

East Anglia ONE North Offshore Windfarm

Appendix 9 **Phase 4 Consultation (Part 1)**

Consultation Report

Applicant: East Anglia ONE North Limited
Document Reference: 5.1.9
SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009 Rev 01
Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV
Date: October 2019
Revision: Version 1

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East Anglia ONE North Offshore Windfarm

Appendix 9.1

Section 42 Consultee List

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.1

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_01 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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Section 42 - Prescribed Bodies - Regulation 11 List and Schedule 1 APFP Regs (those that must be consulted)	
The Health and Safety Executive	
The relevant strategic health authority	NHS England
The relevant clinical commissioning group	Ipswich and East Suffolk
Natural England	Natural England
The Historic Buildings and Monuments Commission for England	Historic England East of England
The Historic Buildings and Monuments Commission for England (OFFSHORE ONLY)	Historic England
Relevant Fire and Rescue Authority -	Suffolk Fire and Rescue
The relevant police and crime commissioner	Suffolk Police Crime Commissioner
Relevant Parish Councils	Friston Parish Council
	Knodishall Parish Council
	Benhall & Sternfield Parish Council
	Aldringham Cum Thorpe Parish Council
	Darsham Parish Council
	Farnham with Stratford St Andrew Parish Council
	Little Glenham Parish Council
	Marlesford Parish Council
	Middleton cum Fordley Parish Council
	Orford and Gedgrave Parish Council
	Snape Parish Council
	Theberton and Eastbridge Parish Council
	Yoxford Parish Council
	Kessingland Parish Council
	Leiston Cum Sizewell Town Council
	Kelsale cum Carlton Parish Council
The Environment Agency	The Environment Agency - East Anglia
AONB Conservation Boards	Suffolk Coast and Heath AONB
The Joint Nature Conservation Committee	
The Maritime and Coastguard Agency	
The Maritime and Coastguard Agency - Regional Office	
Marine Management Organisation	

The Civil Aviation Authority	CAA Windfarms
The Relevant Highways Authority	Suffolk County Council
The relevant strategic highways company	Highways England - East
The relevant internal drainage board	East Suffolk Internal Drainage Board
Pier	Southwold
Trinty House	
Public Health England, an executive agency of the Department of Health	NSIP
The Crown Estate Commissioners	The Crown Estate
The Forestry Commission	Forestry Commission - East and East Midlands
The Secretary of State for Defence	Ministry of Defence
The Office for Nuclear Regulation (the ONR)	
Section 42 - Relevant Statutory Undertakers	
The relevant NHS Trust	East of England Ambulance Service NHS Trust
Railways	Highways England Historical Railways Estate
Dock and Harbour authority	Slaughden Quay
	Southwold and Walberswick
Lighthouse	Trinity House

Civil Aviation Authority	CAA Windfarms
Licence Holder (Chapter 1 Of Part 1 Of Transport Act 2000)	NATS En-Route Safeguarding
Universal Service Provider	Royal Mail Group
Homes and Communities Agency	Homes England
	Regulator of Social Housing
The relevant water and sewage undertaker	Affinity Water
	Affinity Water (East region)
	Anglian Water
	Essex and Suffolk Water
The relevant public gas transporter	Cadent Gas Limited
	Energetics Gas Limited
	Energy Assets Pipelines Limited
	ESP Pipelines Ltd
	ES Pipelines Ltd
	ESP Connections Ltd
	ESP Networks Ltd
	Fulcrum Pipelines Limited
	GTC Pipelines Limited
	Independent Pipelines Limited
	Indigo Pipelines Limited
	Quadrant Pipelines Limited
	National Grid Gas Plc
	Southern Gas Networks Plc and Scotland Gas Networks Plc
	Wales and West Utilities Ltd
The relevant electricity generators with CPO Powers	East Anglia One and Three East Anglia One and Three OFTO
	Greater Gabbard Offshore Winds Limited
	Galloper Wind Farm Limited

The relevant electricity distributor with CPO Powers	Energetics Electricity Limited
	ESP Electricity Limited
	G2 Energy IDNO Limited
	Harlaxton Energy Networks Limited
	Independent Power Networks Limited
	Peel Electricity Networks Limited
	The Electricity Network Company Limited
	UK Power Distribution Limited
	Utility Assets Limited
	Utility Distribution Networks Limited
	UK Power Networks Limited
The relevant electricity transmitter with CPO Powers	National Grid Electricity Transmission Plc
Section 43 - Local Authorities (defined under section 42(1)(b))	
Waveney District Council	
Barbergh District Council	
Suffolk Coastal District Council	
Mid Suffolk District Council	
Ipswich District Council	
The Broads Authority	
Cambridgeshire County Council	
Suffolk County Council	
Norfolk County Council	
Essex County Council	
Great Yarmouth Borough Council	
South Norfolk Council	
Non-prescribed Consultation Bodies	
Royal National Lifeboat Institution	
Non-prescribed stakeholders not in Regulation 11 list	
Suffolk Wildlife Trust	
RSPB	
The Wildlife Trusts	
Whale and Dolphin Conservation	
Rijkswaterstaat	
Suffolk Preservation Society	
EDF Energy	
Innogy Renewables UK Ltd	
Orsted	

Triton Knoll Offshore Wind Farm	
SSE Renewables	
Vattenfall	
Statoil	
Sizewell Residents Association	
Walberswick Parish Council	
Lowestoft Town Council	
Aldeburgh Town Council	
Felixstowe Town Council	
Saxmundham Town Council	
Southwold Town Council	
The Suffolk Coast Destination Management Organisation (DMO)	
Visit East Anglia	
New Anglia Local Enterprise Partnership for Norfolk/Suffolk	
Network Rail Infrastructure Ltd.	
Transboundary Consultees	
Redercentrale	
CRPMEM	
VisNed	
Transboundary Consultees - Belgium	Flemish Government
	Walloon Region
	Brussels International
	Federal Authority
Transboundary Consultees	Denmark
	France

	Germany
	The Netherlands
	Sweden
Hazard Workshop Consultees	
Cruising Association	
Chamber of Shipping	
Cobelfret	
DFDS	
James Fisher	
Hanson Aggregates Marine Ltd.	
Department for Transport	
National Federation of Fishermen's Organisations	
Royal Yachting Association	
VISNED	
Carnival	
Asset Owners (Cable Crossings) (Statutory)	
Interoute Onshore (Now GTT)	
Interoute Offshore	
CenturyLink	
Equitix (Greater Gabbard OFTO)	
Interconnector (Bacton-Zeebrugge)	

Verizon Business (Ulysess 2)
BT
AWG Group Limited
Suffolk County Council
Vodafone
Virgin
Essex and Suffolk Water
UK Power Networks Limited
National Grid Electricity Transmission Plc
Fishing Consultees (statutory)
National Federation of Fishermens Organisations
MMO
Eastern Inshore Fisheries
Aldeburgh fishermen's Association
Anglia Fishermen's Association
Anglia Fishermen's Association
Clacton and Walton Fisherman's Association
East Anglia committee NFFO
Felixstowe Fishermen's Association
Harwich Fisherman's Association
Leigh Association
Leigh-on-Sea & Southend Fishermen's Association
Lowestoft Fishermen's Association
Orford and District Inshore Fishermen's Association
Southwold fishermen's Association
West Mersea Fisherman's Association
Local Fishers
55 Local Fishers.

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East Anglia ONE North Offshore Windfarm

Appendix 9.2

Section 42 Consultation Covering Letter

Consultation Report

Applicant: East Anglia ONE North Limited
Document Reference: 5.1.9.2
SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_02 Rev 01
Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV
Date: October 2019
Revision: Version 1

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Dear Sir/Madam,

**East Anglia ONE North Offshore Windfarm
Statutory Pre-Application Consultation under Section 42 of the Planning Act 2008 (Phase
4 Consultation Round)**

We are writing to consult with you on the proposed application for the East Anglia ONE North Offshore Windfarm.

East Anglia ONE North Limited (which is a wholly owned subsidiary of ScottishPower Renewables (UK) Limited) intends to apply to the Secretary of State for Business, Energy and Industrial Strategy for a Development Consent Order ("DCO") under Section 37 of the Planning Act 2008 for the construction and operation of the East Anglia ONE North Offshore Windfarm. It is expected that the DCO application for the proposed East Anglia ONE North project will be submitted in Q4 2019.

Prior to submitting the DCO application East Anglia ONE North Limited is required by Section 42 of the Planning Act 2008 and the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 to carry out statutory consultation on the proposed application, including the preliminary environmental information and you have been identified as a consultee for the purposes of this consultation.

East Anglia ONE North Limited will consider any relevant responses received when preparing the final DCO application.

Background to the proposed East Anglia ONE North project

The East Anglia ONE North windfarm site is located approximately 36km from Lowestoft and 42km from Southwold and covers an area of approximately 208km². The East Anglia ONE North windfarm site will contain up to 67 wind turbines, offshore platforms and other offshore electrical infrastructure. Offshore electrical infrastructure will export electricity generated by the wind turbines via export cables to landfall located north of Thorpeness in Suffolk.

At landfall, the offshore export cables will be connected to the onshore infrastructure. Onshore cables will be routed underground to an onshore substation which will in turn connect into the main transmission network via new transmission infrastructure to be owned and operated by National Grid. The onshore substation and the National Grid infrastructure will be located at Grove Wood, Friston.

Further information including a Project Description for the proposed East Anglia ONE North project can be found in the enclosed documentation (see below).

ScottishPower Renewables / 320 St Vincent Street, Glasgow, G2 5AD



Take care of the environment.
Printed in black and white and only if necessary.

28th January 2019

Documents enclosed with this Letter

We enclose with this letter for your consultation:

1. A USB containing a copy of the Preliminary Environmental Information Report, Non-Technical Summary and draft Report to Inform the Appropriate Assessment.
2. A hard copy of the notice published under Section 48 of the Planning Act 2008.
3. A hard copy of the Non-Technical Summary.

These documents can also be viewed on the project website at www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx.

Responding to this consultation

Any consultation responses should be made in writing to:

ScottishPower Renewables East Anglia ONE North
RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

Or via email: eastangliaonenorth@scottishpower.com

The consultation will end at midnight on **26th March 2019**.

Please ensure that all comments are submitted to East Anglia ONE North Limited before the consultation end date.

Consultation responses may be made publicly available however SPR will not share individuals' data (although SPR may indicate the general area of an individual's location for context).

The proposed East Anglia TWO project

The proposed East Anglia TWO project is being developed in parallel with the proposed East Anglia ONE North project. Separate DCO applications will be submitted for the projects and pre-application consultation is also being carried out separately.

You will receive separate correspondence consulting you on the East Anglia TWO project. When responding to the consultations please make clear if your response is made in respect of the proposed East Anglia ONE North project, the proposed East Anglia TWO project, or both projects.

We look forward to hearing from you.

Yours faithfully

East Anglia ONE North Limited
Ian Mackay, East Anglia ONE North Project Manager

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5th April 2019

Planning Authority
South Norfolk Council
Planning Dept
Cygnet Court, Long Stratton
Norwich, NR15 2XE

Dear Sir/Madam

**East Anglia ONE North Offshore Windfarm
Statutory Pre-Application Consultation under Section 42 of the Planning Act 2008 (Phase
4 Consultation Round)**

We are writing to consult with you on the proposed application for the East Anglia ONE North Offshore Windfarm.

East Anglia ONE North Limited (which is a wholly owned subsidiary of ScottishPower Renewables (UK) Limited) intends to apply to the Secretary of State for Business, Energy and Industrial Strategy for a Development Consent Order ("DCO") under Section 37 of the Planning Act 2008 for the construction and operation of the East Anglia TWO Offshore Windfarm. It is expected that the DCO application for the proposed East Anglia TWO project will be submitted in Q4 2019.

