

BIBLIOGRAPHY

Introduction

Bitpower (November 2021). Ireland's Data Hosting Industry – Biannual Report

RECEINED: 02/09/2025 Department of Environment, Climate and Communications (2021). Climate Action and Low Carbon Development (Amendment) Bill 2021.

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

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

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

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

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, Climate and Communications (2023), 'Energy Security in Ireland to 2030'

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.

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.

Department of Public Expenditure and Reform (DPER) (2013). Future Expenditure Risks associated with Climate Change/Climate Finance.

Dr Eimear Cotter, Head of Low Carbon Technologies, SEAI - "Energy Security in Ireland 2015"

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

EirGrid (January 2024) Ten Year Generation Capacity Statement 2023-2032



EirGrid (2025) Wind Installed Capacities - 1990 to Date

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

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

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

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

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

Environment Protection Agency (May 2024) Ireland's Greenhouse Gas Emission Projections 2023-2050

Environmental Protection Agency (July 2024): Ireland's Provisional Greenhouse Gas Emissions 1990-2023.

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

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

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

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

European Union (2023). Directive 2023/2413 of the European Parliament and of the Council 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

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 CENED. OF OOR OOS amended by 2014/52/EU).

Government of Ireland (April 2022). National Energy Security Framework (NESF).

Government of Ireland (2021). National Development Plan 2021-2030.

IEA (2024), Renewables 2023, IEA, Paris

International Renewable Energy Agency + WMO (2023) 2022 Year in Review: Climate-driven Global Renewable Energy Potential Resources and Energy Demand

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

IPCC, 2022: Climate Change 2022: Mitigation of Climate Change. 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 Fifth Assessment Synthesis Report (2014). Intergovernmental Panel on Climate Change AR5 Report.

IPCC (2018) Global Warming of 1.5°C: an IPCC Special Report on the impacts of global warming of 1.5°C above pre-industrial levels and related global greenhouse gas emission pathways, in the context of strengthening the global response to the threat of climate change, sustainable development, and efforts to eradicate poverty

IPCC (2019) Climate Change and Land: an IPCC Special Report on climate change, desertification, land degradation, sustainable land management, food security, and greenhouse gas fluxes in terrestrial ecosystems

IPCC (2019) IPCC Special Report on the Ocean and Cryosphere in a Changing Climate

Ireland Wind Energy Association (2015). Data Centre Implications for Energy Use in Ireland

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

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

Pöyry & Element Energy (2015) Potential CCS Cost Reduction Mechanisms Summary

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

Sustainable Energy Authority of Ireland (December 2022): Ireland's energy-related CO2 emissions heading in wrong direction. http://www.seai.ie/News_Events/Press_Releases/2014/Biomass-is-a-big-part-ofthe-solution-but-not-the-whole-solution.html

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



Sustainable Energy Authority of Ireland (December 2024) National Energy Projections – 2024 Report

Sustainable Energy Authority of Ireland (December 2024): Energy in Ireland – 2024 Report.

Sustainable Energy Authority of Ireland (November 2023): Energy in Ireland – 2023 Report

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

Sustainable Energy Authority of Ireland (2023) Key insights from SEAIs 2022 National Energy Balance

Sustainable Energy Authority of Ireland (2019) Sustainability Criteria Options and Impacts for Irish Bioenergy Resources

Sustainable Energy Authority of Ireland (2015) Energy Security in Ireland 2015

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

Wind Energy Ireland (2024) Repowering Ireland - How we stay global leaders in onshore wind energy

World Health Organisation (2024) Ambient (outdoor) air pollution

World Meteorological Organisation (2024) State of the Global Climate 2023.



Background to the Proposed Project

Climate Action Plan 2025 (Department of Climate, Energy and the Environment, May 2025) Available at: https://assets.gov.ie/static/documents/Climate_Action_Plan_2025_updated_cover.pdf

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

Energy and the Green Deal (European Commission, 2022) https://commission.europa.eu/strategy-and-policy/priorities-2019-2024/european-green-deal/energy-and-green-deal_en

State of the Global Climate 2023 (World Meteorological Organisation, March 2024) Available at: https://library.wmo.int/records/item/68835-state-of-the-global-climate-2023

Sustainable Energy Authority of Ireland (SEAI) website, www.seai.ie

The Programme for Government 2025 – Securing Ireland's Future (Department of the Taoiseach, January 2025) Available at: https://assets.gov.ie/static/documents/programme-for-government-securing-irelands-future.pdf

Ireland's Climate 2024 Provisional Summary Report (Met Eireann, March 2025) Available at: https://www.met.ie/cms/assets/uploads/2025/03/Irelands-Climate-2024_Provisional-report_MetEireann.pdf

Renewable energy statistics (Eurostat, 2023) Available at: https://ec.europa.eu/eurostat/statistics-explained/index.php?title=Renewable_energy_statistics#:~:text=update%3A%20December%202025.-,Highlights,up%20from%2023.0%25%20in%202022.

Annual Review 2024-Summary for All (The Climate Change Advisory Council, October 2024) Available at: https://www.climatecouncil.ie/councilpublications/annualreviewandreport/CCAC-AR-2024-SfA-final.pdf

Electricity Sectoral Review (Climate Change Advisory Council, May 2024) Available at: https://www.climatecouncil.ie/councilpublications/annualreviewandreport/AR2024-Electricity-final.pdf

National Energy Security Framework (April 2022) Available at: https://www.gov.ie/pdf/?file=https://assets.gov.ie/221399/86cb99f5-58e3-4821- bc4c-e1bb1fa706fb.pdf#page=null 2

Climate Change Advisory Council Annual Review 2023 (July 2023) https://www.climatecouncil.ie/councilpublications/annualreviewandreport/CCAC-AR-2023-postfinal.pdf

The Status of Ireland's Climate 2023 (Met Eireann, December 2023) Available at: https://www.met.ie/state-of-the-irish-climate-report-2023

 $Ireland's\ Climate\ Change\ Assessment\ (EPA,\ January\ 2024)\ Available\ at:\ https://www.epa.ie/ourservices/monitoring-assessment/climate-change/irelands-climate-change-assessment-icca/#:~:text=ICCA%20aims%20to%20provide%20summary,needs%20and%20priority%20research%20issues.$

Energy in Ireland 2024 Report (SEAI, December 2024) Available at: https://www.seai.ie/sites/default/files/publications/energy-in-ireland-2024.pdf

Revised National Planning Framework (April 2025) Available at: https://www.npf.ie/



Consideration of Reasonable Alternatives

Department of Environment, Climate and Communications (2024). Climate Action Plan 2025

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.

