

Hornsea Offshore Wind Farm

Project Two

Environmental Statement
Volume 6 – Onshore

Annex 6.5.12 **Effects on Visual Receptors During the Operational Phase**

PINS Document Reference: 7.6.5.12

APFP Regulation 5(2)(a)

November 2014

smartwind.co.uk

SMart Wind Limited

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Document release and authorisation record	
PINS document reference	7.6.5.12
Report Number	UK06-050700-REP-0044
Date	November 2014
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Table of Contents

1	Effects on visual receptors during the operation phase	1
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Table of Tables

Table 1.1	Effects on visual receptors during the operation phase of the landfall and cable route	1
Table 1.2	Effects on visual receptors during the operation phase of the onshore HVDC converter/HVAC substation	7

1 EFFECTS ON VISUAL RECEPTORS DURING THE OPERATION PHASE

1.1.1 The receptors within the different parishes have been grouped together to avoid repetition where possible.

Table 1.1 Effects on visual receptors during the operation phase of the landfall and cable route.

Viewpoint			Visual effects during operation			Significance of effects	
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Marshchapel: Mrsh/18/5 Mrsh/18/1	PRoW	High	The transition joint bays at the landfall will be buried and the land returned to agriculture. However the manholes for the transition pits may be visible.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
North Coates: North Cotes Airfield North Cotes NCoa/18/3 NCoa/18/2 NCoa/21/1 Sea Lane Lock Road / North Cotes Road	Residential PRoW Dynamic	High High Low	The transition joint bay, manhole covers at the landfall may be visible. However, in this parish there are no hedgerows that are crossed and therefore lost.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation			Significance of effects	
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Tetney: Tetney Lock Tetney Tetney (North End) Tetrn/19/1 Tetrn/12/5 Tetrn/343/1 Tetrn/13/4 Tetrn/13/5 Tetrn/12/4 Tetrn/12/3 Tetrn/344/2 Tetrn/344/3 Tetrn/14/4 Tetrn/14/3 Tetrn/14/1 Lock Road / North Cotes Road Tetney Lock Road A1031 (Humberston Road) The Holton Road	Residential PRoW Dynamic	High High Low	Permission would be sought for the removal of sections of Important Hedgerows, and replacement with shrubby species at the Humberston and Holton Roads. This would result in a 20 m to 30 m length of hedgerow for each crossing point that is of a slightly different composition than the rest of the hedgerow. There would be a subtle, barely noticeable change once the hedgerow has established and matured to tie in with adjoining lengths of existing hedgerow. However, in year 1, the change would be prominent due to the small size of nursery stock used and the protective fencing required.	Negligible	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Holton le Clay: Holton le Clay HoLC/5/4 HoLC/4/1 HoLC/10/1 Station Road A16 (Louth Road)	Residential PRoW Dynamic	High High Low	There is a length of Important Hedgerow along the dismantled railway that would be replanted. Permission would be sought for its removal and replacement with shrubby species. This would result in a 20 m to 30 m length of hedgerow that is of a slightly different composition than the rest of the hedgerow. There would be a subtle, barely noticeable change.	Negligible	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Brigsley: Brigsley Norman Corner Footpath 83 Footpath 84 Bridleway 78 Bridleway 49 Bridleway 75 Footpath 79 Footpath 77 (Wanderlust Way) Waithe Lane B1203 (Waltham Road)	Residential PRoW Dynamic	High High Low	There is a section of Important Hedgerow to the east of the A16 which would be crossed by the cable route. There are also Important Hedgerows to either side of the Waltham Road which the cable route would cross. This would result in a 20 m to 30 m length of hedgerow for each crossing point that is of a slightly different composition than the rest of the hedgerow. There would be a subtle, barely noticeable change.	Negligible	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation			Significance of effects	
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Ashby Cum Fenby: Footpath 81 Footpath 85	PRoW	High	There would be no noticeable visual effects over Brigsley footpaths during operation.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Waltham: Waltham (south) Footpath 72 Footpath 71	Residential	High	PRoW 72 skirts the edges of Waltham and walkers using this footpath have filtered views across two fields south towards the cable route. Users of PRoW 71 have more distant views west to the route as it passes into the parish of Bradley.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Barnoldby le Beck: Barnoldby le Beck Waltham (west) Footpath 77 (Wanderlust Way) Bridleway 93 (Wanderlust Way) Waltham Road	Residential PRoW Dynamic	High High Low	The Wanderlust Way (a promoted path) crosses a medium-sized field where walkers have filtered views both north and south. The hedgerows and groups of hedgerow trees screen some views. There are filtered views towards the cable route. The PRoW's route is through the centre of Barnoldby le Beck and at either side it passes through woodland or an area of well-vegetated landscape. As it emerges north from the village, now PRoW 93 (a bridleway) the views west from the path are screened by woodland while views east towards the cable route are open across arable fields with areas of vegetation limited to those associated with individual properties.