

# Norfolk Vanguard Offshore Wind Farm

# DCO Non-Material

# Change

## Regulation 7A Consultation and

## Publicity Statement

Applicant: Norfolk Vanguard Limited and  
Norfolk Vanguard East Limited  
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*Photo: Kentish flats Offshore Wind Farm*

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## Table of Contents

|            |  |          |
|------------|--|----------|
| <b>1</b>   | <b>Introduction .....</b>                                    | <b>1</b> |
| <b>1.1</b> | <b>Non-Material Change Overview .....</b>                    | <b>1</b> |
| <b>1.2</b> | <b>Consultation Report.....</b>                              | <b>2</b> |
| <b>2</b>   | <b>Pre-Application Consultation .....</b>                    | <b>2</b> |
| <b>2.1</b> | <b>Stakeholders Invited to be Consulted .....</b>            | <b>3</b> |
| <b>2.2</b> | <b>Finalised List of Stakeholders to be Consulted .....</b>  | <b>3</b> |
| <b>3</b>   | <b>Submitting the Non-Material Change .....</b>              | <b>5</b> |
| <b>4</b>   | <b>Publicising the Non-Material Change Application .....</b> | <b>5</b> |
| <b>5</b>   | <b>Application Consultation.....</b>                         | <b>7</b> |

## Appendices

**Appendix 1 Letter to BEIS submitting the NMC Application**

**Appendix 2 Letter to BEIS requesting confirmation of the reduced list of consultees**

**Appendix 3 Newspaper notices**

**Appendix 4 Letter inviting stakeholder consultation**

**Appendix 5 Redacted copies of representations**

**Appendix 6 Applicant's response to EIFCA's representation**

## Glossary of Acronyms

|       |   |
|-------|---|
| BEIS  | Department for Business, Energy & Industrial Strategy |
| DCLG  | Department for Communities and Local Government       |
| DCO   | Development Consent Order                             |
| DIO   | Defence Infrastructure Organisation                   |
| DML   | Deemed Marine Licence                                 |
| EIA   | Environmental Impact Assessment                       |
| EIFCA | Eastern Inshore Fisheries & Conservation Authority    |
| EMF   | Electromagnetic Fields                                |
| ES    | Environmental Statement                               |
| GW    | Gigawatts   |
| HE    | Historic England                                      |
| HRA   | Habitats Regulations Assessment                       |
| LSE   | Likely Significant Effect                             |
| MMO   | Marine Management Organisation                        |
| MoD   | Ministry of Defence                                   |
| MW    | Megawatts   |
| NATS  | National Air Traffic Services                         |
| NE    | Natural England                                       |
| NFFO  | National Federation of Fishermen's Organisations      |
| NMC   | Non-Material Change                                   |
| RSPB  | The Royal Society for the Protection of Birds         |
| SAC   | Special Area of Conservation                          |
| SoS   | Secretary of State                                    |
| SPA   | Special Protection Area                               |
| TCE   | The Crown Estate                                      |
| TH    | Trinity House   |
| WTG   | Wind Turbine Generator                                |



# 1 Introduction

## 1.1 Non-Material Change Overview

1. This Consultation and Publicity Statement has been prepared to support the application for a non-material change (NMC) to the Norfolk Vanguard Offshore Wind Farm Order 2022 as required by Regulation 7A of the Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 as amended (2011 Regulations).
2. Norfolk Vanguard Limited submitted an application for development consent for the Norfolk Vanguard Offshore Wind Farm (the **Project**) on 26 June 2018, with a Development Consent Order (DCO) granted by the Secretary of State (SoS) for the Department for Business, Energy and Industrial Strategy (BEIS) on 11 February 2022 (Order). The Order granted consent for the development of an offshore wind farm with a gross output of 1,800 Megawatt (MW) (1.8 Gigawatt (GW)), and a maximum of 158 wind turbine generators (WTGs) across two offshore sites located approximately 47 and 70km off the coast of Norfolk.
3. On 17 December 2021, Norfolk Vanguard East Limited entered into an agreement for lease with The Crown Estate in respect of (i) part of the wind farm array area and (ii) the cable corridor. Therefore, for the purposes of paragraphs 2(6) and 2(7) of Schedule 6 to the Planning Act 2008, Norfolk Vanguard East Limited and Norfolk Vanguard Limited both hold an interest in the land to which the Order relates.
4. Since the submission of the application for the Order, a detailed review of the supply chain has shown that there have been advancements in technology making WTGs more efficient and cost effective. These advances allow the generation capacity of a WTG to increase whilst remaining within the same parameters of scale.
5. Therefore, Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the **Applicant**) has jointly made an application for a non-material change to the Order which aims to:
  - remove the 1,800MW limit of electrical capacity stated in the Order, and
  - reduce the number of WTGs from 158 to 145.
6. For the avoidance of doubt, and as stated in the letter to BEIS accompanying the submission of the NMC Application (**Appendix 1**), the NMC application does not seek a change to any other parameters secured with the Order, including the Order Limits, and does not relate to the Norfolk Boreas Offshore Wind Farm Order 2021.
7. A Supporting Statement (document reference: PB5640.008.0023) to the NMC Application was prepared which sets out a review of the receptors assessed within the Norfolk Vanguard Environmental Statement (ES) and provides an assessment as

to whether there will be any new or materially different impacts as a result of the NMC Application from those described in the original ES.

8. Furthermore, it also considers whether the proposed changes would alter the conclusions of the Habitats Regulations Assessment (HRA) undertaken in respect of the Order.
9. Taking into account the four tests outlined in the 2015 Department for Communities and Local Government (DCLG) Guidance on Changes to Development Consent Orders, the Supporting Statement demonstrated that the proposed amendments were non-material in nature and that the NMC Application does not give rise to any new or materially different impacts from those detailed in the ES or any change to the conclusions of the HRA.

## **1.2 Consultation Report**

10. This Consultation and Publicity Statement is provided in support of the NMC Application. It details the consultation undertaken, the stakeholders consulted (as agreed with BEIS) and the newspaper notices published.
11. This Consultation and Publicity Statement is a requirement of Regulation 7A of the 2011 Regulations and confirms that the Applicant has complied with all necessary steps set out in regulations 6 and 7 of the 2011 Regulations. This statement has been drafted to provide a summary of the stakeholder consultation undertaken on the NMC Application and also details the public engagement approach.
12. The statement is structured as follows:
  - Section 2: a summary of the pre-application consultation undertaken to develop the reduced list of consultees and confirm their consent for electronic service
  - Section 3: an overview of the submission process for the NMC Application
  - Section 4: an overview of the publication process for the NMC Application
  - Section 5: a summary of the stakeholder consultation undertaken for the NMC Application

## **2 Pre-Application Consultation**

13. Prior to submitting the NMC Application, the Applicant contacted BEIS, the Statutory Nature Conservation Body (Natural England) the regulating authority relevant to the NMC Application (the Marine Management Organisation) and the Landowner (The Crown Estate) to inform them the NMC Application was being made and explain the need for an NMC to deliver increased capacity and contribute to the government's climate change goals, without exceeding the worst case scenario assessed within the

Environmental Impact Assessment (EIA). Table 2.1 below provides a summary of the pre-application consultation.

**Table 2.1 Summary of pre-submission consultation responses**

| Consultee                      | Date of Consultation      | Consultation Format                              | Summary of Consultation   |
|--------------------------------|---------------------------|--|---|
| Marine Management Organisation | 02/02/2022 and 30/02/2022 | Meetings with case manager and case officer      | Explanation of what the NMC would include   |
| Natural England                | 17/02/2022 and 21/04/2022 | Email sent to case officer and an update meeting | Informing of NMC and information on what the NMC would include  |
| The Crown Estate               | 25/01/2022                | Meeting  | Update and explaining the intention to remove the capacity limit and timeline for achieving this.                             |
| BEIS                           | 18/03/2022                | Meeting  | Notification of the intention to submit the NMC Application and provide an explanation of what the NMC Application would seek |

## 2.1 Stakeholders Invited to be Consulted

14. In advance of submitting the NMC Application, the Applicant wrote to 22 stakeholders identified from the Project's Section 56 consultee list and invited them to be consulted on the NMC Application.

## 2.2 Finalised List of Stakeholders to be Consulted

15. Of the 22 invited stakeholders, 13 confirmed they wished to be consulted. This reduced list of consultees and engagement with them prior to the submission of the NMC Application is presented in Table 2.2.
16. With the reduced list of consultees established, a request was sent to BEIS on 6 May 2022 (**Appendix 2**) for approval of the proposed reduced list of consultees to allow a more focused consultation given the narrow scope of the proposed NMC Application. The request was made pursuant to Regulation 7 of the 2011 Regulations (Regulation 7 Letter).
17. BEIS approved the reduced list of consultees via email on 11 May 2022.

**Table 2.2 The reduced list of stakeholders who wished to be consulted on the NMC Application**

| Stakeholder                            | Response to Invitation   |
|--|--|
| 1. Broadland District Council          | Broadland District Council was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 13 April 2022, Broadland District Council confirmed it wished to be consulted.   |
| 2. Defence Infrastructure Organisation | The Defence Infrastructure Organisation was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 21 April 2022, the Defence Infrastructure Organisation confirmed it |

| Stakeholder   | Response to Invitation   |
|---|--|
|   | wished to be consulted.  |
| 3. Eastern Inshore Fisheries & Conservation Authority (EIFCA) | The EIFCA was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 20 April 2022, the EIFCA confirmed it wished to be consulted.               |
| 4. Historic England   | Historic England was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 22 April 2022, Historic England confirmed it wished to be consulted. |
| 5. Marine Management Organisation (MMO)                       | The MMO was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 21 April 2022, the MMO confirmed it wished to be consulted.                   |
| 6. Ministry of Defence (MoD)                                  | The MoD was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 21 April 2022, the MoD confirmed it wished to be consulted.                   |
| 7. National Air Traffic Services (NATS) En-Route Safeguarding | NATS was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 13 April 2022, NATS confirmed it wished to be consulted.                         |
| 8. National Federation of Fishermen's Organisations (NFFO)    | NFFO was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 21 April 2022, NFFO confirmed it wished to be consulted.                         |
| 9. Natural England (NE)                                       | NE was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 21 April 2022, NE confirmed it wished to be consulted.                             |
| 10. Royal Society for Protection of Birds (RSPB)              | RSPB was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 12 April 2022, RSPB confirmed it wished to be consulted.                         |
| 11. The Crown Estate  | The Crown Estate was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 21 April 2022, The Crown Estate confirmed it wished to be consulted. |
| 12. Trinity House (TH)  | TH was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 21 April 2022, TH confirmed it wished to be consulted.                             |
| 13. VisNED  | VisNED was contacted on 11 April 2022 and asked if it wished to be consulted on the NMC Application. On 22 April 2022, VisNED confirmed it wished to be consulted.                     |

### 3 Submitting the Non-Material Change

18. In accordance with Regulation 4 of the 2011 Regulations, the following documents were submitted to BEIS and the Planning Inspectorate on 14 June 2022 along with a cover letter (**Appendix 1**) containing, in schedule 1 of the letter, a checklist demonstrating Regulation 4 compliance:
- The Supporting Statement<sup>1</sup>, comprising:
    - The details of the proposed non-material change to the Order as prescribed by the 2011 Regulations; and
    - An explanation as to why the proposed change is considered to be non-material.
  - The draft Amendment Order that sets out the amendments proposed to the Order together with a tracked version showing the proposed changes.
  - A tracked changed version of the Deemed Marine Licences (DMLs), which sets out the proposed changes for the parallel application being made to the Marine Management Organisation (MMO) to vary the DMLs.
  - A copy of the newspaper notice required by Regulation 6 of the 2011 Regulations.
19. The above documents are referred to as the NMC Application Documents.

### 4 Publicising the Non-Material Change Application

20. In accordance with Regulation 6 of the 2011 Regulations (as amended by Regulation 3 of the Infrastructure Planning (Publication and Notification of Applications etc.) (Amendment) Regulations 2020 (2020 Regulations)), the Applicant undertook the following approach to publicise the details of the NMC Application to the public:
1. The publication of the Regulation 6 Notice in two newspapers for two consecutive weeks:
    - a. Fishing News; and
    - b. Eastern Daily Press.
  - The Regulation 6 Notice provided the public with the details referred to in Regulation 6 of the 2011 Regulations, including the name and address of the Applicant, a description of the NMC being sought, details of where and the last date the NMC Application Documents could be accessed (including

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<sup>1</sup> Available at: <https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010087/EN010087-002943-Norfolk%20Boreas%20NMC%20Supporting%20Statement.pdf>



the cost of hard copy documents), a contact where any enquiries could be addressed, how representations on the NMC Application could be made, and the last date for making representations. The notice made clear the NMC Application Documents were available to view on the Norfolk Vanguard project page on the Planning Inspectorate's website (the NMC Application Documents were published on the Norfolk Vanguard page on the Planning Inspectorate's website on 13 June 2022).

- Copies of the Regulation 6 Notice as it appeared in the relevant newspapers, including the online versions, can be found in **Appendix 3**.
2. The issue of an e-shot<sup>2</sup>, a regular update sent to more than 1,700 registered interested parties who have signed up to receive Norfolk Zone Updates, including details on the NMC Application.
- Recipients of the e-shot include parish councils located along and neighbouring the Project's onshore cable route, as well as other local groups and individuals taking an interest in the Project development. The e-shot was issued on 10 June 2022. A copy of the e-shot has been made available on the "Vattenfall in Norfolk" web page<sup>3</sup> from 10 June 2022.
21. The dates that each Regulation 6 Notice was published is detailed in Table 4.1.

**Table 4.1 Publications and dates**

| Publication         | First Publication   |            | Second Publication  |            |
|---------------------|---|------------|---|------------|
|                     | Newspaper   | Website    | Newspaper   | Website    |
| Fishing News        | First issued to subscribers on 14/06/2022. Distributed and accessible by all parts of the UK on 16/06/2022. | 14/06/2022 | First issued to subscribers on 21/06/2022. Distributed and accessible by all parts of the UK on 23/06/2022. | 21/06/2022 |
| Eastern Daily Press | 14/06/2022  | 14/06/2022 | 21/06/2022  | 21/06/2022 |

22. The deadline for receipt of representations specified in the notice was 23:59 on Sunday 24 July 2022, allowing more than 28 days from the date of publication of the last notice (taken to be 23 June 2022 which was the date the second Fishing News notice was accessible to all parts of the UK) in accordance with the requirements of Regulation 6 of the 2011 Regulations.

<sup>2</sup> <https://group.vattenfall.com/uk/contentassets/3bb5d7b3eccf4e988a44d405d9760385/norfolk-zone-enews-april-2022.pdf>

<sup>3</sup> <https://group.vattenfall.com/uk/what-we-do/our-projects/vattenfallinnorfolk>

23. No requests were made for hard copies of the NMC Application Documents to be distributed.
24. The Applicant considers the details of the NMC Application were communicated to the public in an appropriate and effective way, in compliance with Regulation 6 of the 2011 Regulations.

## 5 Application Consultation

25. The NMC Application Documents were issued to each of the Regulation 7 Consultees via email, as detailed in Table 5.1 below.
26. An example of the letter sent to each of the Regulation 7 Consultees is contained in **Appendix 4**. The letter stated that the deadline for receipt of comments was 23:59 on Sunday 24 July 2022 (allowing more than 28 days for the submission of representations) and detailed that any representations regarding the NMC Application should be sent by email to the Planning Inspectorate via email or in writing. Additional contact details were provided where consultees could contact the Planning Inspectorate's case team for support in submitting a representation.

**Table 5.1 Confirmation of Receipt of Consultation Documents**

| Consultee |  | Date of Service | Confirmation of Receipt |
|-----------|--|-----------------|-------------------------|
| 1.        | Broadland District Council                                 | 13 June 2022    | ✓                       |
| 2.        | Defence Infrastructure Organisation                        | 13 June 2022    | ✓                       |
| 3.        | Eastern Inshore Fisheries & Conservation Authority (EIFCA) | 13 June 2022    | ✓                       |
| 4.        | Historic England   | 13 June 2022    | ✓                       |
| 5.        | Marine Management Organisation (MMO)                       | 13 June 2022    | ✓                       |
| 6.        | Ministry of Defence (MoD)                                  | 13 June 2022    | ✓                       |
| 7.        | National Air Traffic Services (NATS) En-Route Safeguarding | 13 June 2022    | ✓                       |
| 8.        | National Federation of Fishermen's Organisations (NFFO)    | 13 June 2022    | ✓                       |
| 9.        | Natural England (NE)                                       | 13 June 2022    | ✓                       |
| 10.       | Royal Society for Protection of Birds (RSPB)               | 13 June 2022    | ✓                       |
| 11.       | The Crown Estate   | 13 June 2022    | ✓                       |
| 12.       | Trinity House (TH)   | 13 June 2022    | ✓                       |
| 13.       | VisNED   | 13 June 2022    | ✓                       |

29. Out of the 13 consultees' listed in Table 5.1 above, all responded with the exception of two, the NFFO and VisNED.
30. Further to this, two submissions were received from organisations not included within the Regulation 7 Consultees listed. These responses were from:
  - A local resident
  - UK Chamber of Shipping
31. Redacted copies of all consultation submissions are enclosed within **Appendix 5**.
32. A summary of these consultation submissions is provided in Table 5.2. All comments from the consultees are presented and where relevant, the Applicant has provided a response.

