

BIBLIOGRAPHY

Introduction

Clare County Council (2017) Clare County Development Plan 2017-2023.

Clare County Council (2023) Clare County Development Plan 2023 – 2029.

Department of Environment, Climate and Communications (2023). Climate Action Plan 2024.

Department of Communications, Climate Action and Environment (2022) Renewable Electricity Support Scheme (RESS) 2. DCCAE, Dublin.

Department of Environment, Climate and Communications (2021). Climate Action and Low Carbon Development (Amendment) Bill 2021.

Department of the Environment, Climate and Communications (2023) Energy Security in Ireland to 2030

Department of Communications, Climate Action & Environment (2021). Climate Action Plan 2021

Department of Communications, Climate Action and Environment (2018) Renewable Electricity Support Scheme (RESS) 1. DCCAE, Dublin.

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

Department of Communications, Energy & Natural Resources (2014) Draft Bioenergy Plan 2014

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 Environment, Climate and Communications (2022). National Energy Security Framework 2022.

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

Department of Housing, Planning and Local Government (December 2019) Draft Revised Wind Energy Development Guidelines. DHPLG, Dublin.

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 Housing, Planning and Local Government (2013) Proposed Revisions to Wind Energy Development Guidelines 2006 – Targeted Review. DHPLG, Dublin.

EirGrid (October 2022) All Island Generation Capacity Statement 2022-2031.

Eirgrid (2021) Shaping Our Electricity Future Roadmap



Eirgrid (2018). All-Island Generation Capacity Statement 2018-2027

Environmental Protection Agency (November 2016): Ireland's Environment 2016 - An Assessment.

Environmental Protection Agency (July 2023): Ireland's Provisional Greenhouse Gas Emissions 1990-2022 Report.

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

Environmental Protection Agency (July 2022): Ireland's Provisional Greenhouse Gas Emissions 1990-2022.

Environmental Protection Agency (June 2023): Ireland's Greenhouse Gas Emissions Projections 2022-2040

European Commission (March 2022) REPowerEU: A plan to rapidly reduce dependence on Russian fossil fuels and fast forward the green transition. Brussels. https://ec.europa.eu/commission/presscorner/detail/en/IP_22_3131

European Commission (March 2022) REPowerEU: Joint European Action for more affordable, secure and sustainable energy. Strasbourg. https://ec.europa.eu/commission/presscorner/detail/en/ip_22_1511

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

European Environmental Agency (November 2022) Air Quality in Europe – 2022 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.

European Union (2009). Directive 2009/147/EC. European Parliament and European Council.

European Union (2009). Directive 2009/28/EC). European Parliament and European Council

European Union (1992). Directive 92/43/EEC. European Parliament and European Council.

European Union (2017) Guidance on Scoping (Directive 2011/92/EU as amended by 2014/52/EU).

European Union (2017) Guidance on Screening (Directive 2011/92/EU as amended by 2014/52/EU).

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

European Union (2018) Directive (EU) 2018/2001 European Parliament and European Council

European Union (2023) Directive (EU) 2023/2413 amending Directive (EU) 2018/2001, Regulation (EU) 2018/1999 and Directive 98/70/EC as regards the promotion of energy from renewable sources and repealing Council Directive (EU) 2015/652.

IPCC Fifth Assessment Synthesis Report, Intergovernmental Panel on Climate Change AR5 Report

IPCC, 2022: Climate Change 2022: Impacts, Adaptation and Vulnerability. Sixth Assessment Report, Intergovernmental Panel on Climate Change AR6 Report



IPCC, 2021: Climate Change 2021: The Physical Science Basis. Sixth Assessment Report, Intergovernmental Panel on Climate Change AR6 Report

IPCC, 2022: Working Group II-Climate Change 2022: Impacts, Adaptation and Vulnerability

IPCC, 2022: Working Group-III - Climate Change 2022: Mitigation Of Climate Change

IPCC Sixth Assessment Synthesis Report, Intergovernmental Panel on Climate Change AR6 Report: Climate Change 2023

Ireland Greenhouse Gas Emissions Projections 2020-2040 (EPA June 2021) - https://www.epa.ie/publications/monitoring—assessment/climate-change/air-emissions/EPA-Irelands-Greenhouse-Gas-Emissions-Projections-report-2020-2040v2.pdf

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. 296 of 2018. Stationery Office, Dublin.

Irish Statute Book (2000). Planning and Development Acts 2000 to 2019. Stationery Office, Dublin.

Joint Committee on Climate Action (March 2019) Climate Change: A Cross- Party Consensus for Action

MaREI 2021 Our Climate Neutral Future: Zero by 2050.

https://www.marei.ie/wp-content/uploads/2021/03/Our-Climate-Neutral-Future-Zero-by-50-Skillnet-Report-March-2021-Final-2.pdf

Pöyry (March 2014). The Value of Wind Energy to Ireland.

Sustainable Energy Authority of Ireland (December 2022): Energy in Ireland – 2022 Report.

Sustainable Energy Authority of Ireland (December 2021): Energy in Ireland – 2021 Report.

Sustainable Energy Authority of Ireland (December 2020): Energy in Ireland – 2020 Report.

Sustainable Energy Authority of Ireland (November 2023): National Energy Projections 2023 Report

Sustainable Energy Authority of Ireland (April 2016): Ireland's Energy Targets – Progress, Ambitions & Impacts.

Sustainable Energy Authority Ireland (2024) Energy in Ireland - 2023 Report

The Office of the Planning Regulator (OPR) Practice Note 01 - EIA Screening (June 2021)

The OPR Practice Note 02 - AA Screening for Development Management (March 2021)

Wind Energy Ireland (April 2021). Economic Impact of Onshore Wind in Ireland

Background to the Proposed Project

Climate Change 2021 'The Physical Science Basis' (Intergovernmental Panel on Climate Change, August 2021)



Climate Status Report for Ireland 2020 (Environmental Protection Agency, Marine Institute, Met Éireann, August 2021)

'Fit for 55': delivering the EU's 2030 Climate Target on the way to climate neutrality (July 2021)

Climate Change Advisory Council Carbon Budget Technical Report (October 2021) https://www.gov.ie/en/publication/9af1b-carbon-budgets/

Climate Change Advisory Council Annual Review 2023 (July 2023)

https://www.climatecouncil.ie/councilpublications/annualreviewandreport/CCAC-AR-2023-postfinal.pdfv

https://ec.europa.eu/eurostat/en/web/products-eurostat-news/w/ddn-20231222-2

Directive (EU) 2018/2001 of the European Parliament and of the Council of 11 December 2018 on the promotion of the use of energy from renewable sources (recast)

Council Regulation (EU) 2022/2577, at Recital 1

https://www.gov.ie/pdf/?file=https://assets.gov.ie/276441/eb496e01-5c01-4594-af09-74342b4ac971.pdf#page=null

https://ec.europa.eu/eurostat/databrowser/view/nrg ind ren custom 9264705/default/bar?lang=en

https://housinggovie.maps.arcgis.com/apps/webappviewer/index.html?id=9cf2a09799d74d8e9316a3d3a4d3a8de

Consideration of Alternatives

Department of Environment, Climate and Communications (2023). Climate Action Plan 2024.

Department of Housing, Planning and Local Government (December 2019) Draft Revised Wind Energy Development Guidelines. DHPLG, Dublin.

Department of the Environment, Heritage and Local Government (2006). Wind Energy Development Guidelines 2006.

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).

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

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

EirGrid, 2022 Enduring Connection Policy 2.2 Constraints Report for Solar and Wind ECP-2-2-Solar-and-Wind-Constraints-Report-Area-D-v1.0.pdf (eirgridgroup.com)

Clare County Council (2017) Clare County Development Plan 2017-2023.

Clare County Council (2023) Clare County Development Plan 2023 – 2029.

Irish Statute Book (2000). Planning and Development Acts 2000 to 2019. Stationery Office, Dublin.

Irish Wind Energy Association (2012). Best Practice Guidelines for the Irish Wind Energy Industry.



Sustainable Energy Authority of Ireland Solar Energy FAQ Publication https://www.seai.ie/publications/FAQs_on_Solar_PV.pdf

Teagasc, Solar PV. Available at: https://www.teagasc.ie/rural-economy/rural-development/energy/technologies/solar-pv/

Description of the Proposed Project

British Standards Institution (BSI) (2009) 5228-1:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites – Noise https://www.thenbs.com/PublicationIndex/documents/details?Pub=BSI&DocID=305965

Commission for the Regulation of Utilities (2017) Review of Typical Consumption Figures Decision. https://www.cru.ie/publications/25651/

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

Construction Industry Research and Information Association (CIRIA) (2001). : Control of Water Pollution from Construction Sites - Guidance for Consultants and Contractors. CIRIA C532. London.

