

# REPORT

## **Boston Alternative Energy Facility - Preliminary Environmental Information Report**

### Chapter 25 Summary

Client: Alternative Use Boston Projects Ltd

Reference: PB6934-RHD-01-ZZ-RP-N-2025

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Rightwell House  
Rightwell East  
Bretton  
Peterborough  
PE3 8DW  
Industry & Buildings  
VAT registration number: 792428892

+44 1733 334455 **T**  
+44 1733 262243 **F**  
email **E**  
royalhaskoningdhv.com **W**

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Author(s): Ashleigh Holmes, Charlotte Goodman

Drafted by: Ashleigh Holmes

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Checked by: Abbie Gary

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Approved by: Gary Bower

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Date / initials: GB 17/06/2019

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Classification

Project Related



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## Table of Contents

<b>24</b>	<b>Summary of Impacts</b>	<b>1</b>
24.1	Introduction	1

## Table of Tables

Table 24.1	Summary of PEIR Topic Impacts	2
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## **24 Summary of Impacts**

### **24.1 Introduction**

24.1.1 This chapter of the Preliminary Environmental Information Report summarises the impacts during the construction, operational and decommissioning phases of the Boston Alternative Energy Facility (the Facility). Mitigation measures are detailed and a discussion of the residual impacts provided where significant impacts were identified.

Table 24.1 Summary of PEIR Topic Impacts

Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact	
<b>Construction</b>							
Chapter 8 Cultural Heritage	Direct impact to potential buried archaeological remains.	66: Prehistoric peat deposits and historic alluvium	High	High negative	Major adverse	Archaeological evaluation and recording.	Minor adverse
		90: The Haven Mudbanks	Low	High negative	Major adverse	Archaeological evaluation and recording.	Minor adverse
		91: Foreshore remains	High	High negative	Major adverse	Archaeological evaluation and recording.	Minor adverse
		96: Buried archaeological features	High	High negative	Major adverse	Archaeological evaluation and recording.	Minor adverse
	Indirect impact upon setting of designated heritage assets	1: Wybert's Castle	High	Negligible negative	Moderate adverse	Standard construction hours & practices	Minor adverse
		5: Slippery Gowt Sluice	High	Negligible negative	Minor adverse	Standard construction hours & practices	Minor adverse
		6: Maud Foster Sluice	High	Negligible negative	Minor adverse	Standard construction hours & practices	Minor adverse
		7: Parish Church of St Nicholas	High	Negligible negative	Minor adverse	Standard construction hours & practices	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
		26: St Botolph's Church	High	Negligible negative	Minor adverse	Standard construction hours & practices	Minor adverse
		31: Skirbeck Conservation Area	Medium	Low negative	Minor adverse	Standard construction hours & practices	Minor adverse
		33: Wyberton Conservation Area	Medium	Negligible negative	Minor adverse	Standard construction hours & practices	Negligible adverse
	Direct impact upon above ground heritage asset	65: The 'Roman Bank'	Medium	Medium negative	Moderate adverse	Archaeological survey and excavation	Neutral
	Indirect impact upon setting of recorded non-designated assets	65: The 'Roman Bank'	Medium	Medium negative	Moderate adverse	Public information board (enhancement)	Minor adverse
Chapter 9 Landscape and Visual Impact	Landscape Character	Proposed Site and Environs	Low	Low medium	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Landscape Character	B1 - Bicker to Wyberton Settled Fen	Medium	Low medium	Minor adverse	Embedded mitigation	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Landscape Character	B3 - Wrangle to Cowbridge Settled Fen	Medium	Low medium	Minor adverse	Embedded mitigation	Minor adverse
	Landscape Character	C1 – Welland to Haven Reclaimed Saltmarsh	Medium	Low medium	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 2; Looking south west from Church Green Road near Fishtoft.	High	Negligible	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 3; Looking west from Footpath (Fish/3/1) at Fishtoft.	High	Negligible	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 4; Looking north west from Scalp Road, near property Appleside.	High	Negligible	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 6; Looking north west from Footpath Fish/13/10 at junction with Footpath Fish/13/9 on the	High	Low	Minor adverse	Embedded mitigation	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Viewpoint Analysis)	north bank of The Haven.					
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 7; Looking north west from the junction of Footpaths Fish/13/2, Fish/13/5 and Fish/13/7 on the north bank of The Haven.	High	Low medium	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 8; Looking south from Footpath Bost/13/3 near St Nicholas's Church, Skirbeck Conservation Area and properties off The Featherworks / Skirbeck Gardens.	High	Medium high adverse	Moderate major adverse	Embedded mitigation	Moderate major adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 9; Looking north from Footpath Bost/14/8.	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 10; Looking east from Marsh Lane near property Cremorne and opposite property Coronation Villa.	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse



Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 11; Looking east from near properties along Wyberton Low Road (also Sustrans Route 1 / North Sea Cycle Route).	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 13; Looking north from Silt Pit Lane near property Silt Pit Farm.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 14; Looking north east from Church Lane at Wyberton Park near property Denemere	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 15; Looking north from near properties off Rowdyke Road.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis)	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
Chapter 10 Noise and Vibration	Increased Noise on Sensitive Receptors from On-Site Construction	Residential	Medium	To be assessed during ES stage.			
	Increased Noise on Sensitive Receptors from Off-Site Construction Traffic	Residential	Medium	No Impact to Major Adverse	Negligible to Major Adverse	Traffic Management Plan	Minor Adverse
	Construction Vibration	Residential	Medium	No Impact	Negligible to Minor Adverse	Best Practice Measures (BPM)	Negligible Adverse
Chapter 11 Contaminated Land, Land Use and Hydrogeology	Impact 1 – Impact on Human Health, Including Construction Workers and General Public During Any Excavations and Construction Related Activities	Human Health	High	Low	Minor	Further investigation to assess ground gas risk and embedded mitigation	Minor Adverse

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Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Impact 2 – Impact on Groundwater Quality from construction related activities	Groundwaters	Medium	Negligible	Minor	Embedded mitigation	Minor Adverse
	Impact 3 – Impact on Groundwater Quantity from construction related activities	Groundwaters	Medium	Negligible	Minor	Embedded mitigation	Minor Adverse
	Impact 4 – Impact on Surface Water Quality from general earthworks and construction related activities	Surface waters	Medium	Negligible	Minor	Embedded mitigation	Minor Adverse
	Impact 5 – Impact on soil quality	Soils quality	High	Moderate	Moderate	Embedded mitigation	Minor Adverse
	Impact 6 – Loss of Best Most Versatile	Land Use	High	Negligible	Minor	Embedded mitigation	Minor Adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	(BMV) agricultural land						
Chapter 12 Terrestrial Ecology	Statutory Designated Sites	Havenside LNR	High	No impact	-	-	No impact
	Non-statutory Designated Sites	LWS' (Havenside, South Forty Drain and Slippery Gowt Sea Bank)	Medium	No impact	-	-	No impact
	Impacts to habitats	All types	Low	High	Minor adverse	Implementation of landscape mitigation planting.  Minimal loss of habitats through site design.	Minor adverse
	Impact to badgers	Badgers	Low	No impact	-	Pre-construction surveys to confirm badgers remain absent.	No impact
	Impact to water voles	Water voles	High	No impact	-	Updated surveys to confirm water voles remain absent.	No impact
	Impact to otters	Otters	High	No impact	-	Updated surveys to confirm otters remain absent.	No impact

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Impact to foraging and commuting bats	Bats (foraging and commuting only)	High	High	Major adverse	<p>Pre-construction survey to confirm the presence of bats.</p> <p>Replacement planting of hedgerows that require removal, as part of the landscape mitigation planting strategy.</p> <p>All temporary lighting to be designed in line with the BCT Bats and Lighting in the UK guidance (2018). This to include the use of directional lighting during construction;</p>	Moderate adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
						<p>Construction phase lighting will be limited to between 7am-7pm in low light conditions, with lower-level security lighting outside of these times;</p> <p>Ensure that dark corridors remain in place during the construction phase.</p>	
	Impacts to reptiles	Reptiles	Medium	High	Moderate adverse	Precautionary methods of working during construction, including tool box talk, habitat manipulation and ecological supervision.	Minor adverse
	Impact to bird populations	Bird populations (loss of habitat and in turn loss of	Medium	High	Moderate adverse	Removal of vegetation	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
		nesting opportunities)				outside of nesting bird season.  Pre-work checks for nesting sites if vegetation requires removal during nesting bird season.	
	Impact to terrestrial invertebrates	Terrestrial invertebrates	Low	Low	Minor adverse	Integration of habitat for invertebrate species into Facility design (e.g. varied planting regime to provide sheltered elevated temperatures for invertebrates, foraging areas and nectar and pollen for flower-dependent invertebrates	Minor adverse
Chapter 13 Surface Water, Flood Risk and Drainage Strategy	Direct disturbance of surface watercourses	IDB drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible

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Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Increased sediment supply	IDB drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible
	Accidental release of contaminants	IDB drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible
	Changes to surface water runoff and flood risk	IDB drains	Low	Low	Minor adverse	An existing attenuation pond will be used before discharging via surface water ditches at a controlled rate into the IDB drain adjacent to the Site.	Negligible
Chapter 14 Air Quality Assessment	Construction phase dust and particulate matter	Human receptors	Dust soiling: low Human health: low	Large	Assessment methodology does not assign significance before mitigation	Best practice mitigation measures to be detailed within a CEMP	Not significant
	Road traffic emissions	Human receptors	High	Moderate adverse at one receptor and negligible at 29 receptors	Minor adverse	To be reported at ES stage	To be determined
Chapter 15 Marine Sediment and Water Quality	Impacts on suspended solids concentrations	Water Quality	Medium	Low	Minor Adverse	None required	Minor Adverse



Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	associated with capital dredging						
	Impacts on water quality associated with release of sediment contamination	Water Quality	Medium	Low	Minor Adverse	None required	Minor Adverse
	Impacts on water quality associated with using concrete in the marine environment	Water Quality	Medium	No Impact			
Chapter 16 Estuarine Processes	Changes in suspended sediment concentrations due to capital dredging of the berthing areas	The Wash group and Havenside LNR	N/A	N/A	No impact	N/A	No impact
	Changes in estuary-bed level due to capital dredging of the berthing areas	The Wash group and Havenside LNR	N/A	N/A	No impact	N/A	No impact
Chapter 17 Marine and Coastal	Loss of and/or change to	Mudflats	Medium	Low	Minor adverse	Material removed to be	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
Ecology	estuarine habitats and associated species within the footprint of the wharf and dredging area	Saltmarshes	Medium	Low	Minor adverse	restricted to minimum. The design of the quay wall and wharf has been set to minimise the volume of capital dredging required.	Minor adverse
	Increased suspended sediment concentrations from capital dredging, with potential for sediment-bound contaminants to be released	Fish	Medium	Medium	Moderate adverse	Material removed to be restricted to minimum. The design of the quay wall and wharf has been set to minimise the volume of capital dredging required.	Minor adverse
		Benthic fauna	Low	Low	Minor adverse		Minor adverse
	Disturbance due to human activity/increased human presence (excluding underwater noise, but including airborne noise)	Birds	To be assessed when predictions of noise generation during construction have been undertaken			The need for, and nature of mitigation will be considered when the predicted construction noise levels have been confirmed.	-

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Underwater noise (piling and vessel movements)	Fish	Medium	Medium	Moderate adverse	The need for, and nature of mitigation will be considered when the impact assessment is further progressed and the potential for underwater noise generation is better understood.	Moderate adverse
		Marine mammals	High	Negligible	Minor adverse		Minor adverse
Chapter 18 Navigational Issues	The outcomes of the NRA will be presented in the ES						
Chapter 19 Traffic and Transport	Peak WCS - Impact Pedestrian Severance	1, 2, 3, 4, 5, 6, 7.	Low to High	Very Low	Negligible - Minor	N/A	Negligible - Minor
		10.	Low	Medium	Minor	N/A	Minor
	Peak WCS Pedestrian Amenity	7	Medium	Very Low	Minor	N/A	Minor
		1, 3, 4, 5.	Low – Medium	Low - Medium	Minor	N/A	Minor
		2, 10.	Low - Medium	Medium - High	Minor	N/A	Minor
		6.	High	Medium	Major	HGV diversion to alternative	Minor

Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
					route (Link 3)	
Peak WCS PRoW Closures	Boston Public Footpath No. 14.	High	Low	Moderate	Utilise traffic lights or banksmen to monitor crossing of section 14/3 during construction period.	Minor
Peak WCS Road Safety	Clusters 1, 2, 3.	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES
Peak WCS Driver Delay	Junctions 1, 2, 3, 4.	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES
Average WCS Pedestrian Severance	1, 2, 6, 10.	Low to High	Very Low	Negligible - Minor	N/A	Negligible - Minor
Average WCS Pedestrian Amenity	1, 2, 6.	Low to High	Very Low	Negligible - Minor	N/A	Negligible - Minor
	10	Low	Low	Minor	N/A	Minor
Average WCS PRoW Closures	Boston Public Footpath No. 14	High	Low	Moderate	Utilise traffic lights or banksmen to monitor crossing of section 14/3 during construction	Minor

Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact	
					period.		
	Average WCS Road Safety	Clusters 1, 2, 3.	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES
	Average WCS Driver Delay	Junctions 1, 2, 3, 4.	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES
Chapter 20 Socio-Economics	Employment	AOI	Medium	Beneficial	Moderate	n/a	Beneficial, Moderate
	Housing Market	AOI	Low	Negligible	Negligible	n/a	Negligible
	Primary Education	3 km of Application Site	Medium	Negligible	Negligible	n/a	Negligible
	Secondary Education	5 km of Application Site	Medium	Adverse	Minor	Effective mitigation through the commitment of BBC to deliver a new secondary school in Boston, as identified in the SEELP Infrastructure Delivery Plan	Negligible
	Health	5 km of Application Site	Medium	Negligible	Negligible	n/a	Negligible

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Tourism	AOI	Low	Negligible	Negligible	n/a	Negligible
Chapter 21 Climate Change	No significant effects.						
Chapter 22 Health Impact Assessment	To be assessed in the ES.						
Chapter 23 Waste Assessment Report	To be assessed in the ES.						
<b>Operation</b>							
Chapter 8 Cultural Heritage	Direct impact to potential buried archaeological remains	No further impact					
	Indirect impact upon setting of designated heritage assets	1: Wybert's Castle	High	Negligible negative	Minor adverse	n/a	Minor adverse
		5: Slippy Gowt Sluice	High	Negligible negative	Minor adverse	n/a	Minor adverse
		6: Maud Foster Sluice	High	Negligible negative	Minor adverse	n/a	Minor adverse
		7: Parish Church of St Nicholas	High	Negligible negative	Minor adverse	n/a	Minor adverse
		26: St Botolph's Church	High	Negligible negative	Minor adverse	n/a	Minor adverse
		31: Skirbeck Conservation Area	Medium	Minor negative	Minor Adverse	n/a	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
		33: Wyberton Conservation Area	Medium	Negligible negative	Negligible Adverse	n/a	Minor adverse
	Direct impact upon above ground heritage asset	No further impact					
	Indirect impact upon setting of recorded non-designated assets	65: The 'Roman Bank'	Medium	Medium negative	Moderate adverse	Public information board (enhancement)	Minor adverse
Chapter 9 Landscape and Visual Impact	Landscape Character – Year 1	Proposed Site and Environs	Low	Low medium	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Landscape Character – Year 1	B1 - Bicker to Wyberton Settled Fen	Medium	Low medium	Minor adverse	Embedded mitigation	Minor adverse
	Landscape Character – Year 1	B3 - Wrangle to Cowbridge Settled Fen	Medium	Low medium	Minor adverse	Embedded mitigation	Minor adverse
	Landscape Character – Year 1	C1 – Welland to Haven Reclaimed Saltmarsh	Medium	Low medium	Minor adverse	Embedded mitigation	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 2; Looking south west from Church Green Road near Fishtoft.	High	Negligible adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 3; Looking west from Footpath (Fish/3/1) at Fishtoft.	High	Negligible adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 4; Looking north west from Scalp Road, near property Appleside.	High	Negligible adverse	Minor negligible adverse	Embedded mitigation	Minor negligible adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 6; Looking north west from Footpath Fish/13/10 at junction with Footpath Fish/13/9 on the north bank of The Haven.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse



Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 7; Looking north west from the junction of Footpaths Fish/13/2, Fish/13/5 and Fish/13/7 on the north bank of The Haven.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 8; Looking south from Footpath Bost/13/3 near St Nicholas’s Church, Skirbeck Conservation Area and properties off The Featherworks / Skirbeck Gardens.	High	Medium adverse	Moderate adverse	Embedded mitigation	Moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 9; Looking north from Footpath Bost/14/8.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 10; Looking east from Marsh Lane near property Cremorne and opposite property Coronation Villa.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 11; Looking east from near properties along Wyberton Low Road (also Sustrans Route 1 / North Sea Cycle Route).	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 13; Looking north from Silt Pit Lane near property Silt Pit Farm.	High	Low medium adverse	Minor moderate adverse	Embedded mitigation	Minor moderate adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 14; Looking north east from Church Lane at Wyberton Park near property Denemere	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 15; Looking north from near properties off Rowdyke Road.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse

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	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
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Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
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Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
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Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
	Visual Receptors (Summary of Representative Viewpoint Analysis) – Year 1	View 16; Looking north east from properties off Causeway.	High	Low adverse	Minor adverse	Embedded mitigation	Minor adverse
Chapter 10 Noise and Vibration	Increased Daytime Noise on Sensitive Receptors from The Boston Alternative Energy Facility	Residential	Medium	No Impact to Major	Negligible to Major Adverse	BPM, Noise attenuation from engineering, enhanced cladding and enclosure design, procurement of quieter design plant,	Negligible to Minor Adverse
	Increased Night time Noise on Sensitive Receptors from The Boston Alternative	Residential	Medium	No Impact to Moderate	Negligible to Moderate Adverse	BPM, Noise attenuation from engineering, enhanced cladding and enclosure design, procurement of	Negligible to Minor Adverse

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Energy Facility					quieter design plant,	
	Increased Noise on Sensitive Receptors from Off-Site Operational Traffic	Residential	Medium	No Impact to Negligible	Negligible Adverse	n/a	Negligible Adverse
	Operational Vessel Movements	Residential	Medium	No Impact to Negligible	Negligible Adverse	n/a	Negligible Adverse
	Operational Vibration	Residential	Medium	No Impact to Negligible	Negligible Adverse	n/a	Negligible Adverse
Chapter 11 Contaminated Land, Land Use and Hydrogeology	Impact 1 - Impact on Human Health and Controlled waters Including Workers and Public During Operation as a result of residual contaminants present within the ground	Human Health Groundwater Surface waters	High	Negligible	Minor	Embedded mitigation	Minor Adverse
	Impact 2 - Impact on	Human Health Groundwater	High	Negligible	Minor	Embedded mitigation	Minor Adverse



Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	human health and controlled waters during Operation from as a result of new sources of contamination being introduced	Surface waters					
Chapter 12 Terrestrial Ecology	Disturbance effects associated Maintenance Activities	Disturbance to Habitats and Species from Maintenance Activities	High	Negligible	Minor adverse	-	Minor adverse
	Disturbance to Fauna from Operational Lighting and Noise	Disturbance to Fauna from Operational Lighting and Noise	High	Negligible	Minor adverse	Production and implementation of an Operational Lighting Scheme	Minor adverse
Chapter 13 Surface Water, Flood Risk and Drainage Strategy	Changes to surface water runoff and flood risk	IDB drains	Low	Low	Minor adverse	An existing attenuation pond will be used before discharging via surface water ditches at a controlled rate into the IDB drain adjacent to the Site.	Negligible

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Supply of fine sediment and other contaminants	IDB drains	Low	Negligible	Negligible	Embedded mitigation measures only	Negligible
Chapter 14 Air Quality Assessment	Stack, road traffic and vessel emissions	Human and ecological receptors	To be determined	To be determined	To be reported at ES stage	To be determined	To be determined
Chapter 15 Marine Sediment and Water Quality	Impacts on suspended solids concentrations and chemical contaminants associated with maintenance dredging	Water Quality	Medium	Low	Minor Adverse	None required	Minor Adverse
Chapter 16 Estuarine Processes	Changes to the tidal current regime and erosion/accretion patterns due to the presence of the wharf and berthing areas	The Wash group and Havenside LNR	N/A	N/A	No impact	N/A	No impact
	Changes to the wave regime (ship)	The Wash group and Havenside LNR	N/A	N/A	No impact	N/A	No impact

