The Great Grid Upgrade

Sea Link

Preliminary Environmental Information Report

Volume: 2

Part 2 Suffolk Onshore Scheme

Appendix 2.13.A Suffolk Onshore Intra-Project Cumulative Effects Screening Tables

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2.13.A.1 Suffolk Screening Tables

Table 2.13.A.1 Landscape element receptors – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Landscape elements					
As effects have only been identified on this receptor from one topic **Volume 1, Part 2, Chapter 2: Landscape and Visual**, there is no potential for an intra-project effect.					

Table 2.13.A.2 Residential receptors – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Residential Receptors					
Nearby residential properties	Chapter 2: Landscape and Visual	**Construction:** Temporary alteration to visual amenity from the introduction of construction activity including compounds, temporary accommodation and access tracks, construction plant and vehicle movements, topsoil stripping and earthworks, storage of materials and lighting. **Operation:** Permanent alteration to visual amenity as a result of the operational converter station, substation and cable corridors. Permanent alteration to visual amenity for directional lighting associated with the converter station and substation.	**Significant**	As more than one type of effect is identified for construction and operation, there is a potential for an intra-project effect during these phases.	**Yes**
Over 100 human receptors with high sensitivity within 350 m of the draft Order Limits	Chapter 9: Air Quality	**Construction**: dust arising from trackout, earthworks and construction activities which may impact upon human health, soils and ecological receptors.	**Not Significant**		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Noise sensitive receptors within the construction noise study area (Residential) (**Figure 2.10.1 Suffolk Noise and Vibration Baseline Information**).	Chapter 10: Noise and Vibration	**Construction:** Potential noise and vibration impacts from construction activities. **Operation:** Potential impact of operational noise from the proposed Saxmundham Converter Station.	**Not Significant**		

Table 2.13.A.3 Transport receptors – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Transport Receptors					
Roads	Chapter 2: Landscape and Visual	**Construction:** Temporary alteration to visual amenity from the introduction of construction activity including compounds, temporary accommodation and access tracks, construction plant and vehicle movements, topsoil stripping and earthworks, storage of materials and lighting. **Operation:** Permanent alteration to visual amenity as a result of the operational converter station, substation and cable corridors. Permanent alteration to visual amenity for directional lighting associated with the converter station and substation.	**Significant**	As more than one type of effect is identified for construction and decommissioning, there is a potential for an intra-project effect during these phases.	**Yes**
	Chapter 8 Traffic and Transport	**Construction and Decommissioning:** Fear and intimidation, hazardous large loads, and diversions / closures.	**Not Significant**		
		Construction and Decommissioning: Severance, Pedestrian Delay, Non-Motorised User Amenity, Driver Delay and Road Safety	**Significant**		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
	Chapter 10: Noise and Vibration	**Construction:** Potential vibration impact from construction traffic on the public highway, access tracks on haul roads.	**Not Significant**		

Table 2.13.A.4 Designated and non-designated sites receptors – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Sites					
Sandlings Special Protection Area (SPA). Leiston-Aldeburgh Site of Special Scientific Interest (SSSI). Great Wood County Wildlife Site (CWS). Grove Wood CWS. Disused Railway Line (Aldringham – Aldeburgh) CWS. Royal Society for the Protection of Birds (RSPB) North Warren Reserve.	Chapter 3: Ecology and Biodiversity	**Construction and Decommissioning**: Direct loss of site	**Not Significant**	As more than one type of effect is identified for construction and decommissioning, there is a potential for an intra-project effect during these phases.	**Yes**
Great Wood CWS	Chapter 5: Cultural Heritage	**Construction:** Loss of archaeological remains during construction.	**Not Significant**		
Aldeburgh SSSI. Sandlings SPA. Leiston – Aldeburgh SSSI. Crag Pit SSSI. Grove Wood.	Chapter 9: Air Quality	**Construction**: dust arising from trackout, earthworks and construction activities which may impact upon human health, soils and	**Not Significant**		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
		ecological receptors.			
		Operation: Increase in NO_2 and particulate matter concentrations at ecological receptor locations.	**Not Significant**		

Table 2.13.A.5 Ecological receptors – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Ecological receptors					
Ecological receptors	Chapter 3: Ecology and Biodiversity	**Construction, Operation and Decommissioning**: Direct loss (temporary or permanent) of habitats. Direct loss of designated sites during construction or decommissioning. Spillages and introduction of non-native species of habitats. Killing and injury of fauna. Disturbance of designated sites during operation. Disturbance of birds and other fauna during operation. Spillages on habitats and introduction of invasive species during operation. Shading impacts on riparian habitats during operation.	**Significant/ Not Significant**	As more than one type of effect is identified during construction, there is a potential for an intra-project effect during this phase.	**Yes**
	Chapter 9: Air Quality	**Construction**: dust arising from trackout, earthworks and construction activities which may impact upon human health, soils and ecological receptors.			