Department of Communications, Climate Action and Environment (2022) Renewable Electricity Support Scheme (RESS) 2. DCCAE, Dublin.

Department of Communications, Climate Action and Environment (2018) Renewable Electricity Support Scheme (RESS) 1. DCCAE, Dublin.

Department of the Environment, Heritage and Local Government (2019) Draft Wind Energy Development Guidelines for Planning Authorities (Revised). Stationery Office, Dublin.

Department of the Environment, Heritage and Local Government (2006). Wind Energy Development Guidelines 2006.

Guidelines for Planning Authorities (Revised). Stationery Office, Dublin.

Eirgrid (2022) Enduring Connection Policy 2.2 Constraints Report for Area 1 Solar and Wind https://www.eirgridgroup.com/site-files/library/EirGrid/ECP-2-2-Solar-and-Wind-Constraints-Report-Area-I-v1.0.pdf

Environmental Protection Agency (2021) Best Practice Guidelines for the Preparation of Resource & Waste Management Plans for Construction & Demolition Projects https://www.epa.ie/publications/circular-economy/resources/CDWasteGuidelines.pdf

Environmental Protection Agency Ireland (2009) Code of Practice: Wastewater Treatment and Disposal Systems Serving Single Houses. EPA, Wexford.

Environmental Protection Agency Ireland (1999) Wastewaster Treatment Manuals - Treatment Systems for Small Communities, Business, Leisure Centres and Hotels. EPA, Wexford.

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

Institute of Geologists Ireland (2007) Guide for Drilling Wells for Private Water Supplies. IGI, Dublin.

Irish Statute Book (2017) Forestry Regulations 2017 (S.I. No. 191 of 2017).



Irish Statute Book (2007) Waste Management (Collection Permit) Regulations, 2007 as amended (S.I. No. 820 of 2007).

Irish Statute Book (2000). Planning and Development Acts 2000 to 2019. Stationery Office, Dublin.

Irish Statute Book (1996) Waste Management Act 1996 (S.I. No. 10 of 1996).

McAulay, I., TJP Envision Limited, Department of Trade and Industry, New and Renewable Energy Programme (1999) The Influence of Colour on the Aesthetics of Wind Turbine Generators (ETSU, London).

Safety and Health Commission for the Mining and Other Extractive Industries (2002) Doc. No 1396/2/01 EN Guidance on the Safe Use of Explosives in Quarries https://www.hsa.ie/eng/Publications_and_Forms/Publications/Mines_and_Quarries/Guidance%20on%20thew20Safe%20Use%20of%20Explosives%20in%20Quarries.pdf

Scottish Natural Heritage, 2019 Good Practice During Wind Farm Construction.

Scottish Natural Heritage (2013) Research and Guidance on Restoration and Decommissioning of Onshore Wind Farms Commissioned Report No. 591/SNH, Stirling.

Scottish Natural Heritage (2010) Good Practice During Wind Farm Construction.

Siltbuster. Concrete Washer. Available at https://www.siltbuster.co.uk/sb_prod/siltbuster-roadside-concrete-washout-rcw/

UK Guidance Note 2020 GPP1 - General Guide to Prevention of Pollution (UK Guidance Note).

UK Guidance Note 2018 GPP5 - Works or Maintenance in or Near Watercourses

Wind Energy Ireland. Wind Stats. Available at https://www.windenergyireland.com/about-wind/the-basics/facts-stats

Population and Human Health

American Wind Energy Association and Canadian Wind Energy Association (2009). Wind Turbine Sound and Health Effects - An Expert Panel Review, USA and Canada.

Australian Government National Health and Medical Research Council (NHMRC) Wind Turbines & Health (2010). A Rapid Review of the Evidence. Australia.

Baringa (2019) Wind for a Euro: Cost-benefit analysis of wind energy in Ireland 2000-2020

BiGGAR Economics (2016). Wind Farms and Tourism Trends in Scotland. Midlothian, Scotland.

Central Statistics Office Ireland (2023). Census of Agriculture 2020 Detailed Results. www.cso.ie

Central Statistics Office Ireland (2023). Census Results 2022 & 2016. www.cso.ie

Centre for Economics and Business Research (2014) The effect of wind farms on house prices. Renewable UK, London.

Chapman and Crichton (2017). Wind turbine syndrome; A communicated disease.

Chapman and Simonetti (2015). Summary of main conclusions reached in 25 reviews of the research literature on wind farms and health.



Climate and Health Alliance (2012). Position Statement on Health and Wind Turbines. Australia.

Climate Exchange (October 2016). Impact of Wind Turbines on House Prices in Scotland.

Department of Environment, Climate and Communications (2023). Climate Action Plan 2024.

Department of Communications, Climate Action and Environment (2021) Climate Action Plan (CAP).

Department of Housing, Planning and Local Government (December 2019). Draft Revised Wind Energy Development Guidelines. DHPLG, Dublin.

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

Department of Housing, Planning and Local Government (December 2013). Proposed Revisions to Wind Energy Development Guidelines 2006 – Targeted Review

Department of Housing, Planning, Community and Local Government (2017). Key Issues Consultation Paper on the Transposition of the 2014 EIA Directive.

Department of the Environment, Heritage and Local Government (2006). Wind Energy Development Guidelines for Planning Authorities (Revised). Stationery Office, Dublin.

Discover Ireland www.discoverireland.ie

EirGrid (2017). EMF & You: Information about Electric & Magnetic Fields and the electricity transmission system in Ireland.

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

Environmental Protection Agency (July 2022) Ireland's Provisional Greenhouse Gas Emissions 1990-2022. www.epa.ie

Environmental Protection Agency (April 2021) Ireland's Final Greenhouse Gas Emissions. www.epa.ie

ESB (2017) EMF & You: Information about Electric & Magnetic Fields and the electricity transmission system in Ireland (https://esb.ie/docs/default-source/default-document-library/emf-public-

information_booklet_v9.pdf?sfvrsn=0).

Fáilte Ireland (March 2021) Key Tourism Facts 2019. www.failteireland.ie

Fáilte Ireland (March 2021). Regional tourism performance in 2019.

Fáilte Ireland (August 2018) 2017 Topline Tourism Performance By Region. www.failteireland.ie

Fáilte Ireland (2012). Visitor Attitudes on the Environment: Wind Farms - Update on 2007 Research.

Fáilte Ireland (2008). Visitor Attitudes on the Environment: Wind Farms.

Fáilte Ireland (September 2019). Tourism Facts 2018. Fáilte Ireland. Available at: www.failteireland.ie

Finnish Government's Analysis, Assessment and Research Activities (VN TEAS) (2020). Infrasound Does Not Explain Symptoms Related to Wind Turbines.

Galway County Council (2022) Galway County Development Plan (2022 - 2028)



Health & Safety Authority (2006) Guidelines on the Procurement, Design and Management Requirements of the Safety, Health and Welfare at Work (Construction) Regulations.

Heblich, Dr. S. et al (2016) Impact of wind Turbines on House Prices in Scotland. Climate Xchange

Helimax Energy (2008). Shadow Flicker Analysis. Stantec, Ontario.

HSE Public Health Medicine Environment and Health Group (2017) Position Paper on Wind Turbines and Public Health. Ireland.

International Commission on Non-Ionizing Radiation Protection (ICNIRP) (2020). RF EMF Guidelines 2020

Irish Statute Book (2013) Safety, Health and Welfare at Work (Construction) Regulations 2013 (S.I. 291 of 2013), as amended.

Irish Statute Book (2007) Safety, Health and Welfare at Work (General Application) Regulations 2007 (S.I. No. 299 of 2007), as amended.

Irish Statute Book (2006) Safety, Health and Welfare at Work (Work at Height) Regulations 2006 (S.I. No. 318 of 2006).

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

Irish Wind Energy Association (2009). Jobs and Investment in Irish Wind Energy – Powering Ireland's Economy. Deloitte, Ireland.

Irish Wind Energy Association (2014). "An Enterprising Wind" An economic analysis of the job creation potential of the wind sector in Ireland, Siemens Limited, Dublin.

Irish Wind Energy Association (January 2020) Interactions Opinion Poll on Wind Energy. Ireland

Irish Wind Energy Association (2012). Best Practice Guidelines for the Irish Wind Energy Industry.

Lawrence Berkley National Laboratory (2013) A Spatial Hedonic Analysis of the Effects of Wind Energy Facilities on Surrounding Property Values in the United States.

Lawrence Berkley National Laboratory (2009). The Impact of Wind Power Projects on Residential Property Values in the United States: A multi-Site Hedonic Analysis. US Department of Energy London.

Massachusetts Departments of Environmental Protection and Public Health (2012). Wind Turbine Health Impact Study -Report of Independent Expert Panel. USA.

Massachusetts Institute of Technology (2014) Wind Turbines and Health, A Critical Review of the Scientific Literature, Journal of Occupational and Environmental Medicine Vol. 56 (11).

