

**SCOTTISHPOWER
RENEWABLES**

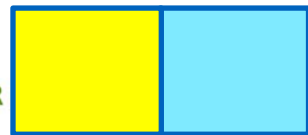
East Anglia TWO and East Anglia ONE North Offshore Windfarms

Draft Statement of Common Ground Ministry of Defence (MoD)

Applicants: East Anglia ONE North Limited and East Anglia TWO Limited
Document Reference: ExA.SoCG-10.D1.V2
SPR Reference: EA1N_EA2-DWF-ENV-REP-IBR-000914

Date: 2nd November 2020
Revision: Version 02
Author: ScottishPower Renewables

Applicable to East Anglia ONE North and East Anglia TWO



Revision Summary				
Rev	Date	Prepared by	Checked by	Approved by
001	11/06/2020	Gero Vella	Julia Bolton/ Ian MacKay	Rich Morris
002	02/11/2020	Gero Vella	Lesley Jamieson/ Ian MacKay	Rich Morris

Description of Revisions			
Rev	Page	Section	Description
001	n/a	n/a	First draft for submission
002	n/a	n/a	Second draft for submission at Deadline 1



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Glossary of Acronyms

ADR	Air Defence Radar
ADRM	Air Defence Radar Mitigation
DCO	Development Consent Order
DML	Deemed Marine Licence
EIA	Environmental Impact Assessment
ES	Environmental Statement
MoD	Ministry of Defence
PD	Procedural Decision
PINS	Planning Inspectorate
RLSWG	Radar Line of Sight Wind Turbine Generator
RRH	Remote Radar Head
SoCG	Statement of Common Ground

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Glossary of Terminology

Applicants	East Anglia TWO Limited / East Anglia ONE North Limited.
Cable sealing end compound	A compound which allows the safe transition of cables between the overhead lines and underground cables which connect to the National Grid substation.
Cable sealing end (with circuit breaker) compound	A compound (which includes a circuit breaker) which allows the safe transition of cables between the overhead lines and underground cables which connect to the National Grid substation.
Development area	The area comprising the onshore development area and the offshore development area (described as the 'order limits' within the Development Consent Order).
East Anglia ONE North project	The proposed project consisting of up to 67 wind turbines, up to four offshore electrical platforms, up to one construction, operation and maintenance platform, inter-array cables, platform link cables, up to one operational meteorological mast, up to two offshore export cables, fibre optic cables, landfall infrastructure, onshore cables and ducts, onshore substation, and National Grid infrastructure.
East Anglia TWO project	The proposed project consisting of up to 75 wind turbines, up to four offshore electrical platforms, up to one construction, operation and maintenance platform, inter-array cables, platform link cables, up to one operational meteorological mast, up to two offshore export cables, fibre optic cables, landfall infrastructure, onshore cables and ducts, onshore substation, and National Grid infrastructure.
East Anglia TWO / ONE North windfarm site	The offshore area within which wind turbines and offshore platforms will be located.
Generation Deemed Marine Licence (DML)	The deemed marine licence in respect of the generation assets set out within Schedule 13 of the draft DCO.
Inter-array cables	Offshore cables which link the wind turbines to each other and the offshore electrical platforms, these cables will include fibre optic cables.
Landfall	The area (from Mean Low Water Springs) where the offshore export cables would make contact with land, and connect to the onshore cables.
Meteorological mast	An offshore structure which contains metrological instruments used for wind data acquisition.
National Grid infrastructure	A National Grid substation, cable sealing end compounds, cable sealing end (with circuit breaker) compound, underground cabling and National Grid overhead line realignment works to facilitate connection to the national electricity grid, all of which will be consented as part of the proposed East Anglia TWO / East Anglia ONE North project Development Consent Order but will be National Grid owned assets.
National Grid overhead line realignment works	Works required to upgrade the existing electricity pylons and overhead lines (including cable sealing end compounds and cable sealing end (with circuit breaker) compound) to transport electricity from the National Grid substation to the national electricity grid.
National Grid substation	The substation (including all of the electrical equipment within it) necessary to connect the electricity generated by the proposed East Anglia TWO / East Anglia ONE North project to the national electricity grid which will be owned by National Grid but is being consented as part of the proposed