**Table 5.2: Summary of the Consultation Submissions**

| Party |  | Date of Correspondence | Format | Summary of Consultee's submission  | Applicant's Response  |
|-------|--|------------------------|--------|--|---|
| 1.    | Broadland District Council                                 | 11 July 2022           | Email  | No comments to make in respect of the proposed NMC as the application does not seek any changes to the onshore elements of the project.  | No response required  |
| 2.    | Defence Infrastructure Organisation (DIO)                  | 22 July 2022           | Letter | The MoD have reiterated concerns which they aired during the Norfolk Boreas Examination; however, they acknowledge that the NMC Application will not change these concerns. The DIO does however note that due to the fact that the air defence radar at Trimingham is to be moved to Neatishead, reference in Requirement 13(2)(a) to Trimingham should be updated to Neatishead. | Although the change requested by the MoD does not relate to the NMC Application, the Applicant would have no objection to the updated reference from Trimingham to Neatishead being made should the SoS deem this to be necessary.  |
| 3.    | Eastern Inshore Fisheries & Conservation Authority (EIFCA) | 6 July 2022            | Letter | The EIFCA voiced concerns that if the NMC Application is successful, the removal of capacity limit may result in increased Electromagnetic Fields (EMF) produced by the export cables. The EIFCA consider this would result in impacts on mobile commercial species of fish and shellfish due to direct physical harm or secondary   | <p>A detailed response to the EIFCA's concerns is provided in <b>Appendix 6</b> and a summary is provided here.</p> <p>The proposed changes detailed within the NMC Application will not alter the significance of the impacts of EMF as assessed with the Norfolk Vanguard Environmental Statement (ES) for the following reasons:</p> <ol style="list-style-type: none"> <li>As stated in the NMC Supporting Statement, Table 2 (document reference PB5640.008.0023) the normal operating voltage of the export cables will not increase from those consented i.e. the normal operating voltage will remain at +/-320kV. Therefore, there would be no increase in the levels of EMF generated.</li> </ol> |

| Party                                       | Date of Correspondence | Format | Summary of Consultee's submission  | Applicant's Response   |
|---|------------------------|--------|--|--|
|   |                        |        | effects of changes in behaviour as a result of the EMF.  | <p>2. Also as stated in the NMC Supporting Statement, Table 2 (document reference PB5640.008.0023); since the EIA was undertaken the Applicant has reached agreement with cable owners to reduce the number of cable crossings by cutting many out of service telecommunication cables. Therefore, there will be less instances where the cables will be above the seabed level and therefore less chance of harm caused by or detection of EMF by benthic or fish species than those assessed and reported in the ES.</p> <p>3. The findings highlighted by EIFCA in their submission were extrapolated from experiments using ex-situ conditions of a laboratory, with EMF fields far greater than those likely to be experienced in-situ around offshore renewable subsea export cables.</p> <p>4. There is a growing evidence base showing in situ EMF levels generated from marine energy cables to be lower than that assumed in the ES.</p> |
| 4. Historic England                         | 15 July 2022           | Letter | Historic England accept the explanation provided that there will be no changes and have no further comment or other advice to offer. | No response required   |
| 5. Marine Management Organisation (MMO)     | 23 June 2022           | Letter | The MMO has no objection to the amendments proposed in the NMC application.  | No response required   |
| 6. Ministry of Defence (MoD)                | 22 July 2022           | Letter | Consultation provided with the DIO submission (see line 2 above)   | See summary of Applicant's Response for DIO in line 2 above.   |
| 7. National Air Traffic Services (NATS) En- | 21 July 2022           | Email  | The reduction in turbine numbers does not alter NATS's position and we will continue to work with the                                | Noted  |



| Party                   | Date of Correspondence | Format | Summary of Consultee's submission  | Applicant's Response   |
|-------------------------|------------------------|--------|--|--|
| Route Safeguarding      |                        |        | Applicant in respect of the mitigation measures required to support the scheme.  |  |
| 8. Natural England (NE) | 22 July 2022           | Email  | Natural England conclude that providing the changes are in strict accordance with the details of the application for a non-material change submitted, it can be excluded that the non-material change application will have a significant effect on any SAC, SPA or Ramsar site, either individually or in combination with other plans or projects. | No response required   |
| 9. Local Resident       | 15 June 2022           | Email  | No comment to make regarding the number of offshore turbines. However raised concerns about the maximum output capacity limit being removed and had concerns about how this may increase the operational noise at the onshore substation at.   | <p>Requirement 27 of both the Norfolk Vanguard and Norfolk Boreas DCOs restricts the operational noise that can be emitted from the onshore substation. The non-material change does not seek to change this requirement and therefore the non-material change will not result in an increase of operational noise beyond levels as secured within Requirement 27.</p> <p>Requirement 27 is provided below:</p> <p><b>Control of noise during operational phase and during maintenance</b></p> <p><b>27.</b> —(1) The noise rating level for the use of Work No. 8A and during maintenance must not exceed 35dB LAeq, (5 minutes) at any time at a free field location immediately adjacent to any noise sensitive location. (2) The noise rating level for the use of Work No. 8A and during maintenance must not exceed 32 dB LLeq (15 minutes) in the 100Hz</p> |

| Party  | Date of Correspondence | Format | Summary of Consultee's submission  | Applicant's Response  |
|--|------------------------|--------|--|---|
|  |                        |        |  | <p>third octave band at any time at a free field location immediately adjacent to any noise sensitive location.</p> <p>(3) Work No. 8A must not commence operation until a scheme for monitoring compliance with the noise rating levels set out in paragraphs (1) and (2) above has been submitted to and approved by the relevant planning authority. The scheme must include identification of suitable monitoring locations (and alternative surrogate locations if appropriate) and times when the monitoring is to take place to demonstrate that the noise levels have been achieved after both initial commencement of operations and six months after Work No. 8A is at full operational capacity. Such measurements must be submitted to the relevant planning authority no later than 28 days following completion to confirm the rating level of operational noise emissions do not exceed the levels specified in sub-paragraphs (1) and (2), including details of any remedial works and a programme of implementation should the emissions exceed the stated levels.</p> <p>(4) The monitoring scheme must be implemented as approved.</p> |
| 10. Royal Society for Protection of Birds (RSPB) | 21 July 2022           | Letter | <p>RSPB is content with the proposed changes and welcomes the slight reduction in predicted mortality for seabirds in the Flamborough and Filey Coast Special Protection Area (SPA) and the Alde-Ore Estuary SPA.</p> <p>RSPB notes that this does not change its overall position with regards to the adverse effects on integrity of the projects on these two SPAs.</p> | Noted   |
| 11. The Crown                                    | 22 July 2022           | Letter | The Crown Estate raised no   | No response required  |

| Party   | Date of Correspondence | Format | Summary of Consultee's submission   | Applicant's Response |
|---|------------------------|--------|---|----------------------|
| Estate  |                        |        | objection to the NMC Application.   |                      |
| 12. UK Chamber of Shipping                                  | Unknown                | Email  | UK Chamber of Shipping raised no objection to the NMC Application. It supports the removal of upper capacity limits for the development as by doing this, the UK's target for offshore wind capacity is reached using a smaller area of sea-space, and therefore leaves more sea-room available for safe surface navigation of commercial shipping. | No response required |
| 13. Trinity House (TH)                                      | 22 July 2022           | Email  | Trinity House raised no objection to the NMC Application.   | No response required |
| 14. National Federation of Fishermen's Organisations (NFFO) | -                      | -      | No response submitted   | No response required |
| 15. VisNED  | -                      | -      | No response submitted   | No response required |

## Appendix 1 Letter to BEIS submitting the NMC Application

James Dawkins  
Department for Business, Energy and Industrial Strategy  
Energy Infrastructure Planning  
1 Victoria Street  
London  
SW1H 0ET

14 June 2022

## **The Norfolk Vanguard Offshore Wind Farm Order 2022**

### **Application for a Non-material Change (removal of maximum export capacity and reduction in turbine numbers)**

The Norfolk Vanguard Offshore Wind Farm Order 2022 (the **Order**) granted consent on 11 February 2022 for the development of an offshore wind farm comprising two distinct areas, NV East and NV West, which are located in the southern North Sea, approximately, 70km and 47km from the coast of Norfolk respectively (at the nearest points) (the **Project**). The Project covers an area of approximately 828km<sup>2</sup>. Offshore cables transmitting power from the Project make landfall south of Happisburgh. From there underground cables continue approximately 60km to an onshore project substation, and connect into the National Grid substation near Necton, Norfolk.

On 17 December 2021, Norfolk Vanguard East Limited entered into an agreement for lease with The Crown Estate in respect of (i) part of the wind farm array area and (ii) the cable corridor. Therefore, for the purposes of paragraphs 2(6) and 2(7) of Schedule 6 to the Planning Act 2008, Norfolk Vanguard Limited and Norfolk Vanguard East Limited both hold an interest in the land to which the Order relates. For the avoidance of doubt this non-material change application does not seek a change to any order limits.

Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the **Applicant**) hereby applies for a non-material change to the Norfolk Vanguard Offshore Wind Farm Order 2022 (the **Application**) in accordance with the Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 (as amended) (**2011 Regulations**).

The Application seeks to remove the limit on the maximum generating capacity for the Project. It also seeks a reduction in turbine numbers from 158 to 145. These amendments are sought to allow the Project to benefit from continuing technological developments in the offshore wind industry and to further reduce the costs of energy produced by the Project to the consumer in line with government policy. On 27 June 2019, following advice from the Committee on Climate Change, the UK Government announced a new carbon reduction 'net zero' target for 2050 which resulted in an amendment to the Climate Change Act 2008; the target for the net UK carbon account for 2050 changed from 80% to 100% below the 1990 baseline. The Energy White Paper, Powering our Net Zero Future, was published on 14 December 2020. The white paper puts net zero and the UK government's effort to fight climate change at its core, following the Prime Minister's Ten Point Plan for a Green Industrial Revolution. Facilitating an increase in the capacity of the Norfolk Vanguard Wind Farm will further the contribution of the project to the government's goals and further assist in the fight against climate change.

The Application does not seek any changes to the onshore elements of the Project.

A separate application will be made to the Marine Management Organisation (**MMO**) to vary the Deemed Marine Licences in line with the changes in this Application.

In accordance with Regulation 4 of the 2011 Regulations, we enclose copies of the documents outlined below:

## **1. SUPPORTING STATEMENT**

### **1.1 This document includes:**



- 1.1.1 The details of the proposed non-material change to the Order as prescribed by the 2011 Regulations;
  - 1.1.2 An explanation as to why the proposed change is considered non-material; and
  - 1.1.3 Considers whether the changes sought would give rise to likely significant effects on the environment or would adversely affect the integrity of any protected site forming part of the National Site Network.
- 1.2 A copy of the Supporting Statement will also be sent to the MMO in support of the separate application to vary the Deemed Marine Licences.
- 2. THE DRAFT AMENDMENT ORDER**
- 2.1 The enclosed draft Amendment Order sets out the amendments proposed to the Order to reflect the changes sought.
- 3. A TRACK CHANGES VERSION OF THE ORDER**
- 3.1 This document highlights, in tracked changes, the proposed amendments to the Order.
- 4. A TRACKED CHANGES VERSION OF THE DEEMED MARINE LICENSES**
- 4.1 As a separate, parallel, application is being made to the MMO to vary the Deemed Marine Licences (**DMLs**), a copy of the DMLs with the proposed changes shown in tracked changes, has been enclosed for reference.
- 5. A COPY OF THE NEWSPAPER NOTICE REQUIRED BY REGULATION 6 OF THE 2011 REGULATIONS (NOTICE)**
- 5.1 Notice of the Application will be published in the following newspapers as required by Regulation 6 of the 2011 Regulations:
  - Fishing News; and
  - Eastern Daily Press.

A copy of the Notice is enclosed with this Application. The Regulation 7A consultation and publicity statement will follow after the second newspaper notice advertising the making of the Application has been published. This statement will confirm that the Applicant has consulted on the Application in accordance with Regulations 6 and 7 of the 2011 Regulations.

The Applicant confirms that the application fee of £6,891.00, as required by Regulation 5 of the 2011 Regulations has been processed for payment to BEIS.

For ease of reference, we also enclose a checklist at Schedule 1 to this letter, setting out all of the information required by Regulation 4(2) of the 2011 Regulations.

We would be grateful if you would acknowledge safe receipt of this letter and its enclosures.

If you have any questions or require clarification on the content of this letter or accompanying information, please do not hesitate to contact us.

Yours sincerely



Ruari Lean

Norfolk Vanguard Project Manager

Enclosures:

1. The Supporting Statement;
2. The draft Amendment Order;
3. The tracked changes version of the Order;
4. The tracked changes version of the Deemed Marine Licences; and
5. The newspaper notice as required by Regulation 7 of the 2011 Regulations.

**SCHEDULE 1**
**Checklist of details required by Regulation 4(2) of the 2011 Regulations**

| <b>Regulation</b> | <b>Requirement</b>   | <b>Response</b>   |
|-------------------|--|---|
| 4(2)(a)           | Name and address of applicant  | Norfolk Vanguard Limited and Norfolk Vanguard East Limited both of 5th Floor 70, St Mary Axe, London, United Kingdom, EC3A 8BE  |
| 4(2)(b)           | Name and address of an agent, if appointed   | N/A   |
| 4(2)(c)           | The Secretary of State's reference for the development consent order to which the application relates              | The Norfolk Vanguard Offshore Wind Farm Order 2022 (SI 2022/138)<br><br>PINS reference: EN010079  |
| 4(2)(d)           | Details of the change being applied for  | The Application seeks to make a non-material change to remove the limit on the maximum export capacity and reduce the number of turbines from 158 to 145. The Application does not seek any changes to the onshore elements of the Project.   |
| 4(2)(e)           | Any documents and plans considered necessary to support the application  | A Supporting Statement, draft Amendment Order, a copy of the Order with the proposed amendments shown in tracked changes and a copy of the newspaper notice are enclosed.<br><br>The Secretary of State is requested to confirm that the above documents are sufficient for determination of the Application. |
| 4(2)(f)           | A statement as to the status of the applicant, as referred to in regulation 4(2)(f)(i) and (ii)                    | Norfolk Vanguard Limited is the applicant who originally applied for the Order. On 17 December 2021, Norfolk Vanguard East Limited entered into an agreement for lease with The Crown Estate in respect of (i) part of the wind farm array area and (ii) the cable corridor.                                  |
| 4(2)(ff)          | The consultation and publicity statement referred to in regulation 7A  | This will be provided to the Department of Business, Energy and Industrial Strategy after the second newspaper notice advertising the making of the Application has been published.   |
| 4(2)(g)           | Details of the applicant's interest in the land  | The Applicant has an agreement with The Crown Estate for the lease of the necessary seabed.   |
| 4(2)(h)           | If requested by the Secretary of State, 3 paper copies of the application and other supporting documents and plans | The Planning Inspectorate confirmed paper copies of the Application are not required.   |

## Appendix 2 Letter to BEIS requesting confirmation of the reduced list of consultees

James Dawkins  
Department for Business, Energy and Industrial  
Strategy  
Energy Infrastructure Planning  
1 Victoria Street  
London  
SW1H 0ET  
Copy to the Planning Inspectorate

Norfolk Vanguard Limited and  
Norfolk Vanguard East Limited  
5th Floor,  
70 St Mary Axe,  
London,  
EC3A 8BE,  
United Kingdom

## **The Norfolk Vanguard Offshore Wind Farm Order 2022**

### **Proposed Application for a Non-material Change (removal of maximum generating capacity and reduction in turbine numbers)**

#### **Regulation 7(3): Request for Consent to Consultation Proposals**

The Norfolk Vanguard Offshore Wind Farm Order 2022 (the **Order**) granted consent on 11 February 2022 for the development of an offshore wind farm comprising two distinct areas, NV East and NV West, which are located in the southern North Sea, approximately, 70km and 47km from the coast of Norfolk respectively (at the nearest points) (the **Project**). The Project, located in the southern North Sea, covers an area of approximately 828km<sup>2</sup>. Offshore cables transmitting power from the Project make landfall south of Happisburgh. From there underground cables continue approximately 60km to an onshore project substation, and connect into the National Grid substation near Necton, Norfolk.

On 17 December 2021, Norfolk Vanguard East Limited entered into an agreement for lease with The Crown Estate in respect of (i) part of the wind farm array area and (ii) the cable corridor. Therefore, for the purposes of paragraphs 2(6) and 2(7) of Schedule 6 to the Planning Act 2008, Norfolk Vanguard Limited and Norfolk Vanguard East Limited both hold an interest in the land to which the Order relates. For the avoidance of doubt this non-material change application does not seek a change to any order limits and does not relate to the Norfolk Boreas offshore windfarm Order.

Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the **Applicant**) intends jointly to apply for a non-material change to the Order in accordance with the Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 (as amended) (**2011 Regulations**) (the **Application**).

The Application will seek to remove the limit on the maximum export capacity for the Project. It will also seek a reduction in turbine numbers from 158 to 145. These amendments are sought to allow the Project to benefit from continuing technological developments in the offshore wind industry and to further reduce the cost of energy generated by these projects in line with government policy. On 27 June 2019, following advice from the Committee on Climate Change, the UK Government announced a new carbon reduction 'net zero' target for 2050 which resulted in an amendment to the Climate Change Act 2008; the target for the net UK carbon account for 2050 changed from 80% to 100% below the 1990 baseline. The Energy White Paper, Powering our Net Zero Future, was published on 14 December 2020. The white paper puts net zero and the UK government's effort to fight climate change at its core, following the Prime Minister's Ten Point Plan for a Green Industrial Revolution. Facilitating an increase in the capacity of the Norfolk Vanguard Wind Farm will further the contribution of the project to the government's goals and further assist in the fight against climate change. A separate application will be made to the Marine Management Organisation to vary the Deemed Marine Licences in line with the changes in the Application.



It should be noted that no onshore changes to the Project are proposed, nor will any onshore changes be required, as a result of the Application. Notwithstanding this, the requisite notices will be published (as explained below) in local newspapers to bring the Application to the attention of local communities should they wish to make any representation. The Applicant is also continuing to engage with local stakeholders and communities in Norfolk more generally to ensure they are kept informed on the progress and development of the Project as detailed design continues.

Pursuant to Regulation 7(3) of the 2011 Regulations, the Applicant is seeking the Secretary of State's consent to a more focused consultation given the narrow scope of the proposed Application from that carried out in respect of the acceptance of the original application to grant the Order.

Schedule 1 to this letter contains a table listing those consultees that the Applicant proposes to consult on the Application pursuant to Regulation 7 of the 2011 Regulations. Also detailed are consultees that the Applicant does not consider it necessary to consult and a rationale for this is provided. For ease, and where appropriate, consultees have been grouped together where the rationale for not consulting them applies equally. As the changes relate solely to the removal of the limit on generating capacity and a reduction in turbine numbers, they will have limited application or interest to a number of stakeholders and consultees and as such, it is not considered necessary to consult all those persons, bodies or organisations notified of the acceptance of the original application to grant the Order under Section 56 of the Planning Act 2008. This is particularly the case for onshore stakeholders given that no onshore changes to the Project are proposed, or will be required, as a result of the Application. Accordingly, and consistent with other non-material change applications which have sought similar changes, very limited consultation is proposed with onshore stakeholders.

It is intended to submit the Application on 14 June 2022. In order for us to meet that timeframe we would be grateful if the Secretary of State could please confirm approval of the reduced consultee list within Schedule 1 at their earliest convenience.

The Applicant proposes to publish Notice of the Application in accordance with the 2011 Regulations and The Infrastructure Planning (Publication and Notification of Applications etc.) (Amendment) Regulations 2020. This will include publicising the Application for at least two successive weeks in one or more local newspapers and making the Application available on the Planning Inspectorate's website. Schedule 2 sets out the anticipated form of the notice, which is proposed to be published in the following newspapers:

- Fishing News; and
- Eastern Daily Press.

We have copied this correspondence to the Planning Inspectorate.

Please do not hesitate to contact us with any queries or if further information is required.