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Bradley: Bradley Gairs properties Footpath 95 Footpath 93 (Wanderlust Way) Bridleway 165 Bradley Road	Residential PRoW Dynamic	High High Low	There would be no noticeable visual effects over Brigsley footpaths during operation.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation			Significance of effects	
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Laceby: Laceby Footpath 95 Footpath 97 (Wanderlust Way) Footpath 96 Footpath 103 A46 (Grimsby Road)	Residential PRoW Dynamic	High High Low	Within the paddocks adjacent to the sewage works the installation of the cable would necessitate the removal of trees. With the agreement of the landowner, the trees could be replaced by a group of trees in a similar position, but away from the cable route. Other mature hedgerows would be removed and replaced. There would be a subtle, barely noticeable change once the planting begins to mature.	Negligible	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Aylesby: Aylesby Footpath 110 Bridleway 108 Aylesby Road	Residential PRoW Dynamic	High High Low	Once the cable has been installed there will be no visible evidence of the cable, barring the covers of the jointing pits. There would be no noticeable visual effects on Aylesby footpaths during operation.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Riby: Individual properties Wells Road	Residential Dynamic	High Low	There are two sections of Important Hedgerow that would be crossed by the cable route in this parish. This would result in a 20 m to 30 m length of hedgerow for each crossing point that is of a slightly different composition than the rest of the hedgerow. There would be a subtle, barely noticeable change once the planting begins to mature.	Negligible	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Stallingborough: Little London Footpath 30 Footpath 31 Footpath 26 Footpath 24 Bridleway 27 A1173 (Riby Road) Keelby Road	Residential PRoW Dynamic	High High Low	There is a length of Important Hedgerow along North Beck Drain that the cable route crosses. This would be replaced by shrubby species only for a 20 m to 30 m length. The replacement planting would be of a slightly different composition than the rest of the hedgerow. There would be a subtle, barely noticeable change once the planting has re-established itself.	Negligible	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Immingham: Individual properties Footpath 4 Railway	Residential PRoW Dynamic	High High Low	There would be no noticeable visual effects on Immingham footpaths during operation. Views will be unaltered.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation			Significance of effects	
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Habrough: Individual properties A180 B1210 (Immingham/Habrough Road)	Residential Dynamic	High Low	There would be no noticeable visual effects on Habrough individual properties during operation. Views will be unaltered.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
South Killingholme: South Killingholme Footpath 94 Footpath 87 Footpath 88 Footpath 85 Footpath 99 Faulding Lane Habrough Road A160 (Ulceby Road) Top Road	Residential PRoW Dynamic	High High Low	There would be no noticeable visual effects over the South Killingholme footpaths during operation. Views will be unaltered.	Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
North Killingholme: (route to be confirmed ahead of Phase 4 consultation) North Killingholme Footpath 84 Footpath 86 Railway Church Lane/Nicholson Road Chase Hill Road	Residential PRoW Dynamic	High High Low	The vegetation either side of the railway is considered to be an important hedgerow. As the cable is to be drilled under the railway, this vegetation would not be disturbed and views would remain unaltered. The cable routes at the north of the parish would cross an Important Hedgerow associated with Dean Street, a public byway. Views would change immediately after replanting but this would be assimilated over time as the new planting matures.	Negligible	Long term	Southern route: Negligible to Minor Northern route: Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation			Significance of effects	
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
East Halton: (route to be confirmed ahead of Phase 4 consultation) East Halton Footpath 79 Footpath 77	Residential PRoW	High High	The cable route would be drilled under an Important Hedgerow that is contiguous with the East Halton / North Killingholme parish boundary to enter the site.	Negligible	Long term	Northern route: Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Table 1.2 Effects on visual receptors during the operation phase of the onshore HVDC converter/HVAC substation