Noble Environmental Power LLC (2006). Wind Fact Sheet #4: Shadow Flicker. Noble Environmental Power, Connecticut.

ODPM Annual Report and Accounts 2004: Housing, Planning, Local Government and the Regions Committee; Planning Policy Statement 22

Pőyry (2014) The Value of Wind Energy to Ireland A report to Irish Wind Energy Association. Cambridge Economics.



Renewable UK (2010). Wind Turbine Syndrome - An independent review of the state of knowledge about the alleged health condition. London, UK.

Siemens (2014) An Enterprising Wind: An economic analysis of the job creation potential of the wind sector in Ireland. Available at: https://www.esri.ie/system/files/media/file-uploads/2015-07/BKMNEXT250.pdf

Sustainable Energy Authority of Ireland (October 2017). 'Attitudes Towards the Development of Wind Farms in Ireland'. SEAI, Dublin.

Sustainable Energy Authority of Ireland (2011), Wind Energy Roadmap 2011 to 2050. www.seai.ie

Sustainable Energy Authority of Ireland (2003). Attitudes Towards the Development of Wind Farms in Ireland. SEAI, Dublin.

UK Department of Energy and Climate Change (2010). Update of Shadow Flicker Evidence Base.

Warren, C.R. *et al.*, (2005). Green on Green: Public Perceptions of Wind Power in Scotland and Ireland. Journal of Environmental Planning and Management 48(6): 853-875.

Wind Energy Ireland & KPMG (April 2021) Economic impact of onshore wind in Ireland. www.windenergyireland.com

Wind Energy Ireland & MaREI (March 2021) Our Climate Neutral Future Zero by 50. www.windenergyireland.com

Wind Energy Ireland (January 2021) Public Attitudes Monitor. www.windenergyireland.com

World Health Organisation (2018). Environmental Noise Guidelines for the European Region: World Health Organisation Regional Office for Europe, 2018

Biodiversity: Flora and Fauna

Abbott, I., Aughney, T., Langton, S. and Roche, N. (2015) BATLAS 2020 Pilot Project Report. Bat Conservation Ireland, Virginia, Cavan.

Adams, E. M., Gulka, J., & Williams, K. A. (2021). A review of the effectiveness of operational curtailment for reducing bat fatalities at terrestrial wind farms in North America. *PLOS ONE*, *16* (11), e0256382. https://doi.org/10.1371/journal.pone.0256382.

Amorim, F., Rebelo, H., & Rodrigues, L. (2012). Factors influencing bat activity and mortality at a wind farm in the Mediterranean region. Acta Chiropterologica, 14(2), 439-457.

Andrews, H. (2013) Bat Tree Habitat Key. AEcol, Bridgewater.

Arnett, E. B. (2006). A preliminary evaluation on the use of dogs to recover bat fatalities at wind energy facilities. Wildlife Society Bulletin, 34(5), 1440-1445.

Arnett, E. B., Baerwald, E. F., Mathews, F., Rodrigues, L., Rodríguez-Durán, A., Rydell, J., ... & Voigt, C. C. (2016). Impacts of wind energy development on bats: a global perspective. In Bats in the Anthropocene: Conservation of Bats in a Changing World (pp. 295-323). Springer International Publishing.

Aughney, T. (2008) An investigation of the impact of development projects on bat populations: Comparing pre- and post-development bat faunas. Irish Bat Monitoring Programme. Bat Conservation Ireland, Virginia, Cavan.



Aughney, T., Langton, S. and Roche, N. (2011) Brown long-eared bat roost monitoring scheme for the Republic of Ireland: synthesis report 2007-2010. Irish Wildlife Manuals, No.56. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Dublin, Ireland.

Aughney, T., Langton, S. and Roche, N. (2012) All Ireland Daubenton's Bat Waterway Monitoring Scheme 2006-2011. Irish Wildlife Manuals, No. 61. National Parks and Wildlife Service, Department of Arts, Heritage and the Gaeltacht, Ireland.

Barataud, M. and Tupinier, Y. Écologie acoustique des chiroptères d'Europe: identification des espèces, étude de leurs habitats et comportements de chasse. Biotope, 2012.

Baerwald, E. F., D'Amours, G. H., Klug, B. J., & Barclay, R. M. (2008). Barotrauma is a significant cause of bat fatalities at wind turbines. Current biology, 18(16), R695-R696.

Baerwald, E. F., & Barclay, R. M. (2009). Geographic variation in activity and fatality of migratory bats at wind energy facilities. Journal of Mammalogy, 90(6), 1341-1349.

Barré, K., Froidevaux, J. S. P., Leroux, C., Mariton, L., Fritze, M., Kerbiriou, C., Le Viol, I., Bas, Y., & Roemer, C. (2022). Over a decade of failure to implement UNEP / EUROBATS guidelines in wind energy planning: A call for action. *Conservation Science and Practice*, 4(11), e12805. https://doi.org/10.1111/csp2.12805.

Barré, K., Froidevaux, J. S. P., Sotillo, A., Roemer, C., & Kerbiriou, C. (2023). Drivers of bat activity at wind turbines advocate for mitigating bat exposure using multicriteria algorithm-based curtailment. *Science of The Total Environment*, 866, 161404. https://doi.org/10.1016/j.scitotenv.2023.161404.

Barré, K., Le Viol, I., Bas, Y., Julliard, R., & Kerbiriou, C. (2018). Estimating habitat loss due to wind turbine avoidance by bats: Implications for European siting guidance. *Biological Conservation*, 226, 205–214. https://doi.org/10.1016/j.biocon.2018.07.011.

BCI (2012a). Wind Turbine/Wind Farm Development Bat Survey Guidelines, Version 2.8, December 2012. Bat Conservation Ireland, Virginia, Co. Cavan.

BTHK. (2018). Bat Roosts in Trees: A Guide to Identification and Assessment for Tree-Care and Ecology Professionals. Pelagic Publishing Ltd.

Buchholz, S., Kelm, V., & Ghanem, S. J. (2020). Mono-specific forest plantations are valuable bat habitats: Implications for wind energy development. *European Journal of Wildlife Research*, *67*(1), 1. https://doi.org/10.1007/s10344-020-01440-8.

Carden, R., Aughney T., Kelleher C. and Roche, N. (2010) Irish Bat Monitoring Schemes. BATLAS Republic of Ireland Report for 2008-2009.

CIEEM (2018, updated 2022) Institute of Ecology and Environmental Management - Guidelines for Ecological Impact Assessment: Terrestrial, Freshwater and Coastal

Collins, J. (ed.) (2016) Bat Surveys for Professional Ecologists: Good Practice Guidelines (3rd edn). The Bat Conservation Trust, London.

Collins, J. (ed.) (2023) Bat Surveys for Professional Ecologists: Good Practice Guidelines (4th edition). The Bat Conservation Trust, London

Collins, J., and Jones, G. (2009). Differences in bat activity in relation to bat detector height: implications for bat surveys at proposed windfarm sites. Acta Chiropterologica, 11(2), 343-350.



Cryan, Paul. M., Gorresen, P. M., Hein, C. D., Schirmacher, M. R., Diehl, R. H., Huso, M. M., Hayman, D. T. S., Fricker, P. D., Bonaccorso, F. J., Johnson, D. H., Heist, K., & Dalton, D. C. (2014). Behavior of bats at wind turbines. *Proceedings of the National Academy of Sciences*, 111(42), 15126–15131. https://doi.org/10.1073/pnas.1406672111.

EC (2007b) Interpretation Manual of European Union Habitats. Version EUR 27. European Commission, DG Environment.

Ellerbrok, J. S., Delius, A., Peter, F., Farwig, N., & Voigt, C. C. (2022). Activity of forest specialist bats decreases towards wind turbines at forest sites. *Journal of Applied Ecology*, *59*(10), 2497–2506. https://doi.org/10.1111/1365-2664.14249.

Ellerbrok, J. S., Farwig, N., Peter, F., Rehling, F., & Voigt, C. C. (2023). Forest gaps around wind turbines attract bat species with high collision risk. *Biological Conservation*, *288*, 110347. https://doi.org/10.1016/j.biocon.2023.110347.

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

EUROBATS (2023) Report of the Intersessional Working Group on Wind Turbines and Bat Populations at 27th Meeting of the Advisory Committee, Sarajevo, Bosnia and Herzegovina, 27-29 March, 2023

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.

International Finance Corporation (2023). *Post-Construction bird and bat tactility monitoring for onshore wind energy facilities in emerging market countries.* Good practice handbook and decision support tool.

Hein, C.D., Gruver, J. and Arnett, E.B. (2013). Relating pre-construction bat activity and post-construction bat fatality to predict risk at wind energy facilities: a synthesis. A report submitted to the National Renewable Energy Laboratory. Bat Conservation International, Austin, TX, USA.

