *Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment*. DoEHLG, Dublin.

Environmental Protection Agency (August 2017): *Draft Guidelines on the Information to be Contained in Environmental Impact Assessment Reports*. EPA, Wexford.

Environmental Protection Agency (September 2015): *Draft - Advice Notes on Current Practice (in the preparation on Environmental Impact Statements)*. EPA, Wexford.

Environmental Protection Agency (2003). *Advice Notes on Current Practice in the Preparation of Environmental Impact Statements*. EPA, Wexford.

Environmental Protection Agency (2002). *Guidelines on Information to be Contained in Environmental Impact Statements*. EPA, Wexford.

European Union (2014). *Directive 2014/52/EU*. European Parliament and European Council.

European Union (2011). *Directive 2011/92/EU*. European Parliament and European Council.

Irish Statute Book (2018). European Union (Planning and Development) (Environmental Impact Assessment) Regulations 2018 (S.I. No. 296 of 2018).

Irish Statute Book (2001). *Planning and Development Regulations S.I. No. 600 of 2001*. Stationery Office, Dublin.

Sustainable Energy Authority of Ireland (SEAI), (2018). [www.seai.ie](http://www.seai.ie)

### Site Selection and Alternatives

Bord na Móna (2016) *Sustainability Statement 2030*, Dublin.

Bord na Móna (2011) *Strategic Framework for the Future Use of Peatlands 2030*, Dublin.

Environmental Protection Agency (August 2017): *Draft Guidelines on the Information to be Contained in Environmental Impact Assessment Reports*. EPA, Wexford.

### Background to the Proposed Development

Climate Action Network (CAN) Europe (2018). *Off Target Report*. Brussels.

COP21- 21st session of the Conference of the Parties (COP) to the United Nations Convention

Department of Climate Change, Action & Environment (2017). *Fourth Progress Report on the National Renewable Energy Action Plan*. Dublin

Department of Communications, Climate Action and Environment (2017). National Renewable Energy Action Plan. Dublin

Department of Communications, Climate Action and Environment (July 2017). *National Mitigation Plan 2017*. Dublin

Department of Communications, Energy and Natural Resources (2015). *Ireland's Transition to a Low Carbon Energy Future 2015-2030*. Dublin

Department of Communications, Energy and Natural Resources (2014). *The Green Paper on Energy Policy in Ireland*. Dublin

Department of Communications, Energy and Natural Resources (2013). *Climate Action and Low-Carbon Development National Policy Position Ireland*. Dublin

Department of Communications, Energy and Natural Resources (2012). *Strategy for Renewable Energy 2012 – 2020*. Dublin

Department of Communications, Marine and Natural Resources (2007) *Delivering a Sustainable Energy Future for Ireland: The Energy Policy Framework 2007 – 2020*. Dublin

Department of the Environment, Heritage and Local Government (2007). *National Climate Change Strategy 2007 – 2012*. Stationery Office, Dublin

Department of Housing, Planning and Local Government (2018). *National Planning Framework (NPF) 2018 – 2040*. Dublin

Department of Housing, Planning, Community and Local Government (2017). *Interim Guidelines for Planning Authorities on Statutory Plans, Renewable Energy and Climate Change*. Dublin

Department of Housing, Planning and Local Government (September 2017). *Ireland 2040 – Our Plan*. Dublin

Department of Housing, Planning, Community and Local Government (July 2017). *Interim Guidelines for Planning Authorities on Statutory Plans, Renewable Energy and Climate Change*. Dublin

Department of Housing, Planning, Community and Local Government (August 2017). *Circular PL5/2017*. Dublin

EirGrid (2018). *All Island Generation Capacity Statement 2018 - 2027*. Dublin

EirGrid. *Grid 25 Strategy, A Strategy for the Development of Ireland's Electricity Grid for a Sustainable and Competitive Future*. Dublin

Environmental Protection Agency (2008). *Climate Change – Refining the Impacts for Ireland*. Dublin

Environmental Protection Agency (2018). *Ireland's Greenhouse Gas Emission Projections to 2020- An Update*. Dublin

European Union (EU) Directive on the Promotion of the Use of Energy from Renewable Sources (Directive 2009/28/EC)

Kildare County Council (2018). *Kildare County Development Plan 2017 – 2023*. Kildare.

National Mitigation Plan (NMP), (2017).

