

East Anglia THREE  
Offshore Windfarm

East Anglia THREE

# Schedule of Mitigation

## Onshore

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of Mitigation (onshore) V2/ Applicant

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# 1 Schedule or Mitigation (Onshore)

## 1.1 Introduction

- 2 This document lists all the mitigation proposed in the Environmental Impact Assessment (EIA) for the proposed East Anglia THREE project. The following schedule lists all measures proposed on a topic by topic basis and signposts where the commitment made in the Environmental Statement are secured in the draft Development Consent Order and associated documents.
- 3 The following abbreviations are used in the schedule

Abbreviation	Term
CCS	Construction Consolidation Site
DCO	Development Consent Order
EATL	East Anglia THREE Ltd
ECoW	Ecological Clerk of Works
EMF	Electromagnetic Fields
HDD	Horizontal Directional Drilling
HGV	Heavy Goods Vehicle
LCV	Light Commercial Vehicle
OCoCP	Outline Construction Code of Practice
OLEMS	Outline landscape and ecological management strategy
NPPF	National Planning Policy Framework
PMOW	Precautionary Method of Working
PPG	Pollution Prevention Guidance
SPA	Special Protection Area
SSSI	Site of Special Scientific Interest
WSI	Written Scheme of Investigation

## 1.1 Schedule

Table 1 Onshore Mitigation Measures

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
<b>General</b>					
1.1	Chapter 19 - Chapter 29	Minimising impact all receptors	The construction footprint has been minimised as far as practicable.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
1.2	Chapter 19 - Chapter 29	Minimising impact all receptors	Site selection and cable routeing to avoid sensitive locations.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
1.3	Chapter 19 - Chapter 29	Minimising impact all receptors	All ducts for the onshore cable route for the proposed East Anglia THREE project will be installed during the construction of East Anglia ONE.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
1.4	Chapter 19 - Chapter 29	Minimising impact all receptors	During detailed design, jointing bays, haul road etc. will be located where possible to avoid key sensitive locations.	Embedded mitigation, no effect on significance of assessed impact	OCoCP section 7.2.2, OLEMS section 2.2 and Table 1
1.5	Chapter 19 - Chapter 29	Minimising impact all receptors	Land would be reinstated to its pre-construction condition as soon as	Embedded mitigation, no	DCO Sch 1, Part 3, 30

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			reasonably possible following cable installation, dependent on weather conditions and excluding the substation(s) and jointing bay locations.	effect on significance of assessed impact	
1.6	Chapter 19 - Chapter 29	Minimising impact all receptors	A CoCP will be developed in consultation with the contractor and the Environment Agency and local authorities.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22
1.7	Chapter 19 - Chapter 29	Minimising impact all receptors	Adherence to the Construction Design and Management (CDM) Regulations 2015 where applicable.	Embedded mitigation, no effect on significance of assessed impact	OCoCP, section 2.2
1.8	Section 19.3.3	Minimising impact all receptors	Construction workers including sub-contractors would follow good site practices and hygiene rules as set out in BS5930:1999+A2:2010 and BS10175:2011.	Embedded mitigation, no effect on significance of assessed impact	OCoCP, section 7.4
1.9	Section 19.3.3	Minimising impact all receptors	Appropriate Personal Protective Equipment (PPE) would be worn by construction workers including sub-contractors and health and safety measures undertaken to mitigate short term risks during construction.	Embedded mitigation, no effect on significance of assessed impact	OCoCP, section 7.4

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
1.10	Section 19.3.3	Pollution prevention, all receptors	Adherence to best practices and guidance to ensure the risk of pollution is minimised, including best site management practices, such as those set out in the Environment Agency's Pollution Prevention Guidelines (PPG) notes. This would be adopted during the construction and operational phases to prevent such spillages and leaks.	Embedded mitigation, no effect on significance of assessed impact	OCoCP, section 10.2
1.11	Chapter 19 - Chapter 29	Decommissioning all receptors	The decommissioning methodology would be finalised nearer to the end of the lifetime of the project so as to be in line with current guidance, policy and legislation at that point. Any such methodology would be agreed with the relevant authorities and statutory consultees.	Embedded mitigation, no effect on significance of assessed impact	Onshore decommissioning DCO Sch1, Part 3, 31
<b>Soils, Geology &amp; Ground Conditions</b>					
2.1	Table 19.3, Section 19.3.3, ES Chapter 19.	Impact on geology, soils and ground conditions from construction, operation, decommissioning and cumulative impacts.	The construction footprint has been minimised as far as practicable (see Chapter 5 Description of the Development).	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
2.2	Table 19.3, Section 19.3.3, ES Chapter	Impact on geology, soils and ground conditions from	Land would be reinstated to its pre-construction condition as soon as	Embedded mitigation, no	DCO Sch 1, Part 3, 30

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
	19.	construction, operation, decommissioning and cumulative impacts.	reasonably possible following cable installation, dependent on weather conditions and excluding the substation(s) and jointing bay locations.	effect on significance of assessed impact	
2.3	Table 19.3, Section 19.3.3, ES Chapter 19.	Cumulative impact on geology	All ducts for the onshore cable route for the proposed East Anglia THREE project will be installed during the construction of East Anglia ONE. Therefore there are no HDD or open trenching engineering techniques proposed as part of the proposed East Anglia THREE project.	Embedded mitigation, no effect on significance of assessed impact	DCO Part 2 Article 3 (1)
2.4	Table 19.3, Section 19.3.3, ES Chapter 19.  Section 19.6.1.2, ES Chapter 19	Impact on soil, landfall, onshore cable and substation during construction.	The CoCP will include measures for avoiding the likelihood of spills and leakages, such as: <ul style="list-style-type: none"> <li>• Store oils and fuel within designated areas above ground and in impervious storage bunds with a minimum of 110% capacity to contain leakages or spillages, in addition storage areas will be regularly inspected to identify leaks or spills;</li> <li>• Limit refuelling activities to designated, impermeable surfaced areas and use drip traps</li> </ul>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 OCoCP Sections 3.2, 7, 8, 9, 10



Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			<p>where possible;</p> <ul style="list-style-type: none"> <li>• Check and maintain equipment regularly to ensure that leakages do not occur;</li> <li>• Have spill kits available on site at all times;</li> <li>• Ensure site inductions for all staff, to include the above procedures and the locations of spill kits.</li> <li>• The separate storage of topsoil and excavated materials, to prevent mixing of subsoil and topsoil, thus improving reinstatement.</li> <li>• Minimising excavation volumes and disturbance to the surrounding areas, together with the replacement of soils inadvertently disturbed during excavations in general accordance with their original structure and location.</li> <li>• It is likely that soils will be reused on site. Soils that cannot be re-instated would follow a waste hierarchy following the CL:AIRE Code of Practice (2011).</li> </ul>		