	East Anglia TWO / East Anglia ONE North project Development Consent Order.
Offshore development area	The East Anglia TWO / East Anglia ONE North windfarm site and offshore cable corridor (up to Mean High Water Springs).
Offshore electrical platform	A fixed structure located within the windfarm area, containing electrical equipment to aggregate the power from the wind turbines and convert it into a more suitable form for export to shore.
Offshore platform	A collective term for the construction, operation and maintenance platform and the offshore electrical platforms.
Onshore substation	The East Anglia TWO / East Anglia ONE North substation and all of the electrical equipment within the onshore substation and connecting to the National Grid infrastructure.
Platform link cable	Electrical cable which links one or more offshore platforms. These cables will include fibre optic cables.
Scour protection	Protective materials to avoid sediment being eroded away from the base of the foundations as a result of the flow of water.
Transition bay	Underground structures at the landfall that house the joints between the offshore export cables and the onshore cables.
Transmission DML	The deemed marine licence in respect of the transmission assets set out within Schedule 14 of the draft DCO.



1 Introduction

1.1 Background

1. This document is applicable to both the East Anglia ONE North and East Anglia TWO Development Consent Order (DCO) applications, and therefore is endorsed with the yellow and blue icon used to identify materially identical documentation in accordance with the Examining Authority's (ExA) procedural decisions on document management of 23rd December 2019 (PD-004). Whilst this document has been submitted to both Examinations, if it is read for one project submission there is no need to read it for the other project submission.
2. This Statement of Common Ground (SoCG) has been prepared between East Anglia TWO Limited, East Anglia ONE North Limited (hereafter the Applicants) and the Ministry of Defence (MoD) in relation to the East Anglia TWO project and the East Anglia ONE North project (the Projects). It identifies areas of the Projects' Development Consent Order (DCO) applications (the Applications) where matters are agreed or not agreed between the parties
3. The Applicants have had regard to the guidance for the examination of applications for development consent (Department for Communities and Local Government, 2015) when compiling this SoCG.
4. This SoCG has been structured to reflect topics of interest to the MoD on the Applications. Topic specific matters agreed, not agreed and actions to resolve between the Applicants and the MoD are included within this SoCG.
5. The table(s) presented below is the basis for a SoCG with the Applicants and the MoD in respect of the following topic(s):
 - Military Aviation and Radar; and
 - The Development Consent Order
6. Ports, shipping and sea navigation are not an interest topic to the MoD.
7. Throughout the SoCG the phrase "Agreed" identifies any point of agreement between the Applicants and the MoD.
8. The phrase "Not Agreed" identifies any point that is not yet agreed between the Applicants and the MoD. Points that are not yet agreed will be the subject of ongoing discussion between the Applicants and the MoD to reach agreement on the point wherever possible, or refine the extent of disagreement between parties. The notes column of the SoCG tables provides commentary on these matters.
9. The tables in **section 2** are based upon discussions and information exchanged between the Applicants and the MoD during the pre-application and examination phases of the application.



1.2 The Development

10. The key offshore components of each Project will comprise:

- Offshore wind turbines and their associated foundations;
- Offshore platforms - up to four offshore electrical platforms and their associated foundations supporting some of the windfarm's electrical equipment, and up to one construction, operation and maintenance platform and associated foundations that may cater for personnel and activities required during the construction phase and operation and maintenance of the windfarm;
- Sub-sea cables between the wind turbines and between wind turbines and offshore electrical platforms (inter-array), between separate offshore platforms (platform link cables) and between offshore electrical platforms and the landfall (export cables);
- Scour protection around foundations and on inter-array, platform link and export sub-sea cables as required; and
- Potential for one meteorological mast (met mast) and its associated foundations for monitoring wind speeds during the operational phase of the windfarm.

