

REFERENCES

Introduction

- Environment (Miscellaneous Provisions) Act 2011
- European Union Directive 2014/52/EU
- European Union Directive 2011/92/EU
- European Union Council Directive 85/337/EEC
- European Union Council Directive 92/43/EEC
- Planning and Development Act 2000 (as amended)
- Planning and Development Regulations 2001 (as amended)
- Planning & Development (Amendment) Act 2010
- Planning and Development (Amendment) (No. 3) Regulations 2011
- Planning and Development, and Residential Tenancies, Act 2020
- Planning and Development (Amendment) (No. 2) Regulations 2020
- Planning and Development, Maritime and Valuation (Amendment) Act 2022
- (Planning and Development) (Environmental Impact Assessment) Regulations 2018
- Guidelines on the Information to be contained in Environmental Impact Assessment Reports (EPA, 2022);
- Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment (Department of Housing, Local Government and Heritage, 2018); and,
- Environmental Impact Assessment of Projects: Guidance on the preparation of the Environmental Impact Assessment Report (EC, 2017).

Background

Andrews, C. S. 1982. *Man of no Property*, The Mercier Press, Cork.

Annual Environmental Reports 2018-2024: <https://leap.epa.ie/licence-profile/P0500>

Bord na Mona Administration Spring 1959, p5

Bord na Móna Biodiversity Action Plan 2016-2021

Bord na Móna delivering on climate action: <https://www.bordnamona.ie/bord-na-mona-delivering-on-climate-action/>

Climate Action Plan 2025

EPA Integrated Pollution Control (IPC) Licensing, <https://www.epa.ie/our-services/licensing/industrial/integrated-pollution-control-ipc-licensing/>

European Union (Environmental Impact Assessment) (Peat Extraction) Regulations 2019, and The Act (Exempted Development) Regulations 2019

Feehan, J., O'Donovan, G. (1996). *The Bogs of Ireland: An Introduction to the Natural, Cultural and Industrial Heritage of Irish Peatlands*. University College Dublin.

Friends of the Irish Environment Ltd v Minister for Communications, Environment & Climate Action & Ors. [2019] IEHC 646

Guidelines for the Assessment of Indirect and Cumulative Impacts as well as Impact Interactions, European Commission, 1999

Ireland 2040 Our Plan – Issues and Choices (2016)

Ireland's 4th National Biodiversity Action Plan 2023 – 2030 (2024)

Ireland's Transition to a Low Carbon Energy Future 2015-2030

National Climate Change Strategy (2000)

National Climate Strategy (2007)

National Development Plan 2021 – 2030 (2021)

National Energy and Climate Plan 2021 – 2030

National Peatlands Strategy 2015 – 2025

National Planning Framework – First Revision (2025)

Offaly County Development Plan 1967

Offaly County Development Plan 1987

Offaly County Development Plan 1995

Offaly County Development Plan 2003 – 2009

Offaly County Development Plan 2009 – 2015

Offaly County Development Plan 2014 – 2020

Offaly County Development Plan 2021 – 2027

Planning and Development Act 2000 (as amended)

Planning and Development Regulations 2001 (as amended)

Planning and Development, and Residential Tenancies Act 2020

Remarks by the Chief Executive of Bord na Móna to the Oireachtas Committee on Climate Action (13th November 2018)

Ryan, H., Figgis, D., Connolly, J., Dillon, T., Moore, M., O'Shea, J. P., Sweetman, R., Tweedy, R. N. & Walsh, H. 1921. *Report on Peat, Commission of Enquiry into the Resources and Industries of Ireland*, pp. 4, 32, 35-38, 78. Dublin.

S.I. No. 4/2019 – European Union (Environmental Impact Assessment) (Peat Extraction Regulations 2019)

S.I. No. 474/2011 - Environment (Miscellaneous Provisions) Act 2011

The Eastern and Midlands Regional Assembly Regional and Spatial Economic Strategy 2019-2031

Consideration of Reasonable Alternatives

Clarke, D. (2010) Brown Gold: A History of Bord Na Móna and the Irish Peat Industry.

Gill & MacMillanHealy, J. 1980. Industrial Cutaway Bog Development in Ireland – Food and Energy in

Grubich, D. (ed.) Proceedings of the Sixth International Peat Congress, Duluth, Minnesota.

Renou-Wilson, F., Keane, M., McNally, G., O'Sullivan, J. and Farrell, E.P. 2008.

Developing a forest resource on industrial cutaway peatland. The BOGFOR programme. COFORD, Dublin.