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

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Description of the Proposed Project

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

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

Hen Harrier Project (Accessed 2025: http://www.henharrierproject.ie/about.html)

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

Wind Europe (2020) Decommissioning of Onshore Wind Turbines

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.

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

Centre for Economic Research on Inclusivity and Sustainability (2023) Wind Turbines and House Prices Along the West of Ireland: A Hedonic Pricing Approach.

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.

Cork County Development Plan 2022-2028

Department of Health - Health in Ireland: Key Trends 2022;

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

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



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

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

Department of Housing, Planning and Local Government (DoHPLG), Guidelines for Planning Authorities and An Bord Pleanála on carrying out Environmental Impact Assessment (2018)

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.

Department of the Environment, Heritage and Local Government Draft Wind Energy Development Guidelines (2019)

Discover Ireland www.discoverireland.ie

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

EirGrid (2025) Systems and Renewable Data Reports

Energy Policy (2023) Commercial wind turbines and residential home values: new evidence from the universe of land-based wind projects in the United States.

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

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

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

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 (July 2023) EIAR Guidelines for the Consideration of Tourism and Tourism Related Projects

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.

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

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.

House of Commons ODPM Annual Report and Accounts (2004): Housing, Planning, Local Government and the Regions Committee; Planning Policy Statement 22

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

Institute of Public Health Ireland (2009) Health Impact Assessment Guidance

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

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.

Kerry County Development Plan 2022-2028

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.

NRA/TII (November 2008) Environmental Impact Assessment of National Road Schemes- A practical Guide, National Revision 1

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 (2024) WEI Latest News – National poll: 4 in 5 people support Irish wind energy development with 3 in 5 backing local wind farms.



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

Wind Power Icing Atlas (WIceAtlas) – IEA Ice Class 1 Category for Ireland (map). Available at: https://vtt.maps.arcgis.com/apps/instant/minimalist/index.html?appid=6d93b5e284104d54b4fb6fd36903e742

Woolcock Institute for Medical Research, New South Wales Australia (2023) 'The Health Effects of 72 Hours of Simulated Wind Turbine Infrasound: A Double-Blind Randomized Crossover Study in Noise-Sensitive Health Adults'

World Health Organisation (2025) Constitution Available at: https://www.who.int/about/governance/constitution

World Health Organisation (2018). Environmental Noise Guidelines for the European Region: World

World Health Organisation (2022) Environmental Noise Guidelines for the European Region



Biodiversity

Bailey, M. and Rochford J. (2006) Otter Survey of Ireland 2004/2005. Irish Wildlife Manuals, No. 23.

National Parks and Wildline Service, ____,
Dublin, Ireland.

CIEEM (2018) Guidelines for Ecological Impact Assessment in the UK and Ireland: Terrestrial,

Coastal and Marine version 1.2. Chartered Institute of Ecology and Environmental

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

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

Commission of the European Communities (2013) Interpretation manual of European Union habitats. Eur 27. European Commission DG Environment.

Curtis, T.G.F., & McGough, H.N. (1988). The Irish Red Data Book.

Department of Housing, Local Government and Heritage (2024). Ireland's 4th National Biodiversity Action Plan 2023-2030.

Dobson, M., Pawley, S., Fletcher, M. and Powell, A. (2012). Guide to Freshwater Invertebrates, Freshwater Biological Association, The Ferry Landing, Cumbria, UK.

EA (2003). River Habitat Survey in Britain and Ireland Field Survey Guidance Manual 2003. Environment Agency, UK.

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

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.

European Communities (Quality of Salmonid Waters) Regulations, 1988 (S.I. 293/1988). First Schedule of the European Union (Invasive Alien Species) Regulations 2024 (S.I. No. 374 of 2024) Flora (Protection) Order 2022

Fossitt, J. A. (2000). A Guide to Habitats in Ireland. Dublin: The Heritage Council.

Habitats Directive (92/43/EEC).

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

Lawton C., Hanniffy, R., Molloy, V., Guilfoyle, C., Stinson, M. & Reilly, E. (2020) All-Ireland Squirrel and Pine Marten Survey 2019. Irish Wildlife Manuals, No. 121. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

Maitland, P.S. (2003). Ecology of the River, Brook and Sea Lamprey. Conserving Natura 2000 Rivers Ecology Series No. 5. English Nature, Peterborough.



Marnell, F., Kingston, N. & Looney, D. (2009) Ireland Red List No. 3: Terrestrial Manuals, National Parks and Wildlife Service, Department of the Environment, Heritage and Local Government, Dublin, Ireland.

Martin, J.R., O'Neill, F.H. & Daly, O.H. (2018), The monitoring and assessment of three EU Habitats Directive Annex I grassland habitats. Irish Wildlife Manuals, No. 102. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland.

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

NPWS Protected Site Synopses and maps available on http://www.npws.ie/en/ProtectedSites/.

NRA (2009a). Guidelines for Assessment of Ecological Impacts of National Road Schemes. Rev 2, June 2009.

NRA (2009b). Guidelines on Ecological Surveying Techniques for Protected Flora and Fauna on National Road Schemes.

O'Grady, M.F. (2006). Channels and challenges: enhancing Salmonid rivers. Irish Fresh- water Fisheries Ecology and Management Series: Number 4. Central Fisheries Board, Dublin.

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

Perrin et al., (2018). Irish Vegetation Classification (IVC) – An Overview of Concepts, Structure and Tools. In Practice, CIEEM. December 2018, pp 15-19.

Preston C.D., Pearman, D.A. and Dines, T.D. (2002). New Atlas of the British and Irish Flora. Oxford University Press.

Stace, C. (2010). New Flora of the British Isles (3rd Edition). Cambridge: Cambridge University Press Third Schedule of the European Communities (Birds and Natural Habitats) Regulations (S.I. 477 of 2011).

TII (2004) Environmental Impact Assessment of National Road Schemes – A Practical Guide, National Roads Authority, Dublin.

TII (2004) Guidelines for the Treatment of Noise and Vibration in National Road Schemes (1 ed.). Dublin: National Roads Authority.

TII (2005) Guidelines for the Crossing of Watercourses during the Construction of National Road Schemes. Dublin: National Roads Authority.