SEAI (2017). *Energy in Ireland 1990 - 2016, Sustainable Energy Authority of Ireland*, December 2017). Dublin

SEAI (2016). *Ireland's Energy Targets – Progress, Ambition & Impacts*. Dublin

The Climate Action and Low Carbon Development Act (2015)

## Description of the Proposed Project

Department of Agriculture, Fisheries and Food, Kildare. Environmental Protection Authority (2007). *ACT Environmental Protection Guidelines for Construction and Land Development in the ACT*.

*Forest Harvesting and Environmental Guidelines* (2000).

*Forest Service Forestry and Water Quality Guidelines* (2000).

## Population and Human Health

Central Statistics Office Ireland (2018). *Census Results 2011 & 2016*. [www.cso.ie](http://www.cso.ie)

Central Statistics Office Ireland (2012). *Census of Agriculture 2010 Detailed Results*. [www.cso.ie](http://www.cso.ie)

Department of Communications, Marine and Natural Resources, Expert Group on Health Effects of Electromagnetic Fields, (2007).

Department of the Environment, Heritage and Local Government (2007). *National Climate Change Strategy 2007 – 2012*. Stationery Office, Dublin.

Discover Ireland [www.discoverireland.ie](http://www.discoverireland.ie)

EirGrid (2014). *EMF & You: Information about Electric & Magnetic Fields and the electricity transmission system in Ireland*. Dublin

Fáilte Ireland (2018). *Tourism Facts 2017*. [www.failteireland.ie](http://www.failteireland.ie)

Fáilte Ireland (2018). *2017 Topline Tourism Performance By Region*. [www.failteireland.ie](http://www.failteireland.ie)

Environmental Protection Agency (2018). *Ireland's Final Greenhouse Gas Emissions in 2016*. EPA, Wexford.

Environmental Protection Agency (2017). *Draft Guidelines on the Information to be Contained in Environmental Impact Statements*. EPA, Wexford.

Federal Aviation Administration, *Technical Guidance for Evaluating Selected Solar Technologies on Airports*, (2010).

Kildare County Council (2018). *Kildare County Development Plan 2017 – 2023*. Kildare.

KPMG (2015). *A Brighter Future – The Potential Benefits of Solar PV in Ireland*.

Met Éireann (2013). 30 Year Averages. <http://www.met.ie/climate-ireland/30year-averages.asp>

Met Éireann. *Irish skies are completely covered by cloud for well over fifty percent of the time*. (www.met.ie).

## **Biodiversity, Flora and Fauna**

Anon (2004) Margaritifera. Stage 1 and Stage 2 survey guidelines. Irish Wildlife Manuals, No. 12. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin, Ireland.

Bat Conservation Ireland. - Private Database.

Bat Conservation Trust. (2016) *Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edn)*.

Bern Convention (1982) Convention on the Conservation of European Wildlife and Natural Habitats

Birds Directive (2009/47/EC) – [http://ec.europa.eu/environment/naturelegislation/birdsdirective/index\\_en.htm](http://ec.europa.eu/environment/naturelegislation/birdsdirective/index_en.htm)

Bonn Convention (1992) Convention on the Conservation of Migratory Species of Wild Animals. United Nations Environment Programme.

British Bryological Society (2010) Mosses and Liverworts of Britain and Ireland - A Field Guide.

CIEEM (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland, Terrestrial, Freshwater and Coastal. Chartered Institute of Ecology and Environmental Management.

Collins, J. (2016) Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd Ed.), Bat Conservation Trust - <http://www.bats.org.uk>

DoEHLG (2010) Appropriate Assessment of Plans and Projects in Ireland Guidance for Planning Authorities. Department of Environment, Heritage and Local Government.

DoEHLG (2013) Guidelines for Planning Authorities and An Bord Pleanála on Carrying out Environmental Impact Assessment. Department of the Environment, Community and Local Government

Environmental Impact Assessment Directive (2014/52/EU)

EPA (2003) Advice Notes on Current Practice (in the preparation of Environmental Impact Statements). Environmental Protection Agency.

EPA (2017). Draft revised guidelines on the information to be contained in Environmental Impact Statements. Environmental Protection Agency.

EPA (2002) Guidelines on the information to be contained in Environmental Impact Statements. Environmental Protection Agency.

European Commission (2002). Assessment of plans and projects significantly affecting Natura 2000 sites.