11. The key onshore components of each Project will comprise:

- The landfall site with up to two transition bays to connect the onshore and offshore cables;
- Up to six onshore cables, up to two fibre optic cables and up to two distributed temperature sensing cables installed underground (some or all of which may be installed in ducts) and associated jointing bays installed underground;
- Onshore substation; and
- Electrical cable connection between the onshore substation and National Grid substation.

12. National Grid infrastructure will also be required to connect each Project to the national electricity grid. Key components of the National Grid infrastructure which is common to both Projects will comprise:

- National Grid substation;
- Cable sealing end compounds and a cable sealing end (with circuit breaker) compound; and
- Realignment of the existing overhead lines; including the reconstruction or replacement of up to three existing overhead pylons in proximity to the National Grid substation and the addition of up to one new pylon in close proximity to existing overhead pylons.



1.3 Consultation with the MoD

13. This section briefly summarises the consultation that the Applicants have with the MoD. Further details on the stakeholder engagement process for Military Aviation and radar can be found in the **Consultation Report** (APP-029).

1.3.1 Pre-Application

14. The Project engaged with the MoD during the pre-application process, both in terms of informal non-statutory engagement and formal consultation carried out pursuant to section 42 of the Planning Act 2008.

15. The MoD responded to the section 42 consultation the Project.

1.3.2 Post-Application

16. The MoD made a relevant representation to the Planning Inspectorate on 27th January 2020.

17. **Table 1.1** provides an overview of meetings and post application correspondence undertaken with MoD regarding Military Aviation and Radar.

Table 1.1 Summary of post application consultation with MoD regarding Military Aviation and Radar.

Date	Contact Type	Topic
Post-Application		
15 April 2020	Meeting	First SoCG Meeting

1.4 Summary of Agreed, Not Agreed and Outstanding Matters

1. **Table 1.2** provides a summary of the matters agreed, not agreed and those which are outstanding between the Applicants and MoD for each of the relevant receptor topics. For further information on agreements that are outstanding / under discussion and for which the Applicants and MoD are working to address within the examination period, see the detailed agreement **Table 2.1**.

Table 1.2 Summary of Areas of Agreed, Not Agreed or those which are Outstanding for Receptor Topic Areas Raised by MoD

Topic	Agreed, Not Agreed or Outstanding
Military Aviation and Radar	Outstanding
The Development Consent Order	Outstanding
Ports, shipping and sea navigation	Ports, shipping and sea navigation are not an interest topic to the MoD



2 Statement of Common Ground

18. The areas of agreement and disagreement between the Applicants and the MoD are set out below.

2.1 Military Aviation and Radar

2. The Projects have the potential to impact upon Military Aviation. **Chapter 15 Civil and Military Aviation and Radar** of the Environmental Statement (ES) (APP-063) provides an assessment of the significance of these impacts.
19. **Table 2.1** below provides areas of agreement and disagreement with the MoD regarding Military aviation and radar.

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Table 2.1 Military Aviation and Radar

ID	Topic	Statement	East Anglia TWO Limited Position	East Anglia ONE North Limited Position	Ministry of Defence (MoD) Position	Notes
Environmental Impact Assessment						
MoD-101	Existing Environment	Description of baseline conditions is accurate in terms of aviation and radar activity undertaken within the Project site and surrounding area.	Agreed	Agreed	Agreed	
MoD-102	Assessment Methodology	The impact assessment has been undertaken using suitable methodologies.	Agreed	Agreed	Agreed	Noting minor variances in heights of antennae used for the assessment.
MoD-103	Assessment Conclusions	The assessment is appropriate and has made the correct conclusions that the Project will have significant impacts upon Military Air Defence Radar and aviation operations it supports in the absence of mitigation	Agreed	Agreed	Agreed	<i>Noting the assessment does not fully identify the extent the windfarm would be detectable to the MOD air defence radar (ADR). It should be recognised that because the performance parameters of the ADR are not publicly available any radar modelling assessment undertaken by the Applicants will not be able to fully account for what the ADR will actually be able to detect.</i>



