



GALETECH
ENERGY SERVICES

Islandmore Wind Farm

Environmental Impact Assessment
Report

Annex 1.8: Schedule of Likely
Significant Effects

Islandmore Wind Farm Limited

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1.0 INTRODUCTION

Galetech Energy Services (GES) has prepared this collated and consolidated Schedule of Likely Significant in respect of the Islandmore Wind Farm ('the project').

The project is located in north County Roscommon; c. 2km north of Ballaghaderreen, c. 13km east of Charlestown (Co. Mayo) and c. 6km southwest of Gorteen (Co. Sligo); and is located in close proximity to the county boundaries between counties Roscommon, Sligo and Mayo. In summary, the project comprises the following main components:-

- 10 no. wind turbines with an overall height of 185m (3 no. turbines) and 150m (7 no. turbines) and all associated ancillary infrastructure;
- All associated and ancillary site development, excavation, construction, landscaping and reinstatement works, including provision of site drainage infrastructure and forestry felling;
- Works to the public road network along the turbine component haul route; and,
- 110kV electricity substation and installation of c. 7km of underground electricity line to facilitate connection of the wind farm to the existing Tonroe 110kV electricity substation at Ballaghaderreen, County Roscommon.

1.1 PURPOSE OF THIS REPORT

This report has been prepared to provide a concise document of all likely significant effects, mitigation measures, compensation measures and overall residual effects.

1.2 SCHEDULE OF LIKELY SIGNIFICANT EFFECTS

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
Population & Human Health			
Employment & Local Investment (Wider Study Area)	No likely significant effect. Construction phase effects assessed to be indirect, positive, short-term and slight. Operation phase effects assessed to be indirect, positive, long-term and slight.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Tourism Economy (Wider Study Area)	No likely significant effect. Construction phase effects assessed to be indirect, positive, negative, short-term and imperceptible. Operation phase effects assessed to be indirect, negative, long-term and imperceptible.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Population Sustainability & Residential Amenity (Local Study Area)	No likely significant effect. Construction phase effects assessed to be indirect, negative, short-term and slight-to-moderate.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Land Use (Local Study Area)	No likely significant effect. Effects assessed to be direct, negative, short-term and slight.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Tourism & Recreation Assets (Local Study Area)	No likely significant effect. Effects assessed to be indirect, negative, short-term and imperceptible.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Major Accidents & Disasters (Local Study Area)	No likely significant effect. Effects assessed to be indirect, negative, short-term and imperceptible.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure	No likely significant residual effect (i.e. as per the pre-mitigation scenario).

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
		that significant effects shall not arise.	
Community Benefit Funds & Community Investment (Local Study Area)	No likely significant effect. Operation phase effect assessed to be indirect, positive, long-term and moderate.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Property Values (Local Study Area)	No likely significant effect. Operation phase effect assessed to be indirect, negative, long-term and imperceptible.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Human Health	No likely significant effect. Operation phase effect assessed to be indirect, negative, long-term and imperceptible.	No specific mitigation measures required. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Biodiversity			
European Sites	Potential Significant Effect during construction arising from habitat disturbance, sediment release and pollution pathways to qualifying interests. Potential Significant Effect during operation through hydrological changes and disturbance pathways. Potential Significant Effect during decommissioning through disturbance and sediment release.	CEMP, pollution prevention, drainage controls, buffer zones and ECoW supervision. Sensitive design, habitat restoration through Habitat Management Plan (HMP) and monitoring. Decommissioning EMP, pollution prevention and habitat reinstatement.	No significant effects.
Annex I Peatland Habitats and Habitats of Conservation Importance	Major Adverse during construction due to habitat loss, fragmentation and degradation. Moderate Adverse during operation due to long-term habitat modification.	Micrositing, reduced land-take, peat management and habitat restoration. Habitat Management Plan (HMP) including peatland restoration. Habitat reinstatement and	Minor Adverse to Negligible Adverse immediate effect during construction. No likely significant residual effect. Minor Beneficial potential for significant positive impact during