Description of the Development

Evans, C., Artz, R., Moxley, J., Smyth, M-A., Taylor, E., Archer, N., Burden, A., Williamson, J., Donnelly, D., Thomson, A., Buys, G., Malcolm, H., Wilson, D., Renou-Wilson, F., Potts J. (2017). Implementation of an emission inventory for UK peatlands. Report to the Department for Business, Energy and Industrial Strategy, Centre for Ecology and Hydrology, Bangor. 88pp.

https://ukair.defra.gov.uk/assets/documents/reports/cat07/1904111135_UK_peatland_GHG_emissions.pdf

Günther, A., Barthelmes, A., Huth, V., Joosten, H., Jurasinski, G., Koebisch, F. & Couwenberg, J. (2020). Prompt rewetting of drained peatlands reduces climate warming despite methane emissions. *Nature Communications* volume 11, Article number: 1644.

Renou-Wilson, F., Wilson, D., Rigney, D., Byrne, K., Farrell, C. and Müller C. (2018). Network Monitoring Rewetted and Restored Peatlands/Organic Soils for Climate and Biodiversity Benefits (NEROS). Report No. 238. Report prepared for the Environmental Protection Agency. Johnstown Castle, Co. Wexford.

Renou-Wilson F., Bolger T., Bullock C., Convery F., Curry J. P., Ward S., Wilson D. & Müller C. (2011). BOGLAND - Sustainable Management of Peatlands in Ireland. STRIVE Report No 75 prepared for the Environmental Protection Agency. Johnstown Castle, Co. Wexford.

Wilson, D. & Mackin, F. & Tuovinen, J., Moser, G., & Farrell, C & Renou-Wilson, F. (2022). Carbon and climate implications of rewetting a raised bog in Ireland. *Global Change Biology*. 10.1111/gcb.16359

Population and Human Health

Bord na Móna, The Socio-Economic Impact of Bord na Mona on the East Midlands (1987);

Census (2011) Profile 8 Our Bill of Health page 26

https://www.cso.ie/en/media/csoie/census/documents/census2011profile8/Profile_8_Full_document.pdf p26

Central Statistics Office (CSO): Census of Ireland 2022; Census of Ireland 2016;

Central Statistics Office Population Change and Historical Perspective. www.CSO.ie Department of Housing, Planning and Local Government (DoHPLG), Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment (2018)

Donal Clarke (2010) Brown Gold: A History of Bord na Móna and the Irish Peat Industry

Donal Clarke (2010) Brown Gold: A History of Bord na Móna and the Irish Peat Industry, pp. 84

Donal Clarke (2010) Brown Gold: A History of Bord na Móna and the Irish Peat Industry, pp. 102

EIA Directive 2011/92/EU on the assessment of the effect of certain public and private

EPA (2023) Environmental Protection Agency, Air Quality in Ireland

EPA Advice Notes for Preparing Environmental Impact Statements, (2015);

EPA Guidelines on the information to be contained in Environmental Impact Assessment Reports, (2022);

European Commission (EC), Environmental Impact Assessment of Projects: Guidance on the preparation of the Environmental Impact Assessment Report (2017)

Faite Ireland (2023) EIAR Guidelines for the Consideration of Tourism and Tourism Related Projects;

Fitzpatrick Associates, (2011), Energy Crop-Socio-Economic Study, Bord na Móna; Met Éireann. (1979-2008) Historic Rainfall Data. The Irish Meteorological Service

GSI (2016-2019) Geological Survey Ireland, GWFlood project.

Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment (2018);

Historical Census of Ireland (2011); Historical Census of Ireland (2006); Historical Census of Ireland (2002); Historical Census of Ireland (1996); Historical Census of Ireland (1991); Historical Census of Ireland (1986).

Institute for Environmental Management and Assessment (2017) Health In Environmental Impact Assessment: A Primer for a Proportionate Assessment

Institute for Environmental Management and Assessment (2022) Determining Significance for Human Health in Environmental Impact Assessment

Institute of Public Health Ireland, Health Impact Assessment (2009);

Offaly County Development Plan 2021-2027;

Ordnance Survey Ireland (OSI) Mapping and Aerial Photography to identify land use and amenity sites;

projects on the environment (codification), as amended by EIA Directive 2014/52/EU (the EIA Directive);

United States Environmental Protection Agency (US EPA), Health Impact Assessment Resource and Tool Compilation (US EPA, 2016);

US EPA, (2014) Framework for Human Health Risk Assessment to Inform Decision Making developed by the United States Environmental Protection.