Yours sincerely,



Ruari Lean

**SCHEDULE 1**

**Table of consultees**

List of consultees to be consulted on the proposed non-material change application (the Application) pursuant to regulation 7(3) of the Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 (as amended) (2011 Regulations). Rationale is provided where it is proposed not to consult with consultees.

| Section 56 Consultee                                       | Proposed inclusion in Regulation 7 consultation | Rationale  |
|--|---|--|
| Marine Management Organisation (MMO)                       | Yes   | The MMO was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, the MMO confirmed it wished to be consulted.   |
| Natural England (NE)                                       | Yes   | NE was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, NE confirmed it wished to be consulted.   |
| Royal Society for Protection of Birds (RSPB)               | Yes   | RSPB was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 12 April 2022, RSPB confirmed it wished to be consulted.   |
| National Air Traffic Services (NATS) En-Route Safeguarding | Yes   | NATS was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 13 April 2022, NATS confirmed it wished to be consulted.   |
| Ministry of Defence (MoD)                                  | Yes   | The MoD was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, the MoD confirmed it wished to be consulted.   |
| Defence Infrastructure Organisation                        | Yes   | The Defence Infrastructure Organisation was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, the Defence Infrastructure Organisation confirmed it wished to be consulted. |
| Trinity House (TH)   | Yes   | TH was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, TH confirmed it wished to be consulted.   |
| Historic England   | Yes   | Historic England was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 22 April 2022, Historic England confirmed it wished to be consulted.   |
| The Crown Estate   | Yes   | The Crown Estate was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, The Crown Estate confirmed it wished to be consulted.   |
| National Federation of Fishermen's Organisations (NFFO)    | Yes   | NFFO was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, NFFO confirmed it wished to be consulted.   |
| VisNED   | Yes   | VisNed was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 22 April 2022, VisNed confirmed it wished to be consulted.   |
| Eastern Inshore Fisheries & Conservation Authority (EIFCA) | Yes   | The EIFCA was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 20 April 2022, the EIFCA confirmed it wished to be consulted.   |
| Civil Aviation Authority (CAA)                             | No  | The CAA was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 20 April 2022, the CAA confirmed it did not wish to be consulted.   |

| Section 56 Consultee  | Proposed inclusion in Regulation 7 consultation | Rationale   |
|---|---|---|
| HM Maritime & Coastguard Agency (MCA)                             | No  | The MCA was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 11 April 2022, the MCA confirmed it did not wish to be consulted.  |
| The Wildlife Trust  | No  | The Wildlife Trust was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, The Wildlife Trust confirmed it did not wish to be consulted.  |
| Whale and Dolphin Conservation                                    | No  | The Whale and Dolphin Conservation was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 12 April 2022, the Whale and Dolphin Conservation confirmed it did not wish to be consulted.  |
| Joint Nature Conservation Committee (JNCC)                        | No  | JNCC was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. Whilst JNCC have an offshore interest, statutory functions for offshore renewables matters are delegated to Natural England. As set out above, Natural England is proposed to be consulted on the Application. On 12 April 2022, JNCC confirmed it did not wish to be consulted. |
| Centre for Environment, Fisheries and Aquaculture Science (Cefas) | No  | Cefas was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, Cefas confirmed it did not wish to be consulted.  |
| BBL Technical Ltd   | No  | Whilst BBL Technical Ltd has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its assets than those described in the ES.   |
| Blue Transmission Sheringham Shoal Limited                        | No  | Whilst Blue Transmission Sheringham Shoal Limited has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its assets than those described in the ES.  |
| Boston Putford  | No  | Whilst Boston Putford has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its assets than those described in the ES.  |
| British Marine Aggregate Producers Association                    | No  | Whilst the British Marine Aggregate Producers Association has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its operations than those described in the ES.  |
| Chamber of Shipping   | No  | Whilst the Chamber of Shipping has an offshore interest, there will be no additional impacts, or impacts of greater significance, than those described in the ES. In addition, the MCA and TH will be consulted on shipping and navigational matters.   |
| Cruising Association  | No  | Whilst the Cruising Association has an offshore interest, there will be no additional impacts, or impacts of greater significance, than those described in the ES.  |
| Dudgeon Offshore Wind Limited                                     | No  | Whilst Dudgeon Offshore Wind Limited has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its assets than those described in the ES.   |
| GTT Communications Holdings UK (acquired KPN International)       | No  | Whilst GTT Communications Holdings UK has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its assets than those described in the ES.  |

| Section 56 Consultee   | Proposed inclusion in Regulation 7 consultation | Rationale  |
|--|---|--|
| The Secretary of State for Defence   | No  | Whilst The Secretary of State for Defence has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its operations than those described in the ES.   |
| Oil and Gas Authority  | No  | Whilst the Oil and Gas Authority has an offshore interest, there will be no additional impacts, or impacts of greater significance, than those described in the ES.  |
| Orsted Hornsea Project Three (UK) Limited  | No  | Whilst Orsted Hornsea Project Three (UK) Limited has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its assets than those described in the ES.  |
| P&O Ferries  | No  | Whilst P&O Ferries has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its operations than those described in the ES.  |
| Royal National Lifeboat Institute  | No  | Whilst the Royal National Lifeboat Institute has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its operations than those described in the ES.  |
| Royal Yachting Association   | No  | Whilst the Royal Yachting Association has an offshore interest, there will be no additional impacts, or impacts of greater significance, on yachting activities than those described in the ES.  |
| ScottishPower Renewables   | No  | Whilst ScottishPower Renewables has an offshore interest, there will be no additional impacts, or impacts of greater significance, on its assets than those described in the ES.   |
| Caister inshore Fishermen's Association  | No  | Whilst the Caister inshore Fishermen's Association has an offshore interest, there will be no additional impacts, or impacts of greater significance, regarding fisherman's operations than those described in the ES. In addition, the EIFCA and NFFO, which both have fishing interests, will be consulted as identified above, and the Application will also be advertised in Fishing News.             |
| North Norfolk Fishermen's Society  | No  | Whilst the North Norfolk Fishermen's Society has an offshore interest, there will be no additional impacts, or impacts of greater significance, regarding fishermen's operations than those described in the ES. In addition, the EIFCA and NFFO, which both have fishing interests, will be consulted as identified above, and the Application will also be advertised in Fishing News.                   |
| Aviation Consultees, including: <ul style="list-style-type: none"> <li>• Anglia Radar</li> <li>• Babcock International</li> <li>• British International Helicopters</li> <li>• Bristow Group Inc</li> <li>• CHC Scotia Helicopters</li> <li>• Heli Holland Air Service and Technics</li> <li>• NHV Helicopters</li> <li>• Shell Helicopters</li> </ul> | No  | Whilst Aviation Consultees have an offshore interest, there will be no additional impacts, or impacts of greater significance, on their operations than those described in the ES. In addition, the MOD, Defence Infrastructure Organisation and NATS, which have aviation interests, will be consulted as identified above and the MCA and CAA have both confirmed that they do not wish to be consulted. |

| Section 56 Consultee  | Proposed inclusion in Regulation 7 consultation | Rationale  |
|---|---|--|
| <ul style="list-style-type: none"> <li>• Unifly Helicopters</li> <li>• Air Traffic Control The Netherlands (LVNL)</li> <li>• Ministerie van Defensie</li> </ul> |   |  |
| Fishermen   | No  | Whilst Fishermen have an offshore interest, there will be no additional impacts, or impacts of greater significance, on their operations than those described in the ES. In addition, the EIFCA and NFFO, which both have fishing interests, will be consulted as identified above and the Application will also be advertised in Fishing News.  |
| Transboundary Consultees  | No  | Whilst Transboundary Consultees have an offshore interest, there will be no additional impacts, or impacts of greater significance, than those described in the ES.  |
| Cable and Pipeline Operators  | No  | Whilst Cable and Pipeline Operators have an offshore interest, there will be no additional impacts, or impacts of greater significance, on their assets than those described in the ES.  |
| <b>Onshore Consultees</b>   |   |  |
| Broadland District Council  | Yes   | Broadland District Council was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 13 April 2022, Broadland District Council confirmed it wished to be consulted.   |
| North Norfolk District Council  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. However, as a district council hosting onshore infrastructure, North Norfolk District Council was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 12 April 2022, North Norfolk District Council confirmed it did not wish to be consulted. |
| Breckland Council   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. However, as a district council hosting onshore infrastructure, Breckland Council was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 21 April 2022, Breckland Council confirmed it did not wish to be consulted.                           |
| Norfolk County Council  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid   |

| Section 56 Consultee   | Proposed inclusion in Regulation 7 consultation | Rationale   |
|--|---|---|
|  |   | extension and all other onshore infrastructure. However, as a county council hosting onshore infrastructure, Norfolk County Council was contacted on 11 April 2022 and asked if it wished to be consulted on the Application. On 19 April 2022, Norfolk County Council confirmed it did not wish to be consulted.   |
| <p>Adjoining Local Authorities, including:</p> <p><b>Unitary/District Councils neighbouring District Councils in which the project is located</b></p> <ul style="list-style-type: none"> <li>• South Norfolk Council</li> <li>• West Suffolk Council (formerly two separate district councils: St Edmundsbury District Council and Forest Heath District Council)</li> <li>• Great Yarmouth Borough Council</li> <li>• Borough Council of King's Lynn &amp; West Norfolk</li> <li>• Mid Suffolk District Council</li> <li>• Norwich City Council</li> <li>• The Broads Authority</li> </ul> <p><b>Unitary/County Councils neighbouring County Councils in which the project is situated</b></p> <ul style="list-style-type: none"> <li>• Cambridgeshire County Council</li> <li>• Suffolk County Council</li> <li>• Lincolnshire County Council</li> </ul> | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Parish Councils  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |



| Section 56 Consultee  | Proposed inclusion in Regulation 7 consultation | Rationale  |
|---|---|--|
| The Environment Agency                                      | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. In addition, the Non-material change would not affect any marine WFD (Water Framework Directive) water bodies. |
| Health and Safety Executive                                 | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| NHS East of England   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| The Historic Buildings and Monuments Commission for England | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| Norfolk Fire and Rescue Service                             | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| Norfolk Constabulary  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in  |

| Section 56 Consultee                          | Proposed inclusion in Regulation 7 consultation | Rationale   |
|---|---|---|
|   |   | the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.   |
| The Equality and Human Rights Commission      | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| AONB Partnership                              | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Homes and Communities Agency                  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Homes England                                 | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| National Highways (formerly Highways England) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in   |

| Section 56 Consultee   | Proposed inclusion in Regulation 7 consultation | Rationale   |
|--|---|---|
|  |   | the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.   |
| Department for Transport   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| The Coal Authority   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| The Gas and Electricity Markets Authority (OFGEM)  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Internal Drainage Boards, including: <ul style="list-style-type: none"> <li>• Norfolk Rivers Internal Drainage Board</li> <li>• East of Ouse Polder and Nar Internal Drainage Board</li> <li>• The Broads Internal Drainage Board</li> </ul> | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| The Canal & River Trust  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee  | Proposed inclusion in Regulation 7 consultation | Rationale   |
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| Public Health England   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Norfolk Resilience Forum                                      | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Forestry Commission - East & East Midlands Area               | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| The Commission for Architecture and the Built Environment     | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Department For Business Energy and Industrial Strategy (BEIS) | No  | The Secretary of State for BEIS is the decision maker on the Application and as such it is not proposed to separately consult BEIS.   |
| Norfolk Wildlife Trust  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee  | Proposed inclusion in Regulation 7 consultation | Rationale   |
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| NHS England   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| East of England Ambulance Service NHS Trust   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| National Highways Historical Railways Estate (formerly Highways England Historical Railways Estate) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Network Rail Infrastructure Ltd   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| North Norfolk Clinical Commissioning Group  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| South Norfolk Clinical Commissioning Group  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid  |

| Section 56 Consultee                                    | Proposed inclusion in Regulation 7 consultation | Rationale   |
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|   |   | extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| West Norfolk Clinical Commissioning Group               | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Office of the Police and Crime Commissioner for Norfolk | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Royal Mail Group  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| The Broads National Park                                | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Anglian Water   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee                       | Proposed inclusion in Regulation 7 consultation | Rationale   |
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| Anglian Water Services Limited             | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Blue Transmission Sheringham Shoal Limited | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| BP plc                                     | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| BPA (UK) Limited                           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| British Gas Services Limited               | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| British Pipeline Agency Limited            | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid  |

| Section 56 Consultee  | Proposed inclusion in Regulation 7 consultation | Rationale   |
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|   |   | extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| BT Group plc  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Cadent Gas Limited  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Dudgeon Offshore Wind Limited   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Eastern Power Networks plc  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Last Mile Electricity Limited (formerly Energetics Electricity Limited) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |



| Section 56 Consultee                                      | Proposed inclusion in Regulation 7 consultation | Rationale   |
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| Last Mile Gas Limited (formerly Energetics Gas Limited)   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Energy Assets Networks Limited                            | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Leep Utilities (formerly Energy Assets Pipelines Limited) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Energy Assets Power Networks Limited                      | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| BUUK Infrastructure (formerly trading under ENI Group)    | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| ES Pipelines Ltd  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid  |

| Section 56 Consultee          | Proposed inclusion in Regulation 7 consultation | Rationale   |
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|                               |   | extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| ESP Electricity Limited       | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| ESP Connections Limited       | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| ESP Network Limited           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| ESP Pipelines Limited         | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Everything Everywhere Limited | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee                                     | Proposed inclusion in Regulation 7 consultation | Rationale   |
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| Fulcrum Pipelines Limited                                | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Fulcrum Electricity Assets Ltd                           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Eclipse Power Networks (formerly G2 Energy IDNO Limited) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| GTC Pipelines Limited                                    | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Harlaxton Energy Networks Limited                        | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Harlaxton Gas Networks Limited                           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid  |

| Section 56 Consultee               | Proposed inclusion in Regulation 7 consultation | Rationale   |
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|                                    |   | extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| Hutchinson 3G UK Limited           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Independent Pipelines Limited      | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Independent Power Networks Limited | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Indigo Pipelines Limited           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Interconnector (UK) Limited        | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee   | Proposed inclusion in Regulation 7 consultation | Rationale   |
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| Leep Electricity Networks Limited                                    | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| LNG Portable Pipeline Services Limited                               | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Mobile Broadband Network Limited                                     | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Mua Electricity Limited (formerly Murphy Power Distribution Limited) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Mua Gas Limited (formerly Murphy Gas Networks Limited)               | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| National Grid Electricity Transmission Plc                           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid  |

| Section 56 Consultee   | Proposed inclusion in Regulation 7 consultation | Rationale  |
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|                        |   | extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.   |
| National Grid Gas Plc  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| National Grid plc      | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| Norfolk Boreas Limited | No  | Norfolk Boreas Limited is being developed strategically by Vattenfall, which is the parent company for both Norfolk Boreas Limited and Norfolk Vanguard Limited. The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Npower Limited         | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| Openreach Limited      | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in  |

| Section 56 Consultee                      | Proposed inclusion in Regulation 7 consultation | Rationale   |
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|   |   | the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.   |
| Oranje Nassau Energie                     | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Orsted Hornsea Project Three (UK) Limited | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Peel Electricity Networks Limited         | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Perenco UK Limited                        | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Quadrant Pipelines Limited                | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee          | Proposed inclusion in Regulation 7 consultation | Rationale   |
|-------------------------------|---|---|
| Scotland Gas Networks Plc     | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Scira Offshore Energy Limited | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Shell International Limited   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Southern Gas Networks Plc     | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Tampnet AS                    | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Telefonica UK Limited         | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid  |



| Section 56 Consultee   | Proposed inclusion in Regulation 7 consultation | Rationale   |
|--|---|---|
|  |   | extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| The Electricity Network Company Limited                              | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| The Mid-Norfolk Railway Preservation Trust                           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| The National Trust For Places of Historic Interest or Natural Beauty | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Transmission Capital Partners GP Limited                             | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Tullow Oil plc   | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee                  | Proposed inclusion in Regulation 7 consultation | Rationale   |
|---------------------------------------|---|---|
| UK Power Distribution Limited         | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| UK Power Networks Limited             | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Utility Assets Limited                | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Utility Distribution Networks Limited | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Virgin Media Limited                  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Vattenfall Networks Limited           | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid  |

| Section 56 Consultee  | Proposed inclusion in Regulation 7 consultation | Rationale   |
|---|---|---|
|   |   | extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above.  |
| Vodafone Limited  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Wales and West Utilities Ltd                                    | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Water Management Alliance                                       | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Saltfleetby Energy Limited (formerly Wingas Storage UK Limited) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| WLMA Group Limited  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

| Section 56 Consultee   | Proposed inclusion in Regulation 7 consultation | Rationale   |
|--|---|---|
| Zayo Group UK Limited  | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |
| Landowners or people with an interest in the onshore Order Land (section42(1)d)) | No  | The Application does not seek to make, and will not result in, any onshore changes. As such, there will be no additional impacts, or impacts of greater significance, than those described in the ES. This is true for all onshore aspects including the onshore substation, National Grid extension and all other onshore infrastructure. Notwithstanding this, notices will be published in the Eastern Daily Press to inform local communities of the Application and host Local Authorities will be consulted where requested as indicated above. |

**SCHEDULE 2**

**Draft Newspaper Notice**

**SECTION 153 OF THE PLANNING ACT 2008  
REGULATION 6 OF THE INFRASTRUCTURE PLANNING (CHANGES TO, AND REVOCATION OF,  
DEVELOPMENT CONSENT ORDERS) REGULATIONS 2011  
NOTICE OF APPLICATION TO MAKE A NON-MATERIAL CHANGE TO THE FOLLOWING  
DEVELOPMENT CONSENT ORDER:  
THE NORFOLK VANGUARD OFFSHORE WIND FARM ORDER 2022 (S1 2022/138)**

1. An application has been made by Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the **Applicant**) to the Secretary of State for Business, Energy and Industrial Strategy to make a non-material change to the Norfolk Vanguard Offshore Wind Farm Order 2022 (the **Order**) (**Application**). The contact details of the Applicant are: Norfolk Vanguard Limited and Norfolk Vanguard East Limited, both of, 5th Floor 70, St Mary Axe, London, United Kingdom, EC3A 8BE and [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk).
2. The Order granted consent on 11 February 2022 for the development of an offshore wind farm comprising two distinct areas, NV East and NV West, which are located in the southern North Sea, approximately, 70km and 47km from the coast of Norfolk respectively (at the nearest points) (the **Project**). The Project, located in the southern North Sea, covers an area of approximately 828km<sup>2</sup>. Offshore cables transmitting power from the Project make landfall south of Happisburgh. From there underground cables continue approximately 60km to an onshore project substation, and connect into the National Grid substation near Necton, Norfolk.
3. The Application seeks to make a non-material change to remove the limit on the maximum export capacity for the Project. It will also seek a reduction in turbine numbers from 158 to 145. The Application does not seek to make any onshore changes to the Project.
4. The Application documents can be accessed free of charge electronically at the National Infrastructure Planning Portal (under Norfolk Vanguard, Documents, Documents Published By Stage "Decided", Non-Material Change):  
<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-vanguard>.
5. The latest date that these documents will be available for inspection is 23:59 on 19 July 2022.
6. Any enquiries on the documents can be sent to the Applicant by emailing the Stakeholder Engagement Team on [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) or by calling 0800 019 3517. Paper copies can be requested from the Applicant by emailing [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) but will be subject to a maximum charge of £150 for each copy.
7. To benefit the environment, it is preferable for any representation about the application to be sent by email to the Planning Inspectorate at [NorfolkVanguard@planninginspectorate.gov.uk](mailto:NorfolkVanguard@planninginspectorate.gov.uk). Alternatively, in writing to: **National Infrastructure Planning, The Planning Inspectorate, Temple Quay House, 2 The Square Temple Quay Bristol BS1 6PN**. The Planning Inspectorate reference for the Application (EN010079) should be quoted in any correspondence. If you have difficulty in submitting a representation, please contact [NorfolkVanguard@planninginspectorate.gov.uk](mailto:NorfolkVanguard@planninginspectorate.gov.uk) or 0303 444 5000 and a member of the Planning Inspectorate's case team will be able to assist.
8. Please note that any representations received by the Planning Inspectorate in response to the consultation will be handled in compliance with the United Kingdom's General Data Protection Regulation and published on the relevant page of the Planning Inspectorate's Infrastructure Planning Portal (<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-vanguard/>) with all personal information removed.
9. The deadline for the receipt of representations in relation to the Application is 23:59 on 19 July 2022.