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
2.5	Table 19.3, Section 19.3.3, ES Chapter 19.	Impact on landfall during construction.	Temporary ramp construction over the cliffs at landfall, where the Red Crag is absent, will be constructed to an agreed method statement approved by the planning authority in consultation with Natural England.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3, 13
2.6	Table 19.3, Section 19.3.3, ES Chapter 19.	Impact on sensitive land areas from construction, operation, decommissioning and cumulative impacts.	Initial cable routeing and site selection to avoid key sensitive land uses where possible e.g. potentially contaminated sites, landfills, mineral extraction areas.  During detailed design, jointing bays will be located where possible to avoid key sensitive land uses where possible e.g. potentially contaminated sites, landfills, mineral extraction areas.	Embedded mitigation, no effect on significance of assessed impact	DCO Part 2 Article 3 (1)
2.7	Table 19.17, Section 19.6.1, ES Chapter 19	Impact on geology during construction at Landfall	In order to reduce the impacts to the underlying geology from haul roads, cable pulling and general construction activities including leaks and spills, the following mitigation would be undertaken: <ul style="list-style-type: none"> <li>• Design and construct free standing ramp to minimise loading and destabilisation of cliff face;</li> <li>• Check and maintain equipment to ensure leaks</li> </ul>	Reduces impact from <b>moderate</b> to <b>minor adverse</b>	DCO Sch 1 Part 1, 13

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			and spills do not occur; and Have spill kits available at all times and an incident response plan in place.		
2.8	Table 19.18, Section 19.6.2, ES Chapter 19.	Impacts to soils, geology and ground conditions during operation	<ul style="list-style-type: none"> <li>At the substation(s), where it is not possible to store potentially contaminative materials off-site, arrangements would be made for storage in secure, bunded areas above ground level;</li> <li>A Pollution Prevention Plan and Emergency/Incident Response Plan would be incorporated as part of a CoCP for the proposed East Anglia THREE project, and agreed with the local planning authority prior to construction;</li> <li>Procedures would be put in place for identifying and reporting spillages or leakages either at the substation(s) or during maintenance activities along the cable routes, and consideration given to the storage of containment equipment (e.g. absorbent matting, plastic sheeting etc.) on site etc.;</li> </ul>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			<ul style="list-style-type: none"> <li>Gas risks would be considered for all maintenance workers whenever there is a requirement to enter confined spaces. This should be managed through contractor health and safety risk assessments;</li> <li>The integrity of hardstanding at the substation(s) and the drainage network would be inspected regularly to ensure that damage to either do not result in the creation of a potential pathway by which contaminants could either enter groundwater or surface waters; and</li> <li>Oil, water and silt separators will be used where applicable on construction compound surface water management systems to remove oils and fuels accidentally spilled / accumulated during construction.</li> </ul>		
<b>Air Quality</b>					
3.1	Section 20.3.3, Table	All air quality impacts	Construction and decommission works would be undertaken in	Embedded	DCO Sch 1, Part 3, 22

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
	20.5		<p>accordance with the Greater London Authority and London Councils best practice guidance document (Greater London Authority and London Councils 2006) on controlling emissions from construction sites.</p> <p>Control measures would be included within final Code of Construction Practice</p>	mitigation, no effect on significance of assessed impact	OCoCP Section 6
3.2	Section 20.3.3, Table 20.5	All air quality impacts	<p>The methods for controlling air quality impacts would be discussed and agreed with the relevant local authorities and pertinent stakeholders through the development of an Air Quality Management Plan (AQMP).</p> <p>Control measures would be included within final Code of Construction Practice</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 OCoCP Section 6
3.3	Section 20.3.3, Table 20.5	All air quality impacts	Agreed methods would be formalised within a Code of Construction Practice, outlining the level of mitigation that would be employed based on the potential risk at any given stage and with regard to receptor sensitivity.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 OCoCP Section 6
3.4	Section 20.3.3, Table	All air quality impacts	Public relations would be co-ordinated	Embedded	DCO Sch 1, Part 3, 22

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
	20.5		on site by a designated member of the construction management team.	mitigation, no effect on significance of assessed impact	OCoCP Section 6.1
3.5	Section 20.3.3, Table 20.5	Dust impacts	Any dust complaints would be monitored and appropriate mitigation measures implemented, where appropriate.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 OCoCP Section 6.1
3.6	Section 20.6.3	Decommissioning impacts (demolition)	Kiosks would be removed, which would involve concrete breaking. The 2014 IAQM guidance (IAQM 2014) details best-practice mitigation measures to reduce the impacts of dust from demolition, which would be implemented during decommissioning.	Embedded mitigation, no effect on significance of assessed impact	Onshore decommissioning DCO Sch1, Part 3, 31
<b>Water Resources &amp; Flood Risk</b>					
4.1	Section 21.3.3, Table 21.3	All water resource impacts	A CoCP will be developed and agreed with the relevant local planning authority. The CoCP will include best practice measures for avoiding the likelihood of spills and leakages	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22
4.2	Section 21.3.3, Table 21.3	All water resource and flood risk impacts	Initial cable routeing and site selection to avoid key sensitive land uses	Embedded mitigation, no	DCO Sch 1, Part 1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			where possible e.g. potentially contaminated sites, landfills, mineral extraction areas.	effect on significance of assessed impact	
4.3	Section 21.3.3, Table 21.3	Watercourse impacts construction, operation and decommissioning	<p>No works will be carried out that damage or interfere with the bed or banks of, or construct any works within 8 metres of, any watercourse forming part of a main river, or within 16 metres of a tidally influenced main river without the prior written consent of the Environment Agency.</p> <p>The export cables will be installed in existing ducts that are located underground / below river bed to minimise potential impacts to flood risk receptors</p>	Embedded mitigation, no effect on significance of assessed impact	<p>DCO Part 4 Article 13 (5)</p> <p>DCO Sch 1, Part 3, 22 (2) b</p> <p>Watercourse crossing method statements</p>
4.4	Section 21.3.3, Table 21.3	All water resource impacts	Pollution prevention measures will be implemented in accordance to Environment Agency PPG series	Embedded mitigation, no effect on significance of assessed impact	<p>DCO Sch 1, Part 3, 22 (2) h</p> <p>Pollution prevention and emergency incident response plan</p>
4.5	Section 21.3.3, Table 21.3	Impacts on surface waters	Run-off from the substation(s) location will be limited, where feasible, through the use of infiltration techniques which can be	Embedded mitigation, no effect on significance of	<p>DCO Sch 1, Part 3, 22 (2)a</p> <p>Surface water and drainage management</p>