Prior to submitting the DCO application East Anglia ONE North Limited is required by Section 42 of the Planning Act 2008 and the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 to carry out statutory consultation on the proposed application, including the preliminary environmental information and you have been identified as a consultee for the purposes of this consultation.

You may be aware that Suffolk Coastal and Waveney District Councils merged on 1st April 2019. The proposed East Anglia ONE North project is located within a larger new local authority area, meaning that South Norfolk Council are now a category ("A") local authority for this project identified under Section 43 of the Planning Act 2008, and therefore you have now been identified as a consultee for the purposes of this consultation.

The initial formal consultation period closed on the 26th March 2019, however, we now invite you to provide a consultation response if you wish to participate.

East Anglia ONE North Limited will consider any relevant responses received when preparing the final DCO application.

Background to the proposed East Anglia ONE North project

The East Anglia ONE North windfarm site is located approximately 36km from Lowestoft and 42km from Southwold and covers an area of approximately 208km². The East Anglia ONE North windfarm site will contain up to 67 wind turbines, offshore platforms and other offshore electrical infrastructure. Offshore electrical infrastructure will export electricity generated by the wind turbines via export cables to landfall located north of Thorpeness in Suffolk.

At landfall, the offshore export cables will be connected to the onshore infrastructure. Onshore cables will be routed underground to an onshore substation which will in turn connect into the

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main transmission network via new transmission infrastructure to be owned and operated by National Grid. The onshore substation and the National Grid infrastructure will be located at Grove Wood, Friston.

Further information including a Project Description for the proposed East Anglia ONE North project can be found in the enclosed documentation (see below).

Documents enclosed with this Letter

We enclose with this letter for your consultation:

1. A USB containing a copy of the Preliminary Environmental Information Report, Non-Technical Summary and draft Report to Inform the Appropriate Assessment.
2. A hard copy of the notice published under Section 48 of the Planning Act 2008.
3. A hard copy of the Non-Technical Summary.

These documents can also be viewed on the project website at https://www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx

Responding to this consultation

Any consultation responses should be made in writing to:

ScottishPower Renewables East Anglia ONE North
RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

Or via email: eastangliaonenorth@scottishpower.com

If you wish to provide a response, please do so by **21st May 2019**.

Please ensure that all comments are submitted to East Anglia ONE North Limited before the consultation end date.

Consultation responses may be made publicly available however SPR will not share individuals' data (although SPR may indicate the general area of an individual's location for context).

The proposed East Anglia TWO project

The proposed East Anglia ONE North project is being developed in parallel with the proposed East Anglia TWO project. Separate DCO applications will be submitted for the projects and pre-application consultation is also being carried out separately.

You will receive separate correspondence consulting you on the East Anglia TWO project. When responding to the consultations please make clear if your response is made in respect of the proposed East Anglia ONE North project, the proposed East Anglia TWO project, or both projects.

We look forward to hearing from you.

Yours faithfully

East Anglia ONE North Limited
Ian MacKay, East Anglia ONE North Project Manager

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East Anglia ONE North Offshore Windfarm

Appendix 9.3

Section 46 Letter to the Secretary of State

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.3

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_03 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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25th January 2019

Ms Sully
Planning Inspectorate
Temple Quay House
2 The Square
Avon
Bristol
BS1 6PN

Dear Ms Sully

East Anglia ONE North Offshore Windfarm
Notice to the Secretary of State pursuant to Section 46 of the Planning Act 2008

We are writing to notify you that East Anglia ONE North Limited (which is a wholly owned subsidiary of ScottishPower Renewables (UK) Limited) intends to apply to the Secretary of State for Business, Energy and Industrial Strategy under Section 37 of the Planning Act 2008 for a Development Consent Order ("DCO") for the construction and operation of the East Anglia ONE North Offshore Windfarm. It is expected that the DCO application for the proposed East Anglia ONE North project will be submitted in Q4 2019. This notice is provided in accordance with Section 46 of the Planning Act 2008.

Background to the proposed East Anglia ONE North project

The East Anglia ONE North windfarm site is located approximately 36km from Lowestoft and 42km from Southwold and covers an area of approximately 208km². The East Anglia ONE North windfarm site will contain up to 67 wind turbines, offshore platforms and other offshore electrical infrastructure. Offshore electrical infrastructure will export electricity generated by the wind turbines via export cables to landfall located north of Thorpeness in Suffolk.

At landfall, the offshore export cables will be connected to the onshore infrastructure. Onshore cables will be routed underground to an onshore substation which will in turn connect into the main transmission network via new transmission infrastructure to be owned and operated by National Grid. The onshore substation and the National Grid infrastructure will be located at Grove Wood, Friston.

Further information including a Project Description for the proposed East Anglia ONE North project can be found in the enclosed documentation (see below).

Documents enclosed with this Letter

East Anglia ONE North Limited is about to commence consultation on the proposed East Anglia ONE North project DCO application under Section 42 of the Planning Act 2008. Therefore, in accordance with Section 46 of the Planning Act 2008 please find enclosed:

ScottishPower Renewables / 320 St Vincent Street, Glasgow, G2 5AD



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25th January 2019

1. A hard copy of the template Section 42 Cover Letters to be issued to consultees. Please note that there are two forms of letter: (i) letter to be sent to persons identified for the purposes of Section 44 of the Planning Act 2008; and (ii) letter to be sent to all other statutory consultees.
2. A USB containing a copy of the Preliminary Environmental Information Report, the Non-Technical Summary and draft Report to Inform the Appropriate Assessment.
3. A hard copy of the notice published under Section 48 of the Planning Act 2008.
4. A hard copy of the Non-Technical Summary.

The Preliminary Environmental Information Report, the draft Report to Inform the Appropriate Assessment, the Non-Technical Summary and the Section 48 notice can also be viewed on the project website at www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx.

Consultation Period

As described in the enclosed documents, the consultation period will end at midnight on 26th March 2019.

The proposed East Anglia TWO project

The proposed East Anglia TWO project is being developed in parallel with the proposed East Anglia ONE North project. Separate DCO applications will be submitted for the projects and pre-application consultation is also being carried out separately.

You will receive separate correspondence regarding the East Anglia TWO project.

If you have any queries regarding the content of this letter or the proposed East Anglia ONE North project generally, please do not hesitate to contact Ian Mackay, East Anglia ONE North Project Manager at [REDACTED]

Yours faithfully

[REDACTED]

East Anglia ONE North Limited
Ian Mackay, East Anglia ONE North Project Manager

[REDACTED]

ScottishPower Renewables / 320 St Vincent Street, Glasgow, G2 5AD



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East Anglia ONE North Offshore Windfarm

Appendix 9.4

Section 48 Newspaper Notice and Evidence

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.4

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_04 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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REGULATION 4, THE INFRASTRUCTURE PLANNING (APPLICATIONS: PRESCRIBED FORMS AND PROCEDURE) REGULATIONS 2009**NOTICE PUBLICISING A PROPOSED APPLICATION FOR A DEVELOPMENT CONSENT ORDER TO CONSTRUCT AND OPERATE
EAST ANGLIA ONE NORTH OFFSHORE WINDFARM**

Notice is hereby given that East Anglia ONE North Limited of 3rd Floor 1 Tudor Street, London, EC4Y 0AH ("the Applicant") intends to apply to the Secretary of State for a Development Consent Order ("DCO") under section 37 of the Planning Act 2008 for the construction and operation of the East Anglia ONE North Offshore Windfarm, an offshore wind generating station, located approximately 36km from Lowestoft and 42km from Southwold and covering an area of approximately 208km², together with associated development to connect the generating station to the national grid.

The proposed DCO would, amongst other things, authorise:

- Up to 67 offshore wind turbines and their foundations with a maximum hub height of 175m above lowest astronomical tide (LAT), maximum rotor diameter of 250m and maximum tip height of up to 300m above LAT;
- Up to four High Voltage Alternating Current (HVAC) offshore electrical platforms and their foundations to aggregate the power from the wind turbines and convert it into a suitable form for export to shore;
- Up to one offshore construction, operation and maintenance platform and its foundations;
- Up to one offshore meteorological mast and its foundations;
- Subsea cables connecting the wind turbines, the meteorological mast and offshore platforms;
- Up to two offshore subsea export cables to bring electricity from the offshore electrical platforms to landfall located north of Thorpeness in Suffolk;
- Works at landfall to connect the offshore export cables to the onshore cables including transition bays;
- Up to six underground cables and up to two fibre optic cables, of approximately 9km in length, with jointing pits, commencing at the landfall and running in a northern direction towards Sizewell Gap, turning to a south westerly direction towards the B1122 (south of Aldringham), turning to a westerly direction towards Grove Road, and turning north to the onshore substation;
- A new onshore substation in the vicinity of Grove Wood, Friston and a connection into the National Grid infrastructure;
- National Grid infrastructure in the vicinity of Grove Wood, Friston to facilitate a connection into the main transmission network including a new National Grid substation and National Grid overhead line realignment works;
- Associated or ancillary works including improvements to highways, verges and private access roads, construction compounds, construction of a temporary haul road, landscaping and drainage works;
- If required, the permanent and/or temporary compulsory acquisition of land and/or rights and overriding of easements and other rights over or affecting land;
- If required, the temporary stopping up, alternation or diversion of streets;
- The application and/or disapplication of legislation including inter alia legislation relating to compulsory purchase; and
- Such ancillary, incidental and consequential provisions, permits or consents as are necessary and/or convenient.

The proposed works are an environmental impact assessment ("EIA") development for the purposes of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This means that the proposed works constitute development for which an Environmental Impact Assessment is required and the proposed application for a DCO will be accompanied by an Environmental Statement. The Applicant has prepared Preliminary Environmental Information which contains documents, plans and maps showing the nature and location of the East Anglia ONE North Offshore Windfarm and which can be inspected free of charge from 11th February 2019 until 26th March 2019 at the locations and times set out below

Venue	Opening Hours	
Leiston Town Council Council Offices Main Street Leiston Suffolk IP16 4ER	Monday	0900 – 1230, 1400 – 1645
	Tuesday	0900 – 1230, 1400 – 1645
	Wednesday	Closed
	Thursday	0900 – 1230
	Friday	0900 – 1230
	Saturday	Closed
	Sunday	Closed
Aldeburgh Library 32 Victoria Road Aldeburgh Suffolk IP15 5EG	Monday	0900 – 1300
	Tuesday	0900 – 1300
	Wednesday	0900 – 1300, 1500 – 1800
	Thursday	0900 – 1300
	Friday	0900 – 1300
	Saturday	1000 – 1230, 1300 – 1530
	Sunday	1000 – 1230, 1300 – 1530
Woodbridge Library New Street Woodbridge Suffolk IP12 1DT	Monday	1000 – 1600
	Tuesday	0930 – 1930
	Wednesday	0900 – 1730
	Thursday	0900 – 1730
	Friday	0900 – 1930
	Saturday	0900 – 1700
	Sunday	1000 – 1600
Suffolk County Council Endeavour House 8 Russell Road Ipswich Suffolk IP1 2BX	Monday	0900 – 1700
	Tuesday	0900 – 1700
	Wednesday	0900 – 1700
	Thursday	0900 – 1700
	Friday	0900 – 1700
	Saturday	Closed
	Sunday	Closed
Orbis Energy Centre Orbis Energy Centre Wilde St Lowestoft NR32 1XH	Monday	0830 – 1700
	Tuesday	0830 – 1700
	Wednesday	0830 – 1700
	Thursday	0830 – 1700
	Friday	0830 – 1700
	Saturday	Closed
	Sunday	Closed

A reasonable copying charge may be made for the reproduction of information. Further details in relation to the Project and a copy of the Preliminary Environmental Information and other documents referred to above can also be found on the Applicant's website

www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx.