TII (2006) Best Practice Guidelines for the Conservation of Bats in the Planning of National Road Schemes. Dublin: National Roads Authority.

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

TII (2006) Guidelines for the Treatment of Bats during the Construction of National Road Schemes. Dublin: National Roads Authority.



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

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

Toner, P., Bowman, J., Clabby, K., Lucey, J., McGarrigle, M., Concannon, C., ... & MacGarthaigh, M. (2005). Water quality in Ireland. Environmental Protection Agency, Co. Wexford, Ireland.

Uisce Éireann (2016) IW-AMT-SOP-009 Information and Guidance Document on Japanese Knotweed Asset Strategy and Sustainability

Wildlife Act 1976 and Wildlife (Amendment) Acts.

Ornithology

Alerstam, T., Rosén, M., Bäckman, J., Ericson, P. G. P., & 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

Allison, M. and Ausden, M. 2006. Effects of removing the litter and humic layers on heathland establishment following plantation removal. – *Biol. Conserv.* **127**: 177–182.

Andrén H (1994) Effects of habitat fragmentation on birds and mammals in landscapes with different proportions of suitable habitat: a review. *Oikos* 71:355–366.

Arksey, H., & O'Malley, L. (2005). Scoping studies: towards a methodological framework. *International journal of social research methodology*, 8(1), 19-32. https://www.tandfonline.com/doi/abs/10.1080/1364557032000119616

Arroyo, B., Amar, A., Leckie, F., Buchanan, G. M., Wilson, J. D., & Redpath, S. (2009). Hunting habitat selection by hen harriers on moorland: implications for conservation management. *Biological conservation*, 142(3), 586-596. https://www.sciencedirect.com/science/article/abs/pii/S0006320708004473

Arroyo, B., Leckie, F., Amar, A., McCluskie, A., & Redpath, S. (2014). Ranging behaviour of Hen Harriers breeding in special protection areas in Scotland. *Bird Study*, *61*(1), 48-55. https://www.tandfonline.com/doi/full/10.1080/00063657.2013.874976

Bakker, J., Poschlod, P., Strykstra, R., Bekker, R. and Thompson, K. 1996. Seed banks and seed dispersal: important topics in restoration ecology. – *Acta Bot. Neerl.* **45**: 461–490.

Balmer, D. E., Gillings, S., Caffrey, B. J., Swann, R. L., Downie, I. S., & Fuller, R. J. (2013). Bird Atlas 2007-11: the breeding and wintering birds of Britain and Ireland. Thetford: BTO. http://www.seabirdgroup.org.uk/journals/seabird-27/seabird-27-112.pdf

Band, W., Madders, M., & Whitfield, D. P. (2007). Developing field and analytical methods to assess avian collision risk at wind farms. Birds and wind farms: risk assessment and mitigation, 259-275. https://www.natural-research.org/application/files/4114/9182/2839/Band_et_al_2007.pdf

Batary, P. and Baldi, A. (2004) Evidence of an edge effect on avian nest success. *Conservation Biology* 18: 389–400

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



BirdWatch Ireland (2021) I-WEBS Counter Manual. BirdWatch Ireland, Kilcoole, Ireland. Available at:

BirdWatch Ireland (2021) I-WEBS Counter Manual. Bird Vaccin Irolland. https://birdwatchireland.ie/publications/i-webs-counter-manual/
Brazil, M. (2003). The Whooper Swan. London: T&AD Poyser.
Brown, A. F., & Shepherd, K. B. (1993). A method for censusing upland breeding waders. Bird

British Trust for Ornithology (2021). Breeding Bird Survey. British Trust for Ornithology, Thetford, UK Available at: https://www.bto.org/our-science/projects/bbs

Burke, B., Lewis, L. J., Fitzgerald, N., Frost, T., Austin, G., & Tierney, T. D. (2018). Estimates of waterbird numbers wintering in Ireland, 2011/12-2015/16. Irish Birds, 11, 1-12.https://www.researchgate.net/profile/Brian-Burke-5/publication/337089291 Estimates of waterbird numbers wintering in Ireland 201112-2015-16.pdf

Burke, B., McElwaine, J. G., Fitzgerald, N., Kelly, S. B. A., McCulloch, N., Walsh, A. J., & Lewis, L. J. (2021). Population size, breeding success and habitat use of Whooper Swan Cygnus cygnus and Bewick's Swan Cygnus columbianus bewickii in Ireland: results of the 2020 International Swan Census. Irish Birds, 43, 57-70. https://www.researchgate.net/profile/Brian-Burke-5/publication/350856681 Population size breeding success and habitat use of Whooper Swan Cyg nus_cygnus_and_Bewick's_Swan_Cygnus_columbianus_bewickii_in_Ireland_results_of_the_2020_Inter $national_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitational_Swan_Census/links/616fce7cc891c4663aaace06/Population-size-breeding-success-and-habitation-size-breeding-su$ use-of-Whooper-Swan-Cygnus-cygnus-and-Bewicks-Swan-Cygnus-columbianus-bewickii-in-Ireland-resultsof-the-2020-International-Swan-Census.pdf

Calladine, J., Garner, G., Wernham, C., & Thiel, A. (2009). The influence of survey frequency on population estimates of moorland breeding birds. Bird Study, 56(3), 381-388. https://doi.org/10.1080/00063650902984604

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., & Anthony, S. J. (2006). The effect of avoidance rates on bird mortality predictions made by wind turbine collision risk models. Ibis, 148. http://macroecointern.dk/pdf-reprints/chamberlain2006.pdf

Clarke, R., Combridge, M., & Combridge, P. (1997). A comparison of the feeding ecology of wintering Hen Harriers Circus cyaneus centred on two heathland areas in England. Ibis, 139(1), 4-18. https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1474-919X.1997.tb04498.x

Colhoun, K., Flannelly, F., O'Neill, J., Phelan, E., Servignat, H., O'Donoghue, B., & Kelly, S. (2022). Status and distribution of breeding Eurasian Curlew in Ireland 2021. Irish Wildlife Manuals, (138).https://www.npws.ie/sites/default/files/publications/pdf/IWM138.pdf

Council Directive 92/43/EEC 21 May 1992 on the conservation of natural habitats and of wild fauna and flora. Available at: https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:31992L0043