**Norfolk Vanguard Limited and Norfolk Vanguard East Limited**

## Appendix 3 Newspaper notices



Public Notices

## SECTION 153 OF THE PLANNING ACT 2008

Norfolk Vanguard Limited & Norfolk Vanguard East Limited



Notice ID: 11161419

### SECTION 153 OF THE PLANNING ACT 2008

**REGULATION 6 OF THE INFRASTRUCTURE PLANNING (CHANGES TO, AND REVOCATION OF, DEVELOPMENT CONSENT ORDERS) REGULATIONS 2011 NOTICE OF APPLICATION TO MAKE A NON-MATERIAL CHANGE TO THE FOLLOWING DEVELOPMENT CONSENT ORDER:**

#### THE NORFOLK VANGUARD OFFSHORE WIND FARM ORDER 2022 (Si 2022/138)

1. An application has been made by Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the **Applicant**) to the Secretary of State for Business, Energy and Industrial Strategy to make a non-material change to the Norfolk Vanguard Offshore Wind Farm Order 2022 (the Order) (**Application**). The contact details of the Applicant are: Norfolk Vanguard Limited and Norfolk Vanguard East Limited, both of, 5th Floor 70, St Mary Axe, London, United Kingdom, EC3A 8BE and [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk).

2. The Order granted consent on 11 February 2022 for the development of an offshore wind farm comprising two distinct areas, NV East and NV West, which are located in the southern North Sea, approximately, 70km and 47km from the coast of Norfolk respectively (at the nearest points) (the **Project**). The Project covers an area of approximately 8281(1112. Offshore cables transmitting power from the Project make landfall south of Happisburgh. From there underground cables continue approximately 60km to an onshore project substation, and connect into the National Grid substation near Necton, Norfolk.

3. The Application seeks to make a non-material change to remove the limit on the maximum export capacity for the Project. It will also seek a reduction in turbine numbers from 158 to 145. The Application does not seek to make any onshore changes to the Project.

4. The Application documents can be accessed free of charge electronically at the National Infrastructure Planning Portal (under Norfolk Vanguard, Documents, Documents Published By Stage "Decided", Non-Material Change): <https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-vanguard>.

5. The latest date that these documents will be available for inspection is 23:59 on 24 July 2022. 6. Any enquiries on the documents can be sent to the Applicant by emailing the Stakeholder Engagement Team on [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) or by calling 0800 019 3517. Paper copies can be requested from the Applicant by emailing [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) but will be subject to a maximum charge of £150 for each copy.

7. To benefit the environment, it is preferable for any representation about the application to be sent by email to the Planning Inspectorate at [NorfolkVanguard@planninginspectorate.gov.uk](mailto:NorfolkVanguard@planninginspectorate.gov.uk). Alternatively, in writing to: **National Infrastructure Planning, The Planning Inspectorate, Temple Quay House, 2 The Square Temple Quay Bristol BS1 6PN**. The Planning Inspectorate reference for the Application (EN010079) should be quoted in any correspondence. If you have difficulty in submitting a representation, please contact [NorfolkVanguard@planninginspectorate.gov.uk](mailto:NorfolkVanguard@planninginspectorate.gov.uk) or telephone 0303 444 5000 and a member of the Planning Inspectorate's case team will be able to assist.

8. Please note that any representations received by the Planning Inspectorate in response to the consultation will be handled in compliance with the United Kingdom's General Data Protection Regulation and published on the relevant page of the Planning Inspectorate's Infrastructure Planning Portal (<https://infrastructure.planninginspectorate.gov.uk/projects/eastem/norfolk-Vanguard/>) with all personal information removed.

9. The deadline for the receipt of representations in relation to the Application is 23:59 on 24 July 2022.

**Norfolk Vanguard Limited and Norfolk Vanguard East Limited**

 [Download this notice as a PDF](#)

## Most Read



UPDATED

Woman dies in sea off Winterton

SEAN GALEA-PACE



The tiny Norfolk village home to 'Norfolk's best' farm shop and pub

LOUISA BALDWIN



Ed Sheeran delights crowd with surprise Latitude appearance

TOM SWINDLES



Family's emotional tribute to 'loving dad' who died in crash

SIMON PARKIN





## Our Mary Poppins

Norfolk's wedding Nanny  
**Pages 30-31**



## History to life

Inside Norwich Castle's £15m revamp

Page 10



# Satellites will keep wreck looters at bay

Offshore security to guard against sea raiders



Julian and Lincoln Barnwell who discovered the wreck of the Gloucester which sank 340 years ago

Satellites are being used to provide around-the-clock security for the royal shipwreck found off the coast of Great Yarmouth, amid fears looters could plunder its treasures.

The discovery of the Gloucester – which sank in 1682 with the future king James II on board – was revealed last week and made headlines around the world.

It has been described as one of the most important shipwreck finds in decades. Some artefacts have been brought to the surface already and there are plans for future diving expeditions onto the wreck to learn more of its secrets.

**LIZ COATES**

[liz.coates@archant.co.uk](mailto:liz.coates@archant.co.uk)

But the team behind the discovery fear the site could be raided.

To protect the wreck, the group has arranged for the area to be monitored by satellites as well as “people out to sea permanently offshore”. Julian Barnwell, one of two brothers from Wroxham who found the wreck, said: “There’s always the potential threat of looting. It’s something we’re all very conscious of.”

**Full story: Pages 6-7**

**Sport**

Picture: PAUL CHESTERTON



**Target Pukki**  
Interest grows in City striker



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SS-OT01119. While stocks last. Wilco Motor Spares Ltd. A K.J. Shortis Company. E&OE. 2022



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all Failed/Scrap cars,  
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**ALL UNWANTED CARS**  
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ALL cars and vans wanted,  
classic/modern, min.£400-  
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**£200 MINIMUM PAID**

FOR RUNNERS &  
UP TO £2000.

VANS, BOATS AND  
CARAVANS ALSO BOUGHT.  
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**BUY**  
**local**

**Norfolk County Council**  
**NOTICE OF APPLICATION**  
**FOR PLANNING PERMISSION**  
**Town and Country Planning**  
**(Development**  
**Management Procedure)**  
**(England) Order 2015**  
**NOTICE UNDER ARTICLE 15**  
**REF: FUL/2022/0025**

Parish: Weston Longville/Hockering  
Applicant: TMA Bark Supplies Ltd -  
Shane Andrews  
Site: The Old Airfield Hungate  
Common, Weston Longville, Norwich,  
NR9 5JF  
Proposal: Proposed topsoil recycling  
(up to 75,000 tpa), erection of process  
building, workshop, bark dryer,  
associated plant and infrastructure  
(part retrospective)  
Grid Ref: 605541 315264

A planning application for the  
above proposal has been made to  
Norfolk County Council.  
You will find full submission  
documentation of the above planning  
application on our web page  
<http://eplanning.norfolk.gov.uk/>  
Please use the reference number  
FUL/2022/0025 for your search. Due  
to the current COVID 19 pandemic,  
and following Government guidance  
on social distancing and avoiding non-  
essential travel, unfortunately the  
application cannot be viewed at the  
Council's offices (County Hall). This will  
be reviewed when County Hall  
reopens to members of the public.  
You may comment on the application  
by either:

1. Accessing <http://eplanning.norfolk.gov.uk/> and following the online instructions;
2. Writing to Planning Services, Department of Community and Environmental Services, County Hall, Martineau Lane, Norwich, NR1 2SG;
3. Emailing your comments to [maw@norfolk.gov.uk](mailto:maw@norfolk.gov.uk)

Your comments must be received  
within 21 days (excluding public  
holidays) of the date of this notice  
in order to be considered. The  
application will either be determined  
under delegated powers or by the  
Planning (Regulatory) Committee.  
Members of the public can, by prior  
arrangement, speak at meetings of  
the Planning (Regulatory) Committee.  
Please contact Planning Services  
for further details. Please quote  
reference number FUL/2022/0025  
on all correspondence. Any  
correspondence received will be  
retained on a file and will be open to  
public inspection if requested.  
Nick Johnson, On behalf of Executive  
Director of Community and  
Environmental Services, Norfolk  
County Council

#### HORACE WILLIAM ALEXANDER

(Deceased)

Pursuant to the Trustee Act 1925 any  
persons having a claim against or an  
interest in the Estate of the above named,  
late of Westlea Station Close West Runton  
Cromer, NR27 9QG, who died on  
07/01/2022, are required to send written  
particulars thereof to the undersigned on or  
before 15/08/2022, after which date the  
Estate will be distributed having regard only  
to the claims and interests of which they  
have had notice.

**CLAPHAM AND COLLINGE LLP**  
3 Augusta Street, Sheringham NR26 8LA



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**dino toys in**  
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#### Legal and Public Notices

**NOTICE OF APPLICATION**  
**FOR A PREMISES**  
**LICENCE UNDER**  
**THE LICENSING**  
**ACT 2003**

TAKE NOTICE that Broom  
Boats Limited Has applied to  
Broadland District Council for a  
Premises Licence For The White  
Heron, Station Road, Brundall,  
NR13 5LA

The licensable activities  
proposed to carry on or from  
the premises are The Supply of  
alcohol, Provision of late-night  
refreshments, Recorded music,  
Live Music & similar activities,  
The exhibition of films.

Any person wishing to object  
to the grant of the Licence  
should write to the Licensing  
Team, Broadland District  
Council, Thorpe Lodge, 1  
Yarmouth Road, Thorpe St  
Andrew, Norwich NR7 0DU.  
The licensing register can be  
inspected during the Councils  
normal opening hours at the  
Council offices.

It is an offence to knowingly  
or recklessly make a false  
statement in connection with an  
application and the maximum  
fine for which a person is liable  
on summary conviction for the  
offence is £5,000.

Objections must be received  
by Broadland District Council  
Licensing Team in writing no  
later than 7 July 2022

**BROADS AUTHORITY**  
**NOTICE TO MARINERS No. 05 of 2022**  
**Navigation Closure - Dredging Works**  
**Sutton Broad**

Notice is hereby given that temporary river closures  
will be in place, in the vicinity of the Sutton-Stalham  
junction at the south end of Sutton Broad whilst  
dredging operations are being undertaken between  
**Monday 20 June 2022 until Friday 01 July 2022.**  
The closure excludes weekends although width  
restrictions will be in place over this time.

Passage to Sutton and Stalham Staithe will remain  
open. All equipment will be lit and signage will be  
in place to warn of closure and advise of diversions  
route.

For more information including details on the width  
restrictions visit <https://www.broads-authority.gov.uk/boating/navigating-the-broads/boating-news>.

**Rivers Engineer**

**10 June 2022**

## YOUR RIGHTS

If you buy goods from a trader you have rights  
under the Consumer Rights Act. It is important,  
therefore, that you know whether you are buying  
from a trader or a private individual. To protect  
consumers, The Business Advertisements  
(Disclosure) Order 1977 states that trade  
advertisers must clearly identify themselves.

It is the responsibility of the advertiser to  
ensure that their advertisements comply with all  
codes, practices and legislation. In particular,  
any advertiser who seeks to sell goods in the  
course of business must comply with The  
Business Advertisements (Disclosure)  
Order 1977 and make that fact clear in the  
wording of their advertisements.

## SECTION 153 OF THE PLANNING ACT 2008

**REGULATION 6 OF THE INFRASTRUCTURE PLANNING (CHANGES TO, AND REVOCATION OF, DEVELOPMENT CONSENT ORDERS) REGULATIONS 2011**  
**NOTICE OF APPLICATION TO MAKE A NON-MATERIAL CHANGE TO THE FOLLOWING DEVELOPMENT CONSENT ORDER:**

**THE NORFOLK VANGUARD OFFSHORE WIND FARM ORDER 2022 (S1 2022/138)**

1. An application has been made by Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the **Applicant**) to the Secretary of State for Business, Energy and Industrial Strategy to make a non-material change to the Norfolk Vanguard Offshore Wind Farm Order 2022 (the **Order**) (**Application**). The contact details of the Applicant are: Norfolk Vanguard Limited (the **Norfolk Vanguard East Limited**, both of, 5th Floor 70, St Mary Axe, London, United Kingdom, EC3A 8BE and [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk)).
2. The Order granted consent on 11 February 2022 for the development of an offshore wind farm comprising two distinct areas, NV East and NV West, which are located in the southern North Sea, approximately, 70km and 47km from the coast of Norfolk respectively (at the nearest points) (the **Project**). The Project covers an area of approximately 828km<sup>2</sup>. Offshore cables transmitting power from the Project make landfall south of Happisburgh. From there underground cables continue approximately 60km to an onshore project substation, and connect into the National Grid substation near Necton, Norfolk.
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<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-vanguard>.
5. The latest date that these documents will be available for inspection is 23:59 on 24 July 2022.
6. Any enquiries on the documents can be sent to the Applicant by emailing the Stakeholder Engagement Team on [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) or by calling 0800 019 3517. Paper copies can be requested from the Applicant by emailing [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) but will be subject to a maximum charge of £150 for each copy.
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9. The deadline for the receipt of representations in relation to the Application is 23:59 on 24 July 2022.

**Norfolk Vanguard Limited and Norfolk Vanguard East Limited**

**freeads** now available  
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**use this coupon to sell unwanted items**  
**6 days a week. coupon expires 30/07/2022**

(No photocopies) MAX five advertisements per household, per week. (Private advertisers only excludes pets, motoring, property and recruitment). Advertisement will appear within the next available issues of the Eastern Daily Press and Evening News.

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1: Fill in one word per box. 2: Maximum twelve words.

3: Only one item per coupon. 4: Cut out coupon.

5: Post advertisement to us. 6: Include your full postal address.

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Address: .....

..... Postcode: .....

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Tel: .....

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The data provided in this coupon will be used for the purposes of fulfilling your freead, including contacting you if necessary. Following the publication of your Freead we will securely destroy this coupon.

Your trusted local business directory [www.localsearch24.co.uk](http://www.localsearch24.co.uk)



Public Notices

## SECTION 153 OF THE PLANNING ACT 2008

Norfolk Vanguard Limited & Norfolk Vanguard East Limited



Notice ID: 11161419

### SECTION 153 OF THE PLANNING ACT 2008

**REGULATION 6 OF THE INFRASTRUCTURE PLANNING (CHANGES TO, AND REVOCATION OF, DEVELOPMENT CONSENT ORDERS) REGULATIONS 2011 NOTICE OF APPLICATION TO MAKE A NON-MATERIAL CHANGE TO THE FOLLOWING DEVELOPMENT CONSENT ORDER:**

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**Norfolk Vanguard Limited and Norfolk Vanguard East Limited**

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Ed Sheeran delights crowd with surprise Latitude appearance

TOM SWINDLES



Family's emotional tribute to 'loving dad' who died in crash

SIMON PARKIN







Pages 30-31

Picture: DANIELLE BOODEN



**The secret is out**  
Urban area's stunning transformation

## Care for vulnerable faces 'perfect storm'

Warning creaking service will need to help thousands more



James Bullion

Norfolk's head of social care said he has never been so worried about the state of the sector.

A combination of surging inflation and imminent rules changes, which will see thousands more people eligible for council-funded care, have left the already struggling industry in a desperate state.

James Bullion, director of adult social care at Norfolk

**DAN GRIMMER AND DAVID HANNANT**

dan.grimmer@archant.co.uk

County Council, said the financial pressures meant care homes were closing their doors, with bosses struggling to recruit and keep staff.

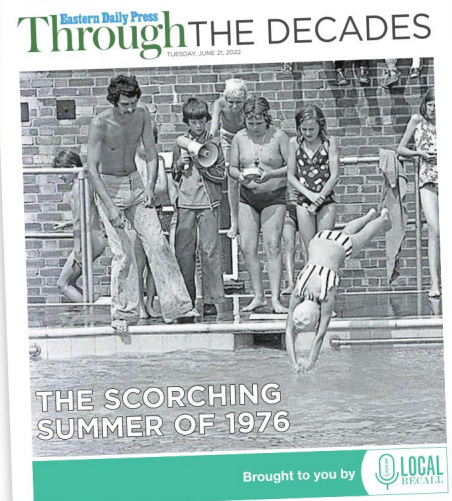
He said: "I have never been so worried about the state of the care market as I am now."

"We have had at least 12 care homes close in the past year. We have had very strong feedback from providers that inflation is adding to their costs."

"I have heard anecdotal reports of staff calling in sick, rather than driving into work because they are struggling to afford the travel."

**Full story: Pages 8-9.**

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The scorching summer of '76



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Page 22

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#### Plant & Machinery

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#### Voluntary Work

#### BROADS LOCAL ACCESS FORUM

##### RECRUITMENT OF VOLUNTARY MEMBERS

If you would like to influence public access improvements in the Broads, we want to hear from you. We are looking for enthusiastic volunteers to fill up to four vacancies on the Broads Local Access Forum, an advisory body that meets four times a year to discuss land and water access in the Broads, the UK's premier wetland landscape.

We are keen to hear from anyone with interests in countryside access including walking, cycling, canoeing, paddle-boarding and general health and wellbeing. We particularly welcome applications from black and minority ethnic communities, young people and people with disabilities.

For an application pack contact Kylie Moos, Broads Local Access Forum, Yare House, 62-64 Thorpe Road, Norwich NR1 1RY, phone **01603 610734** or email **BLAF@broads-authority.gov.uk**

Closing date for applications: Monday 18 July

Interview dates: w/c Monday 8 August

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Source: Confederation of European Paper Industries (CEPI), 2018. CEPI represents 92% of European pulp and paper production.

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#### Legal and Public Notices

### SECTION 153 OF THE PLANNING ACT 2008

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**Norfolk Vanguard Limited and Norfolk Vanguard East Limited**

#### Conditions of Acceptance of Advertisements

##### IMPORTANT:

These Conditions contain an indemnity if You breach Your warranties to Us.

##### 1. General

1.1. These Conditions apply to any advertisement which You have asked Us to publish on Your behalf in a Title (the "Advertisement") and by making such an offer (an "Order") You agree to be bound by these Conditions in that respect. 1.2. These Conditions override any terms stipulated by You on order forms or elsewhere unless We accept those terms in writing. If we do so, these Conditions will apply except to the extent that they are inconsistent with anything so agreed by Us.

##### 2. Definitions

"We" and "Us" means, and "Our" refers to, the Company which is the publisher of the Title in which You have asked Us to publish Your Advertisement.

"Title" means any publication or Website which We publish.

"You" means, and "Your" refers to, the person placing the Order with Us and where that person is an advertising or other agency placing the Advertisement on behalf of their client that agency agrees that it has placed the Order as principal.

