

The Great Grid Upgrade

Sea Link

Preliminary Environmental Information Report

Volume: 2

Part 3 Kent Onshore Scheme

Appendix 3.13.A Kent Onshore Intra-Project Cumulative Effects
Screening Tables

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3.13.A.1 Kent Screening Tables

Table 3.13.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 3, Chapter 2: Landscape and Visual , there is no potential for an intra-project effect.					

Table 3.13.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 in proximity to Viewpoints 8 and 9	Chapter 2: Landscape and Visual	<p>Construction, Maintenance and Decommissioning: 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.</p> <p>Operation: Permanent alteration to visual amenity as a result of the operational converter station, substation, HVAC OHL and HVDC cable corridor. Permanent alteration to visual amenity for directional lighting associated with the converter station and substation.</p>	Not Significant	As more than one type of effect is identified for construction, maintenance, operation and decommissioning, there is a potential for an intra-project effect during these phases.	Yes
Nearby residential properties in proximity to viewpoints 11 and 12	Chapter 2: Landscape and Visual	<p>Construction, Maintenance and Decommissioning: Temporary alteration to visual amenity from the introduction of construction activity including compounds, temporary accommodation and access tracks, construction plant and vehicle movements, topsoil</p>	Not Significant		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
		stripping and earthworks, storage of materials and lighting. Operation: Permanent alteration to visual amenity as a result of the operational converter station, substation, HVAC OHL and HVDC cable corridor. Permanent alteration to visual amenity for directional lighting associated with the converter station and substation.			
Residential receptors within 350 m of the draft Order limits	Chapter 9: Air Quality	Construction and Decommissioning: Construction dust arising from trackout (transportation of dust and dirt onto the public road network), earthworks and construction activities which may impact upon human health, soils and ecological receptors.	Not Significant		
Residential receptors within 200 m of non-road mobile machinery	Chapter 10: Noise and Vibration	Construction and Decommissioning: Increase in NO2 and particulate matter concentrations at human and ecological receptor locations.	Not Significant		

Table 3.13.A 3 Designated heritage assets 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
Designated Heritage Assets					
Richborough Fort	Chapter 2: Landscape and Visual	<p>Construction, Maintenance and Decommissioning: Temporary alteration to landscape character 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.</p> <p>Operation: Permanent alteration to landscape character as a result of the operational converter station, substation, and cable corridor. Permanent alteration to landscape character for directional lighting associated with the converter station and substation.</p>	Not Significant	As more than one type of effect is identified during construction and operation there is a potential for an intra-project effect during this phase.	Yes
Richborough Castle Scheduled Monument	Chapter 4: Cultural Heritage	Operation: Impact to the setting of the monument	Not Significant		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
and Grade I listed building	Chapter 10: Noise and Vibration	Construction: Potential noise impacts from construction activities.	Not Significant		

Table 3.13.A 4 Designated sites – Summary of preliminary environmental information

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Designated Sites					
Sandwich Bay to Hacklinge Marshes Site of Special Scientific Interest (SSSI). Thanet Coast and Sandwich Bay Special Protection Area (SPA). Sandwich Bay Special Area of Conservation (SAC). Thanet Coast and Sandwich Bay Ramsar.	Chapter 3: Ecology and Biodiversity	Construction and Decommissioning: Direct loss of site.	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 and Decommissioning: Dust arising from trackout (transportation of dust and dirt onto the public road network), earthworks and construction activities which may impact upon human health, soils and ecological receptors.	Not Significant		
	Chapter 9: Air Quality	Operation: Increase in NO ₂ and particulate matter concentrations at ecological receptor locations.	Not Significant		

Table 3.13.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 2: Landscape and Visual	<p>Construction, Maintenance and Decommissioning: Temporary alteration to landscape character 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.</p> <p>Operation: Permanent alteration to landscape character as a result of the operational converter station, substation, and cable corridor. Permanent alteration to landscape character for directional lighting associated with the converter station and substation.</p>	Significant/ Not Significant	As more than one type of effect is identified for construction, maintenance, operation and decommissioning, there is a potential for an intra-project effect during these phases.	Yes

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
Chapter 3: Ecology and Biodiversity	Construction, Operation and Decommissioning:	<p>Direct loss (temporary or permanent) of habitats.</p> <p>Direct loss of designated sites during construction or decommissioning.</p> <p>Spillages and introduction of non-native species of habitats.</p> <p>Killing and injury of fauna.</p> <p>Disturbance of designated sites during operation.</p> <p>Disturbance of birds and other fauna during operation.</p> <p>Spillages on habitats and introduction of invasive species during operation.</p> <p>Shading impacts on riparian habitats during operation.</p>	Significant/ Not Significant		

Table 3.13.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)					
As effects have only been identified on this receptor from one topic Volume 1, Part 3, Chapter 5: Water Environment , there is no potential for an intra-project effect.					