European Union (Birds and Natural Habitats) Regulations 2011 to 2015 - <http://irishstatutebook.ie>

Fossitt. (2000) A Guide to Habitats in Ireland. The Heritage Council

Geological Survey of Ireland <https://jetstream.gsi.ie/iwdds/map.jsp>

Habitats Directive (92/43/EEC) - [http://ec.europa.eu/environment/nature/legislation/habitatsdirective/index\\_en.htm](http://ec.europa.eu/environment/nature/legislation/habitatsdirective/index_en.htm)

Hundt (2012) Bat Surveys: Good Practice Guidelines, 2nd edition. Bat Conservation Trust ISBN-13: 9781872745985.

IFI (2016) Guidelines on the Protection of Fisheries During Construction Works in and Adjacent to Waters.

Inland Fisheries Ireland <https://www.fisheriesireland.ie/Corporate/corporate-publications.html>

Inland Fisheries Ireland <https://www.fisheriesireland.ie/Projects/interactive-gis-map.html> -

Jackson, M. W., et al. (2016) Ireland Red Lists No. 10 Vascular Plants. The IUCN Red List of Vascular Plants.

King, J.L., Marnell, F., Kingston, N., Rosell, R., Boylan, P., Caffrey, J.M., FitzPatrick, Ú., Gargan, P.G., Kelly, F.L., O'Grady, M.F., Poole, R., Roche, W.K. & Cassidy, D. (2011) Ireland Red List No. 5: Amphibians, Reptiles & Freshwater Fish. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.

NBDC - <http://maps.biodiversityireland.ie> - National Biodiversity Data Centre.

NPWS - <http://webgis.npws.ie/npwsviewer/> - National parks and Wildlife Service.

NPWS (2009) Threat Response Plan Otter Lutra 2009-2011. Environment Heritage and Local Government.

NPWS (2017) Margaritifera Sensitive Area map (Version 8)

NPWS Habitat Directive - Article 17 Datasets - <https://www.npws.ie/maps-and-data/habitat-and-species-data>

NRA (2006B) Environmental Assessment and Construction Guidelines. National Roads Authority.

NRA (2008) Guidelines for the Treatment of Otters Prior to the Construction of National Roads Schemes. National Roads Authority.

NRA (2008a) Guidelines for the Crossing of Watercourses during the Construction of National Road Schemes. National Roads Authority.

NRA (2009a). Guidelines for Assessment of Ecological Impacts of National Road Schemes (Revision 2). National Roads Authority.

NRA (2009b) Environmental Impact Assessment of National Road Schemes –A Practical Guide

NRA (2009c) Ecological Surveying Techniques for Protected Flora and Fauna during the Planning of National Road Schemes. National Roads Authority.

NRA. 2006a Guidelines for the Treatment of Badger Prior to the Construction of National Roads Schemes. National Roads Authority.

O'Neill, F.H., Martin, J.R., Devaney, F.M. & Perrin, P.M. (2013) The Irish semi-natural grasslands survey 2007-2012. Irish Wildlife Manuals, No. 78. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Ireland.

Perrin, P, Martin, J, Barron, S, O'Neill, F. McNutt, K, Delaney, A, (2008)

Perrin, P.M., Barron, S.J., Roche, J.R. & O'Hanrahan, B. (2014). Guidelines for a national survey and conservation assessment of upland vegetation and habitats in Ireland. Version 2.0 Irish Wildlife Manuals, No. 79. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.

Planning and Development Acts 2000 – 2015

Preston et al. (2002) New Atlas of the British and Irish Flora: An Atlas of the Vascular Plants of Britain, Ireland, The Isle of Man and the Channel Islands.

S.I. No. 356/2015 - Flora (Protection) Order, (2015) National Survey of Native Woodlands 2003-2008

SI 477/2011 - European Communities (Birds and Natural Habitats) Regulations 2011  
Smith et.al. 2011. Best Practice Guidance for Habitat Survey and Mapping. The Heritage Council.