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
	Moderate Adverse due to temporary disturbance.	restoration.	operations if all HMP measures are successfully implemented). No likely significant residual effect. Negligible Adverse to Minor Beneficial during decommissioning. No likely significant residual effect.
Protected species including mammals (e.g. otter, badger, red squirrel and pine marten) and herpetofauna	Moderate Adverse during construction due to disturbance and injury risk. Minor Adverse during operations due to ongoing disturbance. Moderate Adverse during decommissioning due to temporary disturbance.	Pre-construction surveys, Ecological Clerk of Works (ECoW), exclusion zones and protection plans (Method Statements where required). Retention of habitat corridors and habitat management. Updated surveys and protection measures.	Negligible Adverse. No likely significant residual effect.
Bats	Moderate Adverse during construction due to loss of commuting and foraging habitat. Moderate Adverse during operations due to collision risk and habitat alteration. Minor Adverse during decommissioning due to temporary disturbance.	Habitat retention, sensitive lighting and ecological supervision. Embedded mitigation and monitoring. Sensitive working practices and reinstatement.	Minor Adverse to Negligible Adverse during construction. No likely significant residual effect. Minor Adverse during operations. No likely significant residual effect. Negligible Adverse during decommissioning. No likely significant residual effect.
Birds	Minor Adverse during construction due to disturbance and habitat loss. Minor Adverse during operations due to collision risk and displacement. Minor Adverse during decommissioning due to temporary disturbance.	Timing restrictions, pre-construction survey and exclusion buffers. Habitat Management Plan (HMP) including peatland restoration and following embedded mitigation principles for any large-scale works. Timing restrictions, pre-works survey and exclusion buffers.	No likely significant residual effect.
Freshwater Ecology (Aquatic Habitats, Fisheries and Watercourses)	Major to Moderate Adverse during construction due to the potential for sedimentation, pollution incidents, hydrological alteration, habitat	Application of the CEMP; implementation of the Surface Water Management Plan (SWMP); adherence to pollution prevention	Negligible Adverse to Minor Adverse during construction. No likely significant residual effect. Negligible Adverse during operations

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
	degradation and impacts on fish and aquatic macroinvertebrate communities. Minor to Moderate Adverse during operations due to changes in runoff characteristics, ongoing drainage management and potential indirect effects on aquatic habitats. Moderate Adverse during decommissioning due to temporary disturbance, sediment mobilisation and pollution risk associated with infrastructure removal.	measures; watercourse buffers; settlement ponds and drainage controls; supervised watercourse crossings; progressive reinstatement of disturbed ground; ecological and water quality monitoring where required. Long-term drainage management; maintenance of water treatment infrastructure; habitat restoration measures; monitoring and adaptive management where required. Decommissioning Environmental Management Plan; pollution prevention measures; drainage controls; ecological supervision; reinstatement of disturbed areas and restoration of natural drainage patterns.	and decommissioning. No likely significant residual effect.
Land & Soil			
Soil, Subsoil and Bedrock Excavation	No significant effect likely. Construction phase effect assessed to be negative, direct, permanent, and slight-to-moderate.	No specific mitigation measures proposed. The implementation of a Habitat Management Plan will assist in offsetting the loss of peat.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Erosion of Exposed Peat, Soil & Subsoil	No significant effect likely. Construction phase effect assessed to be negative, direct, permanent and slight.	Embedded design measures and the appropriate management of excavated and exposed material.	No likely significant residual effect. Residual effect assessed to be negative, direct, permanent and imperceptible.
Contamination of Peat, Soils and Subsoils	No significant effect likely. Construction phase effect assessed to be negative, direct, short-term and slight. Operation phase assessed to be negative, direct, long-term and	Embedded design measures and the appropriate management of hydrocarbons and other chemicals.	No likely significant residual effect. Residual effect assessed to be negative, direct, long-term, short-term, and imperceptible.