Table 3.13.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					
Habitats, particularly River Stour, Minster Stream, wetland scrapes north of River Stour and other ditches	Chapter 3: Ecology and Biodiversity	<p>Construction and Decommissioning: Spillages and introduction of non-native species on habitats during construction or decommissioning.</p> <p>Shading impacts on riparian habitats during construction or decommissioning.</p> <p>Operation: Shading impacts on habitats during operation</p>	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
River Stour and watercourses in the Stour Marshes including Minster Stream and Richborough Stream	Chapter 5: Water Environment	<p>Construction and Decommissioning: Pollution by silt, hydrocarbons and other construction materials at open cut watercourse crossings.</p> <p>Pollution risks from trenchless watercourse crossings for cable route (bentonite breakout and water consumption).</p> <p>Temporary physical disturbance and change to flow regimes at</p>	Not Significant		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
		<p>open-cut watercourse crossings for access and the cable route.</p> <p>Temporary deterioration of water quality due to project discharges e.g. from dewatering or work site runoff.</p>			
Ordinary watercourses, land drains and existing land uses	Chapter 5: Water Environment	<p>Construction and Decommissioning:</p> <p>Increased runoff rates and volumes, and impact on land drainage regime due to soil stripping, earthworks and excavations.</p>	Not Significant		
Floodplains, existing land uses and infrastructure	Chapter 5: Water Environment	<p>Construction and Decommissioning:</p> <p>Temporary loss of floodplain storage, impediment of floodplain flows, and increased flood risk e.g. due to spoil storage in floodplain.</p>	Not Significant		

Table 3.13.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 3, Chapter 5: Water Environment , there is no potential for an intra-project effect.					

Table 3.13.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 6 Geology and Hydrogeology	Construction: Potential adverse effects of operations on soil resources.	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 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 3.13.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)					
Public Rights of Way (PRoW)	Chapter 2: Landscape and Visuals	<p>Construction, Maintenance and Decommissioning: Temporary alteration to landscape character 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.</p> <p>Operation: Permanent alteration to landscape character as a result of the operational converter station, substation, high voltage alternating current (HVAC), overhead line (OHL) and high voltage direct current (HVDC) cable corridor. Permanent alteration to landscape character for directional lighting associated with the converter station and substation.</p>	Significant/ Not Significant	As more than one type of effect is identified for construction, maintenance, operation and decommissioning, there is a potential for an intra-project effect during these phases.	Yes

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
	Chapter 8: Traffic Transport	<p>Construction and Decommissioning: PRow Diversions and Closures. Severance Pedestrian Delay Non-Motorised User Amenity Fear and Intimidation</p> <p>Operation: Potential permanent of either PRow TE26 (K-P3) or PRow EE42 (K-P4) depending on which option for the proposed overhead lines and pylons is taken forward.</p>	Not Significant		
	Chapter 12: Health and Wellbeing	<p>Construction, Operation, Maintenance and Decommissioning: Activities from the Kent Onshore Scheme may intersect, or otherwise impact upon, the accessibility of PRow and active travel networks in the Study Area.</p>	Not Significant		

Table 3.13.A 11 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 8: Traffic and Transport	Construction and Decommissioning: Severance Pedestrian Delay Non- Motorised user Amenity Fear and Intimidation Driver Delay Road Safety Hazardous/ Large Loads Diversions and Closures	Not Significant	As more than one type of effect is identified for construction phase, there is a potential for an intra-project effect during these phases.	Yes
	Chapter 10: Noise and Vibration	Construction: Potential impact due to increased road traffic noise due to the additional contribution from construction traffic on the public highway.	Not Significant		
	Chapter 10: Noise and Vibration	Construction: Potential vibration impact from construction traffic on the public highway, access tracks, and haul roads.	Not Significant		

Table 3.13.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 3.13.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	<p>Construction and Decommissioning: Exposure to existing potential contamination through ground disturbance during construction and decommissioning activities.</p> <p>Construction, Operation, Maintenance and Decommissioning: Ingress and accumulation of ground gas in buildings/confined spaces/trenches (construction and operation) – resulting in explosion/asphyxiation/exposure.</p>	Not Significant	As more than one type of effect is identified for construction, maintenance, operation and decommissioning, there is a potential for an intra-project effect during these phases.	Yes
	Chapter 9: Air Quality	<p>Construction and Decommissioning: Construction dust arising from trackout (transportation of dust and dirt onto the public road network), earthworks and construction activities which may impact upon human health.</p>	Not Significant		
	Chapter 9: Air Quality	<p>Construction and Decommissioning: Increase in NO₂ and particulate matter</p>	Not Significant		

Receptor	Relevant Topic	Effects	Residual Significance of Effects	Potential for Intra-Project Cumulative Effects	Taken Through to Stage 3
		concentrations at human and ecological receptor locations.			
	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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