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Close range visual receptors							
Properties along Brick Lane, East Halton	Residential	High	<p>The western and central sections of Brick Lane are well-vegetated and views of the onshore HVDC converter/HVAC substation would be very restricted. Fairfield House is located at the junction of Brick Lane and Dean Street at the most easterly part of the Brick Lane. Occupiers of this property would have oblique views of the onshore HVDC converter/HVAC substation from the house, but open views from the garden. However, this would be seen in the context of the E.ON and Centrica power stations, as well as the National Grid substation and the Killingholme oil refineries.</p> <p>Should the option that extends the onshore HVDC converter/HVAC substation to the west. It would move the development closer to Fairfield and other properties. However, as it remains in an adjacent field, the views would remain oblique and through a hedge from the house. Open views from the garden would be possible.</p> <p>Residents within the house set back from the road, associated with Baysgarth Farm, would have views of the upper parts of the onshore HVDC converter/HVAC substation. Lower parts would be screened by the strong landscape structure immediately to the south of this farm complex.</p>	Low Medium Low	Long term	Minor to Moderate Moderate to Major Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Properties along Scrub Lane, East Halton	Residential	High	Occupiers of properties to the west would have more restricted views of the onshore HVDC converter/HVAC substation due to other buildings and vegetation. The end properties have more open views, but the mature field boundaries would screen the lower elements of the development.	Low	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Properties along Swinster Lane, East Halton	Residential	High	Garden vegetation and buildings screen most views towards the onshore HVDC converter/HVAC substation. The lower elements are screened by the intervening vegetation. However, the upper parts of the onshore HVDC converter/HVAC substation would be visible from the outer properties.	Low	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Kettlebridge Lane, East Halton	Residential	High	Occupiers of most properties would have very limited views of the roof of the onshore HVDC converter/HVAC substation and the gantries. The end property may have views of more of the building, but the mature vegetation surrounding the lane would provide screening for the lower elements of the proposed building.	Low	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Properties along Lease Lane, East Halton	Residential	High	Residents in most properties would have limited views of the onshore HVDC converter/HVAC substation. Occupiers of the properties at the eastern end of the lane have more open views and would see more of the proposed building. However the well-established hedgerows would provide screening of the lower elements of the building.	Low	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Hall, Townside, East Halton	Community	Medium	Views of the proposed onshore HVDC converter/HVAC substation from inside the hall may be possible, but they would be oblique and filtered through vegetation. From the car park the views would be more open and the top of the new onshore HVDC converter/HVAC substation would be visible. However, lower elements would be screened by buildings and vegetation along Swinster Lane.	Low	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Post Office, Townside, East Halton	Community	Medium	No views of the onshore HVDC converter/HVAC substation will be gained from the Post Office.	No change	Long term	None	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Centrica Power Station	Commercial / industrial	Low	From ground level there will be filtered views of the ground level activities. The upper parts of the building and associated electrical equipment will be clearly visible.	Medium to High	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
E.ON Power Station, Chase Hill Road	Commercial / industrial	Low	Ground floor views from the car park and surrounding access roads will be limited. Views from first floor offices will be uninterrupted. From both locations the upper parts of the building and electrical equipment will be visible. The elevated views gained from the first floor offices will include views of the lower level activities within the proposed site.	Medium to High	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
National Grid Substation	Commercial / industrial	Low	The views from receptors working at the National Grid substation will be of all the operational activity in and around the site. The onshore HVDC converter/HVAC substation building will be seen behind the 'yard' of electrical equipment.	Medium to High	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Industry to the south of Chase Hill Road	Commercial / industrial	Low	The receptors using the car park to the south of Chase Hill Road will have very limited views of the onshore HVDC converter/HVAC substation and associated electrical equipment.	Low	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Humber Sea Terminal	Commercial / industrial	Low	Glimpses of the building and electrical equipment will be gained between the two power stations and substation.	Low	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Footpath 77	PRoW	High	Following construction, walkers would gain views of the onshore HVDC converter/HVAC substation around the existing planting. Where a PRoW lies close to the existing mature hedgerow, views would be limited. However, the onshore HVDC converter/HVAC substation would not be screened from views further from the site.	