Horn, J. W., Arnett, E. B., & Kunz, T. H. (2008). Behavioral Responses of Bats to Operating Wind Turbines. *The Journal of Wildlife Management*, 72(1), 123–132. https://doi.org/10.2193/2006-465

Hutson, A.M., Marnell, F. & Petermann, R. (2023) A guide to the implementation of the Agreement on the Conservation of Populations of European Bats (EUROBATS). Version 3. UNEP/EUROBATS Secretariat, Bonn, Germany

Korner-Nievergelt, F., Brinkmann, R., Niermann, I., & Behr, O. (2013). Estimating Bat and Bird Mortality Occurring at Wind Energy Turbines from Covariates and Carcass Searches Using Mixture Models. *PLOS ONE*, 8(7), e67997. https://doi.org/10.1371/journal.pone.0067997

Leroux, C., Kerbiriou, C., Le Viol, I., Valet, N., & Barré, K. (2022). Distance to hedgerows drives local repulsion and attraction of wind turbines on bats: Implications for spatial siting. *Journal of Applied Ecology*, 59(8), 2142–2153. https://doi.org/10.1111/1365-2664.14227

Lintott, P. R., Richardson, S. M., Hosken, D. J., Fensome, S. A., & Mathews, F. (2016). Ecological impact assessments fail to reduce risk of bat casualties at wind farms. *Current Biology*, *26* (21), R1135–R1136. https://doi.org/10.1016/j.cub.2016.10.003

Lynch, Á. B., & McCann, Y. (2007). The Diet Of The Pine Marten (Martes Martes) In Killarney National Park. Biology and Environment: Proceedings of the Royal Irish Academy, 107B(2), 67–76. http://www.jstor.org/stable/20728625



Marnell, F.; Kelleher, C. & Mullen, E. (2022) Bat Mitigation Guidelines for Ireland. V.2. *Irish Wildlife Manuals*. No. 134. National Parks and Wildlife Service

Mathews, F., Swindells, M., Goodhead, R., August, T. A., Hardman, P., Linton, D. M., & Hosken, D. J. (2013). Effectiveness of Search Dogs Compared With Human Observers in Locating Bat Carcasses

Mathews, F., Richardson, S., Lintott, P. and Hosken, D. (2016) Understanding the risk to European protected species (bats) at onshore wind turbine sites to inform risk management. Final Report. University of Exeter.

Natural England (2014). Bats and onshore wind turbines: interim guidance. Third Edition TIN051. English Nature.

NatureScot (2021). Bats and onshore wind turbines: survey, Assessment and mitigation. Version: August 2021 (updated with minor revisions).

Northern Ireland Environment Agency, Natural Environment Division (2024). Guidance on Bat Surveys, Assessment & Mitigation for Onshore Wind Turbine Developments. Version 1.1.

National Road Authority (2006a) Best practice guidelines for the conservation of bats in the planning of national road schemes. National Roads Authority, Dublin, Ireland.

National Road Authority (2006b) Guidelines for the treatment of bats during the construction of national road schemes. National Roads Authority, Dublin, Ireland.

National Road Authority (2006b). Guidelines for the Protection and Preservation of Trees, Hedgerows and Scrub Prior to, During and Post Construction of National Road Schemes.

National Road Authority (2008b) Environmental Impact Assessment of National Road Schemes – A Practical Guide.

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

National Road Authority (2009) Guidelines on Ecological Surveying Techniques for Protected Flora and Fauna on National Road Schemes. Dublin: National Roads Authority.

National Road Authority (2009b). Guidelines for assessment of Ecological impacts of national Road Schemes (Revision 2, 1st June, 2009)

Perrin, P.M, Martin, J.R., Barron, J.R., Roche & 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

Perrin, P.M, Martin, J.R., Barron, S., O'Neill, F., McNutt, K., & Delaney, A. (2008) National Survey of Native Woodlands 2003-2008. National Parks and Wildlife Service.

Perrow M.R. (Ed.) 2017. Wildlife and Wind farms, Conflicts and Solutions. Volume 1 Onshore: Potential Effects. Pelagic Publishing, Exeter, UK

Peste, F., Paula, A., Da Silva, L. P., Bernardino, J., Pereira, P., Mascarenhas, M., Costa, H., Vieira, J., Bastos, C., Fonseca, C., & Pereira, M. J. R. (2015). How to mitigate impacts of wind farms on bats? A review of potential conservation measures in the European context. *Environmental Impact Assessment Review*, *51*, 10–22. https://doi.org/10.1016/j.eiar.2014.11.001



Rabie, P. A., Welch-Acosta, B., Nasman, K., Schumacher, S., Schueller, S., & Gruver, J. (2022). Efficacy and cost of acoustic-informed and wind speed-only turbine curtailment to reduce bat fatalities at a wind energy facility in Wisconsin. *PLOS ONE*, 17(4), e0266500. https://doi.org/10.1371/journal.pone.0266500

Reusch, C., Paul, A. A., Fritze, M., Kramer-Schadt, S., & Voigt, C. C. (2023). Wind energy production in forests conflicts with tree-roosting bats. Current Biology, 33(4), 737-743.e3. https://doi.org/10.1016/j.cub.2022.12.050

Reason, P.F. and Wray, S. (2023). UK Bat Mitigation Guidelines: a guide to impact assessment, mitigation and compensation for developments affecting bats. Version 1.1. Chartered Institute of Ecology and Environmental Management, Ampfield.

Richardson, S. M., Lintott, P. R., Hosken, D. J., Economou, T., & Mathews, F. (2021). Peaks in bat activity at turbines and the implications for mitigating the impact of wind energy developments on bats. *Scientific Reports*, 11(1), 3636. https://doi.org/10.1038/s41598-021-82014-9

Roche, N., T. Aughney, F. Marnell, and M. Lundy (2014). Irish Bats in the 21st Century. Bat Conservation Ireland, Virginia, Co. Cavan, Ireland.

Rodrigues, L., & UNEP (Eds.). (2014). Guidelines for consideration of bats in wind farm projects. UNEP/EUROBATS.

Russ, J. Bat Conservation Trust. (2012). *British Bat Calls: A Guide to Species Identification*. Pelagic Publishing.

Salguero, M. D. M., De La Cruz, A., Muñoz, A.-R., & Muñoz Arroyo, G. (2023). Bat mortality in wind farms of southern Europe: Temporal patterns and implications in the current context of climate change. *Biodiversity and Conservation*, 32(12), 3953–3971. https://doi.org/10.1007/s10531-023-02674-z

Scholz, C., & Voigt, C. C. (2022). Diet analysis of bats killed at wind turbines suggests large-scale losses of trophic interactions. *Conservation Science and Practice*, 4(7), e12744. https://doi.org/10.1111/csp2.12744

Schuster, E., Bulling, L., & Köppel, J. (2015). Consolidating the State of Knowledge: A Synoptical Review of Wind Energy's Wildlife Effects. *Environmental Management*, 56(2), 300–331. https://doi.org/10.1007/s00267-015-0501-5

Scottish Natural Heritage et al. (2019). Bats and onshore wind turbines: survey, Assessment and mitigation.

Smith, G F.M, O'Donoghue P., O'Hora K. and Delaney E., (2011) Best Practice Guidance for Habitat Survey and Mapping. The Heritage Council.

TII (2020) - The Management of Invasive Alien Plant Species on National Roads – Technical Guidance GE-ENV-01105

Tolvanen, A., Routavaara, H., Jokikokko, M., & Rana, P. (2023). How far are birds, bats, and terrestrial mammals displaced from onshore wind power development? – A systematic review. *Biological Conservation*, 288, 110382. https://doi.org/10.1016/j.biocon.2023.110382

Voigt, C. C., Kaiser, K., Look, S., Scharnweber, K., & Scholz, C. (2022). Wind turbines without curtailment produce large numbers of bat fatalities throughout their lifetime: A call against ignorance and neglect. *Global Ecology and Conservation*, *37*, e02149. https://doi.org/10.1016/j.gecco.2022.e02149

Voigt, C. C., & Kingston, T. (Eds.). (2016). *Bats in the Anthropocene: Conservation of Bats in a Changing World.* Springer International Publishing. https://doi.org/10.1007/978-3-319-25220-9



Voigt, C. C., Scherer, C., & Runkel, V. (2022). Modelling the power of acoustic monitoring to predict bat fatalities at wind turbines. Conservation Science and Practice, 4(12), e12841. https://doi.org/10.1111/csp2.12841.

Ornithology

Alerstam, T., Rosén, M., Bäckman, J., Ericson, P.G.P. and Hellgren, O. (2007). Flight speeds among bird species: allometric and phylogenetic effects. *PLoS Biology*, 5(8): e197. https://doi.org/10.1371/journal.pbio.0050197

Balmer, D.E., Gillings, S., Caffrey, B.J., Swann, R.L., Downie, I.S. and Fuller, R.J. (2013). *Bird Atlas* 2007–11: The Breeding and Wintering Birds of Britain and Ireland. Thetford, UK: BTO Books.