ID	Topic	Statement	East Anglia TWO Limited Position	East Anglia ONE North Limited Position	Ministry of Defence (MoD) Position	Notes
						The mitigation referred to in the 'agreement statement' is secured through Requirement 34.
Communication						
MoD-104	Communication	The level and quality of communication between the Project and the MoD to date has been appropriate.	Agreed	Agreed	Agreed	
Draft Development Consent Order (DCO)						
MoD-105	Wording of Requirement(s) and Condition(s)	The wording of the following requirements and condition pertaining to Military Aviation and Radar are appropriate and adequate: <ul style="list-style-type: none"> Requirement 31 provided within DCO Schedule 1, Part 3 with reference to Aviation Lighting 	Agreed	Agreed	Agreed	
		<ul style="list-style-type: none"> Requirement 34 provided within DCO Schedule 1, Part 3 with reference to RRH Trimmingham Air Defence Radar 	Outstanding – In discussion	Outstanding – In discussion	Outstanding – In discussion	Appendix 1 provides details of the Parties' positions to date in respect of requirement



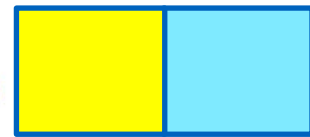
ID	Topic	Statement	East Anglia TWO Limited Position	East Anglia ONE North Limited Position	Ministry of Defence (MoD) Position	Notes
						34. The Applicants will continue to engage with the MoD over requirement 34 through the Examination.
		<ul style="list-style-type: none"> Condition 13 of the generation DML and Condition 9 of the transmission DML with reference to Aviation safety. 	Agreed	Agreed	Agreed	
Other Matters as Required						
MoD-106	None	Not applicable.				



3 Signatures

20. The above Statement of Common Ground is agreed between East Anglia TWO Limited, East Anglia ONE North Limited and the Ministry of Defence on the day specified below.

Signed: _____
Print Name: _____
Job Title: _____
Date: _____
Duly authorised for and on behalf of Ministry of Defence
Signed: _____
Print Name: _____
Job Title: _____
Date: _____
Duly authorised for and on behalf of East Anglia TWO Limited
Signed: _____
Print Name: _____
Job Title: _____
Date: _____
Duly authorised for and on behalf of East Anglia ONE North Limited



4 Appendices

4.1 Appendix 1. Record of engagement between the Applicant and the MoD over DCO Requirement 34

Requirement 34 as proposed by the Applicants in draft DCO	Requirement 34 as proposed by MOD in Relevant Rep	New EA2/1N Requirement 34 proposed by the Applicants
<p>Ministry of Defence surveillance operations</p> <p>34.—(1) No construction of any radar line of sight wind turbine generator (RLSWTG) forming part of the authorised development and within radar line of sight of the air defence radar at Remote Radar Head (RRH) Trimingham may commence until the Secretary of State, having consulted with the Ministry of Defence, confirms satisfaction in writing that appropriate mitigation is available and that arrangements have been put in place with the Ministry of Defence to ensure that such appropriate mitigation is implemented for the required period.</p>	<p>Ministry of Defence Surveillance Operations</p> <p>1. No development of any wind turbine generator forming part of the authorised development shall commence unless and until an Air Defence Radar Mitigation Scheme (“the ADRM scheme”) has been submitted to and approved in writing by Secretary of State in conjunction with the Ministry of Defence (MOD).</p> <p>For the purposes of this condition, the ADRM Scheme means a detailed scheme to mitigate the adverse impacts of the development on the air defence radar at Remote Radar Head (RRH) Trimingham and the air surveillance and control operations of the MOD. The scheme will set out the appropriate measures to be implemented to that end.</p>	<p>Ministry of Defence surveillance operations</p> <p>34.—(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 required period and that arrangements have been put in place with the Ministry of Defence to ensure that the approved mitigation is implemented.</p>
<p>(2) For the purposes of this requirement—</p> <p>(a) “appropriate mitigation” means measures to mitigate any adverse effects which the operation of the authorised development will have on the air defence radar at Remote Radar Head (RRH) Trimingham and the Ministry of Defence’s air surveillance and control operations;</p>	<p>2. No wind turbine erected as part of this development shall be permitted to rotate its rotor blades about its horizontal axis, other than for the purpose of testing radar mitigation for this development for specific periods as defined in the approved ADRM or otherwise arranged in accordance with provisions contained in the approved ADRM, until:</p>	<p>(2) For the purposes of this requirement—</p> <p>(a) “appropriate mitigation” means measures to mitigate any adverse effects which the authorised development will have on the air defence radar at Remote Radar Head (RRH) Trimingham and the Ministry of Defence’s air surveillance and control operations;</p>



