

**SCOTTISHPOWER
RENEWABLES**

East Anglia ONE North and East Anglia TWO Offshore Windfarms

Written Summary of Oral Case

Issue Specific Hearing 12 on 11th March 2021: Noise

Applicants: East Anglia TWO Limited and East Anglia ONE North Limited

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Applicable to East Anglia ONE North and East Anglia TWO



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Description of Revisions			
Rev	Page	Section	Description
01	n/a	n/a	Final for Deadline 8 submission

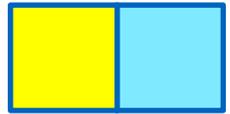
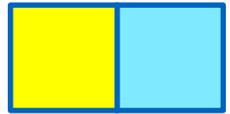


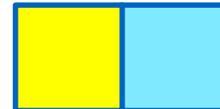
Table of contents

1	Introduction	1
2	Agenda Item 2: Noise from Construction Works	2
2.1	Policy	2
3	Agenda Item 3: Operational Noise	4
3.1	Policy	4
3.2	Operational Noise	4
4	Agenda Item 4: Cumulative Effects	5



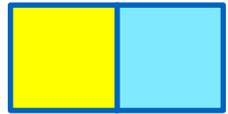
Glossary of Acronyms

CoCP	Code of Construction Practice
DCO	Development Consent Order
ExA	Examining Authority
ISH	Issue Specific Hearing
SCC	Suffolk County Council
SoCG	Statement of Common Ground



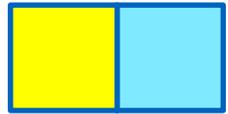
Glossary of Terminology

Applicants	East Anglia ONE North Limited and East Anglia TWO Limited
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.
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 project Development Consent Order but will be National Grid owned assets.
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 project Development Consent Order.
Projects	The East Anglia ONE North project and the East Anglia TWO project.



1 Introduction

1. This document is applicable to both the East Anglia ONE North and East Anglia TWO Development Consent Order (DCO) applications (the 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 23 December 2019. Whilst for completeness of the record this document has been submitted to both Examinations, if it is read for one project submission there is no need to read it again.
2. The Issue Specific Hearing 12 for the Applications were run jointly and took place virtually on 11th March 2021 at 10:00am (Hearings).
3. The Hearings ran through the items listed in the agendas published by the ExA on 2nd March 2021. The Applicants gave substantive oral submissions at the Hearings and these submissions are set out within this note.
4. Speaking on behalf of the Applicants were:
 - Mr Colin Innes, partner at Shepherd and Wedderburn LLP;
 - Mr Alasdair Baxter, associate noise consultant at ITP Energised;
 - Mr Colin Cobbing, technical expert in noise and health and director of Pinnacle Acoustic Consultants Limited; and
 - Mr Brian McGrellis, onshore consents manager at Scottish Power Renewables.



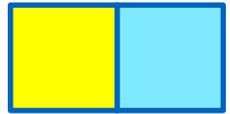
2 Agenda Item 2: Noise from Construction Works

2.1 Policy

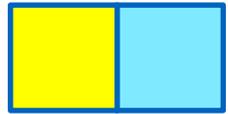
5. At the outset of the hearing the ExA set out the relevant sections of the EN-1, EN-3 and EN-5 which provided for good design and the specific sections dealing directly with noise. The Applicants have taken into account the proximity of residential and other sensitive receptors in the site selection of the substations, cable routing and at landfall. Paragraph 5.11.6 of EN-1 provides policy that the relevant British Standards should be adopted for assessing both construction and operational impacts.
6. Table 5 of the **Expert Report on Noise** [REP7-041] sets out the LOAELs and SOAELs derived from HS2 which were generally accepted. It was agreed that the LOAEL and SOAEL values should be incorporated into the OCoCP. This will ensure that significant adverse impacts on health and quality of life from noise will be avoided in accordance with 5.11.9 of EN-1.

2.1.1 Noise from Construction Works

7. At the Hearings all Parties agreed that applications under section 61 of COPA should be utilised in respect all construction works which would be encompassed in the definition of works provided by section 60 of the Act. This would also include such onshore preparation works which come within the definition.
8. Other measures such as the control of hours for construction traffic, the 100m buffer zone, and noise monitoring arrangements were also discussed. It was generally agreed that further amendments to the **Outline Code of Construction Practice** (an updated version has been submitted at Deadline 8, document reference 8.1) would be necessary to address these points. Given that there was general agreement on most, if not all the further measures needed to control construction noise, it was agreed that the Parties would engage further on the proposed changes to the **Outline Code of Construction Practice** (document reference 8.1) to agree matters as far as possible. The Applicants have submitted an updated **Outline Code of Construction Practice** (document reference 8.1) at Deadline 8. As requested by the ExA, the Applicants have submitted at Deadline 8 a technical submission on construction noise issues discussed at the hearing (**Applicants' Position Statement on Noise** (ExA.AS-14.D8.V1)). This approach is consistent and compliant with the Policy requirements set out in paragraphs 5.11 .8 to 5.11.13 EN-1.



9. The Applicants have now agreed the approach to construction noise with ESC and understand that SASES' concerns have been addressed in **section 9** of the **CoCP**.



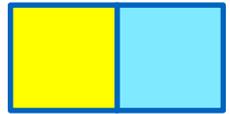
3 Agenda Item 3: Operational Noise

3.1 Policy

10. The NPS policy framework for the operational aspects is similar to that set out by the Panel at the outset of the hearing and referenced in paragraph 5 above.
11. The Applicants would highlight the second last sentence of paragraph 2.9.7 of EN-5. This confirms that whether a substation can be heard will depend on the factors listed. This contradicts the position of SASES regarding substation design. The Applicants have throughout the design of the Projects sought to minimise impacts through distance from receptors and the design of equipment. The Applicants have responded to representations expressed by undertaking early consultation with the supply chain. This enabled the Applicants to gain greater certainty about the reductions that could be achieved in respect key noise emitting plant and equipment. This has allowed the requirements in Requirement 27 of the **draft DCO** (document reference 3.1) to be lowered. This will be achieved through the procurement process.
12. Paragraph 5.11.9 of EN -1 requires in the first instance a requirement to avoid significant adverse impacts. This would be achieved by a noise rating of 35dB. The Applicants have demonstrated how they have sought to minimise impacts through their in-house technical team engaging with the supply chain. This has resulted in proposed noise levels which are well below this advised threshold. This demonstrates compliance with the second bullet point of paragraph 5.11.9 of EN-1

3.2 Operational Noise

13. As requested by the ExA, the Applicants have submitted at Deadline 8 a technical submission on operational noise issues discussed at the hearing including the absolute sound level, background noise and SSR9, tonality and constructive interference of sound waves emitted by the two proposed substations (**Applicants' Position Statement on Noise** (ExA.AS-14.D8.V1)). The Applicants have now reached agreement with ESC regarding operational noise limits for the Onshore Substations and the National Grid Substation.



4 Agenda Item 4: Cumulative Effects

14. It is not possible to assess speculative future projects. The Applicants have, to the extent possible on the basis of information currently available, provided a cumulative assessment of all foreseeable developments. Noise assessment relies on having confirmation of the specification and location of equipment. There is no confirmation of the location of potential future connections, let alone the equipment to be used. No meaningful cumulative assessment for noise can therefore be carried out.