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
	slight.		
Land & Land Use	No significant effect likely. Construction phase effect assessed to be negative, direct, permanent, and slight-to-moderate	No specific mitigation measures proposed. The implementation of a Habitat Management Plan will support the appropriate management of the project site.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Peat Instability & Failure	No significant effect likely. Construction phase effect assessed to be negative, direct, permanent and slight-to-moderate.	Embedded design measures and the appropriate management of excavations, excavated material and construction activities.	No likely significant residual effect. Residual effect assessed to be negative, direct, permanent and slight.
Health Effects	No significant effect likely. Construction phase effect assessed to be negative, direct, short-term and imperceptible.	No specific mitigation measures proposed. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Major Accidents & Disasters	No significant effect likely. Construction phase effects assessed to be negative, direct, short-term and imperceptible.	No specific mitigation measures proposed. Embedded design and mitigation measures shall apply and will ensure that significant effects shall not arise.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Water			
Tree Clear Felling	No significant effect likely. Construction phase effects assessed to be negative, indirect, short-term and moderate.	Embedded drainage design measures and best practice surface water control methods.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and imperceptible.
Earthworks	Construction phase effects assessed to be negative, indirect, short-term and moderate-significant.	Embedded drainage design measures and best practice surface water control methods.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and imperceptible.
Groundwater Drawdown	No significant effect likely. Construction phase effects assessed to be negative, direct, short-term and slight.	No specific mitigation measures proposed.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
Excavation Dewatering	Construction phase effects assessed to be negative, indirect, short-term and moderate-significant.	Embedded drainage design measures and best practice surface water control methods.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and imperceptible.
Release of Hydrocarbons	No significant effect likely. Construction phase (groundwater) effects assessed to be negative, indirect, short-term and imperceptible. Construction phase (surface water) effects assessed to be negative, indirect, short-term and moderate. Operation phase effects assessed to be negative, direct, long-term and imperceptible.	Embedded drainage design measures regarding management of hydrocarbons and chemicals.	No likely significant residual effect. Residual construction effect assessed to be negative, indirect, short-term and imperceptible. Residual effect assessed to be negative, indirect, long-term and imperceptible.
Contamination due to Wastewater Disposal	Construction phase (groundwater) effects assessed to be negative, indirect, short-term and slight. Construction phase (surface water) effects assessed to be negative, indirect, short-term and significant.	Embedded drainage design measures regarding maintenance of welfare facilities.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and imperceptible.
Release of Cement-Based Products	Construction phase (surface water) effects assessed to be negative, indirect, short-term and significant.	Embedded drainage design measures and best practice surface water control methods.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and imperceptible.
Morphological Changes	No significant effect likely. Construction phase effects assessed to be negative, direct, short-term and imperceptible.	Embedded design measures regarding watercourse crossings and adherence to appropriate buffer zones.	No likely significant residual effect. Residual effect assessed to be negative, direct, short-term and imperceptible.
Effects on Designated Sites	No significant effect likely. Construction phase effects assessed to be negative, indirect, short-term and imperceptible.	Embedded drainage design measures and best practice surface water control methods.	No likely significant residual effect.
Effects on WFD Status	No significant effect likely.	Embedded drainage design	No likely significant residual effect.

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
	Construction phase effects assessed to be negative, indirect, short-term and moderate.	measures, best practice surface water control methods, management of hydrocarbons and chemicals, maintenance of welfare facilities, design measures regarding watercourse crossings, and adherence to appropriate buffer zones.	
Effects on Private Drinking Water Supplies	No significant effect likely.	Embedded drainage design measures, best practice surface water control methods, management of hydrocarbons and chemicals, and maintenance of welfare facilities.	No likely significant residual effect.
Increased Runoff Rates due to Infrastructure Placement	No significant effect likely. Operation phase effects assessed to be negative, direct, long-term and imperceptible.	Embedded drainage design measures.	No likely significant residual effect. Residual effect assessed to be neutral, direct and long-term.
Air Quality			
Construction Dust	Construction phase effects assessed to be negative, direct, short-term and moderate. Effect assessed to be potentially significant.	Measures related to appropriate communications, site management, site maintenance, traffic/machinery management, waste management, and earthworks management will ensure that significant effects shall not arise.	No likely significant residual effect. Residual effect assessed to be negative, direct, long-term and not significant.
Vehicular Emissions	No significant effect likely. Operation phase effect assessed to be negative, direct, short-term and imperceptible.	No specific mitigation measures proposed.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Renewable Electricity Production	No significant effect likely. Operation phase effect assessed to be positive, indirect, long-term and slight.	No specific mitigation measures proposed.	No likely significant residual effect. Residual effect assessed to be positive, indirect, long-term and slight.