Band, W., Madders, M. and Whitfield, D. P. (2007). Developing field and analytical methods to assess avian collision risk at wind farms. Scottish Natural Heritage, Inverness, Scotland. Available at: https://www.natural-research.org/application/files/4114/9182/2839/Band_et_al_2007.pdf

Bibby, C.J., Burgess, N.D., Hillis, D.M., Hill, D.A. and Mustoe S. (2000). *Bird Survey Techniques*. Massachusetts, United States: Academic Press.

Brown, A.F. and Shepherd, K. B. (1993). A method for censusing upland breeding waders. *Bird Study*, 40: 189-195. https://doi.org/10.1080/00063659309477182

Calladine, J., Garner, G., Wernham, C. and Thiel, A (2009). The influence of survey frequency on population estimates of moorland breeding birds. *Bird Study*, 56: 381-388. https://doi.org/10.1080/00063650902984604

CIEEM (2017). Guidelines for Ecological Report Writing. Chartered Institute of Ecology and Environmental Management, Romsey, UK. Available at: https://cieem.net/resource/guidelines-forecological-report-writing/

CIEEM (2019). Guidelines for Ecological Impact Assessment in the UK and Ireland. Chartered Institute of Ecology and Environmental Management, Romsey, UK. Available at: https://cieem.net/resource/guidelines-for-ecological-impact-assessment-ecia/

Chamberlain, D.E., Rehfisch, M.R., Fox, A.D., Desholm, M. and Anthony, S.J. (2006). The effect of avoidance rates on bird mortality predictions made by wind turbine collision risk models. *Ibis*, 148: 198–202.

Clare County Council (2023) Clare County Development Plan 2023-2029. Clare County Council, New Road, Ennis, Co. Clare.

Council Directive 2009/147/EC 30 November 2009 on the conservation of wild birds. Available at: https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX%3A32009L0147

Cummins, S., Bleasdale, A., Douglas, C., Newton, S., O'Halloran, J. and Wilson, H.J. (2010) The status of Red Grouse in Ireland and the effects of land use, habitat and habitat quality on their distribution. Irish Wildlife Manuals, No. 50. National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin, Ireland.

DoHPLG (2018). Guidelines for planning authorities and An Bord Pleanála on carrying out Environmental Impact Assessment. Department of Housing, Planning and Local Government, Government of Ireland, Dublin. Available at: https://www.gov.ie/en/publication/53aee9-guidelines-for-planning-authorities-and-an-bord-pleanala-on-carrying/



Douglas, D.J.T., Bellamy, P.E. and Pearce-Higgins, J.W. (2011) Changes in the abundance and distribution of upland breeding birds at an operational wind farm, *Bird Study*, 58:1, 37-43. https://doi.org/10.1080/00063657.2010.524914

Drewitt, A. L. and Langston, R. H. W. (2006) Assessing the impacts of wind farms on birds. *Ibis*, 148: 29-42. https://doi.org/10.1111/j.1474-919X.2006.00516.x

Drewitt, A. L. and Langston, R. H. W. (2008) Collision effects of wind-power generators and other obstacles on birds. *Annals of the New York Academy of Sciences*, 1134(1): 233-266. https://doi.org/10.1196/annals.1439.015

Duffy, K. and Steward, M. (2008) Turbine search methods and carcass removal trials at the Braes of Doune Windfarm. Natural Research Information Note 4. Natural Research Ltd, Banchory, UK. Available at: https://tethys.pnnl.gov/sites/default/files/publications/Duffy-2008.pdf

Edkins, M.T. (2014). Impacts of wind energy developments on birds and bats: looking into the problem. Report to FPL Energy, Florida, USA. https://tethys.pnnl.gov/sites/default/files/publications/Edkins-2014.pdf

EPA (2022). Guidelines on the information to be contained in Environmental Impact Statement reports. Environmental Protection Agency, Johnstown Castle Estate, Wexford. Available at: https://www.epa.ie/publications/monitoring-assessment/assessment/EIAR_Guidelines_2022_Web.pdf

European Commission (2002). Assessment of plans and projects significantly affecting Natura 2000 sites. Publications Office of the European Union, Luxembourg.

https://ec.europa.eu/environment/nature/natura2000/management/docs/art6/natura_2000_assess_en.pdf

European Commission (2020). Guidance document on wind energy developments and EU nature legislation. Publications Office of the European Union, Luxembourg. https://ec.europa.eu/environment/nature/natura2000/management/docs/wind_farms_en.pdf

Fossitt, J.A. (2000) A guide to habitats in Ireland. The Heritage Council, Kilkenny, Ireland.

Fernandez-Bellon, D., Wilson, M.W., Irwin, S., Kelly, T.C., O'Mahony, B. and O'Halloran, J. (2017) Activity patterns of breeding Hen Harriers *Circus cyaneus* assessed using nest cameras. *Bird Study*, 64(4): 557–561. https://doi.org/10.1080/00063657.2017.1383969

Fernley, J., Lowther, S. and Whitfield P. (2006). A review of goose collisions at operating wind farms and estimation of the goose avoidance rate. Unpublished report by West Coast Energy, Hyder Consulting and Natural Research, UK.

Gibbons, D.W., Reid, J.B. and Chapman, R.A. (1993). The *New Atlas of Breeding Birds in Britain and Ireland: 1988–1991*. T.& A.D. Poyser, London, UK.

Gilbert, G., Gibbons, D.W. and Evans, J. (1998) *Bird monitoring methods.* Bedfordshire, England: Pelagic Publishing, Royal Society for the protection of Birds.

Gilbert, G., Stanbury, A. and Lewis, A. (2021). Birds of Conservation Concern in Ireland 4: 2020-2026. *Irish Birds*, 43:1-22. Available at: https://birdwatchireland.ie/birds-of-conservation-concern-in-ireland/

Goodship, N.M. and Furness, R.W. (2022) Disturbance distances review: an updated literature review of disturbance distances of selected bird species. Research Report 1283, NatureScot, Inverness, Scotland.

Hardey, J., Crick, H., Wernham, C., Riley, H., Etheridge, B. and Thompson, D. (2013). *Raptors: a field guide to survey and monitoring.* The Stationery Office, Edinburgh.



Hötker, H., Thomsen, K. M. and Jeromin, H. (2006) Impacts on biodiversity of exploitation of renewable energy sources: the example of birds and bats—facts, gaps in knowledge, demands for further research, and ornithological guidelines for the development of renewable energy exploitation. Report by Nature and Biodiversity Conservation Union (NABU). Available at: https://tethys.pnnl.gov/sites/default/files/publications/Hotker_et_al_Renewable_Energy_on_Biodiversity.pdf

International Convention on Wetlands of International Importance, 1975. United Nations Treaty Series 996, entered into force 21 December 1975. Available at:

https://treaties.un.org/doc/Publication/UNTS/Volume%20996/volume-996-I-14583-English.pdf

Lack, P.C. (1986). The atlas of wintering birds in Britain and Ireland. London: T & AD Poyser.

Madders, M. and Whitfield, D.P. (2006) Upland raptors and the assessment of windfarm impacts. *Ibis*, 148(s1):43-56. https://doi.org/10.1111/j.1474-919X.2006.00506.x

McGuinness, D., Muldoon, C., Tierney, N., Cummins, S., Murray, A., Egan, S. and Crowe, O. (2015). Bird Sensitivity Mapping for Wind Energy Developments and Associated Infrastructure in the Republic of Ireland. Birdwatch Ireland, Wicklow, Ireland. Available at:

 $\underline{https://birdwatchireland.ie/app/uploads/2019/09/BWI-Bird-Wind-Energy-devt-Sensitivity-Mapping-Guidance_document.pdf}$

Meredith, C., Venosta, M., and Ressom, R. (2002) Cordington Wind Farm avian avoidance behaviour report, 2002. Biosis Research Report, Australia.