Public Information Days will also be held by the Applicant on the following dates and locations:

Date	Town/Village	Address	Time
16/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	1000 – 1600
18/02/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	1400 – 1900
20/02/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	1400 – 1900
21/02/2019	Orford	Town Hall, Market Hill, Orford, Woodbridge, IP12 2NZ	1400 – 1900
22/02/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	1400 – 1900
23/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	1000 – 1600
25/02/2019	Southwold	Stella Peskett Hall, Might's Road, Southwold, IP18 6BE	1400 – 1900
27/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	1400 – 1900
28/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	1400 – 1900
01/03/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	1400 – 1900
02/03/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	1000 – 1600
04/03/2019	Southwold	Stella Peskett Hall, Might's Road, Southwold, IP18 6BE	1400 – 1900
09/03/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	1000 – 1600

Any response or representation to the publication of this notice must be made in writing to:

ScottishPower Renewables East Anglia ONE North, RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

or via email at: eastangliaonenorth@scottishpower.com

Responses must (i) be received by the Applicant on or before **26th March 2019** (ii) be made in writing, (iii) state the grounds of the response or representation and (iv) indicate who is making the response or representation, and (v) give an address to which correspondence relating to the response or representations may be sent.

Consultation responses may be made publicly available; however, the Applicant will not share individuals' data (although the Applicant may indicate the general area of an individual's location for context).

SECTION 48, PLANNING ACT 2008

REGULATION 4, THE INFRASTRUCTURE PLANNING (APPLICATIONS: PRESCRIBED FORMS AND PROCEDURE) REGULATIONS 2009

NOTICE PUBLICISING A PROPOSED APPLICATION FOR A DEVELOPMENT CONSENT ORDER TO CONSTRUCT AND OPERATE EAST ANGLIA ONE NORTH OFFSHORE WINDFARM

Notice is hereby given that East Anglia ONE North Limited of 3rd Floor 1 Tudor Street, London, EC4Y 0AH (“the Applicant”) intends to apply to the Secretary of State for a Development Consent Order (“DCO”) under section 37 of the Planning Act 2008 for the construction and operation of the East Anglia ONE North Offshore Windfarm, an offshore wind generating station, located approximately 36km from Lowestoft and 42km from Southwold and covering an area of approximately 208km², together with associated development to connect the generating station to the national grid.

The proposed DCO would, amongst other things, authorise:

- Up to 67 offshore wind turbines and their foundations with a maximum hub height of 175m above lowest astronomical tide (LAT), maximum rotor diameter of 250m and maximum tip height of up to 300m above LAT;
- Up to four High Voltage Alternating Current (HVAC) offshore electrical platforms and their foundations to aggregate the power from the wind turbines and convert it into a suitable form for export to shore;
- Up to one offshore construction, operation and maintenance platform and its foundations;
- Up to one offshore meteorological mast and its foundations;
- Subsea cables connecting the wind turbines, the meteorological mast and offshore platforms;
- Up to two offshore subsea export cables to bring electricity from the offshore electrical platforms to landfall located north of Thorpeness in Suffolk;
- Works at landfall to connect the offshore export cables to the onshore cables including transition bays;
- Up to six underground cables and up to two fibre optic cables, of approximately 9km in length, with jointing pits, commencing at the landfall and running in a northern direction towards Sizewell Gap, turning to a south westerly direction towards the B1122 (south of Aldringham), turning to a westerly direction towards Grove Road, and turning north to the onshore substation;

- A new onshore substation in the vicinity of Grove Wood, Friston and a connection into the National Grid infrastructure;
- National Grid infrastructure in the vicinity of Grove Wood, Friston to facilitate a connection into the main transmission network including a new National Grid substation and National Grid overhead line realignment works;
- Associated or ancillary works including improvements to highways, verges and private access roads, construction compounds, construction of a temporary haul road, landscaping and drainage works;
- If required, the permanent and/or temporary compulsory acquisition of land and/or rights and overriding of easements and other rights over or affecting land;
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- Such ancillary, incidental and consequential provisions, permits or consents as are necessary and/or convenient.

The proposed works are an environmental impact assessment (“EIA”) development for the purposes of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This means that the proposed works constitute development for which an Environmental Impact Assessment is required and the proposed application for a DCO will be accompanied by an Environmental Statement. The Applicant has prepared Preliminary Environmental Information which contains documents, plans and maps showing the nature and location of the East Anglia ONE North Offshore Windfarm and which can be inspected free of charge from 11th February 2019 until 26th March 2019 at the locations and times set out below

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	Wednesday	Closed
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	Saturday	Closed
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Aldeburgh Library 32 Victoria Road Aldeburgh Suffolk IP15 5EG	Monday	0900 – 1300
	Tuesday	0900 – 1300
	Wednesday	0900 – 1300, 1500 – 1800
	Thursday	0900 – 1300
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Woodbridge Library New Street Woodbridge Suffolk IP12 1DT	Monday	1000 – 1600
	Tuesday	0930 – 1930
	Wednesday	0900 – 1730
	Thursday	0900 – 1730
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	Saturday	0900 – 1700
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Suffolk County Council Endeavour House 8 Russell Road Ipswich Suffolk IP1 2BX	Monday	0900 – 1700
	Tuesday	0900 – 1700
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The proposed DCO would, amongst other things, authorise:

- Up to 67 offshore wind turbines and their foundations with a maximum hub height of 175m above lowest astronomical tide (LAT), maximum rotor diameter of 250m and maximum tip height of up to 300m above LAT;
- Up to four High Voltage Alternating Current (HVAC) offshore electrical platforms and their foundations to aggregate the power from the wind turbines and convert it into a suitable form for export to shore;
- Up to one offshore construction, operation and maintenance platform and its foundations;
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The proposed DCO would, amongst other things, authorise:

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Legal Notices

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**SCOTTISHPOWER
RENEWABLES**

**EAST ANGLIA ONE NORTH LIMITED
SECTION 48, PLANNING ACT 2008
REGULATION 4, THE INFRASTRUCTURE PLANNING
(APPLICATIONS: PRESCRIBED FORMS AND PROCEDURE)
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- Works at landfall to connect the offshore export cables to the onshore cables including transition bays;
- Up to six underground cables and up to two fibre optic cables, of approximately 9km in length, with jointing pits, commencing at the landfall and running in a northern direction towards Sizewell Gap, turning to a south westerly direction towards the B1122 (south of Aldringham), turning to a westerly direction towards Grove Road, and turning north to the onshore substation;
- A new onshore substation in the vicinity of Grove Wood, Friston and a connection into the National Grid infrastructure;
- National Grid infrastructure in the vicinity of Grove Wood, Friston to facilitate a connection into the main transmission network including a new National Grid substation and National Grid overhead line realignment works;
- Associated or ancillary works including improvements to highways, verges and private access roads, construction compounds, construction of a temporary haul road, landscaping and drainage works;
- If required, the permanent and/or temporary compulsory acquisition of land and/or rights and overriding of easements and other rights over or affecting land;
- If required, the temporary stopping up, alternation or diversion of streets;
- The application and/or disapplication of legislation including inter alia legislation relating to compulsory purchase; and
- Such ancillary, incidental and consequential provisions, permits or consents as are necessary and/or convenient.

The proposed works are an environmental impact assessment ("EIA") development for the purposes of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This means that the proposed works constitute development for which an Environmental Impact Assessment is required and the proposed application for a DCO will be accompanied by an Environmental Statement. The Applicant has prepared Preliminary Environmental Information which contains documents, plans and maps showing the nature and location of the East Anglia ONE North Offshore Windfarm and which can be inspected free of charge from 11th February 2019 until 26th March 2019 at the locations and times set out below:

Venue	Opening hours
Leiston Town Council	Monday 0900 – 1230, 1400 – 1645

Council Offices	Tuesday 0900 – 1230, 1400 – 1645
Main Street	Wednesday Closed
Leiston	Thursday 0900 – 1230
Suffolk	Friday 0900 – 1230
IP16 4ER	Saturday Closed
	Sunday Closed
Aldeburgh Library	Monday 0900 – 1300
32 Victoria Road	Tuesday 0900 – 1300
Aldeburgh	Wednesday 0900 – 1300, 1500 – 1800
	Thursday 0900 – 1300
Suffolk	Friday 0900 – 1300
IP15 5EG	Saturday 1000 – 1230, 1300 – 1530
	Sunday 1000 – 1230, 1300 – 1530
Woodbridge Library	Monday 1000 – 1600
New Street	Tuesday 0930 – 1930
Woodbridge	Wednesday 0900 – 1730
Suffolk	Thursday 0900 – 1730
IP12 1DT	Friday 0900 – 1930
	Saturday 0900 – 1700
	Sunday 1000 – 1600
Suffolk County Council	Monday 0900 – 1700
Endeavour House	Tuesday 0900 – 1700
8 Russell Road	Wednesday 0900 – 1700
Ipswich	Thursday 0900 – 1700
Suffolk	Friday 0900 – 1700
IP1 2BX	Saturday Closed
	Sunday Closed
Orbis Energy Centre	Monday 0830 – 1700
Wilde Street	Tuesday 0830 – 1700
Lowestoft	Wednesday 0830 – 1700
NR32 1XH	Thursday 0830 – 1700
	Friday 0830 – 1700
	Saturday Closed
	Sunday Closed

A reasonable copying charge may be made for the reproduction of information. Further details in relation to the Project and a copy of the Preliminary Environmental Information and other documents referred to above can also be found on the Applicant's website www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx.

Public Information Days will also be held by the Applicant on the following dates and locations:

Date	Town/Village	Address	Time
16/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	1000 – 1600
18/02/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	1400 – 1900
20/02/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	1400 – 1900
21/02/2019	Orford	Town Hall, Market Hill, Orford, Woodbridge, IP12 2NZ	1400 – 1900

22/02/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	1400 – 1900
23/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	1000 – 1600
25/02/2019	Southwold	Stella Peskett Hall, Rights Road, Southwold, IP18 6BE	1400 – 1900
27/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	1400 – 1900
28/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	1400 – 1900
01/03/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	1400 – 1900
02/03/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	1000 – 1600
04/03/2019	Southwold	Stella Peskett Hall, Rights Road, Southwold, IP18 6BE	1400 – 1900
09/03/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	1000 – 1600

Any response or representation to the publication of this notice must be made in writing to:

ScottishPower Renewables East Anglia ONE North, RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

or via email at: eastangliaonenorth@scottishpower.com

Responses must (i) be received by the Applicant on or before **26th March 2019** (ii) be made in writing, (iii) state the grounds of the response or representation and (iv) indicate who is making the response or representation, and (v) give an address to which correspondence relating to the response or representations may be sent.

Consultation responses may be made publicly available; however, the Applicant will not share individuals' data (although the Applicant may indicate the general area of an individual's location for context).

ScottishPower Renewables / 320 St Vincent Street, Glasgow, G2 5AD (3196658)

Interest: Freehold

Conveyance: Freehold conveyance of sale which conveyed unregistered freehold land to the above mentioned Company.

Property: Land and dwelling house (including number 48 The Esplanade, Fleetwood) situated at The Esplanade, Fleetwood, Wyre, Lancashire.

Treasury Solicitor: The Solicitor for the Affairs of Her Majesty's Treasury of PO Box 2119, Croydon (DX 325801 Croydon 51)

2. In pursuance of the powers granted by s.1013 of the Companies Act 2006 the Treasury Solicitor as nominee for the Crown (in whom the property and rights of the company vested when the Company was dissolved) hereby disclaims the Crown's title (if any) in the Property the vesting of the Property having come to his notice on 26 September 2017.