Biodiversity

- Bailey, M. and Rochford J. (2006) Otter Survey of Ireland 2004/2005. Irish Wildlife Manuals, No. 23. National Parks and Wildlife Service, Department of Environment, Heritage and Local Government, Dublin, Ireland.
- Bibby, C., Burgess, N.D., Hill, D., & Mustoe, S. (2000) Bird Census Techniques – Second Edition. Academic Press, London, England.
- Bracken, F., McMahon, B. & Whelan, J. (2008) Breeding bird populations of Irish Peatlands: capsule peatlands are very important habitats for birds despite low species diversity. *Bird Study* 55 (2): 169-178.
- Brown, A. F. and Shepherd, K. B. (1993) A method for censusing upland breeding waders. *Bird Study*, 40, pp. 189-195.
- Calhoun, K. and Cummins, S. (2014). Birds of Conservation Concern in Ireland 2014-2019. BirdWatch Ireland.
- Calladine, J., Garner, G., Wernham, C., Thiel, A. (2009) The influence of survey frequency on population estimates of moorland breeding birds, *Bird Study*, 56, pp 381-388.
- Chanin P (2003). Ecology of the European Otter. Conserving Natura 2000 Rivers Ecology Series No. 10. English Nature, Peterborough.
- CIEEM (2013), Technical Guidance Series – Competencies for Species Survey, Online, Available at: <https://cieem.net/resource/competencies-for-species-survey-css/>
- CIEEM (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial, Freshwater, Coastal and Marine version 1.3. Chartered Institute of Ecology and Environmental Management, Winchester.
- Collins, J. (ed.) (2023) Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th edn.). The Bat Conservation Trust, London.
- Crowe, O., Wilson, J., Aznar, I. and More, S.J. (2009). A review of Ireland's waterbirds, with emphasis on wintering migrants and reference to H5N1 avian influenza. *Irish Veterinary Journal* 62, 800–811.
- Crowe, O. (2005) Ireland's Wetlands and their Waterbirds: Status and Distribution. BirdWatch Ireland, Rockingham, Co. Wicklow.
- Cummins, S., Fisher, J., Gaj McKeever, McNaghten, L., Crowe O. (2010) Assessment of the distribution and abundance of Kingfisher *Alcedo atthis* and other riparian birds on six SAC river systems in Ireland, BirdWatch Ireland, Co. Wicklow.
- Durbin LS (1993). Food and habitat utilisation of otters (*Lutra lutra* L) in a riparian habitat – the River Don in north-east Scotland. Unpublished PhD thesis, University of Aberdeen.
- EC (2007b) Interpretation Manual of European Union Habitats. Version EUR 27. European Commission, DG Environment.
- EPA 2022, Guidelines On The Information To Be Contained In Environmental Impact Assessment Reports, Online, Available at: <https://www.epa.ie/pubs/advice/ea/EPA%20EIAR%20Guidelines.pdf>
- EPA, 2019, Water status data. Online, Available at <http://www.epa.ie>
- European Communities (Environmental Impact Assessment) Regulations, 1989 to 2001.
- European Communities (Natural Habitats) Regulations, SI 94/1997, SI 233/1998 & SI 378/2005 – <http://www.irishstatutebook.ie>.