Morgan, R. and Shorten, M. (1974) Breeding of the Woodcock in Britian. *Bird Study*, 21(3), 193–199. https://doi.org/10.1080/00063657409476418

NRA (2009). Guidelines for Assessment of Ecological Impacts of National Road Schemes. National Roads Authority, Ireland. https://www.tii.ie/technical-services/environment/planning/Guidelines-for-Assessment-of-Ecological-Impacts-of-National-Road-Schemes.pdf

O'Donoghue (2019). Hen Harrier Roost Types and Guidelines to Roost Watching. Hen Harrier Winter Survey Report. Available at: http://www.ihhws.ie/IHHWS_Guide.pdf

Pearce-Higgins, J.W., Stephen, L., Langston, R.H.W., Bainbridge, I.P. and Bullman, R. (2009) The distribution of breeding birds around upland wind farms. *Journal of Applied Ecology*, 46(6): 1323-1331. https://doi.org/10.1111/j.1365-2664.2009.01715.x

Pearce-Higgins, J.W., Stephen, L., Douse, A. and Langston, R.H.W. (2012). Greater impacts of wind farms on bird populations during construction than subsequent operation: results of a multi-site and multi-species analysis. *Journal of Applied Ecology*, 49: 386–394. https://doi.org/10.1111/j.1365-2664.2012.02110.x

Percival, S.M. (2003). Birds and wind farms in Ireland: a review of potential issues and impact assessment. Ecology Consulting, Durham, UK. Available at: https://tethys.pnnl.gov/sites/default/files/publications/Percival 2003.pdf

Planning and Development Act 2000. No. 30/2000, Dublin: Stationary Office. Available at: https://www.irishstatutebook.ie/eli/2000/act/30/enacted/en/html

Ruddock, M. and Whitfield, D.P. (2007). A review of disturbance distances in selected bird species. Natural Research (Projects) Ltd report to Scottish Natural Heritage. Available at:

https://www.nature.scot/sites/default/files/2018-

 $\frac{05/A\%20Review\%20of\%20Disturbance\%20Distances\%20in\%20Selected\%20Bird\%20Species\%20-20Natural\%20Research\%20Ltd\%20-\%202007.pdf$



Ruddock, M., Mee, A., Lusby, J., Nagle, A., O'Neill, S. and O'Toole, L. (2016). The 2015

National Survey of Breeding Hen Harrier in Ireland. Irish Wildlife Manuals, No. 93. National Parks and Wildlife Service, Department of the Arts, Heritage and the Gaeltacht, Ireland. Available at: https://www.npws.ie/sites/default/files/publications/pdf/IWM93.pdf

Sharrock, J.T.R. (1976). The Atlas of Breeding Birds in Britain and Ireland. London: T. & A. D. Poyser.

SNH (2000). Wind farms and birds: calculating a theoretical collision risk assuming no avoidance action. Scottish Natural Heritage, Inverness, Scotland. Available at:

https://www.nature.scot/sites/default/files/2017-09/Guidance%20Note%20-%20Windfarms%20and%20birds%20-

%20Calculating%20a%20theoretical%20collision%20risk%20assuming%20no%20avoiding%20action.pdf

SNH (2009). Monitoring the impact of onshore wind farms on birds. Scottish Natural Heritage, Inverness, Scotland. Available at: https://www.nature.scot/sites/default/files/2017-09/Guidance%20Note%20-

% 20 Monitoring % 20 the % 20 impact % 20 of % 20 on shore % 20 windfarms % 20 on % 20 birds.pdf

SNH (2016). Assessing connectivity with Special Protection Areas (SPAs). Scottish Natural Heritage, Inverness, Scotland. Available at: https://www.nature.scot/sites/default/files/2018-08/Assessing%20connectivity%20with%20special%20protection%20areas.pdf

SNH (2017). Recommended bird survey methods to inform impact assessment of onshore wind farms. Scotlish Natural Heritage, Inverness, Scotland. Available at:

https://www.nature.scot/sites/default/files/2018-06/Guidance%20Note%20-

 $\label{lem:commended} \ensuremath{\mbox{$\%$20$}} 20 Becommended \ensuremath{\mbox{$\%$20$}} 20 survey \ensuremath{\mbox{$\%$20$}} 20 methods \ensuremath{\mbox{$\%$20$}} 20 inform \ensuremath{\mbox{$\%$20$}} 20 impact \ensuremath{\mbox{$\%$20$}} 20 assessment \ensuremath{\mbox{$\%$20$}} 20 ons hore \ensuremath{\mbox{$\%$20$}} 20 windfarms.pdf$

SNH (2018a) Avoidance rates for the onshore SNH wind farm collision risk model. Scottish Natural Heritage, Inverness, Scotland. Available at: https://www.nature.scot/sites/default/files/2018-09/Wind%20farm%20impacts%20on%20birds%20-

 $\underline{\%20Use\%20of\%20Avoidance\%20Rates\%20in\%20the\%20SNH\%20Wind\%20Farm\%20Collision\%20Risk\%20Model.pdf}$

SNH (2018b). Assessing the cumulative impacts of onshore wind farms on birds. Scottish Natural Heritage, Inverness, Scotland. Available at: https://www.nature.scot/sites/default/files/2018-08/Guidance%20-

%20Assessing%20the%20cumulative%20impacts%20of%20onshore%20wind%20farms%20on%20birds.pdf

SNH (2018c). Assessing significance of impacts from onshore wind farms outwith designated areas. Scottish Natural Heritage, Inverness, Scotland. Available at: https://www.nature.scot/doc/guidance-assessing-significance-impacts-bird-populations-onshore-wind-farms-do-not-affect-protected

Spence, I.M. (1987). Mortality of snipe estimated from a mark and recapture Study. *Ringing and Migration* 9(1)27-31. https://doi.org/10.1080/03078698.1988.9673918

Village, A. (1990) The Kestrel. London: T. & A. D. Poyser.

Wildlife Act 1976, No. 39/1976, Dublin: Stationary Office. Available at: http://www.irishstatutebook.ie/eli/1976/act/39/enacted/en/html?q=wildlife+act

Wilson, M.W., Fernandez-Bellon, D., Irwin, S. and O'Halloran, J. (2016) Hen Harrier *Circus cyaneus* population trends in relation to wind farms. *Bird Study*, 64(1), 20–29. https://doi.org/10.1080/00063657.2016.1262815



Land, Soils and Geology

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 (FT) (2024). Geotechnical and Peat Stability Report – Knockshanvo Wind Farm, April 2024.

Fehily Timoney (FT) (2024). Peat & Spoil Management Plan - Knockshanvo Wind Farm, April 2024.

Geological Survey of Ireland (GSI). (1999) Geology of the Shannon Estuary, 1:100,000 scale Bedrock Geology Series, Sheet 17.

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.

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

Hydrology and Hydrogeology

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.

DOE/NIEA (2015): Wind Farms and Groundwater Impacts – A guide to EIA and Planning Considerations

EPA (2017) Guidelines on the Information to be contained in Environmental Impact Assessment Reports – Draft.

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

EPA (2021): 3rd Cycle Draft Loer Shannon Catchment Report (HA 25D).

EPA (2021): 3rd Cycle Draft Shannon Estuary North Catchment Report (HA 27).

Fehily Timoney (2024): Geotechnical and Peat Stability Risk Assessment: Knockshanvo Wind Farm.

Fehily Timoney (2024): Peat and Spoil Management Plan: Knockshanvo Wind Farm.



GSI (2004): Lough Graney GWB: Summary of Initial Characterisation.

GSI (2004): Tulla Newmarket on Fergus GWB: Summary of Initial Characterisation.

GSI (2004): Ardnacrusha GWB: Summary of Initial Characterisation.

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).

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

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

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

SNH, 2010: Scottish Natural Heritage report (SNH): Good Practice During Wind Farm Construction.

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

Air Quality

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.

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 (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 (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

Department of the Environment, Heritage and Local Government (2004) Quarries and Ancillary Activities, Guidelines for Planning Authorities. Stationery Office, Dublin.

Environmental Protection Agency (2023) Air Quality Standards https://airquality.ie/information/airquality-standards

Environmental Protection Agency (2023) Air Quality in Ireland 2022. EPA, Ireland.

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

Environmental Protection Agency (2021). Best Practice Guidelines on the Preparation of Resource and Waste Management Plans for Construction & Demolition Projects.



Environmental Protection Agency (2020) Greenhouse Gas Emissions 1990 – 2020 (provisional figures)

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

European Commission (2022) COP27 Climate Change Conference. Available at: https://cop27.eg/#/

European Commission (2021) COP26 Climate Change Conference. Available at: https://ukcop26.org/

European Commission (2019) COP25 Climate Change Conference. Available at: https://ec.europa.eu/clima/events/cop25-climate-change-conference_en

European Commission (2017). Guidance on the Preparation of the Environmental Impact Assessment Report.

European Union (1996). Directive 1996/62/EC. European Parliament and European Council.

European Environment Agency (2022) Air Quality in Europe - 2022 Report. EEA.

Government of Ireland (2011) Air Quality Standards Regulations 2011 (S.I. No. 180 of 2011) as amended by the Air Quality Standards (Amendments).

Government of Ireland (2016) Arsenic, Cadmium, Mercury, Nickel and Polycyclic Aromatic Hydrocarbons in Ambient Air Regulations, 2016 (S.I. 659 2016).

Government of Ireland (2023) Clean Air Strategy for Ireland

Government of Ireland (2004) Ozone in Ambient Air Regulations 2004 (S.I. No. 53 of 2004).

