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# East Anglia TWO Offshore Windfarm

## Outline Pre- Commencement Archaeology Execution Plan (Onshore)

Applicant: East Anglia TWO Limited  
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**Applicable to  
East Anglia TWO**



#### Revision Summary

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001	08/10/2019	Ian Mackay	Julia Bolton	Helen Walker
<u>002</u>	<u>02/11/2020</u>	<u>Ian Mackay</u>	<u>Lesley Jamieson</u>	<u>Rich Morris</u>

#### Description of Revisions

Rev	Page	Section	Description
001	n/a	n/a	Final for Submission
<u>002</u>	<u>n/a</u>	<u>n/a</u>	<u>Updated at Deadline 1 to include consideration of further archaeology investigations with respect to onshore preparation works.</u>



## Glossary of Acronyms

DCO	Development Consent Order
ES	Environmental Statement
OPCAEP	Outline Pre Commencement Archaeology Execution Plan
OWSI	Outline Written Scheme of Investigation
PCAEP	Pre Commencement Archaeology Execution Plan
SCCAS	Suffolk County Council Archaeology Service
WSI	Written Scheme of Investigation



## Glossary of Terminology

Applicant	East Anglia TWO Limited.
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.
Onshore development area	The area in which the landfall, onshore cable corridor, onshore substation, landscaping and ecological mitigation areas, temporary construction facilities (such as access roads and construction consolidation sites), and the National Grid Infrastructure will be located.



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# 1 Introduction

## 1.1 Background

1. This Outline Pre Commencement Archaeology Execution Plan (OPCAEP) is relevant to onshore archaeology and cultural heritage and relates to the onshore elements of the proposed East Anglia TWO project.
2. The OPCAEP forms part of a set of documents that supports the Environmental Statement (ES) (Document reference 6.1) submitted by East Anglia TWO Limited (the Applicant) as part of the Development Consent Order (DCO) application.
3. A final detailed Pre Commencement Archaeology Execution Plan (PCAEP) will be produced prior to intrusive pre-commencement archaeological surveys, archaeological investigations or site preparation in respect of such surveys or investigations of the proposed East Anglia TWO project, and will be in line with this OPCAEP (as required by Requirement 19 of the draft DCO). Once archaeological contractors have been appointed, the final PCAEP measures would be further developed in consultation with the relevant regulatory authorities.
4. The final PCAEP will be a key mechanism, enforceable via the DCO, through which the approach to onshore archaeology survey delivery, planning and management would be agreed with the relevant regulatory authorities.

## 1.2 Structure of the OPCAEP

5. This OPCAEP sets out the outline approach to execution of the archaeological survey and investigation to be undertaken post-consent. This document covers the following key aspects:
  - Key Roles and Responsibilities;
  - Environment;
  - Logistics;
  - Survey Planning;
  - Local Stakeholder Communications; and
  - Liaison with [Suffolk County Council Archaeological Service \(SCCAS\)](#) and Historic England

## 1.3 Archaeology Surveys

6. The final PCAEP will apply to intrusive pre-commencement archaeological surveys, archaeological investigations ~~and to~~ site preparation works in respect of such surveys ~~and~~ investigations. ~~included within the final Written Schemes~~



~~of Investigation (WSI) Onshore~~. This includes post consent initial informative survey stages of mitigation work and subsequent additional mitigation requirements. This forms part of an overarching mitigation strategy to be undertaken within the onshore development area.

7. All post-consent initial informative stages of mitigation work (ultimately informing subsequently required mitigation approaches) will be subject to ~~a~~ bespoke survey-specific WSI~~s~~ (Method Statement~~s~~) to be approved by East Suffolk Council (ESC) in consultation with SCCAS (and Historic England, as required).
8. The post-consent initial informative stages of mitigation work as stated within the Outline Written Scheme of Investigation (OWSI) (Onshore) will include:
  - Any additional Onshore Archaeological Geophysical Survey, not previously completed due to lack of accessibility
  - A scheme-wide programme of Archaeological Trial Trenching
  - Additional Targeted Archaeological Metal Detecting Survey, as required
  - Targeted Archaeological Field Walking Survey, as/where required;
  - Detailed Recording of Standing Buildings or Structures / Detailed Earthwork Recording (both - as required), following the Archaeological Earthwork Identification Survey; and
  - Geoarchaeological Assessment / Palaeoenvironmental Survey. To include monitoring of any ground investigation / site investigation boreholes and trial pits, if proposed and undertaken in the post-consent stages of the proposed East Anglia TWO project.
9. Archaeological mitigation may also be required in relation to onshore preparation works. The requirement for archaeological mitigation (and any associated WSIs) would be determined by the type and nature of these onshore preparation works and informed by the existing archaeological information (for example, the results of trial-trenching evaluations). Archaeological mitigation measures require to be approved by ESC in consultation with SCCAS (and Historic England, as required). Onshore preparation works requiring archaeological mitigation may include:
  - Site clearance;
  - Demolition work;
  - Pre-planting/landscaping ;
  - Ecological mitigation (where excavation is required);
  - Geotechnical Investigations (excluding borehole samples);