Assistant Treasury Solicitor (Section 3 Treasury Solicitor Act 1876)

8 JANUARY 2019 (3197612)

NOTICE OF DISCLAIMER UNDER SECTION 1013 OF THE COMPANIES ACT 2006

DISCLAIMER OF WHOLE OF THE PROPERTY

T S ref: BV21819164/1/CE

1 In this notice the following shall apply:

Company Name: **WHARFLAND LIMITED**

Company Number: 01400780

Interest: freehold

Title number: SY58058

Property: The Property situated at 18 Park Road, London SE25 6QZ being the land comprised in the above mentioned title

Treasury Solicitor: The Solicitor for the Affairs of Her Majesty's Treasury of PO Box 70165, London WC1A 9HG (DX 123240 Kingsway).

2 In pursuance of the powers granted by Section 1013 of the Companies Act 2006, the Treasury Solicitor as nominee for the Crown (in whom the property and rights of the Company vested when the Company was dissolved) hereby disclaims the Crown's title (if any) in the property, the vesting of the property having come to his notice on 29 October 2018.

Assistant Treasury Solicitor

23 January 2019 (3194093)

NOTICE OF DISCLAIMER UNDER COMMON LAW

DISCLAIMER OF WHOLE OF THE PROPERTY

T S ref: BV21809547/3/CE

1 In this notice the following shall apply:

Company Name: **BODEGON 51 LIMITED**

Company Number: 07685362

Interest:

Property: The Property situated at Lease dated 26th April 2013 and made between Englefield Estate Trust Corporation Limited(1) and Bodegon 51 Limited(2) relating to land immediately abutting the front of 105 and 107 Southgate Road, London N1 3JS being the land comprised in

Treasury Solicitor: The Solicitor for the Affairs of Her Majesty's Treasury of PO Box 70165, London WC1A 9HG (DX 123240 Kingsway).

2 The Treasury Solicitor as nominee for the Crown (in whom the property and rights of the Company vested when the Company was dissolved) hereby disclaims the Crown's title (if any) in the property, the vesting of the property having come to his notice on 7 June 2018.

Assistant Treasury Solicitor

23 January 2019 (3194094)

Property & land

PROPERTY DISCLAIMERS

T S Ref: BV21717581/1 /DO

NOTICE OF DISCLAIMER UNDER SECTION 1013 OF THE COMPANIES ACT 2006

DISCLAIMER OF WHOLE OF THE PROPERTY

1. In this Notice the following shall apply:

Company Name: **BOSTON FISHING HOLDINGS LIMITED**

(Dissolved)

Company Number: 21516

NOTICE OF DISCLAIMER UNDER COMMON LAW

DISCLAIMER OF WHOLE OF THE PROPERTY

T S ref: BV21809547/2/CE

1 In this notice the following shall apply:

Company Name: **BODEGON 51 LIMITED**

Company Number: 07685362

Interest: leasehold

Title number: ADL238227

FISHING NEWS

THE VOICE OF THE INDUSTRY SINCE 1913



£3.25

31 January 2019
Issue: 5448



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LIFEJACKETS LAW SHOCK

TURN TO PAGE 2 FOR THE FULL REPORT

Westro leaves Macduff in double-quick time

Westro leaves Macduff for Peterhead, 72 hours after running successful fishing trials.



✦ Skipper James West and Westro's crew fished their maiden trip on the North Sea prawn grounds this week.

Skipper James West and the crew of the new twin-rig trawler Westro PD 20 left Peterhead last Thursday night to fish the vessel's first trip on the North Sea prawn grounds, reports **David Linkie**.

Built by Macduff Shipyards Ltd for skipper James West in partnership with P&J Johnstone Ltd, the 21.5m LOA Westro has been delivered two

months ahead of schedule by the boatbuilders.

Westro incorporates a number of innovative ideas, including a new fishroom refrigeration system installed by Airo-Tech Solutions Ltd, Fraserburgh.

Further details of Westro will be included in *Fishing News* next week.

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☀ Visit us at Skipper Expo Galway 8th – 9th March Stand No. 40 ☀

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SECTION 48, PLANNING ACT 2008

REGULATION 4, THE INFRASTRUCTURE PLANNING (APPLICATIONS: PRESCRIBED FORMS AND PROCEDURE) REGULATIONS 2009

NOTICE PUBLICISING A PROPOSED APPLICATION FOR A DEVELOPMENT CONSENT ORDER TO CONSTRUCT AND OPERATE
EAST ANGLIA ONE NORTH OFFSHORE WINDFARM

Notice is hereby given that East Anglia ONE North Limited of 3rd Floor 1 Tudor Street, London, EC4Y 0AH ("the Applicant") intends to apply to the Secretary of State for a Development Consent Order ("DCO") under section 37 of the Planning Act 2008 for the construction and operation of the East Anglia ONE North Offshore Windfarm, an offshore wind generating station, located approximately 36km from Lowestoft and 42km from Southwold and covering an area of approximately 208km², together with associated development to connect the generating station to the national grid.

The proposed DCO would, amongst other things, authorise:

- Up to 67 offshore wind turbines and their foundations with a maximum hub height of 175m above lowest astronomical tide (LAT), maximum rotor diameter of 250m and maximum tip height of up to 300m above LAT;
- Up to four High Voltage Alternating Current (HVAC) offshore electrical platforms and their foundations to aggregate the power from the wind turbines and convert it into a suitable form for export to shore;
- Up to one offshore construction, operation and maintenance platform and its foundations;
- Up to one offshore meteorological mast and its foundations;
- Subsea cables connecting the wind turbines, the meteorological mast and offshore platforms;
- Up to two offshore subsea export cables to bring electricity from the offshore electrical platforms to landfall located north of Thorpeness in Suffolk;
- Works at landfall to connect the offshore export cables to the onshore cables including transition bays;
- Up to six underground cables and up to two fibre optic cables, of approximately 9km in length, with jointing pits, commencing at the landfall and running in a northern direction towards Sizewell Gap, turning to a south westerly direction towards the B1122 (south of Aldringham), turning to a westerly direction towards Grove Road, and turning north to the onshore substation;
- A new onshore substation in the vicinity of Grove Wood, Friston and a connection into the National Grid infrastructure;
- National Grid infrastructure in the vicinity of Grove Wood, Friston to facilitate a connection into the main transmission network including a new National Grid substation and National Grid overhead line realignment works;
- Associated or ancillary works including improvements to highways, verges and private access roads, construction compounds, construction of a temporary haul road, landscaping and drainage works;
- If required, the permanent and/or temporary compulsory acquisition of land and/or rights and overriding of easements and other rights over or affecting land;
- If required, the temporary stopping up, alternation or diversion of streets;
- The application and/or disapplication of legislation including inter alia legislation relating to compulsory purchase; and
- Such ancillary, incidental and consequential provisions, permits or consents as are necessary and/or convenient.

The proposed works are an environmental impact assessment ("EIA") development for the purposes of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. This means that the proposed works constitute development for which an Environmental Impact Assessment is required and the proposed application for a DCO will be accompanied by an Environmental Statement. The Applicant has prepared Preliminary Environmental Information which contains documents, plans and maps showing the nature and location of the East Anglia ONE North Offshore Windfarm and which can be inspected free of charge from 11th February 2019 until 26th March 2019 at the locations and times set out below

Venue	Opening Hours	
Leiston Town Council Council Offices Main Street Leiston Suffolk IP16 4ER	Monday	0900 – 1230, 1400 – 1645
	Tuesday	0900 – 1230, 1400 – 1645
	Wednesday	Closed
	Thursday	0900 – 1230
	Friday	0900 – 1230
	Saturday	Closed
	Sunday	Closed
Aldeburgh Library 32 Victoria Road Aldeburgh Suffolk IP15 5EG	Monday	0900 – 1300
	Tuesday	0900 – 1300
	Wednesday	0900 – 1300, 1500 – 1800
	Thursday	0900 – 1300
	Friday	0900 – 1300
	Saturday	1000 – 1230, 1300 – 1530
	Sunday	1000 – 1230, 1300 – 1530
Woodbridge Library New Street Woodbridge Suffolk IP12 1DT	Monday	1000 – 1600
	Tuesday	0930 – 1930
	Wednesday	0900 – 1730
	Thursday	0900 – 1730
	Friday	0900 – 1930
	Saturday	0900 – 1700
	Sunday	1000 – 1600
Suffolk County Council Endeavour House 8 Russell Road Ipswich Suffolk IP1 2BX	Monday	0900 – 1700
	Tuesday	0900 – 1700
	Wednesday	0900 – 1700
	Thursday	0900 – 1700
	Friday	0900 – 1700
	Saturday	Closed
	Sunday	Closed
Orbis Energy Centre Orbis Energy Centre Wilde St Lowestoft NR32 1XH	Monday	0830 – 1700
	Tuesday	0830 – 1700
	Wednesday	0830 – 1700
	Thursday	0830 – 1700
	Friday	0830 – 1700
	Saturday	Closed
	Sunday	Closed

A reasonable copying charge may be made for the reproduction of information. Further details in relation to the Project and a copy of the Preliminary Environmental Information and other documents referred to above can also be found on the Applicant's website www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx.

Public Information Days will also be held by the Applicant on the following dates and locations:

Date	Town/Village	Address	Time
16/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	1000 – 1600
18/02/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	1400 – 1900
20/02/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	1400 – 1900
21/02/2019	Orford	Town Hall, Market Hill, Orford, Woodbridge, IP12 2NZ	1400 – 1900
22/02/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	1400 – 1900
23/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	1000 – 1600
25/02/2019	Southwold	Stella Peskett Hall, Rights Road, Southwold, IP18 6BE	1400 – 1900
27/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	1400 – 1900
28/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	1400 – 1900
01/03/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	1400 – 1900
02/03/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	1000 – 1600
04/03/2019	Southwold	Stella Peskett Hall, Rights Road, Southwold, IP18 6BE	1400 – 1900
09/03/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	1000 – 1600

Any response or representation to the publication of this notice must be made in writing to:

ScottishPower Renewables East Anglia ONE North, RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

or via email at: eastangliaonenorth@scottishpower.com

Responses must (i) be received by the Applicant on or before **26th March 2019** (ii) be made in writing, (iii) state the grounds of the response or representation and (iv) indicate who is making the response or representation, and (v) give an address to which correspondence relating to the response or representations may be sent.

Consultation responses may be made publicly available; however, the Applicant will not share individuals' data (although the Applicant may indicate the general area of an individual's location for context).

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East Anglia ONE North Offshore Windfarm

Appendix 9.5

Poster Advertising Phase 4 Public Information Days Locations and Dates

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.5

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_05 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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East Anglia TWO Offshore Windfarm
East Anglia ONE North Offshore Windfarm

Public Information Days

ScottishPower Renewables' Phase 4 Consultation for the proposed East Anglia TWO and East Anglia ONE North offshore windfarms will take place from Monday 11 February 2019 to Tuesday 26 March 2019.

