

# Norfolk Vanguard Offshore Wind Farm

# Consultation Report

## Appendix 25.11 Cumulative Impact Assessment Outgoing Documents Post-S42

Applicant: Norfolk Vanguard Limited  
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*Photo: Kentish Flats Offshore Wind Farm*



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## Note / Memo

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To: Norfolk County Council  
From: Ruth Henderson  
Date: 15 March 2018  
Copy: Norfolk Vanguard Project Team  
Our reference: PB4476.003.043  
Classification:

**Subject: Norfolk Vanguard Offshore Wind Farm: Onshore Cumulative Impact Assessment - Projects for consideration**

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## 1 Purpose of this note

The note provides an update to Norfolk County Council with regards to the ongoing onshore Cumulative Impact Assessment (CIA) for Norfolk Vanguard Offshore Wind Farm, further to the information provided in the Norfolk Vanguard Preliminary Environmental Information Report (PEIR) (October 2017). As the project progresses from the PEIR to the Environmental Statement (ES), a key consideration in the Environmental Impact Assessment (EIA) is the consideration of how the construction and operation of Norfolk Vanguard interacts with other projects in the area, either temporally or spatially.

This note provides an update to the approach and methodology for the CIA since the PEIR, and how the project has defined the long list of projects to consider in the CIA. It concludes by asking for any feedback or comments, particularly any additions where appropriate, on this long list from Norfolk County Council. Comments from Norfolk County Council are requested by the **27<sup>th</sup> March 2018** in order to ensure that the project can use this information within the CIA for the final ES (due for submission in June 2018.)

## 2 Norfolk Vanguard onshore CIA methodology

The methodology for the CIA was outlined within the Norfolk Vanguard PEIR (October, 2017) in Chapter 6 Environmental Impact Assessment Methodology, which describes how the assessment will be taken forward in the ES, looking at both key guidance and in consultation with stakeholders.

The Planning Inspectorate Advice Note Nine and its complementary guidance in Advice Note 17 provide guidance on plans and projects that should be considered in the CIA including:

- Projects that are under construction;
- Permitted applications, not yet implemented;
- Submitted applications not yet determined;
- Projects on the Planning Inspectorate's Programme of Projects;
- Development identified in relevant Development Plans, with weight being given as they move closer to adoption and recognising that much information on any relevant proposals will be limited; and
- Sites identified in other policy documents as development reasonably likely to come forward.

Only projects which are reasonably well described and sufficiently advanced to provide information on which to base a meaningful and robust assessment have been included in the CIA. Projects which are sufficiently implemented during the site characterisation for the project are considered as part of the baseline for the EIA.

Vattenfall Wind Power Ltd. (VWPL) submitted the request for a Scoping Opinion for Norfolk Boreas, the sister project to Norfolk Vanguard, on 9th May 2017; therefore this project is a material consideration in the CIA for Norfolk Vanguard.

Onshore plans or projects to be taken into consideration include (but are not limited to):

- Other offshore wind farm infrastructure;
- Other energy generation infrastructure;
- Building/housing developments;
- Installation or upgrade of roads;
- Installation or upgrade of cables and pipelines;
- Coastal protection works; and
- National Grid works.

### **3 Updates to the projects, activities and plans - long list for consideration**

The full list of plans, activities or projects to be included in the CIA has been developed as part of on-going consultation with technical consultees as part of the Evidence Plan Process.

The key aim of the onshore CIA for Norfolk Vanguard is to assess whether impacts on a receptor may occur on a cumulative basis between Norfolk Vanguard and other projects, activities and plans (either consented or forthcoming) in the onshore study area. Some key projects were outlined and assessed within the PEIR for Norfolk

Vanguard in October 2017, however subsequent to this, the project has been further developing this list and the results can be found in **Table 1**. Section 3.1 outlines the data sources and criteria used.

### 3.1 Data Sources and Criteria

The data sources used to research the potential for interactions with other projects, activities and plans in the area are given below, along with the criteria used to search:

- National Infrastructure Planning (Planning Inspectorate)  
(<https://infrastructure.planninginspectorate.gov.uk/projects/register-of-applications/>)
  - Searched all applications
- Norfolk County Council (<http://eplanning.norfolk.gov.uk/>)
  - Searched all planning applications
  - Searched over a 1 year period of decision date
- Breckland District Council  
(<http://planning.breckland.gov.uk/OcellaWeb/planningSearch>)
  - Searched all planning applications
  - Searched over a 1 year period of decision date
  - Searched parishes within 5km of the onshore works
- North Norfolk District Council (<https://idoxpa.north-norfolk.gov.uk/online-applications/search.do?action=advanced>)
  - Searched over a 1 year period of decision date
  - Searched by Ward, selecting only those within 5km
- Broadland District Council  
(<https://secure.broadland.gov.uk/Northgate/PlanningExplorer/GeneralSearch.aspx>)
  - Searched over a 1 year period of decision date
  - Searched by Ward, selecting only those within 5km