##### 3. Orders

3.1. We may insist on You submitting Your Order in writing and if We do so You will not be deemed to have placed an Order until We receive it in writing. If We do not insist that You submit Your Order in writing it is deemed to be placed when the initial Order is made, subject to the terms and conditions below. If You deliver copy instructions to Us, We may treat this as an Order unless it is clearly marked as "not constituting an Order".

3.2. We will notify You if We do not accept Your Order within 3 working days of receiving it. Publication of the Advertisement will mean We have accepted the Order.

3.3. We are not obliged to accept Your Order or to publish any Advertisement placed by You and cannot guarantee insertion, special position, the date or the classification of any such Advertisement, or the distribution of the Title. We will not be liable for any loss or damage incurred as a result of Our failure in these respects. We may reject any Order (in whole or part) prior to (any) publication by notice to You and (to the extent rejected) We will refund any pre-payment in that case but will have no further liability.

3.4. We may carry forward an Advertisement not inserted to the next suitable issue of a Title.

3.5. If You place an Order but fail to provide copy/artwork by the publication deadline, We may repeat any previous relevant Advertisement from You for which We have copy, or use a filler, and charge You the full price of Your Order in any event.

##### 4. Advertising standards, legal obligations and third party rights

4.1. You confirm and warrant to Us that the copy You provide and the publication by Us of an Advertisement pursuant to an Order will:

- be legal, decent, honest and truthful;
- not result in a breach of any relevant Code of Practice, including other provisions of the Advertising Standards Code of Practice
- not breach any legislation;
- not be defamatory;
- not infringe any copyright, trademarks or other legal rights of any person or company and that You have received any consent needed to refer to or portray people (expressly or impliedly) in the Advertisement.

• when appearing on any Archant Website will not contain hyperlinks or metatags linking to the advertiser's own Website unless express prior permission has been granted by Archant.

##### 4.2. You agree:

• to indemnify Us in respect of all costs, damages and other charges We incur or to which We are subject as a result of publication of any Advertisement pursuant to Your Order where there is a breach of any warranty given by You to Us;

• not to be in breach of contract in relation to the Order/Advertisement;

• that We may store, reproduce and distribute copy relating to any Advertisement, including by electronic means;

• that We may without notice or warning destroy any box office correspondence or communication received in response to an Advertisement which We think it inappropriate to deliver;

• that We accept no liability in respect of any loss or damage alleged to have arisen though delay in forwarding or omitting to forward replies to box numbers to the advertiser (however caused)

• that We may liaise with the police and/or any other relevant authority in relation to any Order/Advertisement or any response to any of them We receive (including passing on Your details);

• that We may record and use Your details to perform Our obligations under these Conditions and publish Your Advertisement (including by passing them to other group companies and/or sub-contractors as reasonably necessary to do so);

• if You are an agency acting for a client, that We may provide a proof of the Advertisement directed to the client for approval by whatever means We deem appropriate;

• that We may hold Your details on record for a reasonable period and contact You about future advertising opportunities which We believe may be of interest to You.

• that any material submitted by You is held by Us at Your own risk and should be insured by You against loss or damage from what ever cause. We reserve the right to destroy without notice all such property after the date of its last appearance in an advertisement unless You have given written instructions to the contrary.

• that You acknowledge that We shall have no liability for any variation of up to 10% in the final published size of any advertisement.

##### 5. Cancellation

5.1. We are not obliged to accept a cancellation request (which We may require to be made in writing). All magazine cancellations must be made in writing a one calendar month prior to the publication date. All other cancellations should be made within four working days of publication.

5.2. If We accept a cancellation for part of a series of Advertisements, We may surcharge You for any insertions in that series which are not cancelled.

##### 6. Artwork

6.1. We retain copyright (and any other intellectual property rights) in all Our artwork, copy and other materials in any Advertisement (even if combined with any of Your copyright materials). In addition, You agree that We own the copyright in the typographical arrangement of all Advertisements. No copy in any form will be returned unless agreed in writing by Us at the time of placing the Order.

6.2. We will not be liable for accidental loss or damage to Your copy, including artwork and photographs, in any format. Accordingly, Our liability for non-accidental damage to Your copy will be limited to the value of the medium in which they are embodied.

##### 7. Errors, omissions or inaccuracies in Advertisements

7.1. We will not be liable for:

• any error (including but not limited to spelling and text errors), misprint, inaccuracy or omission in Advertisements, a proof of which has been agreed by You;

• any error (including but not limited to spelling and text errors), misprint, inaccuracy or omission in an Advertisement, if that error is notified to Us more than one week after its publication;

• any error (including but not limited to spelling and text errors) misprint, inaccuracy or omission in a second or subsequent Advertisement in a series;

• any error (including but not limited to spelling and text errors) misprint, inaccuracy or omission in an Advertisement which does not detract from the essence of that Advertisement.

7.2. Where We acknowledge an error (including but not limited to spelling and text errors) misprint, inaccuracy or omission We will, at Our choice, either publish the corrected Advertisement, or issue You a credit note to a value not exceeding the price of the Advertisement and this will be the limit of Our liability in respect of the error, misprint, inaccuracy or omission.

##### 8. Payment

8.1. Except where We state otherwise, all prices are exclusive of VAT.

8.2. You will pay for an Advertisement on placing an Order, unless credit terms have been agreed. You will be sent an invoice unless You have pre-paid (or a direct debit arrangement is in place), in which case You will only be sent an invoice if You request one.

8.3. Credit terms that that payment is due seven days from the date of invoice, unless You apply for, and We grant, a monthly account.

8.4. A query on an item on an invoice issued by Us will not affect the time at which You are liable to pay the rest of that or any other invoice issued by Us.

8.5. If You do not pay a sum due to Us by the due date, all sums due by You to Us become payable on the due date for the sum not paid and We may suspend further advertising for You and charge You compensation and interest according to the Late Payment of Commercial Debts (Interest) Act 1998.

##### 9. Applicable Law

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9.2. These Conditions shall be governed by and construed in accordance with the laws of England and Wales.



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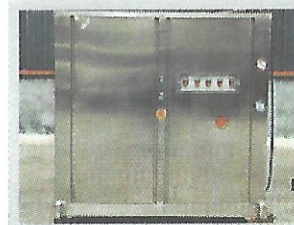
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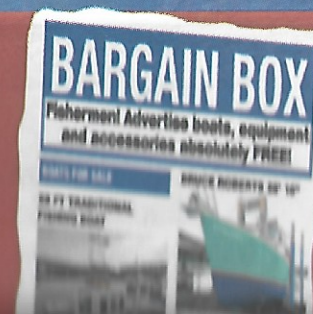
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## Appendix 4 Letter inviting stakeholder consultation

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13 June 2022

### **The Norfolk Vanguard Offshore Wind Farm Order 2022**

#### **Application for a Non-material Change (removal of maximum export capacity and reduction in turbine numbers)**

Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the **Applicant**) has submitted an application to the Department for Business, Energy and Industrial Strategy (**BEIS**) seeking a non-material change to the Norfolk Vanguard Offshore Wind Farm Order 2022 (the **Application**) in accordance with the Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 (as amended) (**2011 Regulations**). The Norfolk Vanguard Offshore Wind Farm Order 2022 (the **Order**) granted consent on 11 February 2022 for the development of an offshore wind farm comprising two distinct areas, NV East and NV West, which are located in the southern North Sea, approximately, 70km and 47km from the coast of Norfolk respectively (at the nearest points) (the **Project**). The Project covers an area of approximately 828km<sup>2</sup>. Offshore cables transmitting power from the Project make landfall south of Happisburgh. From there underground cables continue approximately 60km to an onshore project substation, and connect into the National Grid substation near Necton, Norfolk.

On 17 December 2021, Norfolk Vanguard East Limited entered into an agreement for lease with The Crown Estate in respect of (i) part of the wind farm array area and (ii) the cable corridor. Therefore, Norfolk Vanguard Limited and Norfolk Vanguard East Limited both hold an interest in the land to which the Order relates and are making this Application as a joint applicant. For the avoidance of doubt this non-material change application does not seek a change to any order limits.

The Application seeks to remove the limit on the maximum export capacity for the Project. It also seeks a reduction in turbine numbers from 158 to 145. These amendments are sought to allow the Project to benefit from continuing technological developments in the offshore wind industry and to further reduce the costs of energy produced by the Project to the consumer in line with government policy. On 27 June 2019, following advice from the Committee on Climate Change, the UK Government announced a new carbon reduction 'net zero' target for 2050 which resulted in an amendment to the Climate Change Act 2008; the target for the net UK carbon account for 2050 changed from 80% to 100% below the 1990 baseline. The Energy White Paper, Powering our Net Zero Future, was published on 14 December 2020. The white paper puts net zero and the UK government's effort to fight climate change at its core, following the Prime Minister's Ten Point Plan for a Green Industrial Revolution. Facilitating an increase in the capacity of the Norfolk Vanguard Wind Farm will further the contribution of the project to the government's goals and further assist in the fight against climate change.

The Supporting Statement for the Application concludes that the proposed amendments will not result in any new or materially different likely significant effects from those described in the original Environmental Statement and will not adversely affect the integrity of any protected site forming part of the National Site Network.

The Application does not seek any changes to the onshore elements of the Project.

A separate application is being made to the Marine Management Organisation (MMO) to vary the Deemed Marine Licences in line with the changes in this Application.

In order to assist your consideration of the Application, we enclose copies of the documents outlined below:

**1. SUPPORTING STATEMENT**

1.1 This document includes:

- 1.1.1 The details of the proposed non-material change to the Order as prescribed by the 2011 Regulations;
- 1.1.2 An explanation as to why the proposed change is considered non-material; and
- 1.1.3 Considers whether the changes sought would give rise to likely significant effects on the environment or would adversely affect the integrity of any protected site forming part of the National Site Network.

1.2 A copy of the Supporting Statement will also be sent to the MMO in support of the separate application to vary the Deemed Marine Licences.

**2. THE DRAFT AMENDMENT ORDER**

2.1 The enclosed draft Amendment Order sets out the amendments proposed to the Order to reflect the changes sought.

**3. A TRACK CHANGES VERSION OF THE ORDER**

3.1 This document highlights, in tracked changes, the proposed amendments to the Order.

**4. A TRACKED CHANGES VERSION OF THE DEEMED MARINE LICENSES**

4.1 As a separate, parallel, application is being made to the MMO to vary the Deemed Marine Licences (**DMLs**), a copy of the DMLs with the proposed changes shown in tracked changes, has been enclosed for reference.

**5. A COPY OF THE NEWSPAPER NOTICE REQUIRED BY REGULATION 6 OF THE 2011 REGULATIONS (NOTICE)**

5.1 Notice of the Application is being published as required by Regulation 6 of the 2011 Regulations, and pursuant to Regulation 7(1) of the 2011 Regulations, a copy of the Notice is enclosed for your information.

5.2 Any representation about the Application should be sent by email to the Planning Inspectorate at [NorfolkVanguard@planninginspectorate.gov.uk](mailto:NorfolkVanguard@planninginspectorate.gov.uk). Alternatively, representations can be sent to the Planning Inspectorate in writing to: **National Infrastructure Planning, The Planning Inspectorate, Temple Quay House, 2 The Square Temple Quay Bristol BS1 6PN**. The Planning Inspectorate's reference for the Application (EN010079) should be quoted in any correspondence. If you have difficulty in submitting a representation, please contact [NorfolkVanguard@planninginspectorate.gov.uk](mailto:NorfolkVanguard@planninginspectorate.gov.uk) or telephone 0303 444 5000 and a member of the Planning Inspectorate's case team will be able to assist you.

5.3 Please note that any representations received by the Planning Inspectorate in response to the consultation will be handled in compliance with the United Kingdom's General Data Protection Regulation and published on the relevant page of the Planning Inspectorate's Infrastructure Planning Portal (<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-vanguard/>) with all personal information removed.

**5.4 The deadline for the receipt of representations in relation to the Application is 23:59 on 24 July 2022.**

We would be grateful if you would acknowledge safe receipt of this letter and its enclosures.

If you have any questions or require clarification on the content of this letter or accompanying information, please do not hesitate to contact us.

Yours sincerely

A handwritten signature in blue ink, appearing to read 'R. Lean'.

Ruari Lean

Norfolk Vanguard Project Manager

Enclosures:

1. The Supporting Statement;
2. The draft Amendment Order;
3. The tracked changes version of the Order;
4. The tracked changes version of the Deemed Marine Licences; and
5. The newspaper notice as required by Regulation 7(1) of the 2011 Regulations.

## Appendix 5 Redacted copies of representations

## 1. Broadland District Council



**From:** Claire Curtis [REDACTED]  
**Sent:** 11 July 2022 15:31  
**To:** Norfolk Vanguard <NorfolkVanguard@planninginspectorate.gov.uk>  
**Cc:** info@norfolkvanguard.co.uk  
**Subject:** The Norfolk Vanguard Offshore Wind Farm Order 2022 - Non-material change

Dear Sir/Madam

**The Norfolk Vanguard Offshore Wind Farm Order 2022  
Application for a Non-material Change (removal of maximum export capacity and reduction in turbine numbers)** in accordance with the Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 (as amended) (2011 Regulations).

I can confirm on behalf of Broadland District Council that we have no comments to make in respect of the proposed non-material amendment as the application does not seek any changes to the onshore elements of the project.

Your sincerely  
Claire Curtis

**Claire Curtis (Mrs)**  
**Area Team Manager**  
t 01508 533788 [REDACTED]



This email and any attachments are intended for the addressee only and may be confidential. If they come to you in error you must take no action based on them, nor must you copy or show them to anyone. Please advise the sender by replying to this email immediately and then delete the original from your computer. Unless this email relates to Broadland District Council or South Norfolk Council business it will be regarded by the council as personal and will not be authorised by or sent on behalf of the councils. The sender will have sole responsibility for any legal actions or disputes that may arise. We have taken steps to ensure that this email and any attachments are free from known viruses but in keeping with good computing practice, you should ensure they are virus free. Emails sent from and received by members and employees of Broadland District Council and South Norfolk Council may be monitored.



## 2. Defence Infrastructure Organisation



Defence  
Infrastructure  
Organisation

Jon Wilson  
Senior Safeguarding Manager  
Ministry of Defence  
Safeguarding Department  
Defence Infrastructure Organisation  
St George's House  
DIO Head Office  
DMS Whittington  
Lichfield  
Staffordshire WS14 9PY

Telephone: [REDACTED]

E-mail: [REDACTED]

Application Reference: EN010079

Our Reference: DIO 10040016

National Infrastructure Planning  
The Planning Inspectorate  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol  
BS1 6PN

22<sup>nd</sup> July 2022

Dear Sir/Madam,

**The Norfolk Vanguard Offshore Wind Farm Order 2022 Application for a Non-material Change**

**Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 (as amended) (2011 Regulations)**

I write to confirm the safeguarding position of the Ministry of Defence (MOD) in relation to the above application to make a non-material change to the Development Consent Order (DCO) granted in 2022.

The application seeks to make changes to the parameters relating to the wind turbine generators that will feature in the development. The changes sought are to:

- Remove the limit on the maximum export capacity of the wind farm;
- reduce the maximum, total number of wind turbines that can be built in this development from 158 to 145;

The MOD has assessed the impacts of the changes proposed.

The changes sought will not physically impact upon MOD offshore Danger and Exercise Areas or adversely affect defence maritime navigational interests.

The turbines and some of the tall ancillary offshore structures will affect military low flying training activities that may be conducted in this area. The need for this development to be fitted with

aviation warning lighting was identified in relation to the original application and the amended DCO includes a relevant Requirement, 12 – Aviation Safety.

Wind turbines have been shown to have detrimental effects on the operation of air defence radar. These include the desensitisation of the radar in the vicinity of wind turbines, and the creation of "false" aircraft returns. The probability of the radar detecting aircraft flying over or in the locality of the turbines would be reduced, hence turbine proliferation within a specific locality can result in unacceptable degradation of the radar's operational integrity. This would reduce the RAF's ability to detect and manage aircraft in United Kingdom sovereign airspace, thereby preventing it from effectively performing its primary function of Air Defence of the United Kingdom.

In relation to the operation of defence radars, it has been determined that the proposed wind farm will be in line of sight and detectable to the air defence radar currently located at Remote Radar Head (RRH) Trimingham ("air defence radar").

Our assessments have determined that the proposed wind farm will cause unacceptable and unmanageable interference to the effective operation of this air defence radar.

The impact of the development upon the operation of the air defence radar and the need for this to be mitigated has been recognised by the applicant.

Requirement 13 (Ministry of Defence surveillance operations) as included in the DCO granted for this development, defines a requirement for the provision of a mitigation to address the impacts the development will have on the air defence radar at RRH Trimingham.

The MOD is relocating the air defence radar currently located at RRH Trimingham to MOD land at RAF Neatishead, Norfolk which will establish RRH Neatishead. This is scheduled to be completed before the consented Norfolk Boreas offshore wind farm becomes operational.

When the air defence radar is relocated and operated from RRH Neatishead the consented Norfolk Boreas offshore wind farm will continue to be in line of sight and detectable to this air defence radar causing unacceptable and unmanageable interference.

Therefore, there remains a requirement for this air defence radar to be mitigated to address the impacts that this development will cause.

In view of the forthcoming relocation of the air defence radar, the MOD considers it appropriate that the wording of Requirement 13 is revised to replace the reference to RRH Trimingham with RRH Neatishead. The amended version of this Requirement proposed is included at Annex A below.

It should also be noted that since the DCO was granted the Defence Infrastructure Organisation Head Office has been relocated. As such all references to the "Defence Infrastructure Organisation Safeguarding" included in the DCO should be amended to replace the postal address currently included with that detailed below:

St George's House  
DIO Head Office  
DMS Whittington  
Lichfield  
Staffordshire  
WS14 9PY

I have amended the address for the Defence Infrastructure Organisation included in the text of Requirement 13 at Annex A accordingly.

I can therefore confirm that, the MOD maintains no safeguarding objection to this non-material amendment application subject to the retention of Requirements 12 and 13 in any amended DCO that may be issued for this development and that the wording of Requirement 13 is amended as set out in Annex A below.

I trust this clarifies our position on this consultation. Please do not hesitate to contact me should you wish to consider these points further.

Yours faithfully,

A black rectangular redaction box covering the signature of Jon Wilson.

Jon Wilson  
Senior Safeguarding Manager

## **Annex A**

### **Aviation safety**

**12.—**(1) The undertaker must exhibit such lights, with such shape, colour and character and at such times as are required in writing by Air Navigation Order 2016(a) and/or determined necessary for aviation safety in consultation with the Defence Infrastructure Organisation Safeguarding and as directed by the CAA. Lighting installed specifically to meet Ministry of Defence aviation safety requirements must remain operational for the life of the authorised development unless otherwise agreed in writing with the Ministry of Defence.

(2) The undertaker must notify the Defence Infrastructure Organisation Safeguarding, at least 14 days prior to the commencement of the offshore works, in writing of the following information—

- a) the date of the commencement of construction of the offshore works;
- b) the date any wind turbine generators are brought into use;
- c) the maximum height of any construction equipment to be used;
- d) the maximum heights of any wind turbine generator, meteorological mast, offshore electrical platform and offshore service platform to be constructed; and
- e) the latitude and longitude of each wind turbine generator, meteorological mast, offshore electrical platform and offshore service platform to be constructed,

and the Defence Infrastructure Organisation Safeguarding must be notified of any changes to the information supplied under this paragraph and of the completion of the construction of the offshore works.