Government of Ireland (2002) Air Quality Standards Regulations 2002 (S.I. No. 271 of 2002).

Government of Ireland (1999) Ambient Air Quality Assessment and Management Regulations 1999 (S.I. No. 33 of 1999).

Government of Ireland (1999) Environmental Protection Agency Act 1992 (Ambient Air Quality Assessment and Management) Regulations 1999.

Holman et al (2014). IAQM Guidance on the assessment of dust from demolition and contstruction, Institute of Air Quality Management, London. www.iaqm.co.uk/text/guidance/construction-dust-2014.pdf.

Intergovernmental Panel on Climate Change (IPCC) (2021) Sixth Assessment Report - Climate Change 2021: The Physical Science Basis. www.ipcc.ch

Institute of Air Quality Management: Guidance of the Assessment of Dust from Demolition and Construction (IAQM, 2024).

Met Éireann www.met.ie

Oosterhuis and Skinner (2004) The Fourth Air Quality Daughter Directive: Impacts and Consequences of Mandatory Limit Values. IEEP Brief number 03/2000.

Rialtas na Eireann (2023) Clean Air Strategy for Ireland https://www.gov.ie/en/publication/927e0-clean-air-

 $\underline{strategy/\#:\sim:text=The\%20Clean\%20Air\%20Strategy\%20provides, delivering\%20on\%20wider\%20national\%20}\\ \underline{objectives}.$



Transport Infrastructure Ireland (2022) Air Quality Assessment of Proposed National Roads – Standard PE-ENV-01107

Transport Infrastructure Ireland (2011) Guidelines for the Treatment of Air Quality During the Planning and Construction of National Road Schemes.

Transport Infrastructure Ireland (2009) Guidelines for Assessment of Ecological Impacts of National Roads Schemes

UK Department of Environment Food and Rural Affairs (DEFRA) (2016) Part IV of the Environment Act 1995: Local Air Quality Management Technical Guidance (TG16)

UK Highways Agency (UKHA) (2019) Design Manual for Roads and Bridges (DMRB) – LA 105 Air Quality

World Health Organization (WHO) (2005) Air Quality Guidelines for Particulate Matter, Ozone, Nitrogen Dioxide and Sulfur Dioxide Global Update 2005

Climate

Clare County Council (2023). Clare County Development Plan 2023-2029

Clare County Council (2024) Clare County Council Climate Action Plan 2024-2029

Clare Noone, Deirdre McClean, Danielle Gallagher, Jennifer McElwain and Peter Thorne, 2023, IRELAND'S CLIMATE CHANGE ASSESSMENT Volume 1: Climate Science – Ireland in a Changing World, Environmental Protection Agency, Ireland, 228 pp,

Climate Change Advisory Council Annual Review 2023
https://www.climatecouncil.ie/councilpublications/annualreviewandreport/CCAC-AR-2023-FINAL%20Compressed%20web.pdf

Climate Change Performance Index (CCPI) (2023) Climate Change Performance Index 2024. https://ccpi.org/download/climate-change-performance-index-2024/

Climate Change Performance Index (CCPI) (2022) 2023 Results: Climate Mitigation Efforts of 57 Countries plus the EU. Covering 90% of the Global Greenhouse Gas Emissions. www.ccpi.org

Connor McGookin, Abhay Menon, Shane McDonagh, Brian Ó Gallachóir and Paul Deane, 2023, IRELAND'S CLIMATE CHANGE ASSESSMENT Volume 2: Achieving Climate Neutrality by 2050, Environmental Protection Agency, Ireland, 226 pp,

Conor Murphy, Liam Heaphy, Tara Quinn, Enda O'Brien and Paul Nolan, 2023, IRELAND'S CLIMATE CHANGE ASSESSMENT Volume 3: Being Prepared for Ireland's Future Climate, Environmental Protection Agency, Ireland, 276 pp,

Department of Communications, Climate Action and Environment (2021). Climate Action and Low Carbon Development (Amendment) Act 2021.

Department of Communications, Climate Action and Environment (2021) Climate Action Plan (CAP).

Department of Communications, Climate Action and Environment (2018). Sustainable Development Goals National Implementation Plan 2018-2020.

Department of Communications, Climate Action and Environment (2015). Climate Action and Low Carbon Development Act 2015.



Department of Environment, Climate and Communications (2023) Climate Action Plan 2024.

Department of Environment, Climate and Communications (2022). Climate Action Plan 2023.

Department of Environment, Climate and Communications (May 2022). Draft of the Second National Implementation Plan for the SDG Goals 2022-2024.

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

Department of the Environment, Heritage and Local Government (2006). Wind Energy Development Guidelines for Planning Authorities (Revised). Stationery Office, Dublin.

Department of Climate Change, Action & Environment. Renewable Energy Action Plan (NREA) Submitted under Article 4 of Directive 2009/28/EC.

Department of Climate Change, Action & Environment National Energy Efficiency Action Plan (NEEAP).

Department of the Taoiseach (2020). Programme for Government: Our Shared Future.

Doddy Clarke, E, Sweeney, C, McDermott, F, et al. Climate change impacts on wind energy generation in Ireland. Wind Energy. 2021; 1-13. DOI: 10.1002/we.2673

EirGrid, Enduring Connection Policy 2.3 Constraints Report for Area H2 Solar and Wind (December 2022). Available at: https://cms.eirgrid.ie/sites/default/files/publications/ECP-2.3-Solar-and-Wind-Constraints-Report-Results-for-Area-H2-v1.0.pdf

Environmental Protection Agency (2022) Ireland's Greenhouse Gas Emissions Projections 2022-2040.

Environmental Protection Agency (2023) Ireland's National Inventory Report 2023 - Greenhouse Gas Emissions 1990-2021

Environmental Protection Agency (June 2022) Ireland's Greenhouse Gas Emissions Projections 2021-2040. EPA, Ireland.

European Commission (2023) COP28 Climate Change Conference. Available at: https://www.cop28.com/en/

European Commission (2022) COP27 Climate Change Conference. Available at: https://cop27.eg/#/

European Commission (2019) COP25 Climate Change Conference. Available at: https://ec.europa.eu/clima/events/cop25-climate-change-conference_en

European Commission (2019) European Green Deal – European Climate Law, 2021.

European Commission (2015). COP21 Paris Agreement. Available at: https://ec.europa.eu/clima/policies/international/negotiations/paris_en

European Commission, Directorate-General for Environment, *Guidance on integrating climate change and biodiversity into environmental impact assessment* –, Publications Office, 2013, https://data.europa.eu/doi/10.2779/11735

European Commission (2010) Europe 2020 Strategy A European strategy for smart, sustainable and inclusive growth. Brussels.



European Union (2014). Directive 2014/52/EU of 16 April 2014 on the assessment of the effects of certain public and private projects on the environment.

European Union (2014) 2030 Climate and Energy Policy Framework

IPCC, 2010. Guidance Note for Lead Authors of the IPCC Fifth Assessment Report on Consistent Treatment of Uncertainties.

https://www.ipcc.ch/site/assets/uploads/2017/08/AR5_Uncertainty_Guidance_Note.pdf - Accessed April 2021>

Met Éireann www.met.ie

Nolan, P., and J. Flanagan, 2020: High-Resolution Climate Projections for Ireland – a Multi-model Ensemble Approach. Environmental Protection Agency.

fittps://www.epa.ie/publications/research/climate-change/Research Report 339 Part1.pdf

Peter Thorne, Jean Boucher, Brian Caulfield, Hannah Daly, Paul Deane, Danielle Gallagher, Liam Heaphy, Deirdre McClean, Shane McDonagh, Jennifer McElwain, Connor McGookin, Abhay Menon, Róisín Moriarty, Conor Murphy, Paul Nolan, Clare Noone, Enda O'Brien, Brian Ó Gallachóir, Tadhg O'Mahony, Tim O'Riordan, Tara Quinn, Agnieszka Stefaniec and Diarmuid Torney, 2023, IRELAND'S CLIMATE CHANGE ASSESSMENT: Synthesis Report. Environmental Protection Agency, Ireland, 36 pp.