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
	Section 21.6.1.4.3		<p>accommodated within the area of works. Where the proposed run-off rate from the site exceeds the current rate, the additional run-off will be attenuated using SuDS storage techniques.</p> <p>The proposed surface water drainage scheme will be designed to meet the requirements of the NPPF by managing construction runoff to existing greenfield runoff rates and preventing sediment laden runoff entering nearby streams.</p>	assessed impact	plan
4.6	<p>Section 21.3.3, Table 21.3</p> <p>Section 21.6.2.1.2</p>	Impacts on surface waters	The design of the substation(s) compound will incorporate a sustainable drainage system (SuDS) and runoff will be managed to maintain greenfield runoff rates. In addition, there will be sufficient site attenuation for rainfall up to 1 in 100 year probability events, plus a 30% allowance for climate change. The SuDS would also incorporate measures to intercept sediment and filter out contaminants before they can enter surface waters.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 (2)a (Surface water and drainage management plan)



Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
<b>Land Use</b>					
5.1	Section 22.3.3, Table 22.3	All land use impacts	Site selection and cable routing to avoid sensitive locations	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
5.2	Section 22.3.3, Table 22.3	All land use impacts	All ducts for the onshore cable route for the proposed East Anglia THREE project will be installed during the construction of East Anglia ONE.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
5.3	Section 22.3.3, Table 22.3	All land use impacts	During detailed design, jointing bays, haul road etc. will be located where possible to avoid key sensitive locations where possible	Embedded mitigation, no effect on significance of assessed impact	OCoCP section 7.2.2, OLEMS section 2.2 and Table 1.
5.4	Section 22.3.3, Table 22.3	All land use impacts	Land would be reinstated to its pre-construction condition as soon as reasonably possible following cable installation, dependent on weather conditions and excluding the substation(s) and jointing bay locations.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 30
5.5	Section 22.3.3, Table 22.3	All land use impacts	A Code of Construction Practice (CoCP) will be developed in	Embedded mitigation, no	DCO Sch 1, Part 3, 22

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			<p>consultation with the contractor and the Environment Agency and local authorities. This will cover</p> <ul style="list-style-type: none"> <li>• Soil handling</li> <li>• Agricultural liaison</li> <li>• PRow methodology</li> <li>• Reinstatement</li> <li>• Land drainage</li> </ul>	effect on significance of assessed impact	
5.6	Section 22.3.3, Table 22.3 Section 22.6.1.7	Impacts upon utilities	Potentially affected utility providers would be contacted and the location of existing services would be accurately identified on the ground prior to construction.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 8, Part 1
5.7	Section 22.3.3, Table 22.3	All land use impacts	<p>Providing temporary means of access to severed fields for animals, vehicles and machinery.</p> <p>Appropriate planning and timing of works to reduce conflicts.</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 OCoCP Section 2.3
5.8	Section 22.3.3, Table 22.3 Section 22.6.1.3	Impacts upon drainage	Land drainage systems would be maintained during construction and reinstated on completion.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 OCoCP Section 2.3
5.9	Section 22.3.3, Table 22.3	Impacts upon PRow	Limited closure / diversion of public rights of way	Embedded mitigation, no effect on	DCO Sch 1, Part 3, 22 OCoCP Section 4

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
	Section 22.6.1.6			significance of assessed impact	
5.10	Section 22.3.3, Table 22.3	Impacts upon hedgerows	Suitable maintenance of any newly planted sections of hedgerow, shelterbelts and woodlands following construction.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 15 OCoCP Section 3.8
5.11	Section 22.3.3, Table 22.3 Section 22.6.1.4	Impacts upon soils	Storage and replacement	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 22 OCoCP Section 10.3
5.12	Section 22.3.3, Table 22.3 22.1.6.5	Potential spread of disease	Best practice soil handling to prevent the spread of plant and animal diseases  Defra (2003) and the Food and Environment Research Agency (undated) have identified a number of best practice measures to minimise the risk of spreading disease	Embedded mitigation, no effect on significance of assessed impact	OLEMS section 4.7
5.13	Section 22.3.3, Table 22.3	Impacts considered in Ch 23	Managing Invasive Non-native Plants	Embedded mitigation, no effect on significance of assessed impact	OLEMS section 4.7

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
5.14	Section 22.6.2.8	EMF effects	EATL would seek to comply with Government policy on EMF exposure limits and the potential exposure levels would be below the International Commission on Non-ionizing Radiation Protection recommended exposure limits	Embedded mitigation, no effect on significance of assessed impact	ES Chapter 22, Section 22.6.2.8
<b>Terrestrial Ecology</b>					
6.1	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	The construction footprint has been minimised as far as practicable.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
6.2	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	Site selection and cable routeing to avoid sensitive locations	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
6.3	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	All ducts for the onshore cable route for the proposed East Anglia THREE project will be installed during the construction of East Anglia ONE.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
6.4	Section 23.3.3, Table 23.4	Impacts to hedgerows, trees and watercourses	CCS locations would include a 5m buffer around the site to minimise the	Embedded mitigation, no	DCO Sch 1, Part 3, 22 – (CoCP)

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			impact upon sensitive hedgerows and trees, and a 10m buffer to minimise the impact upon watercourses.	effect on significance of assessed impact	OLEMS Table 1
6.5	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	During detailed design, jointing bays, haul road etc. will be located where possible to avoid key sensitive locations where possible.	Embedded mitigation, no effect on significance of assessed impact	OCoCP section 7.2.2, OLEMS section 2.2 and Table 1
6.6	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	Land would be reinstated to its pre-construction condition as soon as reasonably possible following cable installation, dependent on weather conditions and excluding the substation(s) and jointing bay locations.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 30 OCoCP, section 3.8 OLEMS Table 1
6.7	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	The OLEMS is included with this application. The final versions of this document will be agreed with local authorities prior to the commencement of construction works. The final versions would include species protection plan(s) (where appropriate) and provisions for an ECoW.	Embedded mitigation, no effect on significance of assessed impact	DCO Part 7, Article 32
6.8	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	The OCoCP is included with this application which has an overview of	Embedded mitigation, no	DCO Sch 1, Part 3, 22