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**Table 1: Long list of projects to be taken forward into CIA for Norfolk Vanguard**

Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
<b>National Infrastructure Planning</b>					
Hornsea Project Three Offshore Wind Farm	Pre-application (PEI): Development of the Hornsea Project Three offshore wind farm with an approximate capacity of up to 2,400MW off the coast of Norfolk. The Hornsea Three onshore export cable route (ECR) corridor is approximately 55km in length. The landfall point is close to Weybourne along the North Norfolk coast. The cables will be installed within an onshore ECR corridor, with an expected width of 80m. The exact onshore ECR corridor will be finalised prior to the EIA being completed once the landfall location is known. The onshore ECR corridor will overlap the Norfolk Vanguard onshore corridor route around Reepham. The application is expected to be submitted to the Planning Inspectorate Q2 2018.	2021	0km	Scoping Report: <a href="https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010080/EN010080-000065-Scoping%20Report.pdf">https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010080/EN010080-000065-Scoping%20Report.pdf</a>  PEIR: <a href="http://hornseaproject3.co.uk/Documents-library/PEIR-Documents">http://hornseaproject3.co.uk/Documents-library/PEIR-Documents</a>	<b>Yes</b>



Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
Dudgeon OWF	Constructed	Constructed	Enabling works at National Grid site adjacent to Dudgeon substation	<a href="http://dudgeonoffshorewind.co.uk/">http://dudgeonoffshorewind.co.uk/</a>	<b>Yes - from an operational point of view</b>
A47 corridor improvement programme	Highways England has proposed six improvement schemes for the A47 as part of the Roads Investment Strategy announced in 2014. The schemes have been identified as congestion hotspots and significant growth has been predicted in the areas which the proposed improvements will help to support. Three of the six schemes that could potentially impact on the project include: <ul style="list-style-type: none"> <li>• North Tuddenham to Eastern dualling;</li> <li>• A47 / A11 Thickthorn Junction; and</li> <li>• A47 Blofield to North Burlingham dualling. The A47 corridor improvement programme is classed as a Nationally Significant Infrastructure Project (NSIP) and would be required to make a Development Consent Order (DCO) application. Current timescales estimate that the DCO will be submitted in Summer 2018,</li> </ul>	Construction will be sequenced to manage disruption along the route for highways users. Construction will start as follows: <ul style="list-style-type: none"> <li>• A47 North Tuddenham to Easton: start of works 2021-2022</li> <li>• A47/A11 Thickthorn ( 3-6 month delay/ start of works 2020-2021)</li> <li>• A47 Blofield to North Burlingham dualling : start of works 2021-2022</li> </ul>	<ul style="list-style-type: none"> <li>• North Tuddenham to Eastern dualling; (approx. 2.5km at closest point)</li> <li>• A47 / A11 Thickthorn Junction; (approx. 18km at closest point)</li> <li>• A47 Blofield to North Burlingham dualling; (approx. 23km at closest point)</li> </ul>	<p><b>A47 North Tuddenham to Easton</b>  <a href="https://infrastructure.planninginspectorate.gov.uk/projects/eastern/a47-north-tuddenham-to-easton/">https://infrastructure.planninginspectorate.gov.uk/projects/eastern/a47-north-tuddenham-to-easton/</a></p> <p><b>A47/A11 Thickthorn</b>  <a href="https://infrastructure.planninginspectorate.gov.uk/projects/eastern/a47a11-thickthorn-junction/">https://infrastructure.planninginspectorate.gov.uk/projects/eastern/a47a11-thickthorn-junction/</a></p> <p><b>A47 Blofield to North Burlingham</b>  <a href="https://infrastructure.planninginspectorate.gov.uk/projects/eastern/a47-blofield-to-north-burlingham/">https://infrastructure.planninginspectorate.gov.uk/projects/eastern/a47-blofield-to-north-burlingham/</a></p>	<p><b>Yes - A47 North Tuddenham to Easton</b> - The application is expected to be submitted to the Planning Inspectorate Q4 2018. After receipt of the application, there will be 28 days to review the application and decide whether or not to accept it.</p> <p>A47/A11 Thickthorn - The application is expected to be submitted to the Planning Inspectorate Q4 2018. After receipt of the application, there will be 28 days to review the application and decide whether or not to accept it.</p> <p>A47 Blofield to North Burlingham - The application is expected to be submitted to the Planning Inspectorate Q4 2018. After receipt of the application, there will be 28 days to review the application and decide whether or not to accept it.</p>



Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
	with construction commencing in Spring 2020.				
Norfolk Boreas	Offshore Wind Farm (Power Station) and associated infrastructure required to export the electricity to the National Grid substation at Necton in Norfolk. Maximum capacity 1.8GW	Pre-application	0km	<a href="https://corporate.vattenfall.co.uk/norfolk-boreas">https://corporate.vattenfall.co.uk/norfolk-boreas</a> <a href="https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-one-offshore-windfarm/?ipcsection=docs">https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-one-offshore-windfarm/?ipcsection=docs</a>	Yes
Norfolk County Council					
				-	All of the projects or plans under the remit of Norfolk County Council (identified using the criteria discussed earlier in this note), have subsequently been screened out of the CIA for Norfolk Vanguard. This is due to the project or plan either having already been constructed, or considered that no interaction on a temporal or spatial basis will occur with Norfolk Vanguard.
North Norfolk District Council					

Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
Major dwelling (PF/17/1951)	Erection of 43 dwellings and new access with associated landscaping, highways and external works, and amendments to substation.	Application received 22/11/2017 Awaiting decision	0.7km	<a href="https://idoxpa.north-norfolk.gov.uk/online-applications/applicationDetails.do?activeTab=summary&amp;keyVal= NNORF_DCAP_R_92323">https://idoxpa.north-norfolk.gov.uk/online-applications/applicationDetails.do?activeTab=summary&amp;keyVal= NNORF_DCAP_R_92323</a>	The planning documents do not indicate when this development will be built 'if' it receives planning permission.  Currently screened in and awaiting further information
Bacton Gas Terminal extension	Erection of extensions to processing plant building external plant. Application is for the infill of 2 existing external areas (1 at the front of the building and 1 at the rear) between existing external walls with new construction to form a new reception/lobby area to the Entrance and a new lobby area to connect existing areas, forming 2 new offices and relocating the existing changing room. Installation of new plant to the rear of the building (in the vicinity of Area 2) to provide both fresh air and condition air to the internal offices.	Approved on 20/09/2016. Development must begin within 3 years.	2.5km	<a href="#">Click here</a>	No further information currently  Currently screened in and awaiting further information

Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
Bacton Gas Terminal coastal protection	Construction of a temporary erosion protection structure on the beach, at the base of the cliff along the Shell terminal frontage. The temporary structure is a 2m high stone or sand filled gabion structure with a stone filled gabion mattress foundation.	Approved on 18/11/2016. Expires 18/11/2019	2km	<a href="#">Click here</a>	No further information currently  Currently screened in and awaiting further information
Bacton Coastal Protection Scheme	Large scale sand nourishment scheme in front of Bacton Gas Terminal to protect the terminal and nearby villages from coastal erosion. Combined scheme with North Norfolk District Council requiring between 1.7m <sup>3</sup> to 3.3m <sup>3</sup> . Potential for replenishment to be required up to circa every 5 years.	2018	2km	<a href="http://www.edp24.co.uk/news/environment/huge_amount_of_sand_could_be_dumped_on_north_norfolk_beach_to_protect_bacton_gas_terminal_14443334">http://www.edp24.co.uk/news/environment/huge_amount_of_sand_could_be_dumped_on_north_norfolk_beach_to_protect_bacton_gas_terminal_14443334</a>	Yes
Breckland District Council					
BLR/2017/0001/PIP	The net number of dwellings which the Council considers the land is capable of supporting is between 21 and 31 (Permission principle).	Application received 30/11/2017  Awaiting decision	1.0km	<a href="http://planning.breckland.gov.uk/OcellaWeb/showDocuments?reference=BLR/2017/0001/PIP&amp;module=planning">http://planning.breckland.gov.uk/OcellaWeb/showDocuments?reference=BLR/2017/0001/PIP&amp;module=planning</a>	Area of land identified in Necton, on the Old Diner site to be included in the Brownfield register.  Currently screened in and awaiting further information
BLR/2017/0002/PIP	The net number of dwellings which the Council considers the land is capable of supporting is between 4 and 8 (Permission principle).	Application received 30/11/2017 Awaiting decision	1.0km	<a href="http://planning.breckland.gov.uk/OcellaWeb/showDocuments?reference=BLR/2017/0002/PIP&amp;module=planning">http://planning.breckland.gov.uk/OcellaWeb/showDocuments?reference=BLR/2017/0002/PIP&amp;module=planning</a>	Area of land identified on the old infant school site, Necton.  Currently screened in and awaiting further information

Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
3PL/2012/0576/O	Outline Planning Application for the erection of 250 dwellings at the Swans Nest site access from Brandon Road, to be built in phases  (Respective applications detailed below)	Approved 08/04/14.	1.5km	<a href="http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2012/0576/O&amp;from=planningSearch">http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2012/0576/O&amp;from=planningSearch</a>	Yes - See phases below
3PL/2014/0359/D	<b>Phase 1</b> of 3PL/2012/0576/O comprising of 82 dwellings on part of the overall site. Access to include one of the previously approved vehicle access points with two pedestrian and cycle access points. Appearance layout and scale all as shown on the application documents together with the principals of the landscaping scheme. Detailed planting layout to be subject to condition.	Approved 08/08/14 (reserved matters)  Half of the consented 82 dwellings had been built and sold in Jan 2016. Some homes under Phase 1 may still be under construction.	1.5km	<a href="http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2014/0359/D&amp;from=planningSearch">http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2014/0359/D&amp;from=planningSearch</a>	No - phase 1 nearly completed
3PL/2016/0298/D	<b>Phase 2</b> of 3PL/2012/0576/O comprising the erection of 70 dwellings	Approved 21/09/16 (reserved matters)	1.5km	<a href="http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2016/0298/D&amp;from=planningSearch">http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2016/0298/D&amp;from=planningSearch</a>	Yes
3PL/2017/1351/F	<b>Phase 3</b> of 3PL/2012/0576/O comprising the erection of 98 dwellings at Swans Nest with	Application received 20/10/17.	1.5km	<a href="http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2017/1351/F&amp;from=planningSearch">http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2017/1351/F&amp;from=planningSearch</a>	Yes

Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
	access from Brandon Road	Awaiting decision It was originally the intention for Phase 3 to be submitted as a Reserved Matters Application, but given the expiration of time on the Outline Permission, this is not possible; hence a Full Application is sought.		<a href="#">017/1351/F&amp;from=planningSearch</a>	
3PL/2016/0068/O	Outline Planning Application for up to 175 dwellings including affordable housing and open space and the detailed means of access at land to the west of Watton Road, Swaffham (known as Swan's Nest Phase B)	Application received 22/01/16  Awaiting decision (although portal states that decision due by 13/10/17)	1.5km	<a href="http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2016/0068/O">http://planning.breckland.gov.uk/OcellaWeb/planningDetails?reference=3PL/2016/0068/O</a>	Yes
Broadland District Council					
					All of the projects or plans under the remit of Broadland District Council (identified using the criteria discussed earlier in this note), have

Project Name	Description	Expected Construction Date	Approximate distance from Project to NV Onshore works	Website address	Include in long list for Norfolk Vanguard CIA?
					subsequently been screened out of the CIA for Norfolk Vanguard. This is due to the project or plan either having already been constructed, or considered that no interaction on a temporal or spatial basis will occur with Norfolk Vanguard.

## Cumulative Impacts- Socioeconomic Assessment

It should also be noted that for the socioeconomic assessment for Norfolk Vanguard (**Chapter 31 Socio-economics**), a separate suite of projects have been included within the CIA section, which looks at cumulative employment during operation of existing and planned wind farm developments in the area. **Table 2** lists which of these developments have been included within the assessment.

**Table 2** Wind farm developments included within the Socioeconomic CIA for Norfolk Vanguard

Name	Status
Scroby Sands	Operational
Greater Gabbard	Operational
Sheringham Shoal	Operational
Dudgeon	Under Construction
East Anglia 1	Under Construction
Galloper	Under Construction
East Anglia 1 North	Planned
East Anglia 3	Planned
Norfolk Boreas	Planned
Norfolk Vanguard	Planned
Hornsea Project 3	Planned

## Conclusion

The purpose of this note is to discuss with Norfolk County Council the approach and methodology taken by Norfolk Vanguard in identifying the long list of projects, activities or plans that have the potential to interact temporally or spatially with the construction, operation or decommissioning of Norfolk Vanguard and could lead to potential cumulative impacts. As part of ongoing consultation with Norfolk County Council for Norfolk Vanguard, the project would like your input and feedback on the long list of projects to be taken forward into the CIA as presented in **Table 1**, in the event that any project, activities or plans are currently missing based on your knowledge of the area and projects in development.



We would be grateful if you could reply by the **27<sup>th</sup> March 2018** with any additional information you feel should be included, or any updates on the status of the projects listed, (especially those highlighted in yellow which currently requires more information) as soon as possible to include within our CIA assessment for Norfolk Vanguard.