ScottishPower Renewables will be holding 13 Public Information Days, where experts will be on hand to discuss the impact of the projects and proposed mitigation options. Details of these drop-in events are shown below:

Venue	Date	Time
Friston Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	Saturday 16 February 2019	10am – 4pm
Aldeburgh Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	Monday 18 February 2019	2pm - 7pm
Leiston Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	Wednesday 20 February 2019	2pm - 7pm
Orford Town Hall, Market Hill, Orford, Woodbridge, IP12 2NZ	Thursday 21 February 2019	2pm - 7pm
Knodishall Knodishall Village Hall, School Road, Knodishall, IP17 1UD	Friday 22 February 2019	2pm - 7pm
Thorpeness Thorpeness Country Club, The Benthills, IP16 4NU	Saturday 23 February 2019	10am – 4pm
Southwold Stella Peskett Hall, Rights Road, Southwold, IP18 6BE	Monday 25 February 2019	2pm - 7pm
Friston Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	Wednesday 27 February 2019	2pm - 7pm
Thorpeness Thorpeness Country Club, The Benthills, IP16 4NU	Thursday 28 February 2019	2pm - 7pm
Aldeburgh Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	Friday 1 March 2019	2pm - 7pm
Knodishall Knodishall Village Hall, School Road, Knodishall, IP17 1UD	Saturday 2 March 2019	10am – 4pm
Southwold Stella Peskett Hall, Rights Road, Southwold, IP18 6BE	Monday 4 March 2019	2pm - 7pm
Leiston Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	Saturday 9 March 2019	10am - 4pm

If you would like further information about East Anglia TWO or East Anglia ONE North, please visit:
www.spreastanglia.com

Contact ScottishPower Renewables via email:
eastangliatwo@scottishpower.com
eastangliaonenorth@scottishpower.com

Or mail via the Freepost address:
ScottishPower Renewables East Anglia TWO and
East Anglia ONE North
RTLY-RLGH-GKSE
FREEPOST
25 Priestgate
Peterborough, PE1 1JL



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East Anglia ONE North Offshore Windfarm

Appendix 9.6

Venues where the Phase 4 Public Information Days Poster was Displayed

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.6

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_06 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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Venues where Phase 4 Public Information Day Poster was Displayed
Lowestoft Library
Lowestoft SK News
Trinity Methodist Church, Lowestoft
North Lowestoft Post Office
Lowestoft Ex-servicemen Club
North Lowestoft Salvation Army
Lowestoft Pharmacy
Lowestoft Marina Theatre
Co-op Kessingland
The Village Store, Kessingland
Kessingland Library
Marram Green Community Centre, Kessingland
The Village Store, Wangford
Wrentham Post Office
Wrentham Local Shop
The Five Bells pub, Wrentham
Barbrooks Stores Londis, Reydon
Reydon Village Hall (inside and outside)
Southwold Post Office
Southwold East of England Co-op
Southwold Tesco Express
Southwold Library
Café 51, Southwold
Southwold United Reform Church
Southwold Costa
Farmhouse Bakery, Southwold
Buckenham Coffee Shop, Southwold
Westleton Post Office
Yoxford Local Shop
The Vulcan Arms, Sizewell
Aldeburgh Library
Aldeburgh Post Office
Aldeburgh East of England Co-op
Aldeburgh Bookshop
The Lighthouse Café, Aldeburgh
Aldeburgh St Peter's and St Paul's Church Hall

Venues where Phase 4 Public Information Day Poster was Displayed
The Kitchen, Thorpeness
Thorpeness Golf Club
Thorpeness Village Store
The Parrot Pub, Aldringham
Knodishall Food and Wine
Knodishall Village Hall Noticeboard (inside and outside)
The Butcher's Arms, Knodishall
Friston Village Hall Noticeboard
Saxmundham Library
Saxmundham Martins
Saxmundham Tesco
Saxmundham Costa
Leiston East of England Co-op
Leiston Library
Orford Garage Noticeboard
Orford Post Office/Local Shop
Woodbridge Library

East Anglia ONE North Offshore Windfarm

Appendix 9.7

Stakeholders who Received the Phase 4 Poster by Email

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.7

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_07 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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Parish or Town Council Contacted
Great Yarmouth Borough Council
Great Yarmouth Central Library
Lowestoft Town Council
Kessingland Parish Council
Wangford Parish Council
Southwold Town Council
Walberswick Parish Council
Knodishall Parish Council
Leiston-cum-Sizewell Town Council
Aldringham-cum-Thorpe Parish Council
Saxmundham Town Council
Aldeburgh Town Council
Reydon Parish Council
Friston Parish Council
Aldeburgh Town Council
Felixstowe Town Council
Orford Town Council

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East Anglia ONE North Offshore Windfarm

Appendix 9.8

Press Release for Phase 4 Consultation

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.8

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_08 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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PRESS RELEASE

Phase 4 Consultation for East Anglia TWO and East Anglia ONE North Offshore Windfarms

ScottishPower Renewables is launching Phase 4, the final phase of consultation on its proposed East Anglia TWO and East Anglia ONE North offshore windfarm projects, which will run until 26th March 2019.

Following previous pre-application consultation phases with the local community and stakeholders, ScottishPower Renewables has listened to feedback, developed the proposals and incorporated these into draft documents to be presented at this final phase of consultation.

Phase 4 is based on a draft Environmental Statement, which sets out the proposed infrastructure and its potential environmental impacts. It will provide further information on the proposals, including the Preliminary Environmental Information Report (PEIR) and the key findings of the Environmental Impact Assessment, to include detailed information on traffic, flooding and landscaping.

The site selection chapter sets out the reasons for ScottishPower Renewables' choice of substation site, taking into account the environmental, social and economic effects and including, where relevant, technical and commercial feasibility.

ScottishPower Renewables is holding 13 Public Information Days where the project team and technical experts will be on hand to talk through the information, share details on how the proposals have developed since the previous phase of consultation and answer questions.

East Anglia TWO and East Anglia ONE North, with a capacity of 900MW and 800MW respectively, follow-on from the 714 MW East Anglia ONE project that is currently in construction and the 1,200MW East Anglia THREE scheme, which received planning consent in 2017. East Anglia TWO and East Anglia ONE North could provide enough clean energy to power the equivalent of 1.5 million homes*.

David Walker, Development Director at ScottishPower Renewables, said: "As a responsible developer, we are keen to work with local communities and stakeholders to share the latest information on our proposals, answer questions and receive feedback.

"During Phase 4, we will be consulting with stakeholders and residents on the environmental reports, as well as sharing further information on the proposed onshore development area, mitigation and traffic plans.

"Community views play an important part in shaping our proposals and we encourage as many people as possible to take part in the consultation, to engage with us and provide feedback."

The consultation material, including the Preliminary Environmental Information Report, will be available from 11th February 2019 until 26th March 2019 at the following locations:

Location	Address	Access Details
Aldeburgh Library	32 Victoria Road Aldeburgh Suffolk IP15 5EG	Monday, Tuesday, Thursday and Friday 9am to 1pm Wednesday - 3pm to 6pm Saturday and Sunday - 10am to 12.30pm and 1pm to 3.30pm
Leiston Town Council	Main Street Leiston Suffolk IP16 4ER	Monday and Tuesday - 9am to 12.30pm and 2pm to 4.45pm Thursday and Friday - 9am to 12.30pm Alternatively contact 01728 830388 to make an appointment.
Suffolk County Council	Endeavour House 8 Russell Road Ipswich Suffolk, IP1 2BX	Monday to Friday 9am to 5pm. Ask for John Pitchford or Shirley Brown at reception.
Woodbridge Library	New Street Woodbridge Suffolk IP12 1DT	Monday - 10am to 4pm Tuesday and Friday - 9.30am to 7.30pm Wednesday and Thursday - 9am to 5.30pm Saturday - 9am to 5pm Sunday - 10am to 4pm
Aldeburgh Town Council	Moot Hall Market Cross Place, Aldeburgh IP15 5DS	Monday, Tuesday, Wednesday and Friday - 9.30am to 12pm.
OrbisEnergy Centre	Wilde Street Lowestoft NR32 1XH	Available in reception 9am to 5pm Monday to Friday.

Copies of these documents can also be viewed from 30th January on the ScottishPower Renewables website at:

https://www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx

https://www.scottishpowerrenewables.com/pages/east_anglia_two.aspx

The dates, times and locations of the Public Information Days are as follows:

DATE	LOCATION	ADDRESS	TIME
16/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	10am - 4pm
18/02/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	2pm - 7pm
20/02/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	2pm - 7pm
21/02/2019	Orford	Town Hall, Market Hill, Orford, Woodbridge, IP12 2NZ	2pm - 7pm
22/02/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	2pm - 7pm
23/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	10am - 4pm
25/02/2019	Southwold	Stella Peskett Hall, Might's Road, Southwold, IP18 6BE	2pm - 7pm
27/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	2pm - 7pm
28/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	2pm - 7pm
01/03/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	2pm - 7pm
02/03/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	10am - 4pm
04/03/2019	Southwold	Stella Peskett Hall, Might's Road, Southwold, IP18 6BE	2pm - 7pm
09/03/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	10am - 4pm

All consultation material will be available online and feedback can be submitted via freepost or email to:

ScottishPower Renewables East Anglia ONE North
RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

ScottishPower Renewables East Anglia TWO
RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

eastangliaonenorth@scottishpower.com
eastangliatwo@scottishpower.com

All comments must be submitted before the consultation ends at midnight on 26th March 2019. When responding to this consultation, respondents must make it clear if the response is made in respect of the proposed East Anglia TWO project, the proposed East Anglia ONE North project or both.

- ENDS -

For further information please contact Sophie Fraser or Tom Harvey at Pier Marketing

Sophie T: 07469 244397 E: sophie@pier-marketing.com

Tom T: 07384 463501 E: tom@pier-marketing.com

Pier ScottishPower Renewables team:

Tel: 01394 646400 or E: eatwoandonenorth@pier-marketing.com

For more information on East Anglia TWO visit:

https://www.scottishpowerrenewables.com/pages/east_anglia_two.aspx

For more information on East Anglia ONE North visit:

https://www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx

*Equivalent number of homes powered calculated by: Number of megawatts multiplied by the number of hours in one year (8,766) multiplied by the average load factor for offshore wind (38.36% as published within the Digest of United Kingdom Energy Statistics), divided by the average annual household energy consumption (3,781KWH).

East Anglia TWO: $900 \text{ MW} \times 0.3836 \times 8,766 \text{ hours} / 3.781 \text{ MWh} = 800,416 \text{ homes}$

East Anglia ONE North: $800 \text{ MW} \times 0.3836 \times 8,766 \text{ hours} / 3.781 \text{ MWh} = 711,481 \text{ homes}$

Total: 1,511,897 homes

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East Anglia ONE North Offshore Windfarm

Appendix 9.9

Notification Letter of Phase 4 Consultation and Branded Envelope

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.9

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_09 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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28 January 2019

Dear Sir/Madam,

**East Anglia ONE North Offshore Windfarm
Phase 4 Consultation under the Statement of Community Consultation**

We, East Anglia ONE North Limited, are writing to inform you of our phase four pre-application consultation for the proposed East Anglia ONE North Offshore Windfarm.

East Anglia ONE North Limited will consider any relevant responses received to this consultation when preparing the final development consent order application for the proposed East Anglia ONE North project.

Background to the proposed East Anglia ONE North project

The East Anglia ONE North windfarm site is located approximately 36km from Lowestoft and 42km from Southwold and covers an area of approximately 208km². The East Anglia ONE North windfarm site will contain up to 67 wind turbines, offshore platforms and other offshore electrical infrastructure. Offshore electrical infrastructure will export electricity generated by the wind turbines via export cables to a landfall located north of Thorpeness in Suffolk.

At landfall, the offshore export cables will be connected to the onshore infrastructure. Onshore cables will be routed underground to an onshore substation which will in turn connect into the main transmission network via new transmission infrastructure to be owned and operated by National Grid. The onshore substation and the National Grid infrastructure will be located at Grove Wood, Friston.

Consultation Details

This consultation ends at midnight on the **26th March 2019**.