No Change to Medium	Long term	None to Major	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Footpath 78	PRoW	High	Similar views would be available to those receptors using PRoW 77. However, views are a little less affected than for PRoW 77.	No Change to Medium	Long term	None to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Footpath 79	PRoW	High	Many views from much of the length of this footpath are well-screened. However, as the northern section views are more open, the new onshore HVDC converter/HVAC substation will be visible.	No Change to Medium	Long term	None to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Footpath 86	PRoW	High	As with Footpath 79, much of this footpath is screened from view. The central and eastern sections are more open and the roof and taller pieces of electrical equipment will be available to receptors using the path. The proposed planting will be screened and soften views from this direction. Should the option be chosen that extends the development of the onshore HVDC converter/HVAC substation into the western field, PRoW 86 would be diverted to avoid the onshore HVDC converter/HVAC substation.	No Change to Medium	Long term	None to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
The Black Bull public house, East Halton	Recreation / tourism	Medium	It is unlikely that any views of the onshore HVDC converter/HVAC substation will be seen from this location.	Negligible	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
The Amethyst Hotel, East Halton	Recreation / tourism	Medium	Glimpses of the top of the roof of the onshore HVDC converter/HVAC substation may be possible from this position, but this is considered unlikely.	Negligible	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Townside Road, East Halton	Dynamic	Low	Generally there would only be glimpses of the roof of the onshore HVDC converter/HVAC substation. However, where there are no properties on the eastern side of the road, slightly more open views of the roof and perhaps the upper parts of the onshore HVDC converter/HVAC substation may be possible.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Chase Hill Road	Dynamic	Low	Travelling east from East Halton along this road, receptors would have views of the onshore HVDC converter/HVAC substation. However, this would be seen with the backdrop of the surrounding industrial developments. As the proposed planting establishes the views would soften. The maturing planting within the E.ON site would also screen views from the road.	Negligible to Medium	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Haven Road	Dynamic	Low	Views of the onshore HVDC converter/HVAC substation roof behind the electrical equipment will be possible from along this road. The views of it will be with the two power stations and the National Grid substation as foreground.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
East Field Road	Dynamic	Low	Views of the onshore HVDC converter/HVAC substation will be possible as receptors approach the junction with Chase Hill Road. The building will be seen behind the EON planting. The electrical equipment will be seen on the eastern side of the building. The proposed planting will help to soften the outline of the building as it matures.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Medium range visual receptors							
Properties on East Halton Road	Residential	High	Filtered views of the uppermost parts of onshore HVDC converter/HVAC substation will be possible from some of the properties at the east side of the East Halton Road, surrounding vegetation allowing houses on the west side of the road will have more restricted views.	Low	Long term	Minor to Moderate	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Properties on Church Road / Nicholson Road	Residential	High	Oblique views of part of the converter station roof may be possible from some of the easternmost properties, but only when vegetation allows.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Properties in the north of East Halton	Residential	High	Houses to the north of East Halton will experience little change in views. It is possible that the roof of the onshore HVDC converter/HVAC substation may be visible from this location, but views will be very limited.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Individual properties on Skitter Road	Residential	High	As with properties to the north of East Halton, these houses are situated to the north of the onshore HVDC converter/HVAC substation site. The properties have a good amount of vegetation surrounding them and views of the onshore HVDC converter/HVAC substation will be very limited.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
St. Peter's Church, East Halton	Community	Medium	It is unlikely that receptors at the church will have views of the onshore HVDC converter/HVAC substation, due to the screening provided within the churchyard.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Methodist Church, East Halton	Community	Medium	It is possible, but considered unlikely, that receptors using the church will have views of the onshore HVDC converter/HVAC substation.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