- Fossitt, J. A. (2000). A Guide to Habitats in Ireland. Dublin: The Heritage Council.
- Gilbert, G., Gibbons, D.W., & Evans, J. (1998) Bird Monitoring Methods: A Manual of Techniques for UK Key Species. The Royal Society for the protection of Birds, Sandy, Bedfordshire, England.
- Green R & Green J (1997). Otter Survey of Scotland 1991–1994. Vincent Wildlife Trust, London.
- Habitats Directive (92/43/EEC).
- Jefferies DJ (1987). The effects of angling interests on otters, with particular reference to disturbance. In: Angling and wildlife in fresh waters (ITE symposium No. 19). Institute of Terrestrial Ecology, Grange over Sands
- Marnell, F., Kingston, N. & Looney, D. (2009) Ireland Red List No. 3: Terrestrial Mammals, National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin, Ireland.
- NatureScot (2021), NatureScot published Bats and Onshore Wind Turbines: Survey, Assessment and Mitigation. Version: August 2021.
- NBDC, 2019, Habitat Condition Assessment for Marsh Fritillary, Online, Available at: <http://www.biodiversityireland.ie/wordpress/wp-content/uploads/Marsh-Fritillary-Habitat-Condition-Form.pdf>.
- Negassa, W., Michalik, D., Klysubun, W and Leinweber, P. (2020) Phosphorus Speciation in Long-Term Drained and Rewetted Peatlands of Northern Germany. Soil Systems, 4.
- NPWS (2008) The Status of EU Protected Habitats and Species in Ireland. Conservation Status in Ireland of Habitats and Species listed in the European Council Directive on the Conservation of Habitats, Flora and Fauna 92/43/EEC.
- NPWS Protected Site Synopses and maps available on <http://www.npws.ie/en/ProtectedSites/>.
- NPWS (2019) Natural Heritage Areas (NHA), Online, Available at: <https://www.npws.ie/protected-sites/nha>
- NPWS (2019) Online map for protected bryophytes, <http://dahg.maps.arcgis.com/apps/webappviewer/index.html?id=71f8df33693f48edbb70369d7fb26b7e>
- NPWS (2019). The Status of EU Protected Habitats and Species in Ireland. Volume 2: Habitat Assessments. Unpublished NPWS report. Edited by: Deirdre Lynn and Fionnuala O'Neill
- O'Neill, L. (2008). Population dynamics of the Eurasian otter in Ireland. Integrating density and demography into conservation planning (PhD Thesis - Trinity College Dublin) In: Reid, *et al.* (2013) National Otter Survey of Ireland 2010/2012. Irish Wildlife Manuals No. 76. Dublin, Ireland: National Parks and Wildlife Service, Dept. of Arts, Heritage and the Gaeltacht.
- O'Neill et al. (2009) Irish Semi Irish Semi-natural natural Grasslands Survey Annual Report No. 2: Counties Cavan, Leitrim, Longford & Mónaghan. Bec Consultants
- Pschenyckyj, C., Riondato, E., Wilson, D., Flood, K., O'Driscoll, C., Renou-Wilson, F, January 2021. Report produced for An Foram Uisce. Optimising Water Quality Returns from Peatland Management while Delivering Co-Benefits for Climate and Biodiversity).
- Smal, C. (1995) The Badger and Habitat Survey of Ireland. Unpublished Report to the Department of Agriculture and the National Parks & Wildlife Service.
- Smith, G.F. and Crowley, W. (2020) The Habitats of Cutover Raised Bog, Irish Wildlife Manuals 128, National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland.

SNH (2017) Recommended bird survey methods to inform impact assessment of onshore wind farms, Scottish Natural Heritage.

SNH (2019), Scottish Natural Heritage published Bats and Onshore Wind Turbines: Survey, Assessment and Mitigation.

Stace, C. A. (1997). New Flora of the British Isles. Cambridge: Cambridge University Press.

TII (2006) Guidelines for the Treatment of Badger Prior to the Construction of National Roads Schemes, Transport Infrastructure Ireland (formerly the National Roads Authority), Dublin: National Roads Authority.

TII (2008) Guidelines for the Treatment of Otter Prior to the Construction of National Roads Schemes, Transport Infrastructure Ireland (formerly the National Roads Authority), Dublin: National Roads Authority.

TII (2009a) Guidelines for Assessment of Ecological Impacts of National Road Schemes Rev 2 Transport Infrastructure Ireland (formerly the National Roads Authority). Dublin: National Roads Authority.

TII (2009b) Guidelines on Ecological Surveying Techniques for Protected Flora and Fauna on National Road Schemes, Transport Infrastructure Ireland (formerly the National Roads Authority). Dublin: National Roads Authority.

TII (2021) Survey and Mitigation Standards for Barn Owls to inform the Planning, Construction and Operation of National Road Projects, Transport Infrastructure Ireland (formerly the National Roads Authority). Dublin: National Roads Authority.

Wilson, H.J. (1990) Birds of raised bogs. pp. 29-36. In: Cross, J. (ed.) The Raised Bogs of Ireland, their ecology, status and conservation. Report to the Minister of State at the Department of Finance. The Stationery Office, Dublin

Land, Soils and Geology

Bord na Móna (2018): Boora Bog Group Draft Rehabilitation Plan.

Bord na Móna (2024): Lemanaghan Bog: Cutaway Bog Decommissioning and Rehabilitation Plan.

British Standards Institution (BSI). (2015) BS5930 - Code of Practice for Site Investigations.

Department of Housing, Planning and local Government, 2018: Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment.

Environmental Protection Agency (2022): Guidelines on the Information to be contained in Environmental Impact Assessment Reports.

European Union, (2017): Guidance on the preparation of the EIA Report (Directive 2011/92/EU as amended by 2014/52/EU).

Fehily Timoney and Company (2025): Geotechnical and Peat Stability Report: Lemanaghan Wind Farm.

Fehily Timoney (2025) Peat and Spoil Management Plan: Lemanaghan Wind Farm.

Geological Survey of Ireland (GSI). (2001), 1:100,000 scale Bedrock Geology Series.

Grzywna, A. (2017). The degree of peatland subsidence resulting from drainage of land. Environ Earth Sci 76, 559.