Requirement 34 as proposed by the Applicants in draft DCO	Requirement 34 as proposed by MOD in Relevant Rep	New EA2/1N Requirement 34 proposed by the Applicants
<p>(b) “Ministry of Defence” means the Ministry of Defence as represented by Defence Infrastructure Organisation – Safeguarding, Kington Road, Sutton Coldfield, B75 7RL or any successor body;</p> <p>(c) “the required period” means the shorter of—</p> <p>(i) the operational life of the authorised development; and</p> <p>(ii) the period ending on the date notified to the Secretary of State by the undertaker and confirmed in writing by the Ministry of Defence being the date on which responsibility for ensuring its air defence radar surveillance systems accommodate the modern built environment including wind turbines is assumed by the Ministry of Defence.</p> <p>(d) “RLSWG” means a wind turbine generator which exceeds the following heights when measured above Mean Sea Level (Newlyn) to the tip of the vertical blade— <i>[for EA2 – same approach, different map adopted for EA1N]</i></p> <p>(i) 209 metres in area A;</p> <p>...</p> <p>(ix) 290 metres in area I.</p> <p>(e) “areas A, B, C, D, E, F, G, H and I” means the areas defined by radar line of sight boundaries shown on the radar line of sight coverage plan.</p>	<p>a) those mitigation measures required to be implemented prior to any wind turbine being permitted to rotate its rotor blades about its horizontal axis as set out in the approved ADRM scheme have been implemented; and</p> <p>b) any performance criteria specified in the approved ADRM scheme and which the approved ADRM scheme requires to have been satisfied prior to any wind turbine being permitted to rotate its rotor blades about its horizontal axis have been satisfied and the Secretary of State, in conjunction with the Ministry of Defence, has confirmed this in writing.</p>	<p>(b) “approved mitigation” means the detailed Radar Mitigation Scheme (RMS) setting out the appropriate mitigation 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);</p> <p>(c) “Ministry of Defence” means the Ministry of Defence as represented by Defence Infrastructure Organisation – Safeguarding, Kington Road, Sutton Coldfield, B75 7RL or any successor body;</p> <p>(d) the “required period” means the shorter of—</p> <p>(i) the operational life of the authorised development; and</p> <p>(ii) the period ending on the date notified to the Secretary of State by the undertaker and confirmed in writing by the Ministry of Defence being the date on which the Ministry of Defence no longer requires the appropriate mitigation to be in place.</p>



Requirement 34 as proposed by the Applicants in draft DCO	Requirement 34 as proposed by MOD in Relevant Rep	New EA2/1N Requirement 34 proposed by the Applicants
(3) The undertaker must comply with the obligations contained within the appropriate mitigation for the required period.	Thereafter the development shall be operated strictly in accordance with the details set out in the approved ADRM scheme for the lifetime of the development.	3) The undertaker must thereafter comply with the obligations contained within the approved mitigation for the required period.

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