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

Council Directive 2014/52/EU 16 April 2014 amending Directive 2011/92/EU on the assessment of the effects of certain public and private projects on the environment. Available at: https://eurlex.europa.eu/legal-content/EN/TXT/PDF/?uri=CELEX:32014L0052&rid=1



Craig, G. R., White, G. C., & Enderson, J. H. (2004). Survival, recruitment, and rate of population change of the peregrine falcon population in Colorado. *The Journal of wildlife management*, 68(4), 1032-1038. https://doi.org/10.2193/0022-541X(2004)068[1032:SRAROP]2.0.CO;2

Crowe, O., McElwaine, J. G., Boland, H., & Enlander, I. J. (2015). Whooper Cygnus cygnus and Bewick's C. columbianus bewickii Swans in Ireland: results of the International Swan Census, January 2015. *Irish Birds*, 10(2), 151-158. https://birdwatchireland.ie/app/uploads/2019/11/Crowe-et-al-2015-International-Migratory-Swan-Census-2015.pdf

Crowe, O., Musgrove, A. J., & O'Halloran, J. (2014). Generating population estimates for common and widespread breeding birds in Ireland. *Bird Study*, *61*(1), 82-90. https://doi.org/10.1080/00063657.2013.868401

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/

Delany, S., Scott, D., Helmink, A. T. F., Dodman, T., Flink, S., Stroud, D., & Haanstra, L. (2009). *An atlas of wader populations in Africa and Western Eurasia*. Wetlands International. https://research.wur.nl/en/publications/an-atlas-of-wader-populations-in-africa-and-western-eurasia

Drewitt, A. L., & Langston, R. H. (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., & Steward, M. (2008). *Turbine search methods and carcass removal trials at the Braes of Doune windfarm* (No. 4). Natural Research Information Note. Available at: https://tethys.pnnl.gov/sites/default/files/publications/Duffy-2008.pdf

Edkins, A. (2014). Impacts of wind energy developments on birds and bats: looking into the problem. 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

European Commission (2021) Assessment of plans and projects in relation to Natura 2000 sites - Methodological guidance on Article 6(3) and (4) of the Habitats Directive 92/43/EEC. Part 1 and 2.Planning and Development Acts 2000 (as amended).

European Union (2022) Article 12 web tool. Available at: https://nature-art12.eionet.europa.eu/article12/

European Communities (Noise Emission by Equipment For Use Outdoors) Regulations, 2001, No. 632/2001. Dublin: Stationary Office. Available at:

https://www.irishstatutebook.ie/eli/2001/si/632/made/en/print



Evans, P. R., & Pienkowski, M. W. (1984). Population dynamics of shorebirds. In *Shorebirds: Breeding behavior and populations* (pp. 83-123). Boston, MA: Springer US. https://link.springer.com/chapter/10.1007/978-1-4684-4691-3_3

Fargallo, J. A., Blanco, G., Potti, J. A. I. M. E., & Viñuela, J. (2001). Nestbox provisioning in a rural population of Eurasian Kestrels: breeding performance, nest predation and parasitism. *Bird Study*, 48(2), 236-244. Available at: https://doi.org/10.1080/00063650109461223

Fargallo, J. A., Martinez-Padilla, J., Vinuela, J., Blanco, G., Torre, I., Vergara, P., & De Neve, L. (2009). Kestrel-prey dynamic in a Mediterranean region: the effect of generalist predation and climatic factors. *PLoS One*, 4(2), e4311. Available at:

https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0004311

Fay, R., Michler, S., Laesser, J., & Schaub, M. (2019). Integrated population model reveals that kestrels breeding in nest boxes operate as a source population. *Ecography*, 42(12), 2122-2131. Available at: https://doi.org/10.1111/ecog.04559

Fernley, J., Lowther, S., & Whitfield, P. (2006). A review of goose collisions at operating wind farms and estimation of the goose avoidance rate. *Report, Natural Research Lim., West Coast Energy, Hyder Consulting*: Available at: https://cdn.birdlife.se/wp-content/uploads/2019/01/Goose-Avoidance-Rate.pdf

Forestry Commission Scotland (2006). Forest operations and birds in Scottish forests - the law and good practice. FCS Guidance Note 32, Forestry Commission Scotland, Inverness, Scotland.

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

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., & Lewis, L. (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/

Gillings, S., & Fuller, R. J. (1999). Winter ecology of golden plovers and lapwings: A review and consideration of extensive survey methods. Thetford, UK: British Trust for Ornithology. Available at: https://www.bto.org/sites/default/files/shared_documents/publications/research-reports/1999/rr224.pdf

Goodship, N. M., & Furness, R. W. (2022). NatureScot Research Report 1283-Disturbance Distances Review: An updated literature review of disturbance distances of selected bird species. Available at: https://www.nature.scot/doc/naturescot-research-report-1283-disturbance-distances-review-updated-literature-review-disturbance

Gunnarsson, G., Elmberg, J., Dessborn, L., Jonzén, N., Pöysä, H., & Valkama, J. (2008, December). Survival estimates, mortality patterns, and population growth of Fennoscandian mallards Anas platyrhynchos. In *Annales Zoologici Fennici* (Vol. 45, No. 6, pp. 483-495). Finnish Zoological and Botanical Publishing Board.. https://doi.org/10.5735/086.045.0603

Hafner, H., Kayser, Y., Boy, V., Fasola, M., Julliard, A. C., Pradel, R., & Cézilly, F. (1998). Local survival, natal dispersal, and recruitment in Little Egrets Egretta garzetta. *Journal of Avian Biology*, 216-227. https://doi.org/10.2307/3677103

 $\label{lem:hardey} Hardey, J. (2006). Raptors: a field guide to survey and monitoring. The Stationery Office. \\ $https://books.google.ie/books?hl=en&lr=&id=_8M[M]xiLuMC&oi=fnd&pg=PR8&dq=%E2%80%A2%09Hardey,+].,+Crick,+H.,+Wernham,+C.,+Riley,+H.,+Etheridge,+B.+and+Thompson,+D.+(2013).+Raptors:+a+field+guide+to+survey+and+monitoring.+The+Stationery+Office,+Edinburgh.&ots=XVaThRSmVS&sig=QqmW2AjpWd5Mz2vpbe40S9mv8kQ&redir_esc=y#v=onepage&q&f=false$



Hen Harrier Programme Field Guidance for scoring Bog and Heath Ver. 2 June 2021

Hen Harrier Programme Field Guidance for scoring Species Rich Grassland Ver. 2 June 2021

