



Vattenfall Wind Power Ltd

Thanet Extension Offshore Wind Farm

**Annex 7-3: Scope of assessment of effects
arising through change to setting of onshore
heritage assets**

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Vattenfall Wind Power Ltd

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Technical note:

Thanet Extension Offshore Wind Farm: Scope of assessment of effects arising through change to setting of onshore heritage assets

1. Introduction

This technical note is intended to set out the initial scope of assessment of effects arising through change to setting of onshore heritage assets arising from the construction and operation of the Thanet Extension Offshore Wind Farm (TEOWF), its associated substation and cabling. This approach is in accordance with Step 1 of the 5-step process set out in Historic England guidance¹ and draws on the scoping report and subsequent scoping log as discussed at the initial evidence plan meeting (27/02/17) per the agreed minutes circulated subsequently. This scope was developed through an appraisal of heritage assets undertaken in line with the technical note issued in April 2017² which set out the generic criteria by which heritage assets would be selected for assessment, and responds to comments from consultees on those criteria.

2. Criteria for selection of heritage assets

Designated or identified non-designated heritage assets to be assessed as part of the assessment of indirect effects on onshore heritage assets have been selected on the basis of the criteria set out at Table 2.1. This includes a number of heritage assets subject to a reasonable and specific request for inclusion within the scope by a prescribed consultee.

There is a potential that designated heritage assets may be affected by more than one element of the proposed development. In these cases, assessment will be made of the inter-related effects of all relevant elements of the proposed development.

Table 2.1 Criteria for selection of heritage assets

Offshore Turbines	Onshore substation	Onshore cabling
Located within 45km of the proposed turbines.	Located within 5km of the substation.	Located within 1km of the selected cable route.
Having a relationship with the sea which relies on designed visibility towards the proposed windfarm extension (in views either of or from the asset).	Deriving significance from longer views into the landscape in an area where the proposed substation would be visible	Be sensitive to short-term and temporary change in setting.

¹ Historic England 2015, *Good Practice Advice Note 3: The Setting of Heritage Assets*.

² Technical note: *Thanet Extension Offshore Windfarm Project: Criteria for Selection of Onshore Heritage Assets to be Assessed*, Amec Foster Wheeler ref. 39080-GGos004, April 2017



Offshore Turbines	Onshore substation	Onshore cabling
Having an associative or historic relationship with the sea which could be affected by perceptibility of the proposed wind farm extension.	Having, or being located within, views towards the proposed substation.	Deriving significance as part of a wider landscape in which the proposed cabling works would be visible.
<p>If the heritage asset does not have a direct relationship to the sea, it could be affected where it:</p> <ul style="list-style-type: none">• is located within the Zone of Theoretical Visibility (ZTV);• derives significance from longer views into the landscape in an area where the proposed turbines would be visible;• has, or is within, views of the sea in which the proposed wind farm extension would be visible; and/or• derives significance from the experience of the asset in which the proposed turbines would be readily perceptible		Having, or being located within, designed or fortuitous views towards the proposed cabling.

3. Appraisal Methodology

The appraisal was undertaken as a primarily desk-based exercise, although it was informed by a series of site visits undertaken in March 2017.

Designated heritage assets were identified through the use of the Historic England spatial datasets and conservation area mapping published online by Thanet District Council, Dover District Council, Canterbury City Council and Swale District Council. Non-designated heritage assets were identified through consultation discussions with Kent County Council, reference to the Kent HER and during discussion at the recent LVIA/cultural heritage workshop as per the agreed minutes (27 March 2017).

Individual heritage assets or groups of heritage assets were considered against the criteria, with those meeting the criteria for design or historic association with the sea, or location and landscape context for the substation and cabling being considered in terms of potential visibility of the proposed turbines.

Mapping of designated heritage assets was overlain on the calculated ZTV of the proposed turbines and the proposed substation to inform this consideration. The ZTV provides a 'worst case' of the potential visibility, as it excludes vegetation and buildings, and consequently professional judgement, informed by site visits and reference to Ordnance survey mapping and Google Earth aerial and satellite imagery was made to allow an informed decision on the potential effects of the proposed development.

Where there was doubt over the potential for an effect, a precautionary approach was adopted and the relevant heritage assets were included within the scope of assessment.

4. Results of the Appraisal

The majority of designated heritage assets to be assessed are located within Thanet, and primarily comprise listed buildings and conservation areas within the towns of Margate, Broadstairs and Ramsgate, although assets as far south as Dover Castle and as far west as Reculver have been identified as potentially subject to adverse effects.

Potential effects of the proposed substation are more limited, and the principal heritage assets which may be affected include the scheduled Roman Fort and associated remains at Richborough and the late-Iron Age or Early Roman enclosure at Weatherlees Hill.