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

National Roads Authority (2008): Guidelines on Procedures for Assessment and Treatment of Geology, Hydrology and Hydrogeology for National Road Schemes.

Regan, S., Flynn, R., Gill, L., Naughton, O., and Johnston, P. (2019). Impacts of groundwater drainage on peatland subsidence and its ecological implications on an Atlantic raised bog. Water Resources Research, 55.

Scottish Natural Heritage report (SNH) Research and Guidance on Restoration and Decommissioning of Onshore Wind Farms (SNH, 2013).

Water

Bord na Móna (2018): Boora Bog Group Draft Rehabilitation Plan.

Bord na Móna (2024): Lemanaghan Bog: Cutaway Bog Decommissioning and Rehabilitation Plan.

CIRIA, 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.

DoHLG, 2006: Wind Farm Development Guidelines for Planning Authorities.

DOHLG, 2003: Water Action Plan. A River Basin Management Plan For Ireland.

Environmental Protection Agency (2022): Guidelines on the Information to be contained in Environmental Impact Assessment Reports.

GSI (2003): Clara Groundwater Body Characterisation Report.

GSI (2003): Inny Groundwater Body Characterisation Report.

GSI (2003): Ferbane Groundwater Body Characterisation Report.

Harpenslager, S. F., Van Den Elzen, E. Kox, M.A.R., Smolders, A.J.P., Ettwig, F.F and Lamers, L.P.M. 2015. Rewetting former agricultural peatlands: Topsoil removal as a prerequisite to avoid strong nutrient and greenhouse gas emissions. Ecological Engineering, 84, 159-169.

IFI, 2016: Guidelines on Protection of Fisheries during Construction Works in and Adjacent to Waters, Inland Fisheries Ireland (2016).

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

Koskinen, M. Tahvanainen, T., Sarkkola, S., Menberu, M. W., Lauren, A., Sallantausta, T., Martilla, H., Ronkanen, A. K., Parviainen, M., Tolvanen, A., Koivusalo, H. & Nieminen, M. 2017. Restoration of nutrient-rich forestry-drained peatlands poses a risk for high exports of dissolved organic carbon, nitrogen, and phosphorus. Science of The Total Environment, 586, 858-869.

Negassa, W., Michalik, D., Klysubun, W and Leinweber, P. 2020. Phosphorus Speciation in Long-Term Drained and Rewetted Peatlands of Northern Germany. Soil Systems, 4.

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

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

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

Pschenyckyj, C., Riondato, E., Wilson, D., Flood, K., O'Driscoll, C., Renou-Wilson, F, January 2021. Report produced for An Foram Uisce. Optimising Water Quality Returns from Peatland Management while Delivering Co-Benefits for Climate and Biodiversity).

Air Quality

Environmental Protection Agency (EPA) (2022) Guidelines on the Information to be Contained in Environmental Impact Assessment Reports

Environmental Protection Agency (EPA) (2024) Annual air quality monitoring reports, 2006 – 2023 (<https://eparesearch.epa.ie/safer/>, Accessed 13/05/2025)

Environmental Protection Agency (EPA) (2025) IPC/IE Licence Register - Boora Bog Group IPC Licence P0500-01 (<https://www.epa.ie/our-services/licensing/licencesearch/>, Accessed 14/05/2025)

Institute of Air Quality Management (IAQM) (2024) Guidance on the Assessment of Dust from Demolition and Construction V2.2

Met Eireann (2025) Historical 30-Year Average Meteorological Data for Mullingar Station (1978 – 2008) (<https://www.met.ie/climate-ireland/1981-2010/mullingar.html>, Accessed 14/05/2025)

National Parks & Wildlife Services (2025) Protected Sites Map Viewer (<https://dahg.maps.arcgis.com/apps/webappviewer/index.html?id=8f7060450de3485fa1c1085536d477ba> , Accessed 13/05/25)

Transport Infrastructure Ireland (2022) Air Quality Assessment of Specified Infrastructure Projects – PE-ENV-01106

USEPA (1997) Fugitive Dust Technical Information Document for the Best Available Control Measures.

Climate

Bacon et al (2017) Questioning ten common assumptions about peatlands Mires and Peat Volume 19 (2017) Article 12 1-13

Byrne, K.A., Cabral, R., and Farrell, E.P., 2007 Commercial afforestation. In: D. Wilson and E.P. Farrell, eds. CARBAL. Carbon gas balances in industrial cutaway peatlands in Ireland. Dublin: University College Dublin, 12-14.