Henning, K., Oheimb, G., Härdtle, W., Fichtner, A. and Tischew, S. 2017. The reproductive potential and importance of key management aspects for successful *Calluna vulgaris* rejuvenation on abandoned continental heaths. – *Ecol. Evol.* 7: 2091–2100

Hötker, H., Thomsen, K. M., & Jeromin, H. (2006). Impacts on biodiversity of exploitation of renewable energy sources: the example of birds and bats: Facts, gaps in knowlegde, demands for further research, and ornithological guidelines for the development of renewable energy exploitation. Books on Demand. Books on Demand. Available at:

 $\underline{https://tethys.pnnl.gov/sites/default/files/publications/Hotker_et_al_Renewable_Energy_on_Biodiversity.p} \\ \underline{df}$

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

Iren Saure, H., Reidar Vetaas, O., Hassel, K. and Vandvik, V. (2024), Restoring heathlands after afforestation on two islands in western Norway. Nordic Journal of Botany, 2024.

Irwin, S., Wilson, M., O'Donoghue, B., O'Mahony, B., Kelly, T. and O'Halloran, J. (2012) Optimum scenarios for Hen Harrier conservation in Ireland. Department of Agriculture, Food and Marine, Kildare Street, Dublin

Johnson, W. P., Schmidt, P. M., & Taylor, D. P. (2014). Foraging flight distances of wintering ducks and geese: a review. *Avian Conservation and Ecology*, 9(2), 2. http://dx.doi.org/10.5751/ACE-00683-090202

Kenward, R. E., Walls, S. S., Hodder, K. H., Pahkala, M., Freeman, S. N., & Simpson, V. R. (2000). The prevalence of non-breeders in raptor populations: evidence from rings, radio-tags and transect surveys. *Oikos*, *91*(2), 271-279. https://doi.org/10.1034/j.1600-0706.2000.910207.x

Ketzenberg, C., Exo, K. M., Reichenbach, M., & Castor, M. (2002). Einfluss von Windkraftanlagen auf brütende Wiesenvögel. *Natur und Landschaft*, 77(4), 144-153.

Korpimäki, E. (1985, January). Prey choice strategies of the kestrel Falco tinnunculus in relation to available small mammals and other Finnish birds of prey. In *Annales Zoologici Fennici* (pp. 91-104). Finnish Academy of Sciences, Societas Scientiarum Fennica, Societas pro Fauna et Flora Fennica and Societas Biologica Fennica Vanamo. Available at: https://www.jstor.org/stable/23734188

Lack, P. (2010). The atlas of wintering birds in Britain and Ireland. A&C Black.. https://books.google.ie/books?hl=en&lr=&id=blWiD_QEYkMC&oi=fnd&pg=PA1&dq=%E2%80%A2%09Lack,+P.C.+(1986).+The+atlas+of+wintering+birds+in+Britain+and+Ireland.+London:+T+%26+AD+Poyser. &ots=tAHl-ASuAG&sig=HwdEy69_KD8G-TP5KdHb3KVMoKI&redir_esc=y#v=onepage&q&f=false

Langston, R., & Pullan, J. D. (2003). Wind farms and birds: an analysis of the effects of wind farms on birds, and guidance on environmental assessment criteria and site selection issues. Council of Europe. Available at: https://tethys.pnnl.gov/sites/default/files/publications/Langston%20and%20Pullan%202003.pdf

Lewis, L. J., Burke, B., Fitzgerald, N., Tierney, T. D., & Kelly, S. (2019). Irish wetland bird survey: waterbird status and distribution 2009 (Vol. 16). 10–2015.

Lewis, L., Coombes, D., Burke, B., O'Halloran, J., Walsh, A., Tierney, T. D., & Cummins, S. (2019). Countryside bird survey: status and trends of common and widespread breeding birds 1998–



2016. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland, Dublin, Ireland. Available at: https://www.npws.ie/sites/default/files/publications/pdf/WM115.pdf

Madders, M. I. K. E. (2000). Habitat selection and foraging success of Hen Harriers Circus cyaneus in V. O2/09/2025 west Scotland. Bird Study, 47(1), 32-40. Available at:

https://www.tandfonline.com/doi/abs/10.1080/00063650009461158

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

Manolis., J. C., Andersen, D. E. and Cuthbert, F. J. (2002). Edge effect on nesting success of ground nesting birds near regenerating clearcuts in a forest dominated landscape. The Auk 119(4): 955-970.

Mazgajski TD and Rejt L (2005) Forest fragment size affects edge effect in nest predation—experiment with artificial nests. Polish Journal of Ecology 53: 233-242

McGuinness, S., Muldoon, C., Tierney, N., Cummins, S., Murray, A., Egan, S., & Crowe, O. (2015). Bird sensitivity mapping for wind energy developments and associated infrastructure in the Republic of Ireland. BirdWatch Ireland, Kilcoole, Wicklow. Available at:

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

Meredith, C., Venosta, M., & Ressom, R. (2002). Codrington Wind Farm avian avoidance behaviour report. Biosis Research Report on project no. 2704.

Morgan, R., & Shorten, M. (1974). Breeding of the Woodcock in Britain. Bird Study, 21(3), 193-199. https://doi.org/10.1080/00063657409476418

Murray, T., Clotworthy, C., & Bleasdale, A. (2013). A Survey of Red Grouse (Lagopus lagopus scoticus) in the Owenduff/Nephin Complex Special Protection Area. Irish Wildlife Manuals, (77). Available at: https://www.npws.ie/sites/default/files/publications/pdf/IWM77.pdf

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

Newton, I (1986). The Sparrowhawk. Calton: Poyser.

NPWS (2021) National Biodiversity Action Plan 2017-2021. National Parks and Wildlife Service, Department of Culture, Heritage and the Gaeltacht, Ireland. Available at: https://www.npws.ie/sites/default/files/publications/pdf/National%20Biodiversity%20Action%20Plan%20Engl ish.pdf

NPWS (2023). Screening for Appropriate Assessment. Adoption of necessary conservation measures within Termoncarragh Lake and Annagh Marsh Special Protection Area in accordance with Regulation 42A EC (Birds and Natural) Habitats Regulations 2011-2021.

NPWS (2024). Hen Harrier Threat Response Plan 2024-2028. Department of Housing, Local Government and Heritage.

