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RENEWABLES

East Anglia ONE North and East Anglia TWO Offshore Windfarms

Applicants' Comments on the Environment Agency's Deadline 9 Submission

Applicant: East Anglia TWO and East Anglia ONE North Limited
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Applicable to **East Anglia ONE North** and **East Anglia TWO**



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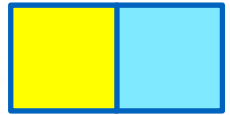
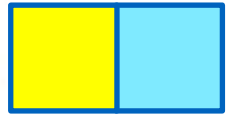


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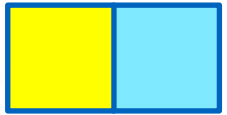
Glossary of Acronyms

DCO	Development Consent Order
OODMP	Outline Operational Drainage Management Plan
SuDS	Sustainable Drainage System



Glossary of Terminology

Applicant	East Anglia ONE North Limited / 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.
QBAR	Mean annual flood, the value of the average annual flood event recorded in a river.
SuDS	A sustainable drainage system



1 Introduction

1. This document presents the Applicants' comments on the Environment Agency's Deadline 9 submission (REP9-056).
2. This document is applicable to both the East Anglia ONE North and East Anglia TWO applications, and therefore is endorsed with the yellow and blue icon used to identify materially identical documentation in accordance with the Examining Authority's procedural decisions on document management of 23rd 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 for the other project.



2 Applicants' Comments

3. The Applicants' comments on the Environment Agency's Deadline 9 submission (REP9-056) are presented in **Table 1**.



Table 1 The Applicants' Comments on the Environment Agency's Deadline 9 Submission (REP9-056)

Point	Environment Agency Comment	Applicants' Response
Outline Operational Drainage Management Plan		
1	We have reviewed the Outline Operational Drainage Management Plans (OODMP) submitted at Deadline 8, for both EA1N and EA2 (both Doc. Ref. ExA.AS-3.D8.V4, both dated 25 March 2021).	Noted.
2	We note the addition of Plate 3 and Appendix 2 in each document, which provide some detail for a box culvert and pipe connection to Friston Watercourse, if required. We also note the inclusion of paragraph 139, which states that maintenance of the operational drainage scheme will be secured through the final Operational Drainage Management Plan.	Noted.
3	As discussed within the OODMP documents, it will be essential to ensure that flood risk is not increased as a result of any positive discharge to Friston Watercourse. The Lead Local Flood Authority must be satisfied with the proposed rate of discharge.	<p>The Applicants would like to clarify that design of the sustainable drainage system (SuDS) and the option progressed will prioritise the use of infiltration subject to ground conditions (informed by infiltration testing) and the site specific hydraulic model, thereby minimising the requirement for a positive drainage connection as part of the surface water drainage scheme to the Friston Watercourse.</p> <p>However, should there be a need to include a positive discharge to the Friston Watercourse, the Applicants have committed to not exceeding the pre-development Q_{BAR} runoff rate within the Outline Operational Drainage Management Plan (OODMP) (REP8-064), which is secured by Requirement 41 of the draft Development Consent Order (DCO) (document reference 3.1). This has been agreed within the Statement of Common Ground (SoCG) (REP8-114) with Suffolk County Council, who are the Lead Local Flood Authority.</p>



Point	Environment Agency Comment	Applicants' Response
		<p>As the Friston Watercourse is a Main River at this location the Applicants will undertake consultation with the Environment Agency to confirm connection, permitting and maintenance requirements during detailed design.</p>
4	<p>Friston Watercourse currently receives a significant amount of silt, contained within the surface water run-off entering the channel from the Church Road and Grove Road areas. Therefore we would just highlight at this stage that the final SuDS scheme should be designed to ensure that the sediment load entering Friston Watercourse is not increased as a result of the proposed development, and is decreased where possible. The final design of any positive outfall should seek to minimize the risk of blockage as a result of sediment build up in the channel. In preparing the final Operational Drainage Management Plan, the need for any on-going maintenance to ensure that the outfall remains operational and able to discharge throughout the lifetime of the development should be considered. We would need to review and approve any maintenance activities within the channel.</p>	<p>The Applicants note that the Environment Agency agree that the detail of silt control is a matter which should be dealt with at the time of final design. A review of the silt removal measures will be carried out in accordance with CIRIA C753 SuDS Manual (CIRIA, 2015) during detailed design.</p> <p>The development of the Projects' substations will change land use within part of the catchment which will prevent a significant portion of sediment from entering the Friston Watercourse compared to the pre-development silt loading. Therefore there will be a reduction in the silt levels (all things being equal) as a result of the Projects.</p> <p>Where an attenuation only, or a hybrid solution is adopted, the SuDS pond itself and the upstream/downstream pipework system will prevent a significant portion of sediment from entering the Friston Watercourse compared to the pre-development silt loading. This is due to the SuDS pond acting as a settlement pond, removing sediment prior to it entering the discharge pipe and subsequently the Friston Watercourse. Any siltation within the SuDS pond will then be regularly removed by the Applicants as part of its continuous SuDS maintenance activities.</p> <p>If increased maintenance of the Friston Watercourse is required then the Applicants are committed to undertake this until the Projects are decommissioned, also detailed in the OODMP (REP8-064) and Requirement 41 of the draft DCO (document</p>



Point	Environment Agency Comment	Applicants' Response
		reference 3.1). As the Friston Watercourse is a Main River at this location, the Applicants will undertake consultation with the Environment Agency to confirm connection, permitting and maintenance requirements during detailed design.
5	Consideration of these issues will form part of our assessment of the final Operational Drainage Management Plan, under Requirement 41.	Noted.