Department of Environment, Climate and Communications (DECC) (2025) Climate Action Plan (CAP) 2025

Department of Environment, Climate and Communications (DECC) (2023a) Climate Action Plan (CAP) 2024

Evans, C.D., Renou-Wilson, F., Strack, M. (2016). The role of waterborne carbon in the greenhouse gas balance of drained and re-wetted peatlands. Aquatic Sciences 78, 753-590. (PDF) The role of waterborne carbon in the greenhouse gas balance of drained and re-wetted peatlands (researchgate.net)

Evans, C.D., et al, (2017). Implementation of an Emissions Inventory for UK Peatlands. Centre for Ecology and hydrology. https://uk-air.defra.gov.uk/assets/documents/reports/cat07/1904111135_UK_peatland_GHG_emissions.pdf

Environmental Protection Agency (EPA) (2022) Guidelines on the Information to be Contained in Environmental Impact Assessment Reports

Environmental Protection Agency (EPA) (2025) Ireland's Greenhouse Gas Emissions 1990 – 2023

Government of Ireland (2015) Climate Action and Low Carbon Development Act

Government of Ireland (2019) Climate Action Plan 2019

Government of Ireland (2020) Draft General Scheme of the Climate Action (Amendment) Bill 2019

Government of Ireland (2021a) Climate Action Plan 2021

Government of Ireland (2021b) Climate Action and Low Carbon Development (Amendment) Act 2021 (No. 32 of 2021)

Holmgren, K., Kirkinen, J. & Savolainen, I. (2006) The Climate Impact of Energy Peat Utilisation - Comparison and Sensitivity Analysis of Finnish and Swedish Results. IVL Report B1681, Swedish Environmental Research Institute, Stockholm, 48 pp.

Institute of Sustainable Environmental Professionals (ISEP) (formerly knowns as the Institute of Environmental Management & Assessment (IEMA)) (2017) Assessing Greenhouse Gas Emissions and Evaluating their Significance

Institute of Sustainable Environmental Professionals (ISEP) (formerly knowns as the Institute of Environmental Management & Assessment (IEMA)) (2022) Assessing Greenhouse Gas Emissions and Evaluating their Significance

International Union for Conservation of Nature (IUCN) UK National Committee UK Peatland Programme (2024) Peatland Code Version 2.1 and calculation spreadsheet

IPCC (2006) 2006 IPCC Guidelines for National GHG Inventories

IPCC (2006a) Guidelines for National Greenhouse Gas Inventories Volume 4: Agriculture, Forestry and Other Land Use, Chapter 7 Wetlands

IPCC (2013) Supplement to the Guidelines for National Greenhouse Gas Inventories Volume 4: Agriculture, Forestry and Other Land Use, Chapter 7 Wetlands

IPCC (2014) 2013 Supplement to the 2006 IPCC Guidelines for National Greenhouse Gas Inventories: Wetlands, Intergovernmental Panel on Climate Change, Switzerland. <http://www.ipcc-nggip.iges.or.jp/public/wetlands/index.html>

IPCC (2015) AR5 Synthesis Report: Climate Change 2014

IPCC (2019) Refinement of 2006 IPCC Guidelines for National Greenhouse Inventories, including production of a Methodology Report [Online] Available from www.ipcc.ch/report/2019-refinement-to-the-2006-ipcc-guidelines-for-national-greenhouse-gas-inventories/ [accessed June 2021]

Met Eireann (2025) 30-year Average Data for Mullingar Meteorological Station <https://www.met.ie/climate/30-year-averages> [Accessed 13/05/2025]

Renou-Wilson, et al (2018) Network Monitoring Rewetted and Restored Peatlands / Organic Soils for Climate and Biodiversity Benefits (NEROS). Report No. 238.

Sustainable Energy Authority of Ireland (SEAI) (2025) SEIA Website Conversion and Emission Factors: <https://www.seai.ie/data-and-insights/seai-statistics/conversion-factors> [Accessed 10/09/2025]

Transport Infrastructure Ireland (TII) (2022) PE-ENV-01104 Climate Guidance for National Roads, Light Rail and Rural Cycleways (Offline & Greenways) – Overarching Technical Document

Waddington, J.M. & Price, J.S. (2000) Effect of peatland drainage, harvesting and restoration on atmospheric water and carbon exchange.

Wilson & Farrell (2007) CARBAL – Carbon Gas Balances in Industrial Cutaway Peatlands in Ireland, Forest Research Group, UCD

Wilson et al (2013) Carbon Emissions and Removals from Irish Peatlands: Present Trends and Future Mitigation Measures Irish Geography 2013 Vol. 46 Nos. 1-2, 1-23

Wilson et al (2015) Derivation of Greenhouse Gas Emission Factors for Peatlands Managed for Extraction in the Republic of Ireland and the United Kingdom, Biogeosciences, 12, 5291 – 5308.