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			ecological mitigation and enhancement measures.	effect on significance of assessed impact	
6.9	Section 23.3.3, Table 23.4	All terrestrial ecology impacts (where required)	Pre-construction surveys in relation to legally protected species would be undertaken for the proposed East Anglia THREE project by suitably qualified ecologists to ensure mitigation is based upon up-to-date survey data. Pre-construction surveys undertaken for East Anglia ONE would also be used to augment the baseline characterisation.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 29 (EPS) OLEMS Table 1
6.10	Section 23.3.3, Table 23.4	Impacts to hedgerows, trees	Suitable maintenance of any newly planted sections of hedgerow, shelterbelts and woodlands following construction would have an aftercare period of ten years.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 15 OLEMS Table 1
6.11	Section 23.3.3, Table 23.4  Section 23.6.1.12	Impact upon bats	Lighting sensitive to bats would be incorporated according to guidance in <i>Bats and Lighting in the UK</i> (Bat Conservation Trust (BCT) and Institute of Lighting Engineers (ILE) 2009) and BCT Interim Guidance: artificial lighting and wildlife BCT (2014).	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 14 (2) (f) Landscaping management scheme DCO Sch 1, Part 3, 22 (2) (f) DCO Sch 1, Part 3, 23

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
					CoCP section 3.7 OLEMS Table 1
6.12	Section 23.3.3, Table 23.4	Impacts upon soils	The excavated material from the jointing / transition bays (earth / sand / shingle) would be stockpiled on the fields or beach for short periods but re-laid to match existing profiles	Embedded mitigation, no effect on significance of assessed impact	OLEMS Table 1
6.13	Section 23.3.3, Table 23.4  23.6.1.11 23.6.1.12 23.6.1.14 23.6.1.15	Impacts upon sensitive species	No 24 hour lighting except at CCS where working is required	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 14 (2) (f) Landscaping management scheme DCO Sch 1, Part 3, 22 (2) (f) CoCP DCO Sch 1, Part 3, 23 Artificial light emissions plan  CoCP section 3.7 OLEMS Table 1
6.14	Section 23.3.3, Table 23.4  23.6.1.4	Impacts upon trees	Early installation of protective fencing would be utilised in order to minimise impacts to trees and their roots.	Embedded mitigation, no effect on	DCO Part 1 Sch 3 14 (2) (h) Details of trees to be

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
				significance of assessed impact	retained DCO, Sch 1, Part 3, 17 Fencing
6.15	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	Reinstatement following cable installation	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 30.
6.16	Section 23.3.3, Table 23.4	All terrestrial ecology impacts	Pollution prevention measures would be implemented in accordance to Environment Agency PPG series	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3 22 (2) (h) OCoCP, section 10.2
6.17	Section 23.3.3, Table 23.4	Impacts upon soils	Carefully handle topsoil to best practice guidance	Embedded mitigation, no effect on significance of assessed impact	OLEMS Table 1 OCoCP section 10.3
6.18	Section 23.3.3, Table 23.4	Impacts at the substation	Implementation of Outline Substation Design Principles, to ensure appropriate finishes and materials.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 12 DAS OLEMS Table 1
6.19	Section 23.3.3, Table 23.4	Impacts upon sensitive species	Limited 24 hour lighting at substation compound during particular	Embedded mitigation, no	DCO, Sch 1, Part 3, 14 (2) (f)



Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			construction activities (e.g. concrete pours).	effect on significance of assessed impact	Landscape management scheme DCO Sch 1, Part 3, 23 Artificial light emissions plan  OCoCP section 3.7 OLEMS Table 1
6.20	Section 23.3.3, Table 23.4	Impacts to sensitive species.	Lighting would be limited to internal access roads and walkways, security lighting, task related flood lighting. Further detail on these mitigations would be set out in the OCoCP / OLEMS.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 14 (2) (f) Landscaping management scheme DCO Sch 1, Part 3, 23 OCoCP, Artificial light emissions plan  OCoCP section 3.7 OLEMS Table 1
6.21	23.6.1.4	Impacts to woodland, scrub and trees and woodland species.	The roots of retained trees along the edge of the working width would be protected from soil compaction by the enforcement of Root Protection Areas that would be fenced off from the construction (the extent of which	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 14 (2) (h) OLEMS Section 4.1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			<p>would be calculated using guidance from BS5837: 2012);</p> <p>Facilitation pruning may be recommended where tree crowns are at risk from impact by machinery or high sided vehicles;</p> <p>Where possible, removal of vegetation would be timed to avoid the bird breeding season (March to October inclusive); and</p> <p>If bat roosts are found in the trees then the measures set out in bat mitigation would be followed.</p>		
6.22	23.6.1.5.1	Impacts to hedgerow	<p>Where hedgerow removal is required the OLEMS outlines the following mitigation;</p> <p>Vegetation and topsoil from any associated ditch would be stripped and stored separately;</p> <p>Soil storage areas would be clearly signed and demarcated to prevent any mixing with other soils;</p> <p>Banks and ditches would be reformed to similar profiles as before;</p> <p>Topsoil would be replaced after</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 14 & 15 OLEMS Section 4.2

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			works; Planting would use native species, preferably of local origin; Planting would use shrubs of the same species and in the same general proportions as existed pre-construction; and To aid establishment of replanted trees and shrubs, they would be protected by stock-proof and either rabbit-proof fencing or tree guards.		
6.23	23.6.1.11	Impacts to badgers	Pre-construction surveys would be undertaken to check whether any inactive setts have become active prior to construction, or whether any new setts have appeared since the 2014 survey. Should any active setts be identified within the footprint of the proposed works, these setts would need to be closed prior to construction. Closure of setts would require a licence from Natural England and badgers would need to be excluded from the setts between 1 <sup>st</sup> July and 30 <sup>th</sup> November prior to sett closure. Any setts which need to be closed during construction would	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 29 OLEMS Section 4.9

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			remain closed for the duration of both phases of construction under a Two Phased approach.		
6.24	23.6.1.11	Impacts to badgers	<p>As a general rule, the use of noisy plant and machinery in the vicinity of the 30m disturbance zone around active setts. Upon further details of the works specific to within 30m of an active sett, where appropriate and proportional to the works, and as agreed with Natural England prior to works commencing, the ECoW may reduce the buffer to less than 30m where it is considered the works will not result in obstruction or disturbance.</p> <p>Flood lighting should be directed away from 30m disturbance zone around setts;</p> <p>Chemicals should be stored as far away from the setts and badger paths as possible;</p> <p>Trenches deeper than 1m must be covered at the end of each working day, or include a means of escape for any animal falling in (badgers would continue to use established paths</p>	Embedded mitigation, no effect on significance of assessed impact	<p>DCO Sch 1, Part 3, 14 DCO Sch 1, Part 3, 19 DCO Sch 1, Part 3, 21 DCO Sch 1, Part 3, 23 DCO Sch 1, Part 3, 29</p> <p>OLEMS Section 4.9 OCoCP Section 3.2</p>