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, B. G. (2010) The Ecology and Conservation of Hen Harriers (Circus cyaneus) in Ireland. PhD Thesis submitted to University College Cork



Orta, J., Boesman, P.F.D. and Marks, J.S. (2020). "Eurasian Kestrel (Falco tinnunculus)". In: Billerman, S.M., Keeney, B.K., Rodewald, P.G. and Schulenberg, T.S. (eds). *Birds of the World*. Ithaca, NY, USA: Cornell Lab of Ornithology.

Peach, W. J., Thompson, P. S., & Coulson, J. C. (1994). Annual and long-term variation in the survival rates of British lapwings Vanellus vanellus. *Journal of Animal Ecology*, 60-70. https://doi.org/10.2307/5583

Percival, S. M. (2003). Birds and wind farms in Ireland: a review of potential issues and impact assessment. *Ecology Consulting*, *17*, 2234-2236. 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

Pearce-Higgins, J. W., Stephen, L., Douse, A., & Langston, R. H. (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(2), 386-394. https://doi.org/10.1111/j.1365-2664.2012.02110.x

Pearce-Higgins, J. W., Stephen, L., Langston, R. H., Bainbridge, I. P., & 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

Pywell, R. F., Pakeman, R. J., Allchin, E. A., Bourn, N. A. D., Warman, E. A. and Walker, K. J. 2002. The potential for lowland heath regeneration following plantation removal. – *Biol. Conserv.* **108**: 247–258

Rees, E. C., Bruce, J. H., & White, G. T. (2005). Factors affecting the behavioural responses of whooper swans (Cygnus c. cygnus) to various human activities. *Biological conservation*, 121(3), 369-382. Available at: https://doi.org/10.1016/j.biocon.2004.05.009

Ruddock, M., Mee, A., Lusby, J., Nagle, T., O'Neill, S. & O'Toole, L. (2016). 2015 Hen Harrier post hoc analyses. A report prepared for National Parks & Wildlife Service of the Department of Arts, Heritage & the Gaeltacht

Ruddock, M., & Whitfield, D. P. (2007). A review of disturbance distances in selected bird species. *A report from Natural Research (Projects) Ltd to Scottish Natural Heritage*, 181, 114-125. Available at: <a href="https://www.nature.scot/sites/default/files/2018-05/A%20Review%20of%20Disturbance%20Distances%20in%20Selected%20Bird%20Species%20-05/A%20Review%20of%20Disturbance%20Distances%20in%20Selected%20Bird%20Species%20-05/A%20Review%20of%20Distances%20in%20Selected%20Bird%20Species%20-05/A%20Review%20of%20Distances%20Distances%20in%20Selected%20Bird%20Species%20-05/A%20Review%20of%20Distances%20Distances%20in%20Selected%20Bird%20Species%20-05/A%20Review%20Of%20Distances%20Distan

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

Ruddock, M., Wilson-Parr, R., Lusby, J., Connolly, F., J. Bailey, & O'Toole, L. (2024). The 2022 National Survey of breeding Hen Harrier in Ireland. Report prepared by Irish Raptor Study Group (IRSG), BirdWatch Ireland (BWI), Golden Eagle Trust (GET) for National Parks & Wildlife Service (NPWS). Irish Wildlife Manuals, No. 147. National Parks and Wildlife Service, Department of Housing, Local Government and Heritage, Ireland

Sandercock, B. K. (2003). Estimation of survival rates for wader populations: a review of mark-recapture methods. *Bulletin-Wader Study Group*, 100, 163-

174. https://sora.unm.edu/sites/default/files/journals/iwsgb/v100/p00163-p00174.pdf



Nup5sDqMFTHozk&redir_esc=y#v=onepage&q=%E2%80%A2%09Sharrock%2C%20LT.R.%20(1976),%20The%20Atlas%20of%20Breeding%20Birds%20in%20Britain%20and%20Ireland.%20Londom3A%20T.%20%26%20A.%20D.%20Poyser.&f=false

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-

% 20 Windfarms % 20 and % 20 birds % 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%20Note%20Note

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

SNH (2014) Repowering onshore wind farms: bird survey requirements;

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-

 $\underline{\%20 Recommended \%20 bird \%20 survey \%20 methods \%20 to \%20 inform \%20 impact \%20 assessment \%20 of \%20 ons hore \%20 windfarms.pdf$

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-

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

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-

% 20 Assessing % 20 the % 20 cumulative % 20 impacts % 20 of % 20 on shore % 20 wind % 20 farms % 20 on % 20 birds. pdf when the first of the farms % 20 on % 20 birds and % 20 farms % 20 on % 20 birds. pdf when the farms % 20 on % 20 birds and % 20 farms % 20 on % 20 birds. pdf when the farms % 20 on % 20 birds and % 20 farms % 20 on % 20 birds. pdf when the farms % 20 on % 20 birds and % 20

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

'Assessing the impact of repowered wind farms in nature' Draft Document (SNH, 2018d)

Spence, I. M. (1988). Mortality of snipe estimated from a mark and recapture study. *Ringing & Migration*, 9(1), 27-31. https://doi.org/10.1080/03078698.1988.9673918

Tapia, L., Dominguez, J., & Rodriguez, L. (2008). Hunting habitat preferences of raptors in a mountainous area (Northwestern Spain). *Polish Journal of Ecology*, *56*(2), 323-333. Available at: https://www.researchgate.net/profile/Luis-Tapia-

 $\frac{6/\text{publication/236684462}}{\text{Funting habitat preferences of raptors in a mountainous area Northwestern Spain/links/02e7e5190c594140b0000000/Hunting-habitat-preferences-of-raptors-in-a-mountainous-area-Northwestern-Spain.pdf}$

Thaxter, C. B., Lascelles, B., Sugar, K., Cook, A. S., Roos, S., Bolton, M., ... & Burton, N. H. (2012). Seabird foraging ranges as a preliminary tool for identifying candidate Marine Protected Areas. *Biological Conservation*, *156*, 53-61. https://doi.org/10.1016/j.biocon.2011.12.009



Valkama, J. A. R. I., & Korpimäki, E. R. K. K. I. (1999). Nestbox characteristics, habitat quality and reproductive success of Eurasian Kestrels. *Bird Study*, *46*(1), 81-88. Available at: https://doi.org/10.1080/00063659909461117

Walker, K. J., Warman, E. A., Bhogal, A., Cross, R. B., Pywell, R. F., Meek, B. R., Chamber, B. J. and Pakeman, R. 2007. Recreation of lowland heathland on ex-arable land: assessing the limiting processes on two sites with contrasting soil fertility and pH. – *J. Appl. Ecol.* 44: 573–582.