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	wash) due to the increase in vessel traffic						
	Changes in suspended sediment concentrations due to maintenance dredging of the berthing areas	The Wash group and Havenside LNR	N/A	N/A	No impact	N/A	No impact
	Changes in estuary-bed level due to maintenance dredging of the berthing areas	The Wash group and Havenside LNR	N/A	N/A	No impact	N/A	No impact
Chapter 17 Marine and Coastal Ecology	Habitat alteration due to hydrodynamic changes	Intertidal and subtidal habitats	Low	Medium	Minor adverse	Dredging works to be minimised according to best practice and monitor the seabed and habitat level through regular bathymetric and habitat surveys.	Minor adverse
	Changes in vessel traffic	Increased risk of invasive species with ballast water	Negligible	Negligible	Negligible	Shipping to be kept to a	Negligible

Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	and movement leading to increased ship wash, underwater noise, disturbance and collision risk	Intertidal habitats (increased ship wash)	Negligible	Negligible	Negligible	minimum, as necessary. Slow speed (max. 4 knots) to be kept for all vessels.	Negligible
		Birds and marine mammals (visual disturbance)	Low	Low	Minor adverse		Minor adverse
		Fish, birds and marine mammals (increased underwater noise)	Medium	Low	Minor adverse		Minor adverse
		Marine mammals (vessel collision)	Low	Medium	Minor adverse	Slow speed (max. 4 knots) to be kept for all vessels. Vessel movements to be incorporated in to recognised vessel routes.	Minor adverse
	Increased levels of suspended sediments due to maintenance dredging	Fish (migration and behaviour)	Medium	Negligible	Minor adverse	Given that the maintenance dredging will form part of the existing wider maintenance programme, and the nature of the predicted impacts, no specific measures are considered necessary.	Minor adverse
		Benthic fauna	Low	Negligible	Negligible		Negligible

Project Related



Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Beaching of vessels at low tide	Benthic fauna	Low	Minor	Minor adverse	No mitigation was deemed necessary	Minor adverse
	Increased emissions to air and deposition on marine and estuarine habitats	Marine and coastal habitats	Potential impacts will be assessed when the results of the air quality assessment are available				
Chapter 18 Navigational Issues	The outcomes of the NRA will be presented in the ES						
Chapter 19 Traffic and Transport	Impact 1: Pedestrian Severance	10	Low	Low	Negligible	N/A	Negligible
	Impact 2: Pedestrian Amenity	10	Low	Very Low	Negligible	N/A	Negligible
	Impact 2: PRoW Closures	Boston Public Footpath No. 14	High	Low	Moderate	Utilise traffic lights or banksmen to monitor crossing of section 14/3 during construction period.	Minor
	Impact 3: Road Safety	Clusters 1, 2, 3.	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES	TBD in the ES
	Impact 4: Driver Delay	Junctions 1, 2, 3, 4.	High	Very Low	Minor	N/A	Minor
Chapter 20 Socio-	Employment	AOI	Medium			n/a	Beneficial, Minor

Project Related



Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
Economics	Housing Market	AOI	Low	Negligible	Negligible	n/a	Negligible
	Primary Education	3 km of Application Site	Medium	Negligible	Negligible	n/a	Negligible
	Secondary Education	5 km of Application Site	Medium	Negligible	Negligible	n/a	Negligible
	Health	5 km of Application Site	Medium	Negligible	Negligible	n/a	Negligible
	Tourism	AOI	Low	Negligible	Negligible	n/a	Negligible
	Energy Security/Reliability	AOI	Medium/High	Beneficial	Moderate-Substantial	n/a	Beneficial, Moderate-Substantial
Chapter 21 Climate Change	GHG emissions from the Facility	Global atmosphere	The assessment approach does not consider the sensitivity of the receptor, which is the global atmosphere.	N/A	Not likely to represent a significant net CO2 emissions contribution	The proposed Facility represents an opportunity to increase renewable energy generation and avoid emissions associated with current 'baseline' operations.	Not significant
	Impact of climate change on the Facility	The vulnerability of the Facility and associated infrastructure to increased flood risk as a result of potential climate change.	The site is considered to have a high sensitivity	Moderate risk	To be addressed at the ES stage		
Chapter 22 Health	To be assessed in the ES.						

Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact	
Impact Assessment							
Chapter 23 Waste Assessment Report	To be assessed in the ES.						
<b>Decommissioning</b>							
Chapter 8 Cultural Heritage	Direct impact to potential buried archaeological remains	66: Prehistoric peat deposits and historic alluvium	High	Negligible negative	Minor adverse	Previous works during construction will have mitigated	Minor adverse
		90: The Haven Mudbanks	High	Negligible negative	Minor adverse	Previous works during construction will have mitigated	Minor adverse
		91: Foreshore remains	High	Negligible negative	Minor adverse	Previous works during construction will have mitigated	Minor adverse
		96: Buried archaeological features	High	Negligible negative	Minor adverse	Previous works during construction will have mitigated	Minor adverse
	Indirect impact upon setting of designated heritage assets	1: Wybert's Castle	High	Minor positive	Minor beneficial	n/a	Minor beneficial
		5: Slippery Gowt Sluice	High	Negligible positive	Negligible beneficial	n/a	Negligible beneficial
		6: Maud Foster Sluice	High	Low positive	Minor beneficial	n/a	Minor beneficial
		7: Parish Church of St Nicholas	High	Low positive	Negligible beneficial	n/a	Negligible beneficial
		26: St Botolph's Church	High	Low positive	Negligible beneficial	n/a	Negligible beneficial
		31: Skirbeck	Medium	Low positive	Negligible	n/a	Negligible

Potential Impact	Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
	Conservation Area			beneficial		beneficial
	33: Wyberton Conservation Area	Medium	Low positive	Negligible beneficial	n/a	Negligible beneficial
	Direct impact upon above ground heritage asset	No impact				
Indirect impact upon setting of recorded non-designated assets	65: The 'Roman Bank'	Medium	Low positive	Minor beneficial	n/a	Minor beneficial
Chapter 9 Landscape and Visual Impact	Impacts will be the same as during construction.					
Chapter 10 Noise and Vibration	No decision has been made regarding the final decommissioning policy for the Facility as it is recognised that industry best practice, rules and legislation change over time. However, the Facility will likely be removed or retro-fitted to continue use. The detail and scope of the decommissioning works will be determined by the relevant legislation and guidance at the time of decommissioning and agreed with the appropriate authority. A decommissioning plan will be provided. As such, for the purposes of a worst case scenario, impacts no greater than those identified for the construction phase are expected for the decommissioning phase					
Chapter 11 Contaminated Land, Land Use and Hydrogeology	It is anticipated that the decommissioning impacts will be similar in nature to those of construction.					
Chapter 12 Terrestrial Ecology	No additional impacts on terrestrial ecology are anticipated during the decommissioning phase than those identified during construction.					
Chapter 13 Surface Water, Flood Risk and Drainage Strategy	It is anticipated that impacts on surface water and flood risk receptors resulting from decommissioning stage activities will be similar in nature to those resulting from construction stage activities.					



Potential Impact		Receptor	Value/ Sensitivity	Magnitude	Significance	Mitigation	Residual Impact
Chapter 14 Air Quality Assessment	Decommissioning phase dust emissions	Human receptors	Dust soiling: low  Human health: low	Large	Assessment methodology does not assign significance before mitigation	Best practice mitigation measures to be detailed within a CEMP	Not significant
Chapter 15 Marine Sediment and Water Quality	No impacts on marine water and sediment quality are anticipated during the decommissioning phase						
Chapter 16 Estuarine Processes	As the wharf structure is not anticipated to be decommissioned therefore decommissioning impacts have not been assessed.						
Chapter 17 Marine and Coastal Ecology	No impacts on marine and coastal ecology are anticipated during the decommissioning phase.						
Chapter 18 Navigational Issues	The outcomes of the NRA will be presented in the ES.						
Chapter 19 Traffic and Transport	<p>Whilst details regarding the decommissioning of the Facility are currently unknown, considering the worst case scenario which would be the removal and reinstatement of the current land use at the site, it is anticipated that the impacts would be no worse than those during construction.</p> <p>It is anticipated that the impacts during decommissioning will be similar in nature to those of construction with reduced traffic generation.</p>						
Chapter 20 Socio-Economics	Impact Summary during decommissioning will be the same as during construction						