Table 2.13.A.6 Water resources (existing abstractions and discharges) – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Water resources (existing abstractions and discharges)					
Licensed abstractions	Chapter 5 Water Environment	**Construction:** Temporary deterioration of water quality due to project discharges e.g., from dewatering or work site runoff and increased water use/reduced water availability due to construction water needs.	**Not Significant**	As more than one type of effect is identified during construction, there is a potential for an intra-project effect during this phase.	**Yes**
	Chapter 6 Geology and Hydrogeology	**Construction:** Changes to groundwater levels, quality and groundwater flow direction caused by temporary dewatering during construction. Changes to groundwater levels and/or rechange rates from the introduction of impermeable surfaces at converter stations and substations.	**Not Significant**		

Table 2.13.A.7 Watercourses and waterbodies – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Watercourses and waterbodies					
As effects have only been identified on this receptor from one topic **Volume 1, Part 2, Chapter 5: Water Environment**, there is no potential for an intra-project effect.					

Table 2.13.A.8 Flood risk receptors – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Flood risk receptors					
As effects have only been identified on this receptor from one topic **Volume 1, Part 2, Chapter 5: Water Environment**, there is no potential for an intra-project effect.					

Table 2.13.A.9 Soil – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Soil					
Soils	Chapter 5 Water Environment	**Construction:** Increased runoff rates and volumes, and impact on land drainage regime due to soil stripping, earthworks and excavations.	**Not Significant**	As more than one type of effect is identified during construction there is a potential for an intra-project effect during this phase.	**Yes**
	Chapter 6 Geology and Hydrogeology	**Construction:** Potential adverse effects of operations on soil resources.	**Not Significant**		
	Chapter 7 Agriculture and Soils	**Construction:** Potential adverse effects of operations on soil resources.	**Not Significant**		
	Chapter 9: Air quality	**Construction**: dust arising from trackout, earthworks and construction activities which may impact upon human health, soils and ecological receptors.	**Not Significant**		

Table 2.13.A.10 Public rights of way – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Public Rights of Way (PRoW)					
PRoW	Chapter 2: Landscape and Visual	**Construction:** Temporary alteration to visual amenity from the introduction of construction activity including compounds, temporary accommodation and access tracks, construction plant and vehicle movements, topsoil stripping and earthworks, storage of materials and lighting. **Operation:** Permanent alteration to visual amenity as a result of the operational converter station, substation and cable corridors. Permanent alteration to visual amenity for directional lighting associated with the converter station and substation.	**Significant**	As more than one type of effect is identified for construction, operation and decommissioning, there is a potential for an intra-project effect during these phases.	**Yes**
	Chapter 8 Traffic and Transport	**Construction and Decommissioning:** Fear and intimidation, hazardous large loads, and diversions / closures, Severance, Pedestrian Delay, Non-Motorised User Amenity, Driver Delay and Road Safety.	**Not Significant**		
	Chapter 11 Socio-economic Recreation and Tourism	**Construction:** Temporary closure resulting in changes in access to the wider PRoW network.	**Not Significant**		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
	Chapter 12 Health and Wellbeing	**Construction, Operation, Maintenance and Decommissioning:** Activities from the Suffolk Onshore Scheme may intersect, or otherwise impact upon, the accessibility of PRoW and active travel networks in the Study area	**Not Significant**		

Table 2.13.A.11 Cycle routes – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Cycle Routes					
Cycle routes	Chapter 8 Traffic and Transport	**Construction:** Fear and intimidation, hazardous large loads, and diversions / closures, Severance, Pedestrian Delay, Non-Motorised User Amenity, Driver Delay and Road Safety.	**Not Significant**	As more than one type of effect is identified during construction there is a potential for an intra-project effect during this phase.	**Yes**
	Chapter 11 Socio-economic Recreation and Tourism	**Construction:** Temporary closure resulting in changes in access to the wider PRoW network.	**Not Significant**		

Table 2.13.A.12 Communities – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Communities					
As effects have only been identified on this receptor from one topic **Volume 1, Part 2, Chapter 11: Socio-Economics, Recreation and Tourism**, there is no potential for an intra-project effect.					

Table 2.13.A.13 Human Health – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Human Health					
Human receptors	Chapter 6: Geology and Hydrogeology	**Construction and Decommissioning:** Exposure to existing potential contamination through ground disturbance during construction and decommissioning activities. **Construction, Operation, Maintenance and Decommissioning:** Ingress and accumulation of ground gas in buildings/confined spaces/trenches (construction and operation) – resulting in explosion/asphyxiation/exposure.	**Not Significant**	As more than one type of effect is identified during construction, operation and decommissioning, there is a potential for an intra-project effect during this phase.	**Yes**
	Chapter 9: Air quality	**Construction**: dust arising from trackout, earthworks and construction activities which may impact upon human health, soils and ecological receptors. **Construction and Decommissioning:** Increase in NO_2 and particulate matter concentrations at human and ecological receptor locations.	**Not Significant**		
	Chapter 10: Noise and Vibration	**Construction:** Potential noise and vibration impacts from construction activities. **Operation:** Potential impact of operational noise from the	**Not Significant**		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
		proposed Saxmundham Converter Station.			
	Chapter 11 Socio-Economics, Recreation and Tourism	**Construction:** Access to community facilities, open spaces, development land or tourism attractions.	**Not Significant**		
	Chapter 12: Health and Wellbeing	**Construction and Decommissioning:** Extra demand on social infrastructure due to construction workers. Increased traffic reducing accessibility to social infrastructure other than healthcare for the local population.	**Not Significant**		

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National Grid plc
National Grid House,
Warwick Technology Park,
Gallows Hill, Warwick.
CV34 6DA United Kingdom

Registered in England and Wales
No. 4031152
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