Stace. (2010). New Flora of the British Isles. Cambridge University Press

Teagasc - <http://gis.teagasc.ie/soils/map.php>

The EU Water Framework Directive (200/60/EC)

Toner, P., Bowman, K., Clabby, K., Lucey, J., McGarrigle, M., Concannon, C., Clenaghan, C., Cunningham, P., Delaney, J., O’Boyle, S., MaCarthaigh, M., Craig, M., and Quinn, R. (2005) Water Quality in Ireland 2001-2003. Environmental Protection Agency, Wexford. Water Framework Directive  
[http://watermaps.wfdireland.ie/NsShare\\_Web/Viewer.aspx?Site=NsShare&ReloadKey=True](http://watermaps.wfdireland.ie/NsShare_Web/Viewer.aspx?Site=NsShare&ReloadKey=True)

Wildlife Acts 1976-2017

## Land, Soils and Geology

BS 5930:1999, “Code of Practice for Site Investigations”, British Standards Institution. Environmental Protection Agency (2003) Advice Notes on Current Practice (in the preparation on Environmental Impact Statements).

Department of Environment, Community and Local Government on-line mapping viewer. (2018). (www.myplan.ie).

Environmental Protection Agency (August 2017): *Draft Guidelines on the Information to be Contained in Environmental Impact Assessment Reports*. EPA, Wexford.

Environmental Protection Agency (2002) *Guidelines on the Information to be contained in Environmental Impact Statements*.

Environmental Protection Agency (2003) *Advice Notes on Current Practice (in the Preparation on Environmental Impact Statements)*. EPA, Wexford.

Geological Survey of Ireland - Groundwater Database (2018). www.gsi.ie

Institute of Geologists Ireland (2013): *Guidelines for Preparation of Soils, Geology & Hydrogeology Chapters in Environmental Impact Statements*

National Roads Authority (2005) *Guidelines on Procedures for Assessment and Treatment of Geology, Hydrology and Hydrogeology for National Road Schemes*.

## Water

Guidance on the preparation of the EIA Report (Directive 2011/92/EU as amended by 2014/52/EU)

Environmental Protection Agency (August 2017) Draft - Guidelines on the Information to be Contained in Environmental Impact Assessment Reports.

Environmental Protection Agency (September 2015): Draft - Advice Notes on Current Practice (in the preparation on Environmental Impact Statements).

Environmental Protection Agency (September 2015): Draft – Revised Guidelines on the Information to be Contained in Environmental Impact Statements.

Environmental Protection Agency (2003): Advice Notes on Current Practice (in the preparation on Environmental Impact Statements).

Environmental Protection Agency (2002): Guidelines on the Information to be Contained in Environmental Impact Statements.

Institute of Geologists Ireland (2013): Guidelines for Preparation of Soils, Geology & Hydrogeology Chapters in Environmental Impact Statements.

National Roads Authority (2009): Guidelines on Procedures for Assessment and Treatment of Geology, Hydrology and Hydrogeology for National Road Schemes.

Eastern Regional Fisheries Board (2016): Guidelines on Protection of Fisheries during Construction Works in and Adjacent to Waters.

PPG1 - General Guide to Prevention of Pollution (UK Guidance Note).

PPG5 – Works or Maintenance in or Near Watercourses (UK Guidance Note).

CIRIA (Construction Industry Research and Information Association) 2006: Guidance on 'Control of Water Pollution from Linear Construction Projects' (CIRIA Report No. C648, 2006).

CIRIA 2006: Control of Water Pollution from Construction Sites - Guidance for Consultants and Contractors. CIRIA C532. London, 2006.

## **Air and Climate**

Council of the European Union (2000). *Council Directive 2000/69/EC relating to limit values for benzene and carbon monoxide in ambient air*. Official Journal of the European Union No. L313.

Council of the European Union (1999). *Council Directive 1999/30/EC relating to limit values for sulphur dioxide, nitrogen dioxide and oxides of nitrogen, particulate matter and lead in ambient air*. Official Journal of the European Union No. L163/41.

Council of the European Union (2002). *Council Directive (2002/3/EC) relating to ozone in ambient air*. Official Journal of the European Union No. L67/14.

Council of the European Union (2004). *Council Directive (2004/107/EC) relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air*. Official Journal of the European Union No. L23/3.

Council of the European Union (2008). *Council Directive 2008/50/EC on ambient air quality and cleaner air for Europe*. Official Journal of the European Union No. L152.

Department of the Environment, Heritage and Local Government (2007). *National Climate Change Strategy 2007 – 2012*. Stationery Office, Dublin.

European Commission (2015). COP21 Paris Agreement.

European Environment Agency (2017). *Air Quality in Europe – 2017 Report*. European Environment Agency, Denmark.

European Environmental Agency (2018). *Air Quality in Europe – 2018 Report*. European Environment Agency, Denmark.

Environmental Protection Agency (2017). *Ireland's Environment 2017 – As Assessment*. EPA, Wexford.