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
Climate			
Greenhouse Gas Emissions	Effect assessed to be positive, indirect, long-term and significant.	Embedded mitigation measures regarding procuring low carbon materials and re-use of materials. Embedded design measures regarding preparation of risk assessments and appropriate use of plant/machinery.	No likely significant residual effect. Residual construction phase effect assessed to be negative, direct, long-term and not significant. Residual operation phase effect assessed to be positive, direct, long-term and not significant.
Climate Change Risk	Effect assessed to be negative, direct, long-term, moderate and significant.	Embedded mitigation measures regarding procuring low carbon materials and re-use of materials. Embedded design measures regarding preparation of risk assessments, management of activities during extreme weather conditions and appropriate use of plant/machinery.	No likely significant residual effect. Residual effect assessed to be negative, direct, long-term and not significant.
Landscape			
Landscape Effects	No significant effect likely. Construction phase effect assessed to be negative, direct, short-term and moderate. Operation phase effect assessed to be negative, direct, long-term and moderate-slight to slight.	Embedded design measures and best practice methodologies regarding construction, spoil management and site reinstatement.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Visual Effects	No significant effect likely. Construction phase effect assessed to be negative, indirect, short-term and slight. Operation phase effect assessed to be negative, indirect, long-term and substantial-moderate to slight.	Embedded design measures and best practice methodologies regarding construction, spoil management and site reinstatement.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Cultural Heritage			
Local Archaeological & Heritage	No significant effect likely.	Embedded design measures and	

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
Features	Construction phase effect assessed to be negative (adverse), direct, short-term and slight. At locations of increased sensitivity, an increased significance may arise. Decommissioning phase effect assessed to be negative, indirect, short-term and imperceptible to not significant.	archaeological testing and monitoring commitments.	
Recorded Monuments	No significant effect likely. Operation phase effect assessed to be negative, indirect, long-term and not-significant to slight. Decommissioning phase effect assessed to be positive (beneficial), indirect, long-term and imperceptible to slight.	Embedded design measures and archaeological testing and monitoring commitments.	Residual effect assessed to be negative, direct, long-term and slight.
Rathcroaghan Archaeological Complex	No significant effect likely. Operation phase effect assessed to be negative, indirect, long-term and slight. Decommissioning phase effect assessed to be positive (beneficial), indirect, long-term and slight.	Embedded design measures (separation distance and avoidance).	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Carrowkeel Passage Tomb Landscape	No significant effect likely. Operation phase effect assessed to be negative, indirect, long-term and slight. Decommissioning phase effect assessed to be positive (beneficial), indirect, long-term and slight.	Embedded design measures (separation distance and avoidance).	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
National Monuments	No significant effect likely. Operation phase effect assessed to be negative, indirect, long-term and not-significant to slight.	Embedded design measures (separation distance and avoidance).	No likely significant residual effect (i.e. as per the pre-mitigation scenario).