The fall-off in visibility along the coast south and west of South Foreland meant that no assets were identified as potentially affected beyond Dover Castle. While the ZTV indicated theoretical visibility along the coast as

far as Sheppey, visibility of the proposed turbines in views of and from designated heritage assets in this area was generally limited by intervening topography, planting and buildings. Combined with the diminishing prominence of turbines in very distant views, this meant that no heritage assets along the north coast of Kent were identified to the west of Reculver.

5. Scope of Assessment

It is proposed that the heritage assets identified below will be considered within the PEI. These assets have been selected on the basis of the criteria set out above following a desk-based appraisal and site visits to the study area. Where heritage assets have been grouped together, baseline information and discussion of setting will consider these assets as a group to avoid repetition, but assessment will be made of individual heritage assets where an effect of greater than negligible magnitude is predicted.

- ▶ Dover Castle (SM 1019075, LB I 1070326) – This asset is approximately 35km from the nearest proposed turbine, and is included as the result of a request by Dover District Council (DDC) regarding potential visibility of the proposed turbines in views from the roof of castle, which is a popular viewpoint. Views to sea contribute to the historical association of castle with coastal defence during recent wars, making it particularly sensitive.
- ▶ South Foreland Lighthouse (LB II 1101512) – This asset is approximately 32km from the nearest proposed turbine and is included as the result of a request by DDC regarding potential views of turbines in views at ground level from around the asset, and in views from the upper floors of the asset. The designed and functional connection of the asset with the sea means that sea views contribute to these historical associations.
- ▶ Dover Patrol Memorial (LB II* 1101512) – This asset is approximately 30km from the nearest proposed turbine and is included as a result of a request by DDC regarding views of potential turbines in views of and from the asset. This asset was designed to exploit sea views to the English Channel to emphasise its historical associations with coastal defence.
- ▶ Artillery Castle at Walmer (SM 1013381) – This asset is approximately 25km for the nearest proposed turbine and is included because the proposed turbines may be visible in views to sea which the castle was designed to exploit, and which contribute to its historical association with coastal defence.
- ▶ Walmer Seafront Conservation Area – This asset is approximately 23km from the nearest proposed turbine and is included because the proposed turbines may be visible in long views to sea which contribute to the character of the conservation area and the historical associations of the settlement. Individual listed buildings within Walmer will not be affected, as these would not have views towards the proposed turbines.
- ▶ Deal Middle Street conservation area, associated listed buildings and Artillery Castle at Deal (SM 1013380) – These assets are approximately 22km from the nearest proposed turbine and are included because the proposed turbines may be visible in long views to sea which contribute to the character of the conservation area and the historical associations of the settlement, as well as views which contribute to the significance of individual heritage assets located along the seafront. The listed buildings away from the seafront, which would not have views of the proposed turbines would not be affected and will not be considered further.
- ▶ Sandown Castle (SM 1005147) – This asset is approximately 21km from the nearest proposed turbine and is included because the proposed turbines may be visible in views to sea, from the asset and in which the asset would be visible, which contribute to the historical interest of the asset as a coastal defence.
- ▶ Listed Buildings at Sandwich Bay Estate (LB II 1247891, 1247859, 1263914, 1263915, 1263942) – these buildings are approximately 20km from the nearest proposed turbines, and are included as they were designed to reflect the general proximity of the sea and it is possible that distant views to the proposed turbines could give rise to an adverse effect.