The consultation material including a preliminary environmental information report will be available from 11th February 2019 until 26th March 2019 at the following locations subject to their normal opening hours:

- Aldeburgh Library, 32 Victoria Road, Aldeburgh, Suffolk, IP15 5EG
- Woodbridge Library, New Street, Woodbridge, Suffolk, IP12 1DT
- Leiston Town Council, Council Offices, Main Street, Leiston, Suffolk, IP16 4ER
- Suffolk County Council, Endeavour House, 8 Russell Road, Ipswich, Suffolk, IP1 2BX
- Orbis Energy Centre, Wilde Street, Lowestoft, NR32 1XH

Copies of these documents can also be viewed on the project website at https://www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx.

Public Information Days will be held at the following locations where experts will be on hand to discuss the proposed East Anglia ONE North project with you.

ScottishPower Renewables / 320 St Vincent Street, Glasgow, G2 5AD



Take care of the environment.
Printed in black and white and only if necessary.

28 January 2019

DATE	LOCATION	ADDRESS	TIME
16/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	10am - 4pm
18/02/2019	Aldeburgh	Aldeburgh Church Hall, Victoria Road, Aldeburgh, IP15 5EA	2pm - 7pm
20/02/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	2pm - 7pm
21/02/2019	Orford	Town Hall, Market Hill, Orford, Woodbridge, IP12 2NZ	2pm - 7pm
22/02/2019	Knodishall	Knodishall Village Hall, School Road, Knodishall, IP17 1UD	2pm - 7pm
23/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	10am - 4pm
25/02/2019	Southwold	Stella Peskett Hall, Rights Road, Southwold, IP18 6BE	2pm - 7pm
27/02/2019	Friston	Friston Village Hall, Church Road, Friston, Saxmundham, IP17 1PU	2pm - 7pm
28/02/2019	Thorpeness	Thorpeness Country Club, The Benthills, IP16 4NU	2pm - 7pm
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09/03/2019	Leiston	Sizewell Sports and Social Club, King George's Avenue, Leiston, IP16 4JX	10am - 4pm

Responding to this consultation

Any consultation responses should be made to:

Via Freepost:

ScottishPower Renewables East Anglia ONE North

RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

Via Email: eastangliaonenorth@scottishpower.com

Please ensure that all comments are submitted to East Anglia ONE North Limited before the consultation ends at midnight on 26th March 2019.

Consultation responses may be made publicly available however SPR will not share individuals' data (although SPR may indicate the general area of an individual's location for context).

The proposed East Anglia TWO project

The proposed East Anglia TWO project is being developed in parallel with the proposed East Anglia ONE North project. Separate DCO applications will be submitted for the projects and pre-application consultation is also being carried out separately.

You will receive separate correspondence consulting you on the East Anglia TWO project. When responding to the consultations please make clear if your response is made in respect of the proposed East Anglia ONE North project, the proposed East Anglia TWO project, or both projects.

We look forward to hearing from you.

Yours faithfully

East Anglia ONE North Stakeholder Team
ScottishPower Renewables

ScottishPower Renewables / 320 St Vincent Street, Glasgow, G2 5AD



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Printed in black and white and only if necessary.



The Occupier

This envelope contains important information on ScottishPower Renewables' proposed East Anglia TWO and East Anglia ONE North offshore windfarm projects. Please open.

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East Anglia ONE North Offshore Windfarm

Appendix 9.10

Phase 4 Public Exhibition Boards

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.10

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_10 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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1 Welcome

Welcome to our Phase Four Consultation Public Information Day about our proposed East Anglia TWO and East Anglia ONE North offshore windfarm projects. Members of our project team are on hand today to answer your questions and we welcome any feedback you have.

As part of our pre-application consultation, ScottishPower Renewables (SPR) has published separate Preliminary Environmental Information Reports (PEIRs) for East Anglia TWO and East Anglia ONE North.

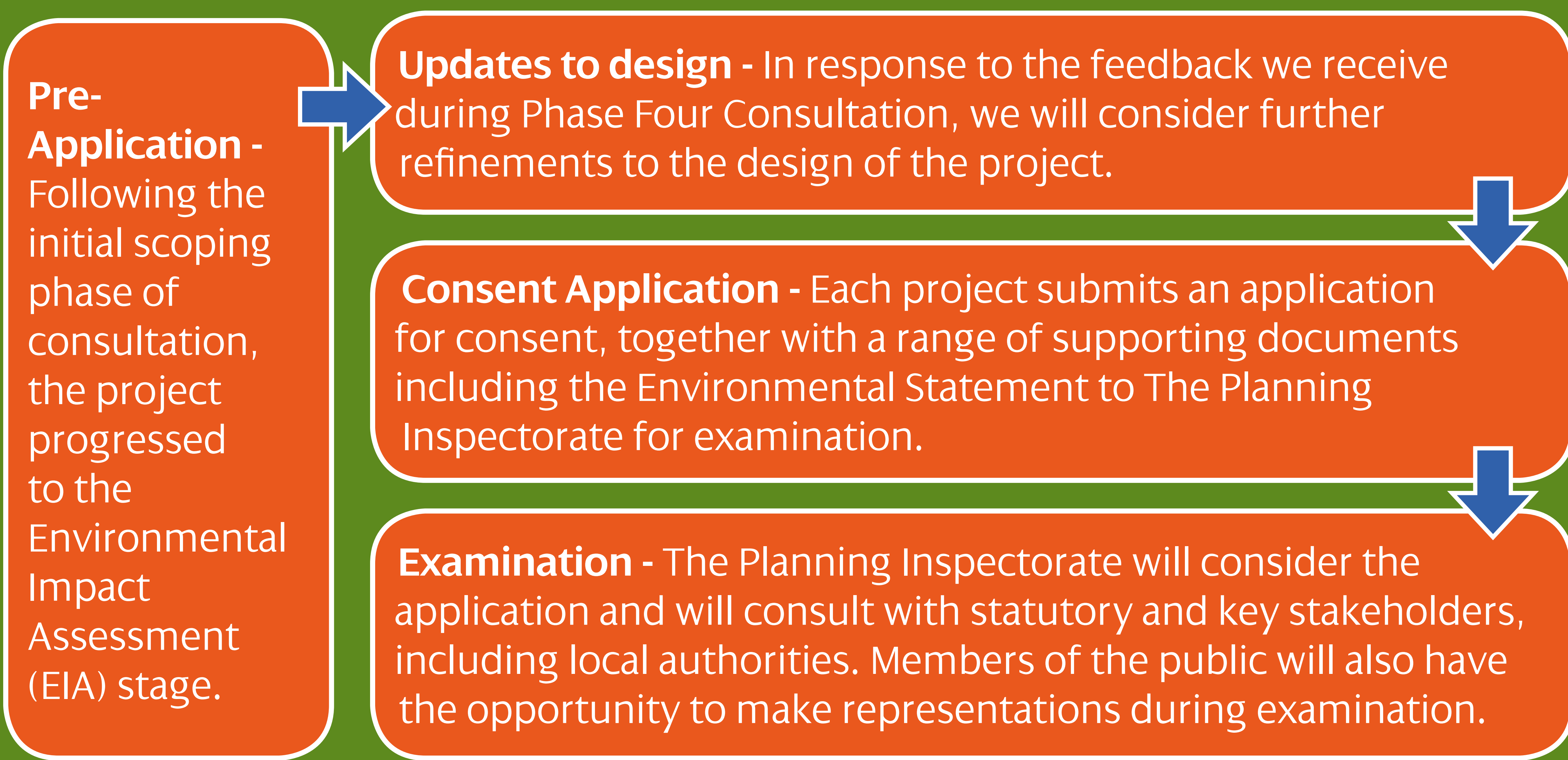
Each PEIR provides information on site selection; a detailed project description; preliminary impact assessments; potential cumulative impacts and mitigation measures to reduce or prevent environmental impacts. The content presented today and in each PEIR is shaped by the feedback we received from previous consultation rounds.

This is Phase Four of our pre-application consultation and we will use your feedback to help finalise our project proposals and impact

assessments, prior to submitting separate consent applications towards the end of 2019.

Freepost envelopes are available to return feedback on each project or you can email us at:
eastangliaonenorth@scottishpower.com
eastangliatwo@scottishpower.com

All material shared today, including each PEIR, is available to download from our website. Each PEIR (excluding appendices) is also available to view in hard copy format at the following locations: Aldeburgh Library; Aldeburgh Town Council; Woodbridge Library; Leiston Town Council; Friston Village Hall; Suffolk County Council and OrbisEnergy Centre (please check our website for times when these documents are available to view).



2 East Anglia TWO and ONE North Onshore Development

The offshore export cables will make landfall north of Thorpeness, at a location which has been selected following consultation with statutory stakeholders and technical experts.

Horizontal Directional Drilling (HDD) will be undertaken to facilitate the offshore export cables coming onshore and to avoid interaction with the cliffs, beach and intertidal area.

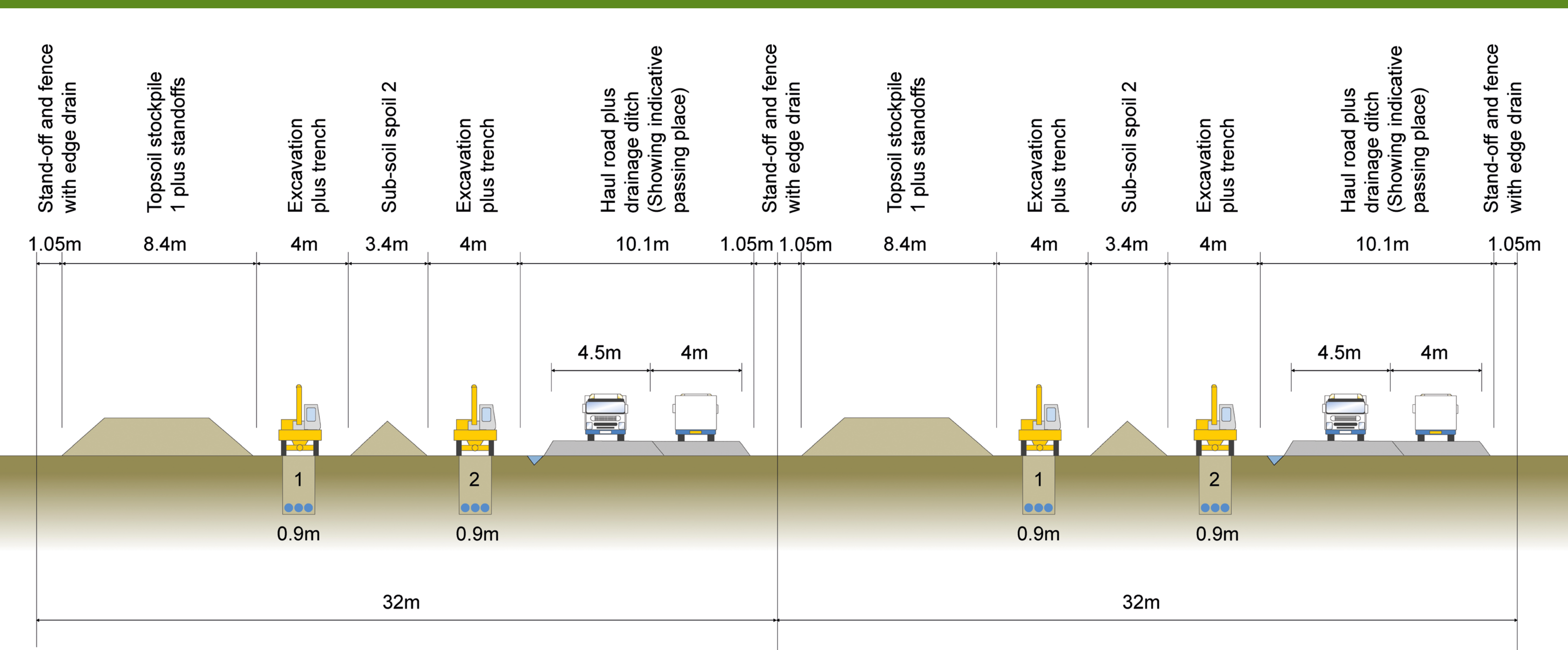
From landfall, underground cables would be installed to the substations at Grove Wood, a distance of approximately 9km.