Noise and Vibration

British Standard Institute (BSI) BS 5228-1:2009 +A1:2014 Code of Practice for noise and vibration control of construction and open sites - Part 1: Noise (BSI, 2014).

International Organization for Standardization (ISO) ISO 1996: 2017: Acoustics – Description, measurement, and assessment of environmental noise (ISO, 2017).

United Kingdom Highways England (now National Highways) (UKHE) Design Manual for Roads and Bridges (DMRB) Sustainability & Environment Appraisal LA 111 Noise and Vibration Revision 2 (UKHE, 2020).

British Standard Institute (BSI) BS 6472-1:2008 Guide to evaluation of human exposure to vibration in buildings. Vibration sources other than blasting (BSI, 2008).

Environmental Protection Agency (EPA) Guidelines on the Information to be contained in Environmental Impact Assessment Reports (EPA, 2022)

British Standard Institute (BSI) BS 6472-1:2008 Guide to evaluation of human exposure to vibration in buildings. Vibration sources other than blasting (BSI, 2008)

United Kingdom Highways England (now National Highways) (UKHE) Design Manual for Roads and Bridges (DMRB) Sustainability & Environment Appraisal LA 111 Noise and Vibration Revision 2 (UKHE, 2020)

British Standard Institute (BSI) BS 5228-1:2009 +A1:2014 Code of Practice for noise and vibration control of construction and open sites - Part 1: Noise (BSI, 2014)

Landscape and Visual

Department of Arts, Heritage and the Gaeltacht (DAHG), 2015. National Landscape Strategy 2015–2025, 40 pp.

Department of Planning, Housing and Local Government (DoPHLG), 2019. Draft Revised Wind Energy Development Guidelines (WEDGs), 223 pp.

Department of the Environment, Heritage and Local Government (DoEHLG), 2000. Landscape and Landscape Assessment: Consultation Draft of Guidelines for Planning Authorities, 17 pp.

Department of the Environment, Heritage and Local Government (DoEHLG), 2006. Wind Energy Development Guidelines for Planning Authorities (WEDGs), 119 pp.

Environmental Protection Agency of Ireland (EPA), 2022. Guidelines on the Information to be Contained in Environmental Impact Assessment Reports, 90 pp.

Landscape Institute, 2019. Visual Representation of Development Proposals: Landscape Institute Technical Guidance Note (LI TGN) 06/19, 60 pp.

Landscape Institute & Institute of Environmental Management and Assessment UK (LI & IEMA), 2013. Guidelines for Landscape and Visual Impact Assessment, Third Edition (GLVIA3), 179 pp.

NatureScot, 2021. Guidance: Assessing the Cumulative Impact of Onshore Wind Energy Developments, includes methodology published in 2012; available online at: <https://www.nature.scot/doc/guidance-assessing-cumulative-landscape-and-visual-impact-onshore-wind-energy-developments>.

Offaly County Council County Development Plan 2021-2027

Scottish Natural Heritage (SNH), 2015. Spatial Planning for Onshore Wind Turbines: Natural Heritage Considerations, 21 pp.

Scottish Natural Heritage (SNH), 2017. Siting and Designing Wind Farms in the Landscape, Version 3a (SNH Guidance v.3a), 50 pp.

Scottish Natural Heritage (SNH), 2017. Visual Representation of Wind Farms: Version 2.2 (SNH Guidance v.2.2), 53 pp.

Archaeological and Cultural Heritage

Architectural Heritage Guidelines for Planning Authorities (2011)

Bennett, I. (ed.) Excavations.ie, database of Irish excavation reports. Available at <http://www.excavations.ie>.

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

Guidance on Setting and the Historic Environment, Historic Environment Division, February 2018

Guidelines on the information to be contained in Environmental Impact Statements, EPA 2022.

Offaly County Development Plan 2021-2027

Whitaker, J. 2014 Re-assessment Peatland Survey 2013, Blackwater, Boora, Derrydreenagh, Mountdillon Group of Bogs, County Offaly, Longford, Westmeath and Roscommon. Unpublished report prepared by ADS for Bord na Móna.

Quinn, A., 2022a, Archaeological Monitoring of Site Investigations at Lemanaghan Bog, Co. Offaly. Unpublished report.

Quinn, A., 2022b, Archaeological Monitoring of Site Investigations at Lemanaghan Bog, Co. Offaly. Unpublished report.

Other Sources

Record of Monuments and Places (RMP) for County Offaly.