- ▶ Church of St Peter, Sandwich (LB I 1343813) – This asset is approximately 21km from the nearest proposed turbine and is included as the result of a request from DDC regarding visibility of the proposed turbines and substation in views from the viewing platform at the top of the tower of the church, which is a popular local viewpoint with panoramic views.
- ▶ A Saxon Shore fort, Roman port and associated remains at Richborough (popularly Richborough Castle: SM 1014642, LB I 1363256). This asset is approximately 21km from the nearest proposed turbine, and within 2km of the proposed substation site. It has been included primarily because of the potential change to setting arising from the construction of the proposed substation, although the ZTV predicts theoretical visibility of turbines which could contribute to an effect.
- ▶ Late Iron Age/Romano-British site, Weatherlees Hill, Minster (Non-designated heritage asset MKE 15319) – This asset within 1km of the proposed substation site and is included as a result of a request by Kent County Council. It is considered to be of equivalent significance to a scheduled monument, and has visual and functional associations with the designated remains at Richborough Castle. The ZTV predicts theoretical visibility to the proposed turbines from the asset, but this is likely to be precluded by intervening planting and buildings.
- ▶ The Abbot's Wall (non-designated heritage asset MKE 76083) – this asset is a medieval floodbank, surviving as an earthwork bank running along the north side of the Stour between Gore Street and Minster and is included as a result of a request by Kent County Council. It is, at its closest, approximately 900m from the proposed substation options area. There could be visibility of the proposed substation in views from the Abbot's Wall as the viewer approaches Richborough from the west.
- ▶ The Wantsum Channel – this asset is a historic landscape formed by the gradual silting and reclamation of the former sea channel between Thanet and the Kent mainland. It is visible as a large area of low-lying land running from Reculver on the north coast of Kent to Pegwell Bay on the east coast. This asset is included as a result of a request by Kent County Council. The proposed substation options area and at least some of the proposed cable route would be located within this landscape, and the proposed turbines may be visible from either end of the channel at north and south.
- ▶ Anti-tank pimples and cylinders and pillbox at Pegwell Bay (LB II 1413803) – This asset is approximately 18km from the nearest proposed turbine, and is adjacent to a possible cabling route. It has a clear thematic and designed relationship with the sea. Visibility of turbines is theoretically possible, but is likely to be precluded by buildings at Ramsgate.
- ▶ Ramsgate conservation area and associated listed buildings – these assets are approximately 12km from the nearest proposed turbine and are included because sea views, in which turbines may become visible, contribute to the character of the conservation area and the historic links of the settlement and individual structures to the sea. Visibility of turbines is likely to be precluded in views from south of the marina and within the town, and assessment is proposed of the conservation area and listed buildings either on the harbour or and on the sea front to the north of the marina.
- ▶ Seven Stones House (LB II 1390592) – this asset is approximately 11km from the nearest proposed turbine and has been included as it was designed to enjoy sea views in which turbines may be visible.
- ▶ Anglo-Saxon cemetery, Dane Valley Road (SM 1003601), Double ring ditch and two enclosures 400yds (360m) NW of Danes Court (SM 1004230) – these assets are approximately 11km from the nearest proposed turbine and have been included as the proposed turbines may be visible in extensive views from these assets, which are thought to have contributed to their siting.
- ▶ Broadstairs conservation area and associated listed buildings – These assets are approximately 10km from the nearest proposed turbine, and have been included because sea views, in which turbines may become visible, contribute to the character of the conservation area and the historic links of the settlement and individual structures to the sea. Visibility of turbines is likely

to be precluded in views from within the town, and assessment is proposed of the conservation area and listed buildings on the sea front.

- ▶ North Foreland lighthouse (LB II 1222802) – This asset is approximately 9km from the nearest proposed turbine and has been included because turbines may be visible in views of or from the asset which contribute to the designed and historical associations with the sea.
- ▶ Kingsgate conservation area and associated listed buildings – These assets are approximately 8km from the nearest proposed turbine, and have been included because sea views, in which turbines may become visible, contribute to the character of the conservation area and the historic links of individual listed buildings, particularly Kingsgate Castle, The Captain Digby Inn and Holland End, to the sea.
- ▶ Clifftop conservation area and associated listed buildings – these assets are approximately 9km from the nearest proposed turbine, and have been included because sea views, in which turbines may become visible, contribute to the character of the conservation area and the historic interest of individual listed buildings.
- ▶ Margate conservation areas and associated listed buildings – these assets are approximately 10km from the nearest proposed turbine, and have been included because sea views, in which turbines may become visible, contribute to the character of the conservation area and the historic interest of individual listed buildings. The majority of the conservation area is outwith the ZTV or views to the proposed turbines would be screened by intervening buildings, and views are likely to be possible only from the north-eastern extent of the conservation area. Assessment is therefore only proposed of the conservation area and listed buildings on Cliff Terrace and Fort Promenade.
- ▶ Margate Seafront conservation area – this asset is approximately 11km from the nearest proposed turbine and has been included because sea views, in which turbines may become visible, contribute to the character of the conservation area. Views of the proposed turbines from listed buildings within this conservation area would be precluded by intervening buildings and topography and further assessment of these assets will not be undertaken.
- ▶ The Royal Sea Bathing Hospital (LB II 1088987) – this asset is approximately 12km from the nearest proposed turbine and has been included because the proposed turbines may become visible in juxtaposition with the asset in views along the seafront from the west which contribute to the architectural and historic interests of the asset.
- ▶ Westgate on Sea conservation area – this asset is approximately 14km from the nearest proposed turbine and has been included because sea views, in which turbines may become visible, contribute to the character of the conservation area and the historic interest of individual listed buildings. Views of the proposed turbines from listed buildings within this conservation area would be precluded by intervening buildings and topography and further assessment of these assets will not be undertaken.
- ▶ Reculver Saxon Shore Fort, Anglo-Saxon Monastery and associated remains (SM 1018784) – this asset is approximately 23km from the nearest proposed turbine location, and has been included because turbines may become visible in views east from the asset along the approaches to the Thames Estuary. These views contribute to the historical and architectural interest of the asset.

Heritage assets not specifically identified above would not be affected by the proposed scheme and that further assessment will not be undertaken.



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