The width of the onshore cable route would typically be 32m per project during construction, reducing to 16.1m at important hedgerows and the woodland at Aldeburgh Road.

Where trenchless techniques are used (i.e. at the landfall), the width would be wider.

An onshore substation would be required for each project, both connecting to a single National Grid substation at Grove Wood. All substations will be located adjacent to each other to maximise the use of existing screening and improve the effectiveness of new landscaping, which will reduce the visual impact of the substations.

The existing overhead lines will require modification to facilitate the grid connection, which could include up to one additional pylon and require strengthening works to the existing pylons in the immediate area. New cable sealing end compounds will also be required to connect the overhead lines to the National Grid substation.



East Anglia TWO and East Anglia ONE North Indicative cable trenching arrangement and working area

3

East Anglia TWO and ONE North Onshore Development

How The Projects Relate To Each Other: East Anglia TWO and East Anglia ONE North are two separate projects. Two construction scenarios have been assessed: construction of both projects simultaneously and sequentially.

Construction Compounds: Temporary Construction Consolidation Sites (CCS) would be required along the onshore cable route and at the landfall and substation sites during construction.

Preliminary studies have identified possible CCS locations for the onshore cable route. Each CCS would be reinstated and returned to its previous use following construction.

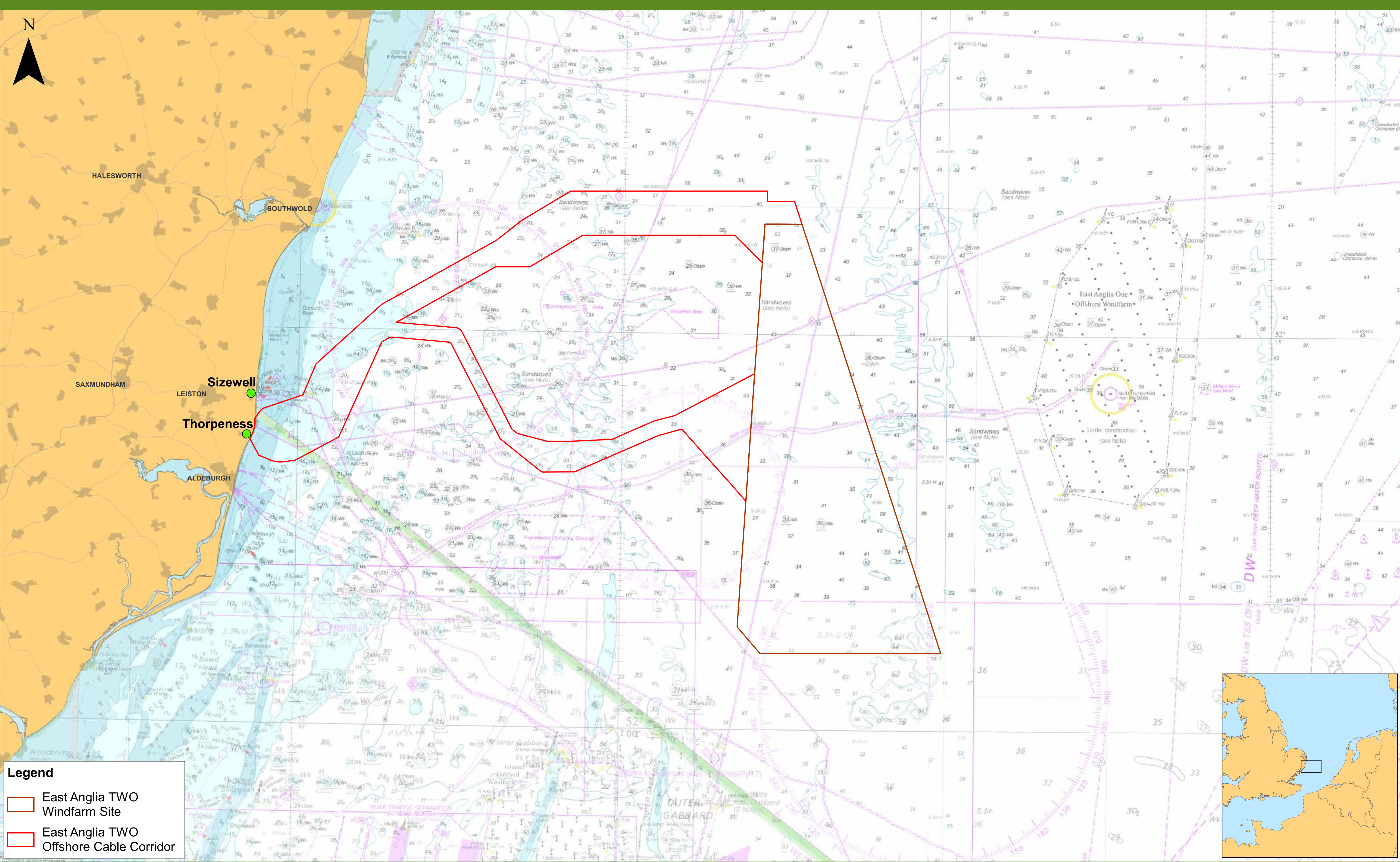
Operation: All landfall and cable infrastructure will be underground, with the only above-ground elements being the onshore substations and National Grid’s infrastructure.

Key Onshore Dimensions: The key dimensions for the onshore infrastructure are presented below.

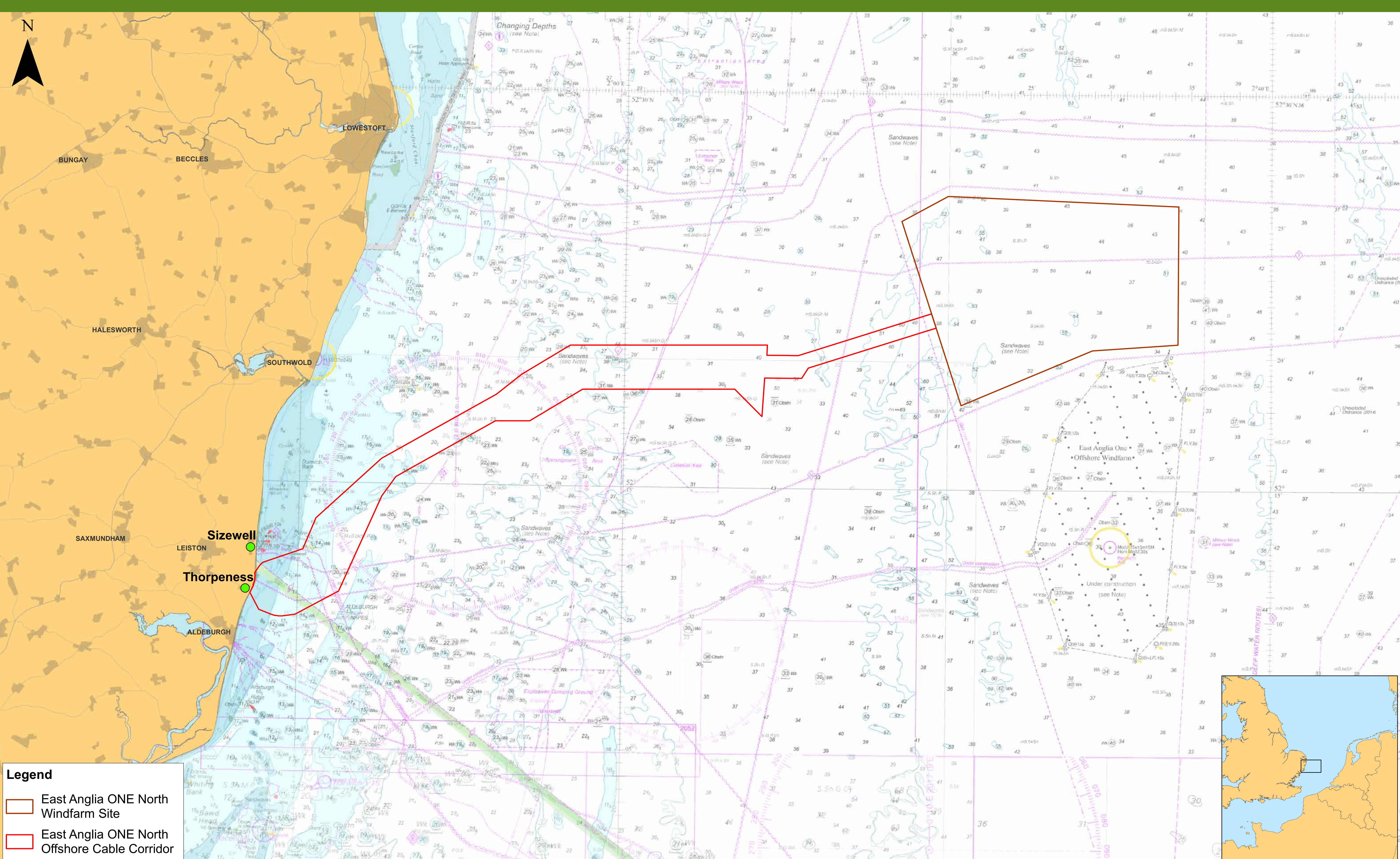
Parameter	Dimension (per Project)
Typical onshore cable route construction width	32m
Number of onshore cable trenches	2
Number of onshore electrical cables	6 (3 per cable trench)
Onshore cable route: CCS area	160m x 115m (each)
Onshore substation: Footprint	36,100m ²
Onshore substation: Maximum building height	15m
Onshore substation: Maximum height of external electrical equipment	18m
Onshore substation: CCS area	190m x 90m (in addition to footprint of onshore substations)
National Grid substation: Footprint	45,500m ² (Air Insulated Substation) or 16,800m ² (Gas Insulated Substation)
National Grid substation: Maximum building height	13m (Air Insulated Substation) Or 16m (Gas Insulated Substation)
National Grid substation: Maximum height of external electrical equipment	16m
National Grid substation: CCS area	125m x 315m (x 2)
Lightning protection	Provided using a combination of lightning rods, lightning masts and shield wires

East Anglia TWO and ONE North Offshore Development

The East Anglia TWO Offshore Development Area Is Shown Below

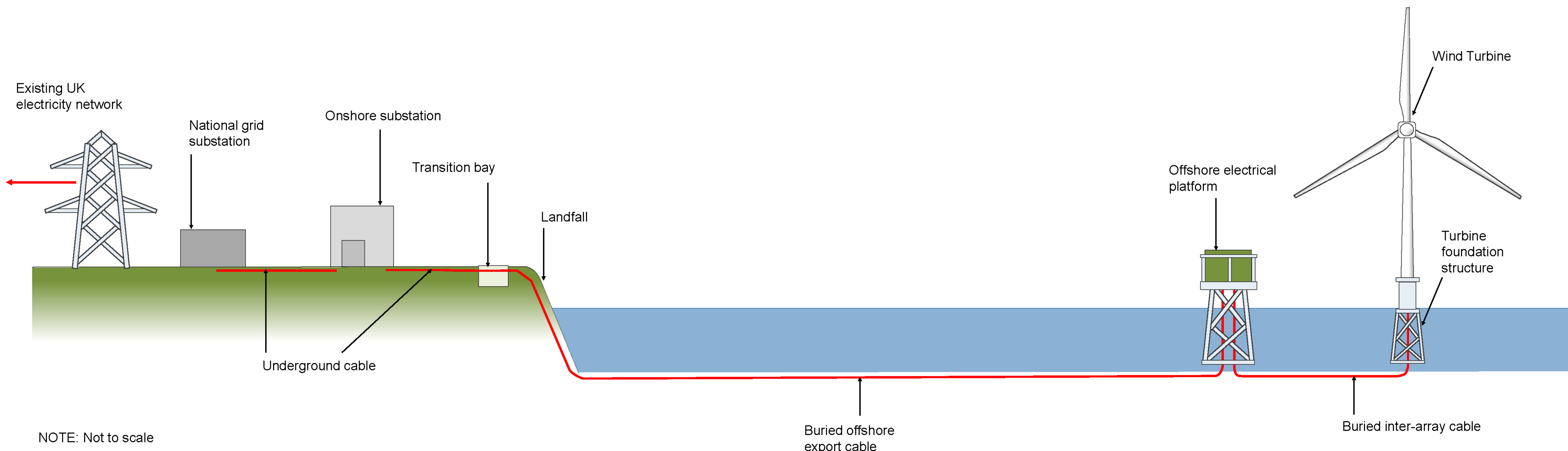


The East Anglia ONE North Offshore Development Area Is Shown Below



5

East Anglia TWO and ONE North Offshore Development



Key components of the proposed East Anglia TWO and East Anglia ONE North projects

How Does An Offshore Windfarm Work?