### **Ministry of Defence surveillance operations**

**13.—**(1) No wind turbine generator forming part of the authorised development is permitted to rotate its rotor blades on its horizontal axis until the Secretary of State having consulted with the Ministry of Defence confirms satisfaction in writing that appropriate mitigation will be implemented and maintained for the life of the authorised development and that arrangements have been put in place with the Ministry of Defence to ensure that the approved mitigation is implemented.

(2) For the purposes of this requirement—

- (a) “appropriate mitigation” means measures to prevent or remove any adverse effects which the authorised development will have on the air defence radar at Remote Radar Head (RRH) Neatishead and the Ministry of Defence’s air surveillance and control operations;
- (b) “approved mitigation” means the detailed Radar Mitigation Scheme (RMS) that will set out the appropriate measures and timescales for implementation as agreed with the Ministry of Defence at the time the Secretary of State confirms satisfaction in writing in accordance with paragraph (1); and
- (c) “Ministry of Defence” means the Ministry of Defence as represented by Defence Infrastructure Organisation – Safeguarding, St George’s House, DIO Head Office, DMS Whittington, Lichfield, Staffordshire WS14 9PY or any successor body.

(3) The undertaker must thereafter comply with all other obligations contained within the approved mitigation for the life of the authorised development.

### 3. Eastern Inshore Fisheries & Conservation Authority (EIFCA)

Mr. Ruari Lean

Our Ref: Co\_2022\_06\_15-426

18 July 2022

### **Non-material Change Application for Removal of Maximum Export Capacity Limit on Norfolk Vanguard Offshore Windfarm Cables.**

Dear Mr. Lean,

Thank you for your invitation to provide comment on the proposed removal of maximum export capacity limits on the Norfolk Vanguard offshore wind farm cables as outlined in the application, and for providing Eastern IFCA with the associated documents.

The role of the Eastern IFCA is “to lead, champion and manage a sustainable marine environment and inshore fisheries” in our district, which extends from the Humber to Harwich and six nautical miles out to sea. As the application relates to an area within our district, and given the potential for impacts upon inshore fisheries and habitats, it is considered appropriate for Eastern IFCA to provide comment on the proposal.

In all consultation responses, the Authority assesses applications (and pre-applications) according to the Eastern IFCA vision and adherence of those same applications with policies detailed in the relevant marine plan, as directed under section 58(1) of the Marine and Coastal Access Act 2009. The plans relevant to the Authority’s district are the East Inshore and East Offshore Marine Plans. We consider whether proposed developments will have a positive, negative or negligible effect on plan policies related to the IFCA vision to “manage a sustainable marine environment and inshore fisheries”. These considerations also enable the IFCA to provide advice in relation to the need to protect the environment, the need to protect human health and the need to prevent interference with other legitimate users of the sea.

#### ***East Marine Plan policy considerations:***

The Authority has reviewed the associated documents and have considered the extent to which the application addresses the following policies within Eastern IFCA’s remit:

**BIO 1, MPA 1, FISH 2** - *Appropriate weight should be attached to biodiversity taking account of the best available evidence, including on habitats and species that are protected or of conservation concern; Impacts on the overall Marine Protected Area network must be taken account of in strategic level measures and assessments, with due regard given to any current agreed advice on an ecologically coherent network;*

*Proposals should demonstrate that they will not have an adverse impact upon spawning and nursery areas and any associated habitat.*

Within the project there are aspects of potential impacts on features of Marine Protected Areas. We defer to the advice and comments of the relevant Statutory Nature Conservation Body in connection with these potential impacts, except where there may be an interaction with Eastern IFCA core remit.

In this case, the Eastern IFCA core remit pertains to the management of inshore fisheries to support the conservation objectives for the Haisborough, Hammond & Winterton Special Area of Conservation (HHW SAC), which the export cable corridor passes through. EIFCA understand that the developer has taken necessary precautions avoid the *Sabellaria spinulosa* reefs features present within the SAC, and that compensatory measures are being implemented by the developer to offset the impacts of the cable route on the designated features of the MPA. Eastern IFCA do not consider the proposal to remove the maximum export capacity limit for Norfolk Vanguard will affect Eastern IFCA's remit to protect designated MPA features from fisheries damage.

However, the agreed cable route passes through areas of sandy and coarse sediment (which are designated sub-features of the subtidal sandbanks SAC feature) both within the SAC as well as further inshore. These habitats are typically colonized by burrowing fauna of worms, crustaceans, bivalve molluscs and echinoderms (JNCC 2022). These habitats also provide important breeding and nursery grounds for young commercially important fish, including European plaice (*Pleuronectes platessa*), common dab (*Limanda limanda*), and sandeel (*Ammodytes* spp.) (Natural England 2018). EIFCA is concerned about the potential impacts of electromagnetic fields (EMF) created by the Norfolk Vanguard cables on both commercial and non-commercial species, and how these impacts may increase due to the increased power transmission resulting from the removal of cable export limits.

It is considered that export cables have higher EMF emissions compared to inter turbine cables, with Thomsen *et al.*, (2015) also finding higher EMF values around export cables than around wind turbine bases. While EMF typically dissipates within 10m of the source, it is not explained in the attached documentation how the removal of the export limit may affect the levels of EMF emitted by the export cables.

It is likely that mobile commercial species such as Edible crab (*Cancer pagurus*), European lobster (*Homarus Gammarus*), European plaice (*Pleuronectes platessa*) and Sandeel (*Ammodytes* spp) will encounter sub-sea power cables and thus be exposed



to EMF. Crustacea in particular are known to inhabit areas around offshore cable burial sites, particularly scour protection zones which can act as artificial reefs. Eastern IFCA acknowledge that the effects of EMF on fish and invertebrates are difficult to study, but that there is some evidence of effects. A study by Scott *et al.*, (2018) found that, in aquarium experiments, *C. pagurus* showed an attraction to the source of EMF as well as a reduction in roaming behaviour, alteration of their natural circadian rhythms and disrupted cycles of metabolic markers. This attraction to the source of EMF emission caused the crabs to spend significant amounts of time within the affected area, which, in-situ may come at the cost of time spent foraging for food, seeking mates and finding shelter, potentially leading to higher predation rates, increased death due to starvation and/or decreased number of successful matings.

Additionally, berried female *C. pagurus* move offshore and spend 6–9 months buried with minimal movement and lower feeding rates (Williamson, 1900; Edwards, 1979; Howard, 1982; Naylor *et al.*, 1997). Given this species' proven attraction to EMF sources, incubation of the eggs may take place around areas with increased EMF emissions. Long term studies are therefore needed to investigate the effects of chronic EMF exposure on egg development, hatching success and larval fitness. As larval stages are critical population bottlenecks, any negative effect of EMF on crab larvae will have a drastic effect on the edible crab fishery (Scott *et al.*, 2018). EMF effects on European lobster larvae have also been recorded in laboratory studies; Harsanyi *et al* (2022) found that exposure to EMF throughout embryonic development resulted in deformities in stage 1 lobster and crabs, specifically decreased carapace height, reduced total length and smaller maximum eye diameters. Lobster larvae exposed to EMF also exhibited reduced swimming abilities. These traits may ultimately affect larval mortality, recruitment and dispersal in European lobsters (Harsanyi *et al.*, 2022) which has the potential to, over time, severely impact the European lobster population within the EIFCA district.

Eastern IFCA therefore recommend the applicant consider undertaking appropriate modelling to calculate the likely EMF emitted from the export cables in the absence of an export limit (if this has not already been done) and/or consider regularly monitoring power transmission from the windfarm and EMF transmission on a regular basis to better understand the relationship between power transmission, cable material and EMF. This would help to inform studies on the effects of EMF on marine organisms and contribute to the very limited evidence base on these interactions. Eastern IFCA understand that the applicant intends to bury the export cables in the seabed, which will have the effect of reducing EMF levels at the seabed compared to surface-laid cables. However, Eastern IFCA is aware of wind farm export cables not remaining buried despite developer's intentions and ask whether additional measures have been considered ensure burial of cables is maintained (which would help minimise increases

in EMF transmission caused by the removal of the export limit) such as increased cable burial depth, cable material, cable layout and sheathing. Eastern IFCA therefore urge that EMF impacts are given full consideration before a decision is made on the removal of maximum export capacity limits.

Hopefully you will find these comments useful, but please contact me should you have any queries on the above response.

Yours sincerely,

Zoe Pearson

**Marine Science Officer**

[REDACTED]

*Eastern IFCA is continually seeking to improve how we respond to consultations, both in terms of efficiency and meaningful content. Therefore, if any of the points raised in this response are reflected in the license outcome, we would appreciate being informed.*

### References

Edwards, E., 1979. *edible crab and its fishery in British waters*. Fishing News Books.

Harsanyi, P., Scott, K., Easton, B.A., de la Cruz Ortiz, G., Chapman, E.C., Piper, A.J., Rochas, C.M. and Lyndon, A.R., 2022. The Effects of Anthropogenic Electromagnetic Fields (EMF) on the Early Development of Two Commercially Important Crustaceans, European Lobster, *Homarus gammarus* (L.) and Edible Crab, *Cancer pagurus* (L.). *Journal of Marine Science and Engineering*, 10(5), p.564.

Howard, A.E., 1982. The distribution and behaviour of ovigerous edible crabs (*Cancer pagurus*), and consequent sampling bias. *ICES Journal of Marine Science*, 40(3), pp.259-261.

JNCC., 2022. 1110 Sandbanks which are slightly covered by sea water all the time. Available at: [REDACTED]. Accessed 26/05/2022

Natural England., 2018. Natural England and JNCC Conservation Advice for Marine Protected Areas Haisborough, Hammond and Winterton SAC. Available at [REDACTED]. Accessed 26/05/2022.

Naylor, J.K., Taylor, E.W. and Bennett, D.B., 1997. The oxygen uptake of ovigerous edible crabs (*Cancer pagurus*)(L.) and their eggs. *Marine & Freshwater Behaviour & Phy*, 30(1), pp.29-44.

Scott, K., Harsanyi, P. and Lyndon, A.R., 2018. Understanding the effects of electromagnetic field emissions from Marine Renewable Energy Devices (MREDs) on the commercially important edible crab, *Cancer pagurus* (L.). *Marine Pollution Bulletin*, 131, pp.580-588.

Williamson, H.C., 1900. *Contributions to the life-history of the edible crab (Cancer pagurus, Linn.)*. Fishery Board of Scotland.

## 4. Historic England



Historic England

National Infrastructure Planning,  
The Planning Inspectorate,  
Temple Quay House,  
2 The Square Temple Quay  
Bristol BS1 6PN

Our ref: OWF/Vanguard  
Your ref: EN010079

Telephone

15<sup>th</sup> July 2022

Dear Sir/Madam,

**Norfolk Vanguard Offshore Wind Farm Order:  
Application for non-material change**

We are writing to you following receipt of a letter (dated 13<sup>th</sup> June 2022) from R. Lean Esq of Norfolk Vanguard Ltd, regarding their submission of an application to the Department for Business, Energy and Industrial Strategy for a non-material change to the Norfolk Vanguard Offshore Wind Farm Order granted on 11<sup>th</sup> February 2022.

We understand that the application seeks to remove the limit on the maximum export capacity for the project and to reduce Wind Turbine Generators from 158 to 145. We note that these proposed changes are within the consented envelope that was assessed within the Environmental Statement (ES) and that no change to these parameters is proposed as part of this Non-Material Change application.

We have considered the information provided within Tables 1 and 2 within the *Norfolk Vanguard Offshore Wind Farm DCO Non-Material Change Supporting Statement* (Reference: PB5640.008.0023; Date: June 2022) and we are prepared to accept the explanation provided that there will be no changes to the foundations' sizes or in the installation methods from those previously assessed within the ES. We therefore have no further comment or other advice to offer.

Yours faithfully,



**Dr Christopher Pater  
Head of Marine Planning**



Historic England, 4<sup>th</sup> Floor, Cannon Bridge House, 25 Dowgate Hill, London EC4R 2YA  
Telephone 020 7973 3700 Facsimile 020 7973 3001  
[HistoricEngland.org.uk](http://HistoricEngland.org.uk)

Please note that Historic England operates an access to information policy.  
Correspondence or information which you send us may therefore become publicly available.



## 5. Marine Management Organisation (MMO)





Marine  
Management  
Organisation

Marine Licensing  
Lancaster House  
Hampshire Court  
Newcastle Upon Tyne  
NE4 7YH

T +44 (0)191 376 2791

Norfolk Vanguard  
Planning Inspectorate  
[norfolkvanguard@planninginspectorate.gov.uk](mailto:norfolkvanguard@planninginspectorate.gov.uk)  
(Email only)

Planning Inspectorate reference: EN010079

MMO reference: DCO/2016/00002

23 June 2022

Dear Sir or Madam,

### **Non-Material Change Application to the Norfolk Vanguard Offshore Wind Farm Order 2021**

On 13 June 2022 the Marine Management Organisation (MMO) received notice that Norfolk Vanguard Limited and Norfolk Vanguard East Limited have submitted a non-material change application to The Department for Business, Energy and Industrial Strategy (BEIS) to make changes to the Norfolk Vanguard Offshore Wind Farm Order 2022. The changes to the development consent order (DCO) as amended are in relation to the offshore works for Norfolk Vanguard Offshore Wind Farm only. This document comprises the MMO's comments in respect of this non-material change application.

The non-material changes being sought are as follows:

- The removal of the maximum electrical export capacity of the development authorised by the Order.
- A reduction in the number of wind turbine generators used from 158 to 145.

The MMO has no objection to the amendments proposed in the non-material change application.

### **Conclusion**

1. The MMO has no objection to the removal of the maximum electrical export capacity of the development.
2. The MMO has no objection to the reduction in the number of wind turbine generators used from 158 to 145.
3. The non-material change application will necessitate an application to the MMO to vary the deemed marine licences (DMLs), (Schedules 9 and 10 of the DCO). The MMO received a separate request to vary the DMLs on 13 June 2022 and is currently processing this. The Planning Inspectorate will be consulted on the DML variation in due course.
4. Finally, the MMO requests that we are notified of the outcome of the non-material change application.



ENVIRONMENT  
**ISO 14001**  
CERTIFIED



QUALITY  
**ISO 9001**  
CERTIFIED



INVESTORS  
IN PEOPLE

Bronze





Yours Sincerely



Peter Ryalls  
Marine Licensing Case Officer

D +44 (0)20 3025 8056



## 6. Ministry of Defence (MoD)



Defence  
Infrastructure  
Organisation

Jon Wilson  
Senior Safeguarding Manager  
Ministry of Defence  
Safeguarding Department  
Defence Infrastructure Organisation  
St George's House  
DIO Head Office  
DMS Whittington  
Lichfield  
Staffordshire WS14 9PY

Telephone: [REDACTED]

E-mail: [REDACTED]

Application Reference: EN010079

Our Reference: DIO 10040016

National Infrastructure Planning  
The Planning Inspectorate  
Temple Quay House  
2 The Square  
Temple Quay  
Bristol  
BS1 6PN

22<sup>nd</sup> July 2022

Dear Sir/Madam,

**The Norfolk Vanguard Offshore Wind Farm Order 2022 Application for a Non-material Change**

**Infrastructure Planning (Changes to, and Revocation of, Development Consent Orders) Regulations 2011 (as amended) (2011 Regulations)**

I write to confirm the safeguarding position of the Ministry of Defence (MOD) in relation to the above application to make a non-material change to the Development Consent Order (DCO) granted in 2022.

The application seeks to make changes to the parameters relating to the wind turbine generators that will feature in the development. The changes sought are to:

- Remove the limit on the maximum export capacity of the wind farm;
- reduce the maximum, total number of wind turbines that can be built in this development from 158 to 145;

The MOD has assessed the impacts of the changes proposed.

The changes sought will not physically impact upon MOD offshore Danger and Exercise Areas or adversely affect defence maritime navigational interests.

The turbines and some of the tall ancillary offshore structures will affect military low flying training activities that may be conducted in this area. The need for this development to be fitted with

aviation warning lighting was identified in relation to the original application and the amended DCO includes a relevant Requirement, 12 – Aviation Safety.

Wind turbines have been shown to have detrimental effects on the operation of air defence radar. These include the desensitisation of the radar in the vicinity of wind turbines, and the creation of "false" aircraft returns. The probability of the radar detecting aircraft flying over or in the locality of the turbines would be reduced, hence turbine proliferation within a specific locality can result in unacceptable degradation of the radar's operational integrity. This would reduce the RAF's ability to detect and manage aircraft in United Kingdom sovereign airspace, thereby preventing it from effectively performing its primary function of Air Defence of the United Kingdom.

In relation to the operation of defence radars, it has been determined that the proposed wind farm will be in line of sight and detectable to the air defence radar currently located at Remote Radar Head (RRH) Trimingham ("air defence radar").

Our assessments have determined that the proposed wind farm will cause unacceptable and unmanageable interference to the effective operation of this air defence radar.

The impact of the development upon the operation of the air defence radar and the need for this to be mitigated has been recognised by the applicant.

Requirement 13 (Ministry of Defence surveillance operations) as included in the DCO granted for this development, defines a requirement for the provision of a mitigation to address the impacts the development will have on the air defence radar at RRH Trimingham.

The MOD is relocating the air defence radar currently located at RRH Trimingham to MOD land at RAF Neatishead, Norfolk which will establish RRH Neatishead. This is scheduled to be completed before the consented Norfolk Boreas offshore wind farm becomes operational.

When the air defence radar is relocated and operated from RRH Neatishead the consented Norfolk Boreas offshore wind farm will continue to be in line of sight and detectable to this air defence radar causing unacceptable and unmanageable interference.

Therefore, there remains a requirement for this air defence radar to be mitigated to address the impacts that this development will cause.

In view of the forthcoming relocation of the air defence radar, the MOD considers it appropriate that the wording of Requirement 13 is revised to replace the reference to RRH Trimingham with RRH Neatishead. The amended version of this Requirement proposed is included at Annex A below.

It should also be noted that since the DCO was granted the Defence Infrastructure Organisation Head Office has been relocated. As such all references to the "Defence Infrastructure Organisation Safeguarding" included in the DCO should be amended to replace the postal address currently included with that detailed below:

St George's House  
DIO Head Office  
DMS Whittington  
Lichfield  
Staffordshire  
WS14 9PY

I have amended the address for the Defence Infrastructure Organisation included in the text of Requirement 13 at Annex A accordingly.

I can therefore confirm that, the MOD maintains no safeguarding objection to this non-material amendment application subject to the retention of Requirements 12 and 13 in any amended DCO that may be issued for this development and that the wording of Requirement 13 is amended as set out in Annex A below.

I trust this clarifies our position on this consultation. Please do not hesitate to contact me should you wish to consider these points further.

Yours faithfully,

A black rectangular redaction box covering the signature of Jon Wilson.