Environmental Protection Agency (2018). *Ireland's Greenhouse Gas Emissions Projections 2017 – 2035*. EPA, Wexford.

Eurostat (2018), Smarter, greener, more inclusive? Indicators to Support the Europe 2020 Strategy. European Union, Luxembourg.

Met Éireann [www.met.ie](http://www.met.ie)

United Nations (2012). *Doha Amendment to the Kyoto Protocol*. United Nations Framework Convention on Climate Change.

United Nations (1998). *Kyoto Protocol to the United Nations Framework Convention on Climate Change*. United Nations Framework Convention on Climate Change, Bonn.

## **Noise and Vibration**

British Standard *British Standard BS 5228-1*. (2014) *Code of practice for noise and vibration control on construction and open sites – Noise*.

Environmental Protection Agency (August 2017): *Draft Guidelines on the Information to be Contained in Environmental Impact Assessment Reports*. EPA, Wexford.

Environmental Protection Agency (September 2015): *Draft - Advice Notes on Current Practice (in the preparation on Environmental Impact Statements)*. EPA, Wexford

Environmental Protection Agency (2003). *Advice Notes on Current Practice in the Preparation of Environmental Impact Statements*. EPA, Wexford

Environmental Protection Agency (2002). *Guidelines on Information to be Contained in Environmental Impact Statements*. EPA, Wexford

Environmental Protection Agency (2003). *Environmental Noise Survey*. EPA, Wexford.

ISO (International Organisation for Standardisation) (1996). *Acoustics – Description and Measurement of Environmental Noise Parts 1, 2 and 3*. ISO, Geneva.

The Transport Infrastructure Ireland. *Guidelines for the Treatment of Noise and Vibration in National Road Schemes*. Dublin.

World Health Organisation (WHO). (1995). *Guidelines for Community Noise*.

## **Landscape and Visual**

Department of the Environment and Local Government. (2000). *Landscape and Landscape Assessment - Consultation Draft of Guidelines for Planning Authorities*. Dublin.

Landscape Institute, Institute of Environmental Management & Assessment (2013). *Guidelines for Landscape and Visual Impact Assessment, Third Edition*. Routledge, Abingdon.

Landscape Institute (2011). *Photography and Photomontage in Landscape and Visual Impact Assessment. Advice Note 01/11*

## Cultural Heritage

Architectural Heritage Guidelines for Planning Authorities (Department of the Environment, Heritage and Local Government) 2004.

Aalen, F.H.A. et al., (1997), Atlas of the Irish Rural Landscape. Cork University Press, Cork.

Department of Arts, Heritage, Gaeltacht and the Islands, (1999), Framework and Principles for the Protection of the Archaeological Heritage, 1999.

EPA (2015). Draft guidelines on the information to be contained in Environmental Impact Statements.

1st Edition 6 inch OS maps (1837-8).

2nd Edition 25 inch OS maps (1911)

[www.webgis.archaeology.ie/historicenvironment](http://www.webgis.archaeology.ie/historicenvironment)

[www.excavations.ie](http://www.excavations.ie)

[www.logainm.ie](http://www.logainm.ie)

## Material Assets

Environmental Protection Agency (August 2017): *Draft Guidelines on the Information to be Contained in Environmental Impact Assessment Reports*. EPA, Wexford.

Environmental Protection Agency (2003). *Advice Notes on Current Practice in the Preparation of Environmental Impact Statements*. EPA, Wexford.

Harris, Miller, Miller & Hanson Inc. (November 2010). Technical Guidance for Evaluating Selected Solar Technologies on Airports; 3.1.2 Reflectivity. Technical Guidance for Evaluating Selected Solar Technologies on Airports.

National Roads Authority (2011). *Project Appraisal Guidelines, Unit 5.5 Link Based Traffic Growth Forecasting*. NRA, Dublin.

National Roads Authority (2011). *NRA TD 41-42/11 Geometric Design of Major/Minor Priority Junctions and Vehicular Access to National Roads*. NRA, Dublin.

National Roads Authority (2007). *Traffic and Transport Assessment Guidelines*. NRA, Dublin.

National Roads Authority (2003). *Future Traffic Forecasts, 2002 to 2040*. NRA, Dublin.

Solar Trade Association (2016) Impact of solar PV on aviation and airports. [www.solar-trade.org.uk](http://www.solar-trade.org.uk)