Wanless, S., Harris, M.P., Calladine, J. and Rothery, P., 1996. Modelling responses of herring gull and lesser black backed gull populations to reduction of reproductive output: Implications for control measures. *Journal of Applied Ecology*, pp.1420-1432. https://doi.org/10.2307/2404781

Village, A. (2010). The kestrel. Bloomsbury Publishing.

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., Gittings, T., O'Halloran, J., Kelly, T., & Pithon, J. (2006). The distribution of Hen Harriers in Ireland in relation to land use cover, particularly forest cover. *COFORD Connects Note, Dublin*.

Wilson, M., Irwin, S., O'Donoghue, B., Kelly, T., & O'Halloran, J. (2010). The use of forested landscapes by Hen Harriers in Ireland. *COFORD: Dublin, Ireland.* Available at: http://coford.ie/media/coford/content/publications/projectreports/cofordconnects/env10.pdf

Wilson, M. W., Fernández-Bellon, D., Irwin, S., & O'Halloran, J. (2017). 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

Winkelman, J.E. (1992a) The impact of the Sep wind park near Oosterbierum (Fr.), the Netherlands, on birds. RIN-rapport 92/2. DLO-Instituut voor Bos-en Natuuronderzoek, Arnhem, The Netherlands

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/Geological Survey of Ireland (2024). Assessment of the main contributing factors leading to three major peatland failures in Leitrim, Kerry and Donegal. Geological Survey Ireland Publication (Department of the Environment, Climate and Communications and National Parks and Wildlife Service (Department of Housing, Local Government and Heritage).

Gavin and Doherty Geosolutions (2025). Taurbeg WF Lifetime Extension Proposed Offsetting Measures – Peat Stability Risk Assessment (PSRA).

Geological Survey of Ireland (GSI). (1999) Geology of the Shannon Estuary, 1:100,000 scale Bedrock Geology Series, Sheet 19.



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.

National Parks and Wildlife (2015): Stack's to Mullaghareirk Mountains, West Limerick Hills and Mount Eagle SPA – Site Synopsis.

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

Whiteford Geoservices Ltd, June 2004. Ground Investigation for Proposed wind Farm Site at Taurbeg, Rockchapel, Co. Cork. Report No: 386/04.

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

EPA (2024): 3rd Cycle Tralee Bay -Feale Catchment Report (HA 23).

EPA (2024): 3rd Cycle Blackwater (Munster) Catchment Report (HA 18).

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

GSI (2004): Rathmore West 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 CENED: 02/ 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 Environment, Climate and Communications (2025). Climate Action Plan 2025

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

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

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

Environmental Protection Agency (2024) Air Quality in Ireland Report 2023

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.

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.

Government of Ireland (2023) Clean Air Strategy for Ireland

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 (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. 274 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.

IAQM (2024) Guidance on the Assessment of Dust from Demolition and Construction

Met Éireann www.met.ie

Rialtas na Eireann (2023) Clean Air Strategy for Ireland https://www.gov.ie/en/publication/927e0-clean-air-strategy/ $\#:\sim:text=The\%20Clean\%20Air\%20Strategy\%20provides,delivering\%20on\%20wider\%20national\%20 objectives.$

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

Climate Change Advisory Council Annual Review 2024 – Electricity Sectoral Review Anttps://www.climatecouncil.ie/councilpublications/annualreviewandreport/AR2024-Electricity-final.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

Cork County Development Plan 2022-2028

Cork County Council Local Authority Climate Action Plan 2024-2029

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 (2025). Climate Action Plan 2024.

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 E 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-E-v1.0.pdf

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

Environmental Protection Agency (2023) Ireland's National Inventory Report 2024 - Greenhouse Gas Emissions 1990-2022



P. CEINED: OROO ROSS Environmental Protection Agency (June 2022) Ireland's Greenhouse Gas Emissions Projections 2024-2055. EPA, Ireland.

European Commission (2024) COP29 Climate Change Conference. Available at https://cop29.az/en/home

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 Hansen, J.; Sato, M.; Kharecha, P. et al. Earth's Energy Imbalance and Implications. Atmospheric Chemistry and Physics 2011, 11 (24), 13421–13449. https://doi.org/10.5194/acp-11-13421-2011.

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.

https://www.epa.ie/publications/research/climate-change/Research_Report_339_Part1.pdf

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. https://www.tiipublications.ie/library/PE-ENV-01107-01.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 (2019) Global Sustainable Development Report 2019. Available at https://sdgs.un.org/sites/default/files/2020-07/24797GSDR_report_2019.pdf

United Nations (2023) The Sustainable Development Goals Report 2023: Special Edition https://unstats.un.org/sdgs/report/2023/The-Sustainable-Development-Goals-Report-2023.pdf

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.

von Schuckmann, K.; Palmer, M. D.; Trenberth, K. E. et al. An Imperative to Monitor Earth's Energy Imbalance. Nature Clim Change 2016, 6 (2), 138–144. https://doi.org/10.1038/nclimate2876.

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.

World Meteorological Organisation (2025) State of the Global Climate 2024



Noise and Vibration

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

BS 5228-1:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites – Noise. (BS5228-1)

Transport Infrastructure Ireland (TII) (formerly National Roads Authority (NRA)) document Guidelines for the Treatment of Noise and Vibration in National Road Schemes (NRA, 2004)

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

BS 7385 Evaluation and measurement for vibration in buildings – Part 2: Guide to damage levels from groundborne vibration (1993) (BS77385)

BS 5228-2:2009+A1:2014 Code of practice for noise and vibration control on construction and open sites – Part 2: Vibration. (BS5528-2)

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

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

Institute of Acoustics (IOA) document A Good Practice Guide to the Application of ETSU-R-97 for the Assessment and Rating of Wind Turbine Noise (2013) including six Supplementary Guidance Notes (IOA GPG)

World Health Organisation (WHO) Environmental Noise Guidelines for the European Region (2018)

ISO 9613: Acoustics - Attenuation of sound outdoors, Part 2: General method of calculation (2024)