Jon Wilson  
Senior Safeguarding Manager

## **Annex A**

### **Aviation safety**

**12.—**(1) The undertaker must exhibit such lights, with such shape, colour and character and at such times as are required in writing by Air Navigation Order 2016(a) and/or determined necessary for aviation safety in consultation with the Defence Infrastructure Organisation Safeguarding and as directed by the CAA. Lighting installed specifically to meet Ministry of Defence aviation safety requirements must remain operational for the life of the authorised development unless otherwise agreed in writing with the Ministry of Defence.

(2) The undertaker must notify the Defence Infrastructure Organisation Safeguarding, at least 14 days prior to the commencement of the offshore works, in writing of the following information—

- a) the date of the commencement of construction of the offshore works;
- b) the date any wind turbine generators are brought into use;
- c) the maximum height of any construction equipment to be used;
- d) the maximum heights of any wind turbine generator, meteorological mast, offshore electrical platform and offshore service platform to be constructed; and
- e) the latitude and longitude of each wind turbine generator, meteorological mast, offshore electrical platform and offshore service platform to be constructed,

and the Defence Infrastructure Organisation Safeguarding must be notified of any changes to the information supplied under this paragraph and of the completion of the construction of the offshore works.

### **Ministry of Defence surveillance operations**

**13.—**(1) No wind turbine generator forming part of the authorised development is permitted to rotate its rotor blades on its horizontal axis until the Secretary of State having consulted with the Ministry of Defence confirms satisfaction in writing that appropriate mitigation will be implemented and maintained for the life of the authorised development and that arrangements have been put in place with the Ministry of Defence to ensure that the approved mitigation is implemented.

(2) For the purposes of this requirement—

- (a) “appropriate mitigation” means measures to prevent or remove any adverse effects which the authorised development will have on the air defence radar at Remote Radar Head (RRH) Neatishead and the Ministry of Defence’s air surveillance and control operations;
- (b) “approved mitigation” means the detailed Radar Mitigation Scheme (RMS) that will set out the appropriate measures and timescales for implementation as agreed with the Ministry of Defence at the time the Secretary of State confirms satisfaction in writing in accordance with paragraph (1); and
- (c) “Ministry of Defence” means the Ministry of Defence as represented by Defence Infrastructure Organisation – Safeguarding, St George’s House, DIO Head Office, DMS Whittington, Lichfield, Staffordshire WS14 9PY or any successor body.

(3) The undertaker must thereafter comply with all other obligations contained within the approved mitigation for the life of the authorised development.

## 7. National Air Traffic Services (NATS) En-Route Safeguarding



**From:** ROSSI, Sacha [REDACTED]  
**Sent:** 21 July 2022 11:56  
**To:** Norfolk Vanguard <NorfolkVanguard@planninginspectorate.gov.uk>  
**Cc:** info@norfolkvanguard.co.uk; NATS Safeguarding <NATSSafeguarding@nats.co.uk>  
**Subject:** RE: Norfolk Vanguard Non-Material Change Application [SG24621]

Our Ref: SG24621

Dear Sir/Madam

NATS acknowledges receipt of the information from Vattenfall on the Vanguard Application in relation to non-material changes. The reduction in turbine numbers does not alter NATS's position and we will continue to work with the Applicant in respect of the mitigation measures required to support the scheme.

Yours faithfully

**NATS**

NATS Safeguarding

E: [natssafeguarding@nats.co.uk](mailto:natssafeguarding@nats.co.uk)

4000 Parkway, Whiteley,  
Fareham, Hants PO15 7FL  
[REDACTED]



## NATS Public

**From:** [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) <[info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk)>  
**Sent:** 13 June 2022 16:45  
**To:** BARRETT, Emma J [REDACTED]; ROSSI, Sacha [REDACTED]; NATS Safeguarding <[NATSSafeguarding@nats.co.uk](mailto:NATSSafeguarding@nats.co.uk)>  
**Subject:** [EXTERNAL] Norfolk Vanguard Non-Material Change Application

Dear Sacha Rossi and Emma Barrett,

**We would be grateful if you would acknowledge, on behalf of NATS, safe receipt of this email and its enclosures.**

Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the Applicant) has submitted an application to the Department for Business, Energy and Industrial Strategy (BEIS) seeking a non-material change to the Norfolk Vanguard Offshore Wind Farm Order 2022.

**Please note: this Application is separate to the application seeking a NMC to the Norfolk Boreas Offshore Wind Farm Order 2021, which you were recently consulted on.**

The Application seeks to remove the limit on the maximum export capacity for the Norfolk Vanguard Offshore Wind Farm (the Project). It also seeks a reduction in turbine numbers from 158 to 145. These amendments are sought to allow the Project to benefit from continuing technological developments in the offshore wind industry and to further reduce the costs of energy produced by the Project to the consumer in line with government policy.

Please find attached a letter in relation to the Application, including copies of documents in order to assist your consideration of the Application.

If you have any questions or require clarification on the content of the letter or accompanying information, please do not hesitate to contact us by emailing [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk)

Kind regards,

**Ruari Lean**  
**Norfolk Vanguard Project Manager**



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---

## 8. Natural England (NE)

**From:** Gibson, Alan [REDACTED]  
**Sent:** 22 July 2022 11:09  
**To:** Norfolk Vanguard <NorfolkVanguard@planninginspectorate.gov.uk>  
**Subject:** Norfolk Vanguard Non-Material Change Application EN010079

Dear Sir/ Madam,

Please accept this email as the formal response to the consultation on the Norfolk Vanguard Non-Material change, reference number EN010079.

Natural England has reviewed the proposed changes and advises that providing the changes are in strict accordance with the details of the application for a non-material change submitted, it can be excluded that the non-material change application will have a significant effect on any SAC, SPA or Ramsar site, either individually or in combination with other plans or projects. Therefore it is our view that an Appropriate Assessment of the implications of this proposal on the site's conservation objectives should not be required.

We have no further comments or concerns to raise on the consultation.

Regards

**Alan Gibson**  
Marine Senior Advisor  
East Midlands Area Team  
Natural England  
Lancaster House,  
Hampshire Court  
Newcastle upon Tyne  
NE4 7YH  
Tel. 0208 720 0911  
Mobile: [REDACTED]  
email: [REDACTED]

Pronouns: He/him

[REDACTED]



**We are here to secure a healthy natural environment for people to enjoy, where wildlife is protected and England's traditional landscapes are safeguarded for future generations.**

In an effort to reduce Natural England's carbon footprint, I will, wherever possible, avoid travelling to meetings and attend via audio, video or web conferencing.

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## 9. Local Resident

**From:** edytony smedley [REDACTED]  
**Sent:** 15 June 2022 16:50  
**To:** Norfolk Vanguard <NorfolkVanguard@planninginspectorate.gov.uk>  
**Subject:** Norfolk Vanguard Non Material Change application

Dear Planning Inspectorate,

Re the Non Material Change requested by the applicant with respect to the number of offshore turbines I have no comment to make. However, I am concerned about the applicants additionally asking for the maximum output capacity limit to be removed. I would ask that the applicant give an explanation as to what effect this will have on the operating noise of the Onshore Substation at Necton. It follows that more power through the substation will generate more operating noise and/or more heat which will need controlling or dissipating by fans, ie more noise.

Regards,  
Tony Smedley



## 10. Royal Society for Protection of Birds (RSPB)



By e-mail only

National Infrastructure Planning,  
The Planning Inspectorate,  
Temple Quay House,  
2 The Square,  
Temple Quay,  
Bristol BS1 6PN

21 July 2022

Dear Sir/Madam,

**PINS reference: EN010079**

**The Norfolk Vanguard Offshore Wind Farm Order 2022**

**Application for a Non-material Change (removal of maximum export capacity and reduction in turbine numbers)**

The RSPB has considered the information submitted by Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the Applicant) in respect of its implications for the features of the Flamborough and Filey Coast Special Protection Area (SPA) and the Alde-Ore Estuary SPA. This is with regard to the predicted changes in collision risk mortality to those SPA's seabirds.

Following this review, the RSPB is content with the Applicant's proposed changes, noting and welcoming the slight reduction in predicted mortality. However, we wish to record that this does not change the RSPB's overall position with regard to the adverse effects on integrity of the projects on the two SPAs referred to above at the end of both the examination and the various post-examination consultations.

Yours sincerely,

Andrew Dodd  
Head of Casework

cc Norfolk Vanguard projects

---

**RSPB Headquarters**  
RSPB The Lodge  
Potton Road  
Sandy  
SG19 2DL

**Tel:** 01767 680 551  
**Facebook:** @TheRSPB  
**Twitter:** @TheRSPB  
**Instagram:** @RSPB  
**Web:** rspb.org.uk



The RSPB is part of BirdLife International, a Partnership of conservation organisations working to give nature a home around the world.

**Patron:** Her Majesty the Queen **Chairman of Council:** Kevin Cox **President:** Miranda Krestovnikoff **Chief Executive:** Beccy Speight  
The Royal Society for the Protection of Birds (RSPB) is a registered charity: England and Wales no. 207076, Scotland no. SC037654  
Registered address: The Lodge, Potton Road, Sandy, Bedfordshire, SG19 2DL

## 11. The Crown Estate

National Infrastructure  
The Planning Inspectorate  
Temple Quay House  
2 The Square  
Bristol  
BS1 6PN

Louise Rich  
Senior Development Manager  
Tel: 020 7851 5151

E-mail: [REDACTED]

Your Ref.: EN010079  
Our Ref.: LR/Vanguard/NMC1  
Interested Party Ref.: 20011295

22 July 2022

Dear Sir/Madam

**The Norfolk Vanguard Offshore Wind Farm Order 2022**  
**Application for a Non-material Change (removal of maximum export capacity and reduction in turbine numbers)**

We have received Vattenfall's letter dated 13 June 2022 in relation to the above.

The Crown Estate has no objection to this application.

Yours faithfully

[REDACTED]

Louise Rich  
Senior Development Manager

## 12. UK Chamber of Shipping

Dear Planning Inspectorate,

Thank you for the update in relation to the non-material change application of Norfolk Vanguard windfarm development.

The UK Chamber of Shipping has reviewed the supporting documentation and does not raise any objection to the proposed change on basis of no change to the RLB, a maintenance of minimum spacing between turbines, and maintenance of lines of orientation for navigation and SAR capabilities.

On the basis of the above, it may be considered that the Chamber supports the removal of upper capacity limits for the development in that by doing so the UK's target for offshore wind capacity is reached by using a smaller area of sea-space and as such leave more sea-room available for safe surface navigation of commercial shipping.

To unnecessarily limit the capacity of developments so that more developments comprising greater areas of searoom are required for offshore renewables at greater cost to the safety of navigation for other marine users is ill-advised.

The Chamber trusts these comments are of value and assistance.

Yours faithfully,

Robert

**Robert Merrylees**

Policy Manager (Safety & Nautical) & Analyst

**UK Chamber of Shipping**

30 Park Street, London, SE1 9EQ

DD +44 (0) 20 7417 2843



### 13. Trinity House (TH)



**From:** Stephen Vanstone [REDACTED]  
**Sent:** 22 July 2022 11:59  
**To:** Norfolk Vanguard <NorfolkVanguard@planninginspectorate.gov.uk>  
**Cc:** info@norfolkvanguard.co.uk  
**Subject:** RE: Norfolk Vanguard Non-Material Change Application - EN010079

Good afternoon,

With reference to the e-mail below, I can confirm that Trinity House has no objection to the Non-Material Change application proposed and has no further comments to make.

Kind regards,

**Stephen Vanstone**

Navigation Services Officer | Navigation Directorate | Trinity House

[REDACTED] | 0207 4816921

[REDACTED]



TRINITY HOUSE

**From:** [info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk) <[info@norfolkvanguard.co.uk](mailto:info@norfolkvanguard.co.uk)>  
**Sent:** 13 June 2022 16:50  
**To:** Trevor Harris [REDACTED] Stephen Vanstone  
**Subject:** Norfolk Vanguard Non-Material Change Application

Dear Trevor Harris and Stephen Vanstone,

**We would be grateful if you would acknowledge, on behalf of Trinity House, safe receipt of this email and its enclosures.**

Norfolk Vanguard Limited and Norfolk Vanguard East Limited (the Applicant) has submitted an application to the Department for Business, Energy and Industrial Strategy (BEIS) seeking a non-material change to the Norfolk Vanguard Offshore Wind Farm Order 2022.

**Please note: this Application is separate to the application seeking a NMC to the Norfolk Boreas Offshore Wind Farm Order 2021, which you were recently consulted on.**

The Application seeks to remove the limit on the maximum export capacity for the Norfolk Vanguard Offshore Wind Farm (the Project). It also seeks a reduction in turbine numbers from 158 to 145. These amendments are sought to allow the Project to benefit from continuing technological developments in the offshore wind industry and to further reduce the costs of energy produced by the Project to the consumer in line with government policy.

Please find attached a letter in relation to the Application, including copies of documents in order to assist your consideration of the Application.

If you have any questions or require clarification on the content of the letter or accompanying information, please do not hesitate to contact us by emailing [info@norfolkvguard.co.uk](mailto:info@norfolkvguard.co.uk)



Kind regards,

**Ruari Lean**  
**Norfolk Vanguard Project Manager**

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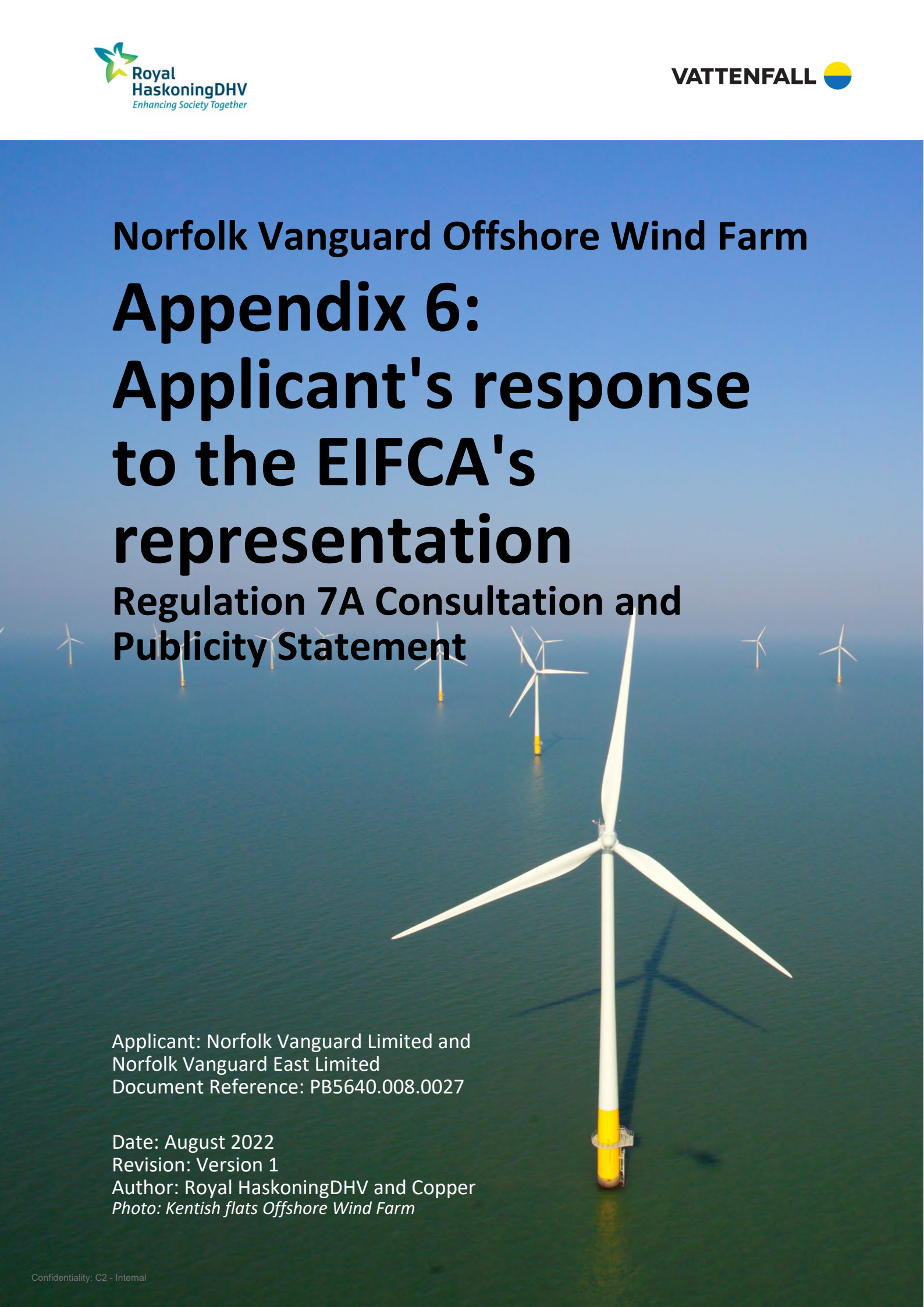
[REDACTED]

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## 14. National Federation of Fishermen's Organisations (NFFO)

## 15. VisNED

## Appendix 6 Applicant's response to EIFCA's representation



# Norfolk Vanguard Offshore Wind Farm

# Appendix 6:

# Applicant's response

# to the EIFCA's

# representation

## Regulation 7A Consultation and

## Publicity Statement

Applicant: Norfolk Vanguard Limited and  
Norfolk Vanguard East Limited  
Document Reference: PB5640.008.0027

Date: August 2022  
Revision: Version 1  
Author: Royal HaskoningDHV and Copper  
*Photo: Kentish flats Offshore Wind Farm*

## Appendix 6 Applicant's response to the EIFCA's representation

### 1 Introduction

1. This document forms the Applicant's detailed response to the representation submitted by Eastern Inshore Fisheries Conservation Authority (EIFCA) during the consultation period for the Norfolk Vanguard offshore wind farm non-material change (NMC) application to remove the limit on export capacity and reduce the number of wind turbine generators (WTGs). This document is appended to the Regulation 7A Consultation and Publicity Statement for the NMC Application and aims to address the EIFCA's concerns regarding impacts from electromagnetic fields (EMF) as a result of the changes proposed in the NMC Application.
2. The proposed changes detailed within the NMC Application will not alter the significance of the impacts of EMF as assessed in the Norfolk Vanguard Environmental Statement (ES)<sup>1</sup> for the reasons detailed below.

### 2 The Applicant's understanding of the EIFCA's concerns

3. The EIFCA's concerns are summarised by the extracts of their representation below:
  - *"EIFCA is concerned about the potential impacts of electromagnetic fields (EMF) created by the Norfolk Vanguard cables on both commercial and non-commercial species, and how these impacts may increase due to the increased power transmission resulting from the removal of cable export limits."*
  - *"It is considered that export cables have higher EMF emissions compared to inter turbine cables, with Thomsen et al., (2015) also finding higher EMF values around export cables than around wind turbine bases. While EMF typically dissipates within 10m of the source, it is not explained in the attached documentation how the removal of the export limit may affect the levels of EMF emitted by the export cables."*
  - *"It is likely that mobile commercial species such as Edible crab (Cancer pagurus), European lobster (Homarus Gammarus), European plaice (Pleuronectes platessa) and Sandeel (Ammodytes spp.) will encounter sub-sea power cables and thus be exposed to EMF."*
  - *"...therefore recommend the applicant consider undertaking appropriate modelling to calculate the likely EMF emitted from the export cables in the absence of an export limit (if this has not already been done) and/or consider*

---

<sup>1</sup> Norfolk Vanguard Environmental Statement available at:  
<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/norfolk-vanguard/?ipcsection=docs&stage=app&filter1=Environmental+Statement>



*regularly monitoring power transmission from the windfarm and EMF transmission on a regular basis”*

4. The Applicant understands that the EIFCA is concerned that, if granted, the removal of the capacity limit sought as part of the NMC Application could lead to increased EMF impacts on mobile commercial species of fish and shellfish due to an increase in power transmission through the export cables.