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
	Decommissioning phase effect assessed to be positive (beneficial), indirect, long-term and not-significant to slight.		
Architectural & Built Heritage Setting	No significant effect likely. Operation phase effect assessed to be negative, indirect, long-term and slight. Decommissioning phase effect assessed to be positive (beneficial), indirect, long-term and imperceptible to slight.	Embedded design measures and archaeological testing and monitoring commitments.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Noise & Vibration			
Construction & Decommissioning Noise	No significant effect likely. Effect assessed to be negative, indirect, short-term and slight.	Embedded best practice measures and measures regarding control of noise and vibration.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Wind Turbine Noise	No significant effect likely. Effect assessed to be negative, indirect, long-term and slight.	Embedded design/mitigation through noise reduced operations, and noise monitoring proposals.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Electricity Substation Noise	No significant effect likely. Effect assessed to be negative, indirect, long-term and imperceptible.	No specific mitigation measures proposed.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Shadow Flicker			
Shadow Flicker Effects	No significant effect likely. Operation phase effect assessed to be negative, indirect, long-term-term and slight.	Embedded design measures regarding the switching off of turbines during periods when shadow flicker could occur.	No likely significant residual effect.
Material Assets (Traffic & Transport)			
Effect due to Site Entrance Construction	No significant effect likely. Effect assessed to be negative, indirect, short-term and slight.	Embedded design measures and standard traffic control and reinstatement measures.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and slight.

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
Effect due Installation of Electrical Infrastructure	No significant effect likely. Effect assessed to be negative, direct, indirect, short-term and moderate-slight; and positive, direct, indirect, long-term and slight.	Embedded design measures and standard traffic control and reinstatement measures.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and slight.
Effect due to Delivery of Turbine Components	No significant effect likely. Effect assessed to be negative, direct, indirect, short-term and moderate; and positive, direct, long-term and slight.	Embedded design measures and standard traffic control measures.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and slight.
Effect due to HGV Movements	No significant effect likely. Effect assessed to be negative, indirect, short-term and moderate.	Embedded design measures and standard traffic control measures.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and slight.
Effect due to Electricity Substation & Grid Connection	No significant effect likely. Effect assessed to be negative, indirect, short-term and slight.	Embedded design measures and standard traffic control and reinstatement measures.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and slight.
Effect due to Movement of Construction Personnel	No significant effect likely. Effect assessed to be negative, indirect, short-term and slight-imperceptible.	Embedded design measures and standard traffic control measures.	No likely significant residual effect. Residual effect assessed to be negative, indirect, short-term and imperceptible.
Operation Phase Traffic	No significant effect likely. Effect assessed to be positive, negative, direct, indirect, long-term and imperceptible.	No specific mitigation measures.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Decommissioning Phase Traffic	No significant effect likely. Effect assessed to be negative, indirect, short-term and slight.	Embedded design measures and standard traffic control and reinstatement measures.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Material Assets (Aviation)			
Effects on Aviation during Construction & Decommissioning	No significant effect likely. Effect assessed to be negative, indirect, short-term and	Embedded design measures through installation of warning lighting on cranes and advance notification of	No likely significant residual effect (i.e. as per the pre-mitigation scenario).

Factor/Topic	Likely Significant Effect (Pre-Mitigation)	Proposed Mitigation	Likely Significant Residual Effect (Post Mitigation)
	imperceptible.	Irish Aviation Authority.	
Effects on Aviation during Operation	No significant effect likely. Effect assessed to be negative, indirect, long-term and imperceptible.	Embedded design measures through installation of warning lighting on turbines and notification of Irish Aviation Authority.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).
Material Assets (Telecommunications)			
Effects on Telecommunications during Operation	No significant effect likely. Effect assessed to be negative, indirect, long-term and slight.	Embedded design measures regarding turbine design/siting, and appropriate complaint management and remedial actions.	No significant effect likely. Effect assessed to be negative, indirect, long-term and imperceptible.
Material Assets (Resources & Utility Infrastructure)			
Collision/Interaction with Utility Infrastructure	No significant effect likely. Effect assessed to be negative, direct, short-term and slight.	Embedded best practice construction methodologies.	No significant effect likely. Effect assessed to be negative, indirect, short-term and imperceptible.
Use of Non-renewable Construction Materials	No significant effect likely. Effect assessed to be negative, direct, long-term and imperceptible.	Embedded best practice construction methodologies regarding use of materials from licensed sources.	No likely significant residual effect (i.e. as per the pre-mitigation scenario).



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