- Remedial work in respect of any contamination or other adverse ground conditions;
- Diversion and laying of services;
- Creation of site accesses;
- Footpath creation (where excavation is required) ;
- Highway alterations (where alterations are beyond the highway boundary);
- Erection of welfare facilities (where excavation is required)





## 2 Key Roles and Responsibilities

~~9.10.~~ The final PCAEP will include a detailed section which explains the key roles and responsibilities which will be required to deliver the archaeology survey and investigation agreed within the final WSI.

~~10.11.~~ The roles and responsibilities section will state who will be responsible for the following:

- Management of the delivery of the programme of onshore survey and investigation;
- Site supervision of archaeology survey and investigation;
- Technical delivery of archaeology survey and investigation;
- Management of Environmental and Ecological Compliance;
- Management of Health and Safety;
- Land access (for example, plant movements and public rights of way);
- Liaison with SCCAS and Historic England;
- Liaison with landowners; and
- Liaison with community stakeholders



## 3 Environment

~~14.~~12. The final PCAEP will include a section on how environmental matters will be managed during the delivery of the archaeology survey and investigation. This may include how the following will be managed:

- Ecological surveys including any protected species license requirements and subsequent restrictions to any archaeology survey;
- Spills;
- Drainage;
- Dust Management;
- Waste Management;
- Hazardous Substances;
- Contaminated Soils; and
- Local Flooding Incidents, including the deployment of mitigation measures.

13. The final PCAEP will include details of any hydrogeological risk assessments required to be undertaken in advance of intrusive pre-commencement archaeological surveys and investigations undertaken within 250m of a groundwater abstraction point, to assess pollution pathways and ensure risks to groundwater and to the use of the abstraction point are considered.



## 4 Logistics

~~12.14.~~ 14. The final PCAEP will include a section on how logistical matters will be managed. This section may include the following:

- Deliveries of archaeological plant and materials to and from site;
- Traffic Management (access and egress);
- Location of welfare facilities; and
- Transport arrangements for all archaeological staff on site



## 5 Survey Planning

~~13.~~15. The final PCAEP will include a dedicated section, which will detail how surveys will be planned to ensure they are delivered in an efficient manner in line with best practice and guidance. This section may include details of the following pre survey tasks:

- Initial contact with SCCAS to discuss efficient programming of site works including where surveys can be combined;
- Pre start walk over, including inspection of all access points and any areas required for erection of survey compounds;
- Pre start discussions with relevant landowners, implementation of land access licences and logging of any specific landowner requirements such as cropping schedules;
- ~~Pre start discussions with relevant landowners and logging of any specific landowner requirements;~~
- Pre start communications with the local community;
- Pre start ecological surveys;
- Pre start utilities survey / desk-based assessment and setting out;
- Pre start UXO assessments and recommendations for mitigation;
- Mapping of any other relevant survey constraints; and
- Production of a survey programme.

~~14.~~16. The final PCAEP will also include a section which states the proposed arrangements for ongoing management of the programme of archaeological survey and investigation. This will ensure efficient survey delivery can be maintained and reduce risk as far practicable. This section may include, but is not limited to, the following:

- Formal kick off meeting;
- Explanation of lines of communication and procedures;
- Daily pre start call to ensure the survey activities for the day are clear and understood by the team;
- Weekly site team meeting, to discuss survey progress and key issues;
- Production of a weekly survey update report which tracks progress against programme and notes key findings;
- Weekly meeting or conference call with SCCAS, if deemed appropriate, to provide a survey update and planning of SCCAS attendance to site



17. Further details of survey planning and management will be incorporated as required within survey-specific WSIs and within documentation prepared by archaeological contractors prior to and during archaeological survey works. The final PCAEP will reference this documentation, as required.



## 6 Local Stakeholder Communications

~~15.18.~~ 18. The final PCAEP will include a section which states how all communications with the local community and landowners will be managed. This section may include the following:

- The procedure for ensuring landowners and the local community are kept informed during delivery of the archaeology surveys;
- The method/s by which key updates will be delivered (e.g. website, email, parish briefing; and
- Contact details for the Applicant's stakeholder team.



## 7 Liaison with SCCAS and Historic England

~~46.19.~~ The final PCAEP will include a section on how regular liaison will be achieved with SCCAS and Historic England during the delivery of the programme of archaeological survey and investigation. This may be achieved through a regular monthly project meeting, or more regularly, as deemed appropriate through discussion and agreement with SCCAS and Historic England.