Róisín Moriarty, Tadhg O'Mahony and Agnieszka Stefaniec, Jean L. Boucher, Brian Caulfield, Hannah Daly and Diarmuid Torney, 2023, IRELAND'S CLIMATE CHANGE ASSESSMENT Volume 4: Realising the Benefits of Transition and Transformation, Environmental Protection Agency, Ireland, 284 pp,

Scottish Government (2008). Calculating Carbon Savings from Wind Farms on Scottish Peat Lands

Sustainable Energy Authority Ireland (SEAI) Energy in Ireland 2022 Report. December 2022. https://www.seai.ie/publications/Energy-in-Ireland-2022.pdf

TII Air Quality Assessment of Proposed National Roads – Standard PE-ENV-01107. December 2022. (TII 2022a) https://www.tiipublications.ie/library/PE-ENV-01107-01.pdf

TII Climate Assessment of Proposed National Roads – Standard PE-ENV-01105. December 2022 (TII 2022b) https://www.tiipublications.ie/library/PE-ENV-01105-01.pdf>

TII Climate Guidance for National Roads, Light Rail, and Rural Cycleways (Offline & Greenways) - Overarching Technical Document – Overarching Technical Document PE-ENV-01104. December 2022 (TII 2022c) https://www.tiipublications.ie/library/PE-ENV-01104-01.pdf

TII Carbon Tool for Road and Light Rail Projects: User Guidance Document. GE-ENV-01106. December 2022. (TII, 2022d) https://www.tiipublications.ie/library/GE-ENV-01106-01.pdf

TII Carbon Tool for Road and Light Rail Projects: User Guidance Document. GE-ENV-01106. December 2022. https://www.tiipublications.ie/library/GE-ENV-01106-01.pdf

TII (2020) TII Carbon Assessment Tool (Version 2).

UNFCCC (1997) Kyoto Protocol to the United Nations Framework Convention on Climate Change adopted at COP3 in Kyoto, Japan, on 11 December 1997

UNFCCC (2012) Doha Climate Change Conference United Nations Framework Convention on Climate Change



United Nations (2023). The Sustainable Development Goals Report 20223

United Nations (2015) Transforming our World: the 2030 Agenda for Sustainable Development. Available at: https://sustainabledevelopment.un.org/sdgs

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.

Wiser, R., Z. Yang, M. Hand, O. Hohmeyer, D. Infi eld, P. H. Jensen, V. Nikolaev, M. O'Malley, G. Sinden, A. Zervos, 2011: Wind Energy. In IPCC Special Report on Renewable Energy Sources and Climate Change Mitigation [O. Edenhofer, R. Pichs-Madruga, Y. Sokona, K. Seyboth, P. Matschoss, S. Kadner, T. Zwickel, P. Eickemeier, G. Hansen, S. Schlömer, C. von Stechow (eds)], Cambridge University Press, Cambridge, United Kingdom and New York, NY, USA.

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)

British Standard Institute (BSI) BS 5228-2:2009+A:2014 Code of Practice for noise and vibration control of construction and open sites - Part 2: Vibration (BSI, 2014)

British Standard Institute (BSI) BS 7385: 1993 Evaluation and measurement for vibration in buildings Part 2: Guide to damage levels from ground borne vibration (BSI, 1993)

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

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

Department of Trade, and Industry (UK) Energy Technology Support Unit (ETSU) ETSU-R-97 The Assessment and Rating of Noise from Wind Farms (ETSU, 1996)

Institute of Acoustics (IOA) A Good Practice Guide to the Application of ETSU-R-97 for the Assessment and Rating of Wind Turbine Noise (IOA, 2013)

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

International Organization for Standardization (ISO) ISO 9613-2:1996 Acoustics – Attenuation of sound during propagation outdoors - Part 2: General method of calculation (ISO, 1996)

Department of the Environment, Heritage, and Local Government (DEHLG) Wind Energy Development Guidelines (DEHLG, 2006)

Cultural Heritage

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

Architectural Heritage Guidelines for Planning Authorities (2011)



Clare County Development Plan 2023-2029.

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

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

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

Other Sources

Sites and Monuments Record, Co. Clare

Sites and Monuments Record, Co. Limerick

Record of Monuments and Places, Co. Clare

Record of Monuments and Places, Co. Limerick

1st and 2nd Edition 6 inch OS maps

www.heritagemaps.ie

www. heritagedata.maps.arcgis.com

www.excavations.ie

www.buildingsofireland.ie

www.logainm.ie

Landscape and Visual

The Guidelines for Landscape and Visual Impact Assessment 3rd Edition' (Landscape Institute [LI] & Institute of Environmental Management and Assessment [IEMA], 2013);

'Wind Energy Development Guidelines for Planning Authorities' (Department of the Environment, Heritage and Local Government [DoEHLG], 2006), including reference to the Draft Revised Wind Energy Development Guidelines (Department of Planning, Housing and Local Government (DoHPLG), 2019);

'Visual Assessment of Wind Farms: Best Practice' (Scottish Natural Heritage [SNH], 2002);

'Visual Representation of Wind Farms: Version 2' (hereafter, SNH Guidance v.2) (SNH, 2014);

'Visual Representation of Wind Farms: Version 2.2' (hereafter, SNH Guidance v.2.2) (SNH, 2017);

'Siting and Designing Wind Farms in the Landscape, Version 3a' (hereafter, SNH Guidance v.3a) (SNH, 2017);

'Assessing the Cumulative Impact of Onshore Wind Energy Developments' (Nature Scot, 2021; includes methodology from SNH, 2012);

'Visual Representation of Development Proposals' (Landscape Institute Technical Guidance Note 06/19, 2019) (hereafter, LI TGN 06/19);



'Spatial Planning for Onshore Wind Turbines: Natural Heritage Considerations' (SNH, 2015);

'Landscape and Landscape Assessment: Consultation Draft of Guidelines for Planning Authorities' (DoEHLG, 2000);

'Guidelines on the Information to be Contained in Environmental Impact Assessment Reports' (Environmental Protection Agency of Ireland [EPA], 2000).

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 (December 2019) Draft Revised Wind Energy Development Guidelines. 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 the Environment, Heritage and Local Government (2006). Wind Energy Development Guidelines for Planning Authorities. DoEHLG, Dublin.

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.

Environmental Protection Agency (EPA) (2021) Best Practice Guidelines on the Preparation of Resource and Waste Management Plans for Construction & Demolition Projects.

ESB Networks (2019) Code of Practice for Avoiding Danger from Overhead Electricity Lines.

ESB (2017) EMF & You: Information about Electric & Magnetic Fields and the electricity network in Ireland

Gas Networks Ireland Code of Practice (2021) https://www.gasnetworks.ie/docs/business/safety-in-the-business/GNI-Code-of-Practice-for-Working-in-Vicinity-of-Tx-Network-2021.pdf

Irish Wind Energy Association (2012) Best Practice Guidelines for the Irish Wind Energy Industry.

PE-PDV-02045, Transport Assessment Guidelines, Transport Infrastructure Ireland, May 2014.

PE-PAG-02017, Project Appraisal Guidelines, Unit 5.3, Travel Demand Projections, Transport Infrastructure Ireland, October 2021.

DN-GEO-03060, Geometric Design of junctions, Transport Infrastructure Ireland, May 2023

GE-STY-01024, Road Safety Audit Guidelines, December 2017.



DN-GEO-03030, Design Phase Procedure for Road Safety Improvement Schemes, Urban Renewal Schemes and Local Improvement Schemes, April 2021.

Clare County Development Plan 2023 - 2029.

Limerick Development Plan 2022 – 2028.

TII Automatic Traffic Count Data, R445 between Castletroy and Annacotty, year 2023.

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.

Department of Transport (2010). Guidance for the Control and Management of Traffic at Roadworks – Second Edition.

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

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

ESB 2017 EMF and You: Information about Electric & Magnetic Fields and the electricity network in Ireland. Available at: https://esb.ie/docs/default-source/default-document-library/emf-public-information_booklet_v9.pdf?sfvrsn=0

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.

Failte Ireland https://www.failteireland.ie/

French Renewables 2002 Wind Turbines, Radars and Waves. Available at:

https://fee.asso.fr/comprendre-leolien/les-eoliennes-les-radars-et-les-

 $\frac{ondes/\#:\text{-:}text=La\%20r\%C3\%A9flexion\%20et\%20la\%20diffraction\%20des\%20ondes\%20\%C3\%A9lectromagn\%C3\%A9tiques,fait\%20l\%E2\%80\%99objet\%20de\%20nombreuses\%20\%C3\%A9tudes\%20dans\%20plusieurs\%20pays}{ays}$

Southern Regional Assembly (2020) Regional Spatial and Economic Strategy (RSES) 2020-2032,

Clare County Development Plan 2023 - 2029

 $Gas\ Networks\ Ireland\ Code\ of\ Practice\ (2021)\ \underline{https://www.gasnetworks.ie/docs/business/safety-in-the-business/GNI-Code-of-Practice-for-Working-in-Vicinity-of-Tx-Network-2021.pdf}$

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



Health & Safety Authority (2013) Guidelines on the Procurement, Design and Management Requirements of the Safety, Health and Welfare at Work (Construction) Regulations 2013

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).

HSE Emergency Management: Area 3 Crisis Management Team Major Emergency Plan (Covering Geographical Areas of Counties Clare, Limerick and North Tipperary) May 2022.

Rialtas na hÉireann 2021-2022 National Risk Assessment: Overview of Strategic Risks. https://assets.gov.ie/220847/1291534a-9b27-4c05-92ed-d3bd21adc89a.pdf#page=null