EPA Guidance Note for Noise: Licence Applications, Surveys and Assessments in Relation to Scheduled Activities (NG4), 2016 (NG4)

Draft Revised Wind Energy Development Guidelines 2019 Department of Housing, Local Government and Heritage (2019 Draft)

World Health Organisation (WHO) document Community Noise (WHO, 1995)

South Australian Environment Protection Authority namely, Infrasound levels near windfarms and in other environments (EPA, 2013)

State Office for the Environment, Measurement and Nature Conservation of the Federal State of Baden-Württemberg Low Frequency Noise Incl. Infrasound from Wind Turbines and Other Sources (2016)

IOA Noise Working Group (Wind Turbine Noise) Amplitude Modulation Working Group (AMWG) document A Method for Rating Amplitude Modulation in Wind Turbine Noise (IOA, 2016)

RenewableUK AM project (RenewableUK 2013)

Department of Environment Food and Rural Affairs (DEFRA), the Department of Business, Enterprise and

Regulatory Reform (BERR) and the Department of Communities and Local Government (CLG) Research into Aerodynamic Modulation of Wind Turbine Noise (2007)



Wind turbine AM review: Phase 2 report. 3514482A Issue 3. Department for Business, Energy & Industrial Strategy (2016)

ISO 1996: 2017: Acoustics – Description, measurement, and assessment of environmental noise,

Acoustic Emissions, SWT-2.3-82 VS Document ID: E R WP-EN431-10-0000-0160-00 PE / 2009.03.3 (Siemens Wind Power A/S)

Acoustic Emissions, SWT-2.3-82 VS Document ID: E R WP-EN431-10-0000-0162-00 PE / 2009.03.31 (Siemens Wind Power A/S)

Measurement of Noise Emission from an AN BONUS 2.3MW/82, BONUS 2.3 MW Wind Turbine situated at Blåhøj, Denmark, 2002.12.10 (DELTA (Danish Electronics, Light & Acoustics))

Landscape and Visual

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

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

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

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

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

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

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

Archaeological and Cultural Heritage

Bennett, I. (ed.) 19872010. Excavations: Summary Accounts of Archaeological Excavations in Ireland. Bray. Wordwell.

Carroll, M. 2009. Archaeological Monitoring of Site Investigations at Knockcummer Windfarm, Rockchapel, Co. Cork. Unpublished report prepared by Tobar Archaeological Services.

Chartered Institute for Archaeologists 2020a. Standards & Guidance for Field Evaluation.

Chartered Institute for Archaeologists 2020b. Standards & Guidance for Archaeological Excavation.

Chartered Institute for Archaeologists 2020c. Standards & Guidance for an Archaeological Watching Brief (Monitoring).

Cork County Development Plan, 2022-2028

Department of Arts, Heritage, Gaeltacht and the Islands. 1999a. Framework and Principles for the Protection of the Archaeological Heritage. Dublin. Government Publications Office.



Department of Arts, Heritage, Gaeltacht and the Islands. 1999b. Policy and Guidelines on Archaeological Excavation. Dublin. Government Publications Office.

Environmental Protection Agency. 2017. Draft Advice Notes on Current Practice (in the preparation of Environmental Impact Statements). Dublin. Government Publications Office.

Environmental Protection Agency. 2022. Guidelines on the Information to be Contained in Environmental Impact Statements. Dublin. Government Publications Office.

Kerry County Development Plan, 2022-2028

MacCotter, P. 2008. Medieval Ireland: Territorial, Political and Economic Divisions. Dublin. Four Courts Press.

McErlean, T. 1983. "The Irish townland system of landscape organisation". In Reeves-Smyth, Terence; Hamond, Fred (eds) Landscape Archaeology in Ireland BAR British Series 116.

National Monuments Service, Department of Housing, Local Government and Heritage. Sites and Monuments Record, Counties Cork and Kerry.

National Museum of Ireland. Topographical Files, Counties Cork and Kerry.

CARTOGRAPHIC SOURCES

Ordnance Survey maps of County Cork, 1844, 1903. Ordnance Survey maps of County Kerry, 1844, 1894.

ELECTRONIC SOURCES

www.excavations.ie - Summary of archaeological excavation from 1970-2025.

www.archaeology.ie - DoHLGH website listing all SMR/RMP sites.

www.heritagemaps.ie – The Heritage Council web-based spatial data viewer which focuses on the built, cultural and natural heritage.

www.geohive.ie- Ordnance Survey Ireland National Townland and Historical Map Viewer (including Aerial imagery 1995, 2000, 2005 and 2013)

www.googleearth.com - Satellite imagery (2012-2023).

www.booksulster.com/library/plnm/placenamesC.php - Contains the text from Irish Local Names Explained by P.W Joyce (1870).

www.logainm.ie – Placenames Database of Ireland, developed by Fiontar (DCU) and The Placenames Branch (DoTCAGSM).

Material Assets

Air Corps (August 2014) Draft Wind Farm/Tall Structures Position Paper.

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 for Planning Authorities. DoEHLG, Dublin.



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

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

Environmental Protection Agency. Corine Land Cover Maps.

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

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

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.

National Roads Authority (2004) Guidelines for the Treatment of Noise and Vibration in National Road Schemes

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

TII (April 2017) DN-GEO-03060, Geometric Design of junctions. Transport Infrastructure Ireland.

TII (April 2017) DN-GEO-03031, Rural Road Link Design. Transport Infrastructure Ireland.

TII (2013) The Design Manual for Roads and Bridges ('DMRB'), Transport Infrastructure Ireland.

TII (May 2014) Traffic and Transport Assessment Guidelines PE-PDV-02045. Transport Infrastructure Ireland.

TII Automatic Traffic Count Data (on the M6)

Major Accidents and Natural Disasters

ArcGIS SEVESO Map Viewer

Central Statistics Office Ireland. Census of Ireland 2016 & 2022

Cork County Council - Major Emergency Plan 2021

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

EU Council Directive 2012/18/EU of 4th July 2012 on the Control of Major Accident Hazards Involving Dangerous Substances (COMAH Directive/ Seveso III Directive).

European Communities Chemicals Act (Control of Major Accident Hazards Involving Dangerous Substances) Regulations 2015 (S.I. No. 209 of 2015) (the "COMAH Regulations")

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/

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

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).

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

Regional Spatial and Economic Strategy for the Southern Region (RSES) 2020

South-West Regional Planning Guidelines 2010-2022;