### 3 The Applicant’s Response

#### 3.1 No increase in voltage of the export cables

5. Firstly, as stated in Table 2 of the Applicant’s NMC Supporting Statement (document reference PB5640.008.0023)<sup>2</sup> the proposed change to remove the limit on export capacity will not result in any increase in the consented operating voltage of +/- 320kV which was the value stated in the Norfolk Vanguard ES (Chapter 5: Project Description).
6. The Applicant undertook an assessment of the effects of the proposed non-material changes in the context of the ES<sup>1</sup>. This assessment was submitted in support of the NMC application as the Supporting Statement<sup>2</sup>. Chapters 10 (Benthic and Intertidal Ecology) and 11 (Fish and Shellfish Ecology) of the ES<sup>1</sup> scoped in EMF impacts and the relevant assessments from the NMC Supporting Statement are provided in Table 1 below.
7. The assessment concluded for all scoped in impacts including EMF from installed export cables, that *“the proposed NMC and DML variation will not change the impact conclusions stated in the ES.”*.

---

<sup>2</sup> The Supporting Statement is available at: <https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010079/EN010079-004483-01%20-%20Supporting%20Statement%20-%20Norfolk%20Vanguard%20Capacity%20NMC.pdf>

**Table 1: Extracted rows from Table 2 of the NMC Supporting Statement covering benthic and fish assessments**

| ES Topic                                    | Impacts described in ES Chapter   | Change in impact significance  |
|---|---|--|
| Benthic and Intertidal Ecology (Chapter 10) | <p>Impacts assessed within Chapter 10 which are of relevance to the NMC and DML variation are:</p> <ol style="list-style-type: none"> <li>1. Temporary habitat loss/disturbance</li> <li>2. Temporary increase in suspended sediment concentrations and associated sediment deposition</li> <li>3. Underwater noise and vibration</li> <li>4. Permanent loss of seabed habitat through the presence of seabed infrastructure</li> <li>5. Temporary seabed disturbances from maintenance operations</li> <li>6. Colonisation of WTG/cable protection/scour protection</li> <li>7. Electromagnetic Fields (EMF) from installed array and export cables</li> </ol> <p>As detailed in the row above the worst case scenario assessed in the ES was associated with the largest gravity anchor foundations resulting in an assessment of a volume for seabed preparation of 3,807,566m<sup>3</sup>. However, with the removal of this option from the design envelope, this reduced the volume of seabed preparation material to 1,648,824m<sup>3</sup>, and this figure was secured within the Order (see Table 1).</p> <p>In reference to noise impacts, the worst case spatial scenario assessed for piling was as a result of 5,000kJ hammer energy for monopile foundations. As no layout was available for the ES it was assumed that the maximum spatial impact could include the entire wind farm site and a buffer around the site for the furthest extent to which the noise could travel. The worst case temporal impact resulted from the installation of pin piles for jacket foundations of which there would be 800 in total.</p> <p>In reference to EMF, the assessment noted that impacts were mitigated by the commitment to bury cables where</p> | <p>The assessment for Benthic and Intertidal Ecology is informed by parameters associated with the number, installation methods and amount of seabed material displaced by the WTGs and their foundations, not the capacity of either the wind farm or individual WTGs.</p> <p>During the Norfolk Vanguard examination and intervening period the maximum number of WTGs was reduced from 200 to 158 and the gravity anchor foundation option was removed, which resulted in a reduction of associated parameters which could impact benthic ecology such as maximum seabed footprint and maximum amount of disposed material (see Table 1 for further information on the reductions). These reductions did not alter the conclusions stated in the ES.</p> <p>The parameters which inform the assessment are specifically secured in the Order through the requirements and conditions detailed in the following rows of Table 1: 7, 8, 9, 10, 11, 16, 17, 18, 19, 20, 21 and 22.</p> <p>In reference to the proposed NMC and DML variation, and as shown in Table 1, there will be no increase to the parameters that relate to the foundations' sizes, scour protection or total or maximum quantities of disposal as secured through the Order. Furthermore, the conditions that control the levels of underwater noise namely maximum number of and therefore duration of piling activity and the maximum hammer energies will not be exceeded. There will be a reduction in the maximum number of WTGs from 158 to 145 which would reduce the overall area, number of piling events and duration of impacts however, this would not be a significant enough decrease to change the magnitude of related impacts. There will also be no change in the installation methods from those previously assessed within the ES. This includes the commitment to bury cables wherever possible and at the limited number of locations where this may not be possible to place cable protection over the cable which would reduce any EMF to very low levels. There will be no increase in the nominal operating voltage (approximately +/-320kV) of the export cables and since the application was made the amount of export cable crossings has been reduced from 22 to 4 (see submission</p> |

| ES Topic                                | Impacts described in ES Chapter   | Change in impact significance  |
|---|---|--|
|   | possible and, where not possible, to apply cable protection, such that EMF would be minimised to very low levels.   | ExA; Mit; 11.D10.2.App1 on the Norfolk Vanguard Planning Inspectorate page; a link is provided in the Reference section of this document) therefore reducing further the amount of unburied cable and potential for EMF.<br><br><b>Therefore, the proposed NMC and DML variation will not change the impact conclusions stated in the ES.</b>  |
| Fish and Shellfish Ecology (Chapter 11) | <p>Impacts assessed within Chapter 11 of relevance to the NMC and DML variation are:</p> <ol style="list-style-type: none"> <li>1. Physical disturbance and temporary loss of seabed habitat</li> <li>2. Increased SSCs and sediment re-deposition</li> <li>3. Underwater noise from piling</li> <li>4. Underwater noise from other construction activities</li> <li>5. Permanent loss of seabed habitat</li> <li>6. Introduction of hard substrate</li> <li>7. Underwater noise during operation</li> <li>8. Indirect impacts on fish species as a result of behavioural disturbance to prey species associated with construction noise</li> <li>9. EMFs and</li> <li>10. Changes in fishing activity.</li> </ol> <p>As detailed above the worst case scenario assessed in the ES was associated with the largest gravity anchor foundations, resulting in a worst case total disturbance footprint of 16.1km<sup>2</sup>. However, with the removal of this option from the design envelope, this footprint will be reduced.</p> <p>In reference to noise impacts, the worst case spatial scenario assessed for piling was as a result of 5,000kJ hammer energy for monopile foundations and 2,700kJ hammer energy for offshore electrical platform pin pile foundations. As no layout was available for the ES it was assumed that the maximum spatial impact could include the entire wind farm site and a buffer around the site for</p> | <p>The assessment for Fish and Shellfish Ecology is informed by parameters associated with the number, installation methods and amount of seabed material displaced by the WTGs and their foundations, not the capacity of either the wind farm or individual WTGs. During the Norfolk Vanguard examination the maximum number of WTGs was reduced from 200 to 158 and the gravity anchor foundation option was removed, which resulted in a reduction of associated parameters which could impact fish and shellfish such as the maximum amount of disposed material (see Table 1 for further information on the reductions). The reduction in these parameters did not alter the conclusions stated within the ES.</p> <p>The parameters which inform the assessment are specifically secured in the Order through the requirements and conditions detailed in the following rows of Table 1: 7, 8, 9, 10, 11, 16, 17, 18, 19, 20, 21 and 22.</p> <p>In reference to the proposed NMC and DML variation, and as shown in Table 1, there will be no increase to the parameters that relate to the foundations' sizes, scour protection or total or maximum quantities of disposal as secured through the Order. Furthermore, the conditions that control the levels of underwater noise namely maximum duration of piling activity and the maximum hammer energies will not change. There will be a reduction in the maximum number of WTGs from 158 to 145 which would reduce the overall duration of impacts however, this would not be a significant enough decrease to change the magnitude of related impacts. There will also be no change in the installation methods from those previously assessed within the ES. This includes the commitment to bury cables wherever possible and at the limited number of locations where this may not be possible, to place cable protection over the cable which would reduce any EMF to very low</p> |

| ES Topic | Impacts described in ES Chapter   | Change in impact significance   |
|----------|---|---|
|          | <p>the furthest extent to which the noise could travel. The worst case temporal impact resulted from the installation of pin piles for jacket foundations which would result in 1,260 hours of piling activity (for WTG and offshore electrical platform foundations) occurring over a 20 month period.</p> <p>In reference to EMF, the assessment noted that impacts were mitigated by the commitment to bury cables where possible and, where not possible, to apply cable protection, such that EMF would be minimised to very low levels.</p> | <p>levels. There will be no increase in the nominal operating voltage (approximately +/-320kV) of the export cables and since the application was made the amount of export cable crossings has been reduced from 22 to 4 (see submission ExA; Mit; 11.D10.2.App1 on the Norfolk Vanguard Planning Inspectorate page; a link is provided in the Reference section of this document) therefore reducing further the amount of unburied cable and potential for EMF.</p> <p><b>Therefore, the proposed NMC and DML variation will not change the impact conclusions stated in the ES.</b></p> |

### 3.2 Embedded mitigation reducing impacts of EMF

8. The NMC Application confirms there will be no change in the installation methods from those previously assessed within the ES. These installation methods include embedded mitigation against possible impacts of EMF effects, some of which are highlighted below.
9. The Applicant has committed to burying cables where possible and, at the limited number of locations where this may not be possible, to place cable protection over the cable to reduce any EMF to very low levels. Cable burial would be to target depths of between 1m and 3m (with potentially greater overall burial depths where pre-sweeping is used). The Applicant committed to this mitigation at the time of the original DCO application because the available research showed that EMF quickly diminishes away from the source, with values of around 0.32mT and 0.11mT at 1 metre (m) and 4 m respectively (Bochert and Zettler 2006).
10. The Applicant selected HVDC technology to reduce a variety of impacts including lowering the number of export cables from six to two, decreasing the area of both temporary disturbance and permanent habitat loss compared to a high voltage alternating current (HVAC) solution. As a result of this design decision the area of seabed exposed to EMF will be lower. Furthermore, where HVDC cables are installed in close proximity to each other as is intended for the Norfolk Vanguard export cables (the cables will be bundled with a single circuit being installed in a single trench) it is understood that there will be some degree of cancelling out of the magnetic fields generated by each cable.
11. Export cable crossing points with existing cables or pipelines are areas where impacts of EMF could manifest. At these locations, protection would need to be placed on top of the existing asset, and then the Norfolk Vanguard export cable would be placed on top of that protection, and therefore the export cable would not be buried within the seabed. Since the original application for development consent for Norfolk Vanguard was submitted in June 2018, every effort has been made by the Applicant to reduce the number of export cable crossings. Out of Service Cable Recovery Agreements have been finalised with BT Subsea who own most of the out of service cables which the Norfolk Vanguard export cables would otherwise need to cross. This has reduced the number of proposed cable crossings from eleven assessed in the original ES down to two per export cable (see the Norfolk Vanguard Supporting Statement<sup>3</sup>). This allows the export cables to be buried for a greater portion of their overall length by reducing the number of locations where they would

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<sup>3</sup> The Supporting Statement is available at: <https://infrastructure.planninginspectorate.gov.uk/wp-content/ipc/uploads/projects/EN010079/EN010079-004483-01%20-%20Supporting%20Statement%20-%20Norfolk%20Vanguard%20Capacity%20NMC.pdf>

not be buried. As a result, any EMF exposure from the export cables has a much lower chance of detection by fish species and shellfish species.

12. In areas where cable burial is not possible, such as around the two cable crossing locations per export cable within the Haisborough Hammond and Winterton SAC and at the breakout point at landfall, cable protection will be placed.

### 3.3 Relevance of new research

13. The EIFCA highlight new research on the effects EMF can have on fish and shellfish species. The Applicant considers the relevance of this research to the Norfolk Vanguard project in this section.
14. Firstly it is important to note that all of the research cited in the EIFCA consultation is conducted ex situ; in other words it is laboratory based research where the organisms do not have the ability to move away from the source of the EMF. Secondly the experiments are conducted using far greater levels of EMF than those experienced in situ around offshore renewable subsea export cables and therefore those which can be expected from the Norfolk Vanguard export cables.
15. In a report by Normandeau et al. (2011) there was shown to be a great variation in EMF strength arising from the source. However, it has been consistently shown that all EMF quickly diminishes with distance from the source (in this case marine cables), with values of around 0.32mT and 0.11mT at 1 metre (m) and 4 m respectively (Bochert and Zettler 2006). A recent study by Hutchison et al., (2021) has shown that the magnetic field (MF) intensity decreases around 10  $\mu$ T/m with a cable that is buried to a depth of 1.5m.
16. Further evidence collected by the Bureau of Ocean Energy Management (BOEM), through multiple studies such as Hutchison et al., (2020) found in situ DC magnetic fields of buried HVDC cables to be very low. The Cross Sound Cable, which is a 300kV (similar to the operation voltage to the Norfolk Vanguard export cable) buried submarine HVDC cable, had a magnetic field in the range of 0.4-18.7 $\mu$ T (or 0.0004 – 0.018mT), and the Neptune Cable was found to have a magnetic field in the range of 1.3-20.7 $\mu$ T (or 0.0013-0.02mT). The installation depths for these cables were 1.2–1.8m and the target depths of the Norfolk Vanguard export cables is between 1 and 3m, as stated in section 3.2 above. This demonstrates that the EMF levels from the Norfolk Vanguard export cables will be very low and that their burial will substantially reduce the impacts of EMF.
17. As cited by the EIFCA, Scott et al., (2018) found that, in aquarium experiments, *Cancer pagurus* (edible crab) showed an attraction to the source of an EMF of 2.8mT as well as a reduction in roaming behaviour, alteration of their natural circadian rhythms and disrupted cycles of metabolic markers. The authors of the study found

that this attraction to the source of EMF caused the crabs to spend significant amounts of time within the exposed area, which, in-situ may come at the cost of time spent foraging for food, seeking mates and finding shelter. Scott et al., (2018) speculated that this could potentially lead to higher predation rates, increased death due to starvation and/or decreased numbers of successful matings. However, the chances of a crab experiencing the effects observed in Scott et al., (2018) in situ are very low. The anticipated EMF experienced around the Norfolk Vanguard export cables would be much lower (up to 0.32mT, but more likely far less than this) and invertebrates would not be restricted to remaining in close proximity to the EMF source as the subjects of this experiment were. Therefore this study does not provide any direct evidence of significant impacts to invertebrates from undersea cable EMFs.

18. In the EIFCA submission, the study Harsanyi et al., (2022) is also referenced. This work was also conducted in a laboratory and built upon the findings presented by Scott et al., (2018). In this study the same EMF strength of 2.8mT (far greater than the up to 0.32mT likely to be experienced around in situ export cables) was used. During the Harsanyi et al., (2022) study, *Homarus gammarus* (European lobster) and *C. pagarus* were chronically exposed to a constant 2.8mT throughout embryonic development. Harsanyi et al., (2022) found that this exposure throughout embryonic development resulted in significant differences in stage-specific egg volume and resulted in stage I lobster and zoea stage I crab larvae exhibiting decreased carapace height, total length, and maximum eye diameter. An increased occurrence of larval deformities was observed in addition to reduced swimming test success rates amongst lobster larvae. The authors of the study suggest that these traits could ultimately affect larval mortality, recruitment and dispersal. Again, such effects are unlikely to be observed in situ, as larvae, which are planktonic during most life stages would have to remain situated directly above a constant source of 2.8mT. The unrealistic nature of such a circumstance in situ, paired with the aforementioned embedded mitigation, and the fact that EMF dissipates rapidly with distance, and largely fluctuates at the source (Bochert and Zettler, 2006; Normandeau et al., 2011) clearly demonstrates that the impacts of EMF will be no worse than originally assessed in the ES, notwithstanding the new research referenced by the EIFCA.
19. In regard to Sandeels (*Ammodytes spp.*), Cresci et al., (2022) suggest that lesser sandeel larvae would not be attracted to or repelled from HVDC subsea cables associated with offshore wind farms, and also state that the magnetic field produced by HVDC cables will not have strong effects on the swimming or spatial preference of lesser sandeel larvae. It should also be noted that, as stated in chapter 11 Fish and Shellfish of the Norfolk Vanguard ES sandeel spawning and nursery areas are sparse within the Norfolk Vanguard site and offshore cable corridor.



### 3.4 Comparison to other offshore windfarms

20. For Hornsea Project Four Offshore Wind Farm (the most recent application for development consent for an offshore wind farm), which does not have a capacity cap, the Marine Management Organisation (MMO) agreed that the impacts in relation to indirect disturbance from EMFs generated by cables to benthic communities and fish species could be scoped out based on the available literature and the mitigation proposed (The Planning Inspectorate 2018 and Hornsea Project Four 2021 (Fish and Shellfish ES Chapter)). Hornsea Project Four have committed to burying export cables wherever possible, but retain the option for HVAC export cables which would be more numerous (up to 18 cables) and would not benefit from the reduced EMF understood to be generated by HVDC cables
21. During the pre-application consultation on Hornsea Project Four, and the recently consented Hornsea Project Three, the EIFCA made a recommendation (similar to that which has been made here) for the applicant in both cases to consider undertaking appropriate modelling to calculate and monitor the likely EMF emitted from the export cables in the absence of an export limit. The Applicant notes that Hornsea Project Three has been consented without such a requirement or condition.
22. The Applicant believes that the research referred to by the EIFCA provides no evidence that there is a need to undertake EMF modelling and/or monitoring for the reasons listed above. In addition, as noted in section 3.2, when two HVDC cables are laid in close proximity to each other (as will be the case for the Norfolk Vanguard export cables), there will be some degree of cancelling out of the magnetic fields generated by each cable.

## 4 Conclusion

23. The EMF generated from the Norfolk Vanguard offshore wind farm export cables will represent a long term and continuous emission throughout the operational lifetime of the Project. However, any potential effects will be highly localised, affecting a very small proportion of the fish and shellfish habitats within the offshore cable corridor and within a maximum of a few metres of the final cable routes. As the sensitivity of the benthic ecology receptors is considered to be negligible, regular monitoring of the power transmission from the wind farm and EMF transmission is unnecessary.
24. The Applicant has given full consideration to the EMF impacts in its request to remove the maximum export capacity limit and there will be no change to the EMF impacts previously assessed as a result of the NMC Application.

## 5 References

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[https://www.boem.gov/sites/default/files/documents/renewable-energy/state-activities/Appendix%20P2\\_HVDC%20EMF%20Assessment.pdf](https://www.boem.gov/sites/default/files/documents/renewable-energy/state-activities/Appendix%20P2_HVDC%20EMF%20Assessment.pdf)

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