East Halton Village Green	Community	Medium	It is considered unlikely that people using the village green would have any views of the onshore HVDC converter/HVAC substation once it is constructed.	Negligible	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Industrial areas of Killingholme and North Killingholme Airfield	Commercial / industrial	Low	There would be no/few views of the onshore HVDC converter/HVAC substation from these locations.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Footpath 74	PRoW	High	Views of the operational onshore HVDC converter/HVAC substation would vary. People walking along the central section (immediately to the north of the railway line) would have no views at all. To the southwest of the railway, receptors would experience views filtered by intervening vegetation, as would receptors on the western section of the PRoW. Views would be open. However, the new building would be seen in the context of the other industrial development in the area.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Footpath along the sea defences	PRoW	High	Views will vary along the length of this footpath. Open views will be available to receptors using it. However, the onshore HVDC converter/HVAC substation will be seen in the context of the industrial development that is adjacent to it. This development includes elements that will be significantly taller than it.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Marsh Lane Fishing Ponds	Recreation	Medium	Filtered views of the onshore HVDC converter/HVAC substation will be possible from this location.	No Change to Low	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Thornton Abbey	Recreation	High	Filtered views of the onshore HVDC converter/HVAC substation might be possible from within the Abbey grounds. However, at this distance, the height of the proposed building means that most views are screened by intervening vegetation and buildings (see Viewpoint 39, Figure 5.45).	Negligible	Long term	Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Passengers on ferries	Dynamic	Low	Once constructed, it will be hard to distinguish the onshore HVDC converter/HVAC substation from the other industry at Killingholme/East Halton.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
College Road and Crook Mill Road	Dynamic	Low	Once constructed, it will be difficult to distinguish between existing industrial development and the proposed building from these westerly receptors.	Negligible	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Marsh Lane	Dynamic	Low	The operational onshore HVDC converter/HVAC substation will be seen from Marsh Lane (located to the north of East Halton). There are open views of the building which will be seen in the context of the surrounding industrial development. The proposed planting will soften the outline of the building over time, and the substation It does not look out of place from this direction (Viewpoint 40, Figure 5.46).	Low	Long term	Negligible to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Marine vessels	Dynamic	Low	Once constructed it will be hard to distinguish the new onshore HVDC converter/HVAC substation building from the surrounding industrial development.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Long range visual receptors							
Public Rights of Way within East Riding of Yorkshire	PRoW	High	Once constructed it will be hard to distinguish the new onshore HVDC converter/HVAC substation from the surrounding industrial development (see Viewpoint 29, Figure 5.35 and Viewpoint 30, Figure 5.36).	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Trans Pennine Way	PRoW	High	Once the onshore HVDC converter/HVAC substation is operational it would not be possible to identify it from these distant receptors.	No Change	Long term	None	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Sustrans Cycle Route 66	PRoW	High	Once the onshore HVDC converter/HVAC substation is operational it would not be possible to identify it from these distant receptors.	No Change	Long term	None	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Sustrans Cycle Route 1	PRoW	High	Once the onshore HVDC converter/HVAC substation is operational it would not be possible to identify it from these distant receptors.	No Change	Long term	None	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Viking Way (European Long Distance Route E2)	PRoW	High	Once the onshore HVDC converter/HVAC substation is operational it would not be possible to identify it from these distant receptors.	No Change	Long term	None	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Parks within Kingston-upon-Hull	Recreation / tourism	Medium	There are no views of the onshore HVDC converter/HVAC substation from the Registered Parks and Gardens in Kingston-Upon-Hull	No Change	Long term	None	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Brocklesby Park	Recreation / tourism	High	Any views would be restricted by distance and vegetation. People would experience a negligible change in views of the onshore HVDC converter/HVAC substation during the operational phase.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.

Viewpoint			Visual effects during operation				
Viewpoint location	Viewpoint type	Sensitivity	Description of visual effects	Magnitude	Duration	Daytime	Night time
Lincolnshire Wolds AONB	Recreation / tourism	High	Views from the Lincolnshire Wolds are more distant again from the onshore HVDC converter/HVAC substation site. The building cannot be identified at this distance (see Viewpoint 38, Figure 5.44).	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
A180	Dynamic	Low	Any views would be restricted by distance and vegetation. There would be a negligible change in views from the boundaries of the A180 during the operational phase of the onshore HVDC converter/HVAC substation.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Marine vessels	Dynamic	Low	From this distance it is very unlikely that receptors would be able to identify the onshore HVDC converter/HVAC substation, once it is built.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.
Railways	Dynamic	Low	From this distance it is very unlikely that receptors will be able to identify the onshore HVDC converter/HVAC substation.	No Change to Negligible	Long term	None to Minor	Site lighting during operation will only operate when required and will be directional to avoid unnecessary illumination.