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			across a site even when construction work has started); and Any temporarily exposed open pipe system should be capped in such a way as to prevent badgers gaining access as may happen when contractors are off site.		
	23.6.1.7.1	Impacts to maritime cliffs and slope	Pre-construction surveys would be required to determine any required specific mitigation measures.	Embedded mitigation, no effect on significance of assessed impact	DCO Schedule 1 Part 3, 13 OLEMS Section 4.4
6.25	23.6.1.10.2	Spread of non-native species	The following measures (previously agreed for East Anglia ONE) would also be undertaken: A pre-construction survey would be undertaken between April and September to obtain up-to-date information on the status of non-native invasive species identified within the onshore electrical transmission works that maybe affected including access; this can be combined with other pre-construction ecological surveys; A detailed method statement /	Embedded mitigation, no effect on significance of assessed impact	OLEMS Section 4.8

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			<p>protocol for dealing with invasive species identified within the onshore electrical transmission works would be prepared, focusing on preventing their spread. This would be agreed with the Environment Agency and Natural England and include a plan showing the location of identified invasive plant species. This protocol would be used if further stands were found during construction activities;</p> <p>Defra (2003) and the Food and Environment Research Agency (FERA) have identified a number of best practice measures to minimise the risk of non-native invasive species and these best practice measures would be incorporated into the OLEMS;</p> <p>If alien or invasive species were found on site the ECoW would be informed. The area would be demarcated and appropriate signage installed until the appropriate action can be taken; and</p> <p>A toolbox talk for contractors prior to construction on the known locations of and the identification of non-native</p>		

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			invasive species, including the measures outlined above, would be undertaken. This talk would also include information about other common invasive species.		
6.26	23.6.1.12.2	Impacts to bats	<p>The following standard mitigation is proposed prior to more site-specific information provided by additional bat activity surveys proposed above.</p> <p>Light spill should be reduced by directing the light to where it is needed. The design of the luminaire and use of accessories such as hoods, cowls, louvres can achieve this;</p> <p>The height of any lighting columns generally should be as short as is possible as light at a low level reduces the ecological impact. Where taller columns are required, light should be directed at more acute angles to minimise light spill;</p> <p>As worst case it is assumed that the bats use the woodlands adjacent to the substation(s) location to commute to the SSSI, lighting of these woods would be avoided; and</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 14 (2) (f) OLEMS Section 4.10

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			Periods of 24 hour lighting at the substation(s) would be minimised where possible during construction.		
6.26	23.6.1.13	Impacts to great crested newts	<p>Where great crested newts breeding sites have been identified within 250m of the onshore cable route the following mitigation is proposed;</p> <p>An exclusion programme of newts under licence from Natural England. This would involve the installation of amphibian-proof fencing around the working width (e.g. junction bay compounds and haul roads) in all areas identified as great crested newt breeding ponds during the pre-construction survey and using pit-fall trapping and carpet tiles to catch and remove all great crested newts prior to construction. This would take place during suitable conditions in the newt active season March-October inclusive for a period of time appropriate to the population size.</p> <p>Newts would be transported to suitable habitat at least 50m away from construction works. These receptor sites would be identified</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 29 OLEMS Section 4.11



Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			during the pre-construction walkover survey and clearly marked on maps to enable landowner permission to be gained prior to works commencing. The amphibian fence would remain in place until the works were complete in that area and the ground was remade.		
6.27	23.6.1.14.2	Impacts to otters	Wherever possible, night-time working near watercourses would be avoided or else minimised; Obstructions to otter movement along watercourses would, wherever possible, be temporarily removed, beached or bridged at night (to the extent that otters could use either bank or the bed of the watercourse); and Exit ramps from excavations would be provided at night near watercourses with confirmed presence, so that otters can escape if they fall in.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 29 OLEMS Section 14.12
6.28	23.6.1.15.2	Impacts to water vole	To mitigate the risk of damaging water vole escape holes through the installation of bailey bridges, a pre-construction survey is required prior to the installation of bailey bridges.	Embedded mitigation, no effect on significance of	DCO Sch 1, Part 3, 29 OLEMS Section 14.13

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			Bridges would not be located within 50m of any water vole signs in the watercourses identified. These surveys would be conducted between April to October. The locations identified for bridge placement would be subject to habitat manipulation works prior to construction to ensure water voles do not move into these areas prior to construction.	assessed impact	
		Impacts to water vole	Habitat manipulation works near water vole habitat would include; Strimming back to bare earth would begin as early as possible in the season (as water voles are less likely to stay in areas where predation is likely). Remove vegetation from the affected areas and a suitable buffer zone (up to 5m either side) with a strimmer until only bare earth remains. The strimmed area must extend to at least the top of the bank and, where suitable vegetation exists adjacent to the bank-top this would need to be strimmed as well; and Re-strim again if the vegetation grows longer than 5cm.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 29 OLEMS 4.13

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
6.29	23.6.1.16.2	Impacts to reptiles	<p>A precautionary method of working (PMoW) has been proposed to be adhered to during construction in any area identified as supporting reptiles. This PMoW would include;</p> <p>Specific requirements of the strim lengths and tools to be used during vegetation clearance (to act as a reference document for contractors);</p> <p>Identification guides for common reptile species;</p> <p>Advice for contractors on what to do if a reptile is found on site;</p> <p>Details of a toolbox talk to be given to contractors prior to the commencement of work.</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 29 OLEMS Section 4.15
<b>Onshore Ornithology</b>					
	24.3.4, Table 24.3 24.6.2.1 24.6.2.4 24.6.2.7	All impacts to onshore ornithology	Initial routeing and site selection to avoid key sensitive land uses and habitats. This routeing was undertaken as part of the work for East Anglia ONE.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
7.1	24.3.4, Table 24.3	All impacts to onshore ornithology	Use of cable ducts installed during the construction of East Anglia ONE	Embedded mitigation, no effect on	DCO Sch 1, Part 1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
				significance of assessed impact	
7.2	24.3.4, Table 24.3 24.6.1.5	Disturbance/displacement	Pre-construction surveys in relation to Annex 1 and Schedule 1 birds undertaken by suitably qualified ecologists to ensure mitigation is based upon up-to-date survey data.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 29 OLEMS Section 5.2 (Table 2)
7.3	24.3.4, Table 24.3 24.6.1.5	Disturbance/displacement	Removal of any vegetation prior to construction during the non-breeding season if within footprint and close to any previously recorded Schedule 1 nest sites.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 21 OLEMS Section 5.2 (Table 2)
7.4	24.3.4, Table 24.3 24.6.2.2 24.6.2.3	Permanent habitat loss	Minimisation of the construction footprint, including reduced working width of 5.5m at all hedgerows and watercourse crossings where possible and habitat removal restricted to the minimum working width of 5.5m at watercourse crossings where practicable.	Embedded mitigation, no effect on significance of assessed impact	DCO Part 1, Article 3 (1)
7.5	24.3.4, Table 24.3	Disturbance/displacement	Jointing bays located close to field boundaries but away from sensitive features such as hedgerows (>5m), trees and watercourses (>10m).	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3, 14 DCO Sch 1 Part 3, 21 OLEMS and DCO Sch 1 Part 3, 22 CoCP