1st Edition 6 inch OS maps

2nd Edition 25 inch OS maps

www.heritagedata.maps.arcgis.com

www.excavations.ie

www.buildingsofireland.ie

www.logainm.ie

Material Assets

Department of Housing, Planning and Local Government (August 2018) Guidelines for Planning Authorities and An Bord Pleanála on Carrying out Environmental Impact Assessment. DHPLG, Dublin.

Department of Housing, Planning and Local Government (June 2017) Review of the Wind Energy Development Guidelines 2006 – Preferred Draft Approach. DHPLG, Dublin.

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.

Department of Transport, Tourism and Sport. (2019). Traffic Signs Manual, Section 8 – Temporary Traffic Measures and Signs for Road Works

Department of Transport, Tourism and Sport (2010) Guidance for the Control and Management of Traffic at Roadworks.

European Commission (2017): *Environmental Impact Assessment of Projects – Guidance on the preparation of the Environmental Impact Assessment Report*;

Environmental Protection Agency (EPA) (2022) Guidelines on the Information to be contained in Environmental Impact Assessment Reports.

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

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

Integrated Pollution Control Licence (IPC) Licence Derrygreenagh Bog Group (Ref. P0501-01) Environmental Protection Agency (included in Appendix 4-1);

National Roads Authority (2007). Traffic and Transport Assessment Guidelines. 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 (2011) Project Appraisal Guidelines, Unit 5.5 Link Based Traffic Growth Forecasting. NRA, Dublin.

Rural electrification of Ballivor, Co Meath in 1954. <https://esbarchives.ie/2016/03/17/rural-electrification-of-ballivor-co-meath-in-1954/>

Irish Statute Book (2005). Safety, Health and Welfare at Work Act 2005
(<https://www.irishstatutebook.ie/eli/2005/act/10/enacted/en/print>)

TII (May 2019) Project Appraisal Guidelines, Unit 5.3, Travel Demand Projections PE-PAG-02017. Transport Infrastructure Ireland.

TII (May 2014) Traffic and Transport Assessment Guidelines PE-PDV-02045. Transport Infrastructure Ireland.
<https://www.TIIPublications.ie/library/PE-PDV-02045-01.pdf>

TII Automatic Traffic Count Data (www.nratrafficdata.ie) (N52, N51, R148)

Major Accidents and Natural Disasters

Central Statistics Office Ireland. Census of Ireland.

Department of Defence (2020). A National Risk Assessment for Ireland.

Department of Environment, Heritage and Local Government (2010). A Guide to Risk Assessment in Major Emergency Management.

Environmental Protection Agency (May 2022): Guidelines on the Information to be Contained in Environmental Impact Assessment Reports. EPA, Wexford.

Environmental Protect Agency (2014). Guidance on Assessing and Costing Environmental Liabilities.

European Commission (2017). Environmental Impact Assessment of Projects: Guidance on the preparation of the Environmental Impact Assessment Report.

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

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

Government of Ireland (2023) National Risk Assessment: Overview of Strategic Risks.
<https://www.gov.ie/en/press-release/311d3-government-publishes-national-risk-assessment-2023-outlining-top-strategic-risks-facing-ireland/>

Health and Safety Authority. Health Service Authority advice for Health and Safety in the Renewable Sector. Available at: https://www.hsa.ie/eng/your_industry/renewable_energy/

Integrated Pollution Control Licence (IPC) Licence Derrygreenagh Bog Group (Ref. P0501-01) Environmental Protection Agency (included in Appendix 4-1);

Irish National Seismic Network. Available at <https://www.insn.ie/>

Irish Statute Book (2005). Safety, Health and Welfare at Work Act 2005 (S.I. No. 10 of 2005).

Irish Statute Book (2000). The European Communities Control of Major Accident Hazards Involving Dangerous Substance Regulations. (S.I. No. 476 of 2000)

Offaly County Development Plan 1967

Offaly County Development Plan 1987

Offaly County Development Plan 1995

Offaly County Development Plan 2003-2009

Offaly County Development Plan 2009-2015

Offaly County Development Plan 2014-2020

Offaly County Council, 2019. Major Emergency Plan. Available at:
https://www.offaly.ie/app/uploads/Council/Council_Services_A-Z/Emergency_Services/Offaly-County-Major-Emergency-Plan-2019-1.pdf

Offaly County Council, 2021. Offaly County Development Plan 2021-2027. Available at:
<https://www.offaly.ie/c/county-development-plan/>

Offaly County Council, 2025. Offaly County Council Website. Available at: <https://www.offaly.ie/>

Regional Planning Guidelines for the Midland Region 2010-2022;

Regional Spatial and Economic Strategy (RSES) 2020-2032, published by the Northern and Western Regional Assembly on 23 January 2020.