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
7.6	24.3.4, Table 24.3	Disturbance/displacement	The OLEMS includes specific measures to be put in place when working in or near designated habitats or locations supporting Schedule 1 breeding birds and non-breeding birds that are interest features of relevant SPAs and/or SSSIs. OLEMS to be developed and agreed in consultation with Natural England and Local Planning Authorities.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 21 OLEMS, Section 5.2 Table 2
7.7	24.3.4, Table 24.3	All impacts to ornithology receptors	Development of an OLEMS that is a subsidiary plan of the CoCP, and contains further detail on the delivery of ecological mitigation, including that relating to Schedule 1 breeding birds and non-breeding interest features of the Deben Estuary SPA. The OLEMS to be developed and agreed in consultation with Natural England and Local Planning Authorities.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 21 OCoCP, Section 2.1 OLEMS Section 5.2
7.8	24.3.4, Table 24.3 24.6.1.4 24.6.1.5	Disturbance and displacement	The use of HDD techniques at the landfall will occur during the construction of East Anglia ONE. The construction of the proposed East Anglia THREE project at the landfall	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, part 1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			would be restricted to cable pulling and construction of transition bays.		
7.9	24.3.4, Table 24.3 24.6.1.4 24.6.1.5	Bird collision/displacement	Careful routeing of the onshore cable route to avoid designated sites. Onshore cable route installed underground, eliminating bird collision risk (constructed as part of East Anglia ONE).	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1
7.10	24.3.4, Table 24.3	Disturbance/displacement	Specific watercourse crossings, including that of Martlesham Creek and The Deben Estuary, undertaken by HDD techniques (constructed as part of East Anglia ONE).	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1 DCO Sch 1, Part 3, 22 OLEMS Section 5.1.3
7.11	24.3.4, Table 24.3 24.6.1.4	Disturbance/displacement	No requirement for 24 hour lighting is anticipated except that associated with trenchless crossings and at the CCS.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 14 DCO Sch 1, Part 3, 23 CoCP, Section 3.7 artificial light emissions plan
7.12	24.3.4, Table 24.3	Disturbance/displacement	Habitat removal would, where practicable, be restricted to the minimum working width of 5.5m at watercourse crossings.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 21 DCO Sch 1, Part 3, 22 CoCP, Section 10.4.2
7.13	24.3.4, Table 24.3	Disturbance/displacement	Pre-construction surveys for Schedule 1 birds to ensure mitigation is based	N/A	DCO Sch 1, Part 3, 29

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			on up-to-date survey data. Areas covered would include substation.		
7.14	24.3.4, Table 24.3 24.6.1.6	Disturbance/displacement of key non-breeding species	<p>During periods of construction works, from the 1<sup>st</sup> November to 28/29<sup>th</sup> February the only activities to be undertaken at the east side of the Deben Estuary (i.e. between Ferry Road and the Deben Estuary) would be:</p> <p>Walk-over site investigation or survey works; or</p> <p>Any inspections required to assess the integrity, safety and security of EATL assets; or</p> <p>Any response required for the purposes of ensuring the health, safety and security of employees, contractors and the general public, unless otherwise agreed with Natural England.</p> <p>Access by vehicle would be from either Access B or Access C (but not from both simultaneously to ensure that any disturbance is localised).</p>	Embedded mitigation, no effect on significance of assessed impact	OLEMS Section 5.2, Table 2
7.15	24.3.4, Table 24.3 24.6.1.1	Temporary habitat loss	An ECoW will undertake compliance monitoring on site during construction.	Embedded mitigation, no	DCO Sch 1, Part 3, 21 DCO, Sch 1, Part 3, 30

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
	24.6.1.2 24.6.1.3		<p>Reinstatement where possible following cable installation to include:</p> <p>Reinstatement of bank profiles;</p> <p>Retain and relay vegetation to ditch sides;</p> <p>Reinstatement and planting at watercourses and dykes, would match existing contours, materials and species composition; and</p> <p>Reinstatement of affected field boundaries and hedges in the same style or with the same species mix of the original and/or to match adjacent boundaries.</p>	effect on significance of assessed impact	CoCP Section 10.4.2 OLEMS, Section 3.1, Table 1
7.16	24.6.1.5	Displacement/disturbance to Marsh Harrier	<p>If baseline and pre-construction data identifies regular marsh harrier nesting within the vicinity of works associated with the proposed East Anglia THREE project (that is, within the Order Limits) then targeted habitat management will be employed. This will involve making all suitable nesting vegetation around jointing bays and new haul roads (subject to that still being within the Order Limits) unsuitable for nesting by strimming the vegetation to ground level outside</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 21 OLEMS, Section 5.2, Table 2



Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			the nesting period (taken to be March to August inclusive). Any regrowth during the following spring and summer, and before construction starts, will be kept to below the height that it will be attractive to nesting birds by regular strimming. If the nesting location and section of cable route is within 200m of a known location for a concentration of feeding brent goose then vegetation clearance will only be undertaken during September to November inclusive (to minimise disturbance to goose when they are more dependent on feeding on agricultural land).		
7.17	24.6.1.5	Displacement/disturbance to Marsh Harrier	During construction, if an active nest is identified, and there is the potential for disturbance, then works in the area would halt temporarily until a mitigation plan is agreed with Natural England. Mitigation would likely constitute an exclusion area for specified activities around a marsh harrier nest of between 100m and 400m radius, with that radius dependent on the stage of nesting	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 21 OLEMS, Section 5.2, Table 2 OLEMS, Section 5.2.1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			activity that the pair has reached (nest building, eggs or chicks), and type of construction activity. Activities that only involve the movement of vehicles past the nest location are able to continue where that is occurring beyond a distance of 100m, whereas activities that involve people outside of vehicles and construction activities such as excavations are able to continue where that is occurring beyond a distance of 400m. Limitations would exist until it can be demonstrated by regular monitoring that breeding is complete.		
7.18	24.6.1.5	Disturbance/displacement for Cetti's Warbler	During construction, fortnightly surveys from the beginning of April to the end of July will establish if breeding is taking place. If an active nest is identified in the vicinity of the works and there is the potential for disturbance, then works in the area would halt temporarily until an exclusion area for specified activities around the nest of 25m radius is enforced.  In the event that a 25m exclusion	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 21 OLEMS, Section 5.2, Table 2 OLEMS, Section 5.2.1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			zone cannot be established due to the location of existing construction activities then consultation will take place with Natural England and additional measures will be explored. In the event that additional measures cannot be developed the final backstop is that specific activities will cease in order that the criminal offence is not committed of disturbing a Schedule 1 breeding species.		
7.19	24.6.2.8	Disturbance/displacement on key breeding species	Lighting systems during operation would aim to reduce light spill onto adjacent habitats through the use of directional lighting and cowls where required.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 14 DCO Sch 1, Part 3, 22 CoCP DCO Sch 1, Part 3, 23 Control of artificial lighting
7.20	24.6.2.2	Habitat loss (permanent): Potential impacts on Key Breeding Bird Species	The applicant has developed a Skylark mitigation agreement with SCC. Land will be set aside for skylark nesting.	The significance of the impact will remain at negligible.	Skylark mitigation agreement between the Applicant and the LPA OLEMS, Table 2
<b>Onshore Archaeology &amp; Cultural Heritage</b>					
8.1	25.3.2	All onshore archaeological and cultural heritage impacts	The onshore cable route has been located to avoid designated heritage assets and known archaeologically	Embedded mitigation, no effect on	DCO Sch 1, Part 1)

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			sensitive areas. By undergrounding the onshore cable route any effects on setting during the long term operational stage of the proposed East Anglia THREE project are effectively negated.	significance of assessed impact	
8.2	25.3.2 25.6.6.3	Impacts on built heritage during operation.	Careful siting of the substation(s) to the north of the existing National Grid Bramford Substation is intended to gain maximum benefit from existing screening. Design of the substation and associated structures would seek to maximise and enhance existing screening and minimize impacts on the Grade II Listed Figeon's Farmhouse. Use of sympathetic design, such as unobtrusive colouring and reduction of glare would diminish visual intrusion of these structures.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1 OLEMS Section 2.2
8.3	25.3.2	All onshore archaeological and cultural heritage impacts	No open trenching or HDD works would be required for East Anglia THREE, as this will be undertaken as part of the East Anglia ONE construction works. Intrusive groundwork within the onshore cable route would be restricted to jointing bays and any works associated with	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			the installation of haul roads, which would largely occur within the previously excavated Development Area of East Anglia ONE.		
8.4	25.3.2	All onshore archaeological and cultural heritage impacts	A Written Scheme of Investigation (WSI) would be undertaken during pre-construction and construction phases. This will allow all heritage assets to be identified prior to construction and outline a programme for preservation by record.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 20
<b>Noise &amp; Vibration</b>					
9.1	26.3.3 26.6.2.3 26.7.1.1	Increased operational noise at residential receptors	EATL will commit to a requirement that noise emissions attributable to the substation shall not result in a noise level which exceeds 5dB above the background noise level (LA90,1hr) during the day and 35dB LAeq 15min during the night at Bullenhall Farm, Hill Farm and Woodlands	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3, 26 OCoCP Section 5
9.2	26.6.3	Increased noise from construction	The OCoCP for the proposed East Anglia THREE project demonstrates the types of measures that will be proposed by EATL during construction.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3, 22 DCO Sch 1 Part 3, 24 OCoCP Section 5

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
9.3	26.6.3 26.6.2.1	Increased noise from construction	<p>Best practice noise mitigation measures, to be implemented and controlled through the Noise and Vibration Management Scheme, will include:</p> <p>Management of construction operating hours;</p> <p>Implementation of traffic management measures such as agreed routes for construction traffic;</p> <p>Use of screens and noise barriers / acoustic screens;</p> <p>Construction site layout to minimise or avoid reversing with use of banksmen where appropriate. Output noise from reversing alarms set at levels for health and safety compliance;</p> <p>Use of modern, fit for purpose, well maintained plant and equipment to minimise noise generation. Plant and vehicles will be fitted with mufflers / silencers maintained in good working order. Use of silenced equipment, as far as possible and low impact type compressors and generators fitted with lined and sealed acoustic covers. Doors and covers housing noise</p>	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3, 24 OCoCP Section 5

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			<p>emitting plant will be kept closed when machines are in use;</p> <p>No music or radios to be played on site;</p> <p>Ensuring engines are switched off when machines are idle; and</p> <p>Regular communication with site neighbours to inform them of the construction schedule, and when noisy activities are likely to occur.</p>		
9.4	26.6.3	Increased noise from construction	Use of pre-construction survey to identify road surface irregularities which require remediation in order to mitigate vibration impacts.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3, 24 OCoCP Section 5
9.5	26.6.3 26.6.1.2	Increased noise from construction	The use of buffer zones applied to CCS such that the boundary of the CCS is not within 100m of the nearest residence	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1 Part 3, 24
<b>Traffic &amp; Transport</b>					
10.1	27.3.3	All traffic impacts	In direct response to the policy and guidance framework and stakeholder engagement (outlined in section 27.2 and 27.4.1) a transport strategy has	Embedded mitigation, no effect on significance of	DCO Sch 1, Part 3, 16 DCO Sch 1, Part 3, 27

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			been developed recognising the need to manage the traffic impact.	assessed impact	
10.2	27.3.3	All traffic impacts	Primary CCSs located close to main A-roads, thereby minimising the impacts upon local communities and utilising the most suitable roads.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 16 DCO Sch 1, Part 3, 27
10.3	27.3.3	All traffic impacts	The use of up to 37 strategic points of access (detailed in Figure 27.3 and annotated access A, B, C, etc.) close to the jointing bays to reduce the amount of temporary haul road required from approximately 35km for East Anglia ONE to 17.8km for the proposed East Anglia THREE project.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 4 DCO Sch 1, Part 3, 16 DCO Sch 1, Part 3, 27
10.4	27.3.3	Local communities	Primary CCSs, Secondary CCSs and the substation locations are located away from sensitive receptors to reduce the traffic impact upon local communities.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 16 DCO Sch 1 Part 3, 24 DCO Sch 1, Part 3, 27
10.5	27.3.3	All traffic impacts	The linear nature of the project would allow for the even distribution of activities and associated daily HGV demand.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 16 DCO Sch 1, Part 3, 27



Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
10.6	27.3.3 27.6.4	Road Safety	A Traffic Management Plan to manage the daily delivery profiles and control movements and routing.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 27
10.7	27.3.3 27.6.4.4 27.7.1.1.2	Pedestrian amenity Driver delay	The Traffic Management Plan would control HGV movements between the Primary CCCs and the appropriate access point.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 27
10.8	27.3.3 27.2.1 27.2.2	Driver delay Road Safety	A Travel Plan to manage the arrival and departure profile of staff and encourage sustainable modes of transport, especially car-sharing.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 27
10.9	27.3.3	Driver delay Road Safety	The implementation of a minimum ratio of 2.5 employees to a vehicle for employees travelling to Primary CCS locations and access AC, AD and AL to reduce light commercial vehicle (LCV) traffic. Figure 27.4 details the highway routes to these access points.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 27
10.10	27.3.3	Driver delay Road Safety	The transfer of employees by minibus from Primary CCSs to access A to AB and AE to AK to minimise traffic	Embedded mitigation, no effect on	DCO Sch 1, Part 3, 27

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			generation on low trafficked local roads. Figures 27.4 and 27.5 detailed the proposed employee routes to site. Figure 27.5 details the highway routes to these access points.	significance of assessed impact	
10.11	27.3.3 27.6.4	Road Safety	The use of a system of Primary CCSs to control delivery times and routes to the most sensitive locations on the highway network.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 27
10.12	27.6.4.5	Road Safety	At accesses AC, AH and AI as well as the junction leading to AD it is therefore proposed that whilst these accesses are operational a temporary 30mph speed limit is provided and warning signs are erected to alert drivers to the potential for slow moving traffic.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 27
<b>Socio-Economics</b>					
N/A	N/A	N/A	N/A	N/A	N/A
<b>Seascape Landscape &amp; Visual Amenity</b>					
12.1	29.4.2	Temporary landscape and visual impacts during construction.	Pulling through of cable through ducts already installed during the East Anglia THREE project.	Embedded mitigation, no effect on significance of	DCO Sch 1, Part 1

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
				assessed impact	
12.2	29.4.2	Operational landscape and visual impacts	Mitigation planting proposed for East Anglia ONE includes substantial woodland planting to screen the East Anglia THREE substation. The planting to be implemented as part of East Anglia ONE is to the south-west, immediate north and east of the East Anglia THREE substation. While existing woodland currently screens those aspects to the west, north-west and north-east, the mitigation planting would largely surround the East Anglia THREE substation location from all visual aspects	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 14 OLEMS 4.1.3 OCoCP Section 4.1.3 Table 1
12.3	29.4.2	Operational landscape and visual impacts	Mitigation planting proposed for East Anglia THREE includes substantial woodland planting to the north of the East Anglia THREE substation. This would add to the screening effect already provided by existing woodland and woodland planting that would be implemented as part of East Anglia ONE	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 2, 14 OLEMS 4.1.3 OCoCP Section 3.4.1 DAS 6.3.5
12.4	29.4.2 Table 29.3	Temporary visual, landscape and seascape	The cable route has been designed to avoid areas vegetated shingle at	Embedded mitigation, no	Sch 1, Part 1 and part 2 OLEMS 4.4.2

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
		impacts at landfall	landfall.	effect on significance of assessed impact	
12.5	29.4.2 Table 29.3	Temporary visual, landscape and seascape impacts at landfall	Temporary works at landfall would be within a single field accessed by existing road. Excavated material from the trenches (earth / sand / shingle) would be stockpiled on the fields or beach for short periods but re-laid to match existing profiles.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 13 OCoCP 7.1 and 10.3 OLEMS 2.1 Table 1
12.6	29.4.2 Table 29.3	Temporary and permeant landscape and visual impacts	Careful location of 2 primary and 5 secondary CCSs and 62 jointing bay locations (or 124 under Two Phased approach) including up to 248 kiosks to avoid mature trees, hedgerows and other sensitive features.	Embedded mitigation, no effect on significance of assessed impact	DCO Article 3 (1) OLEMS 2.1, Table 1
12.7	29.4.2 Table 29.3	Temporary landscape and visual impacts	Replace any land drainage disturbed by the works. Carefully handle topsoil to British Standard BS3882: 2007. Reinstate bank profiles. Retain and re-lay vegetation to sides of ditches.	Embedded mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 18 DCO Sch 1, Part 3, 22 DCO Sch 1, Part 3, 30 OLEMS 2.2, Table 1 OCoCP Section 10.3 OCoCP Section 10.4.2
12.8	29.4.2 Table 29.3	Temporary landscape and	Reinstatement of affected field	Embedded	DCO Sch 1, Part 3, 17

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
		visual impacts	boundaries in the same style or with the same species mix of the original and / or to match adjacent boundaries.  Early installation of protective fencing would be utilised in order to minimise impacts to trees and their roots.	mitigation, no effect on significance of assessed impact	DCO Sch 1, Part 3, 21 OLEMS 2.1, Table 1 OLEMS 4.1.3
12.9	29.4.2 Table 29.3	Permeant landscape and visual impacts.	Careful siting of substation location to the north of the existing Bramford Substation to ensure it is associated with existing large scale infrastructure development.  Siting also ensures that the screening effect of surrounding woodland blocks is best utilised.	Embedded mitigation, no effect on significance of assessed impact	DCO Article 3 (1)
12.10	29.4.2 Table 29.3	Construction landscape and visual impacts during hours of darkness.	Limited 24 hour lighting at substation site during particular construction activities.	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 23 OLEMS 2.1, Table 1 OCoCP 3.7
12.11	29.4.2 Table 29.3	Operational landscape and visual impacts during hours of darkness.	Operational lighting requirements at the substation site may entail: <ul style="list-style-type: none"> <li>Security lighting around perimeter fence of compound, to allow CCTV coverage;</li> <li>Car park lighting – as per</li> </ul>	Embedded mitigation, no effect on significance of assessed impact	DCO, Sch 1, Part 3, 23 OLEMS 2.1, Table 1 OCoCP 3.7

Reference	Cross reference to Environmental Statement	Environmental impact	Mitigation measure commitment	Effect of mitigation	Means of implementation
			<p>standard car park lighting, possibly motion sensitive; and</p> <ul style="list-style-type: none"> <li>• Repair and maintenance – task related flood lighting may be necessary.</li> </ul> <p>No additional lighting is proposed along Bullen Road or along the additional access roads within the Substation Site Boundary.</p>		

**Document 6.7 ends here**

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