- Electricity generated by each turbine is transmitted via inter-array and platform link cables from the turbines to offshore electricity platforms
 - From there electricity is then transported via buried offshore export cables to the transition bays at landfall
- From the transition bays the underground cables will transport electricity to the onshore substation and onto the National Grid substation and the overhead transmission lines
- The table below sets out the key components of each project:

Parameter	East Anglia TWO	East Anglia ONE North
Maximum capacity	up to 900MW ¹	up to 800MW ¹
Maximum number of wind turbines	75	67
Windfarm site area	255km ²	208km ²
Distance from windfarm site to shore (closest point of site to Lowestoft)	31km	36km
Offshore cable corridor length/area	80km/180km ²	76km/133km ²
Number of offshore export cables	Two	Two
Maximum wind turbine rotor diameter	250m	250m
Maximum wind turbine hub height	175m	175m
Maximum wind turbine tip height	300m	300m
Minimum separation between wind turbines (for micro-siting) ²	<ul style="list-style-type: none">In-row 800mInter-row 1200m	<ul style="list-style-type: none">In-row 800mInter-row 1200m
Number of wind turbine models to be installed	Up to three	Up to three
Number of met masts	Up to one	Up to one
Number of offshore electrical platforms	Up to four	Up to four
Number of construction, operation and maintenance platforms	Up to one	Up to one

¹ As measured at point of connection of the onshore cables to the onshore substation
² Nominal spacing is likely to exceed this

How This Affects You

The following human aspects were considered in our draft impact assessment: air quality; noise and vibration; land use; traffic and transport; human health; tourism, recreation and socio-economics.

Tourism, Recreation and Socio-economics

The proposed projects are predicted to bring significant socio-economic benefit to the local area and region through the creation of employment opportunities. No significant negative tourism and recreation impacts are predicted.

Noise

Potential noise impacts are identified arising from construction works (and associated construction traffic) in a small number of locations along the indicative onshore development area. These impacts are temporary and will be of short duration.

The only sources of noise with the potential to impact onshore receptors during the operation of the proposed projects would be from the onshore substations.

Through the Development Consent Order (DCO) process, noise limits will be tightly controlled and will be agreed with the Local Planning Authority prior to construction.

Traffic

Traffic and transport impacts have been assessed and consider impacts on pedestrians; road safety; and driver delays during construction. With the application of appropriate mitigation measures, such as the implementation of a Construction Traffic Management Plan, the transport impact during construction is assessed to be minor or negligible. Traffic impacts are not predicted to be significant during the operational phase of the projects.

No significant air quality, land use or human health impacts are identified.



Transformer delivery to the East Anglia ONE offshore windfarm substation (2018)

7 How This Affects Onshore and Offshore Ecology

The following ecology aspects are considered in our draft impact assessment: marine mammals; onshore and offshore ornithology; fish and seabed communities; habitat mapping; and protected species.

Detailed offshore surveys were carried out in agreement with Natural England, the Marine Management Organisation (MMO) and the Centre for Environment, Fisheries and Aquaculture (Cefas) over the course of 2017/18. This established a baseline against which we have assessed the potential impacts on marine mammals, birds, fish and seabed communities.

Key issues which we considered include:

- The potential for underwater noise to be generated by pile driving during foundation construction impacting on marine mammals and fish. As such, underwater noise modelling formed an important part of our assessment
- The risk of birds colliding with, or being disturbed by, our projects
- Habitat loss or degradation to seabed communities

Only minor adverse effects are predicted for all species and habitats considered.

Onshore ecology

Extensive onshore surveys were carried out, including habitat mapping and protected species surveys on, for example, bats, water voles and great crested newts.

During the impact assessment, special consideration was given to the impact on the Sandlings Special Protection Area (SPA).

With specific mitigation measures in place the proposed East Anglia TWO and East Anglia ONE North projects are predicted to have no greater than minor impacts on this area.

Only minor effects are predicted for all species and habitats considered.



Turtle dove



Nightjar

8

How This Affects Landscape and Visual, Seascape and Heritage

The following aspects were considered in our draft impact assessment: landscape and visual; seascape; and heritage impacts.

Landscape and Visual

As there will be no above-ground infrastructure at the landfall or along the cable route, there will be no significant effects in these areas during the operational phase other than at the cable corridor in the vicinity of Aldeburgh Road due to the partial removal of woodland.

Potentially significant impacts associated with the operation of the onshore substations would be largely contained within the local landscape. Mitigation planting will be designed and introduced with the aim of reducing these impacts.

Seascape

Significant construction and operational effects on seascape are not anticipated to be widespread, rather localised and site specific around narrow coastal edges of the Suffolk coast.

Visibility from the coast of the East Anglia TWO and East Anglia ONE North wind turbines under conditions of excellent visibility is limited to 33% of the time and 26% of the time respectively as a worst case.

Photomontage booklets are available at this event for you to view, as well as a virtual fly-through model which allows you to see what the projects will look like once operational, from any point within the project boundary.

Heritage

Direct impacts on designated heritage features have been avoided as part of the site selection process.

Further work will be undertaken prior to submission of the DCO to determine the potential for impact on the setting of designated heritage features.



Archaeological trial trenching will be undertaken



Any archaeological finds will be recorded

www.scottishpowerrenewables.com

How This Affects Marine Users

The following commercial marine aspects were considered in our draft impact assessment: shipping and navigation; fisheries; and recreational users.

The proposed East Anglia TWO and ONE North projects have been assessed for potential shipping and navigation impacts using the Formal Safety Assessment (FSA) process detailed by the International Maritime Organization (IMO, 2002) and as required by the Maritime and Coastguard Agency's (MCA) Methodology for Assessing the Marine Navigational Safety of Offshore Wind Farms (MCA, 2015).

Careful site selection has reduced the overall impact that the proposed projects will have on marine users such as fishermen, ferries and recreational boats.

This site selection process involved stakeholder workshops and computer modelling to identify shipping routes and the types of vessels that may be impacted by the projects, allowing interactions to be avoided as far as possible.

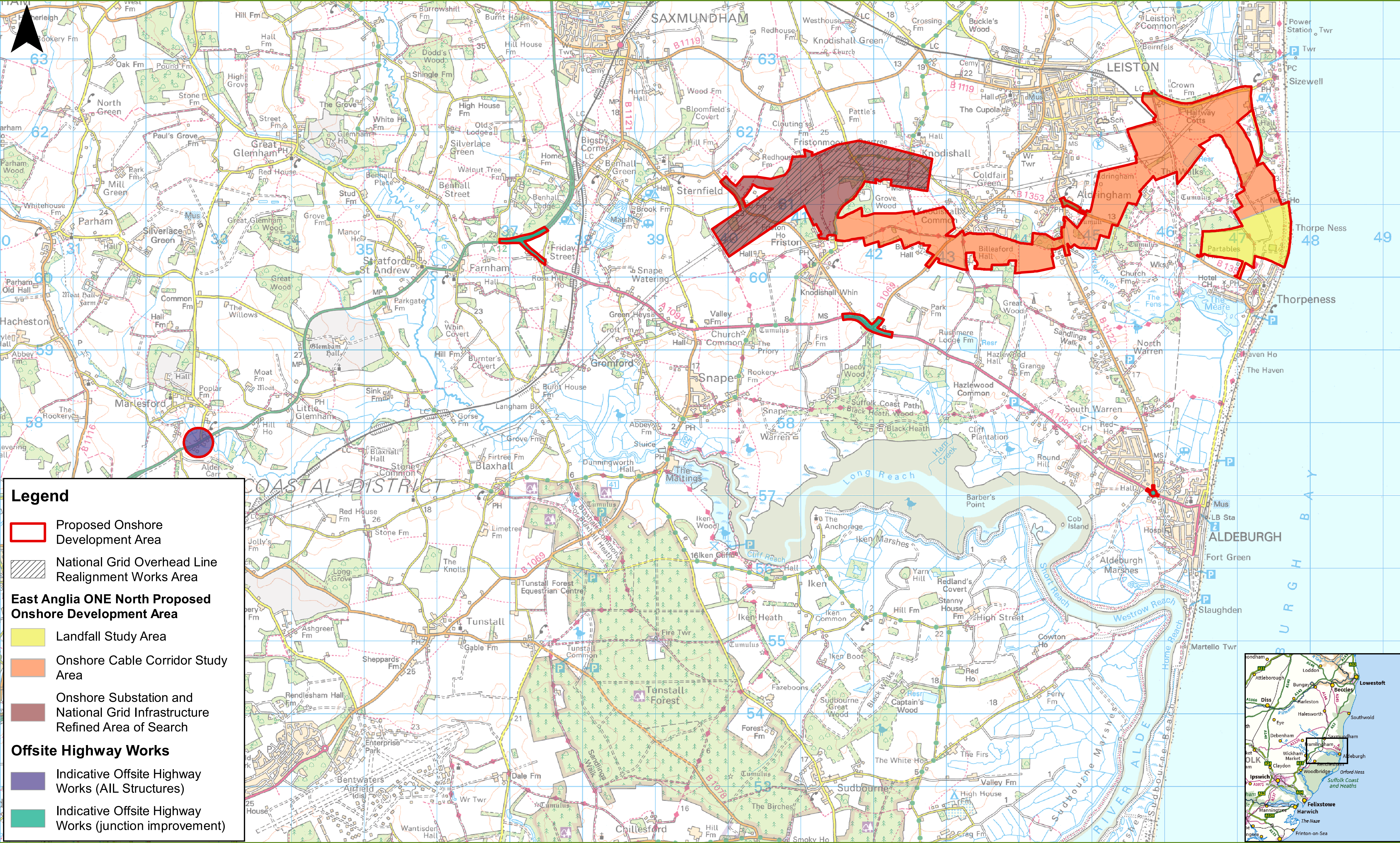
In order to ensure and maintain regular communication, a Commercial Fisheries Working Group (CFWG) has been established to ensure effective liaison with commercial fisheries groups affected by our projects. Through the CFWG and other communication channels, appropriate liaison will be undertaken with all relevant fishing and shipping interests to ensure they are fully informed of all construction, maintenance and decommissioning activities.



Offshore electrical platform under construction at East Anglia ONE Offshore Windfarm (with wind turbine foundations visible in the background)

www.scottishpowerrenewables.com

Commitment To Onshore Mitigation Along The Cable Route



Proposed Onshore Development Area (PEIR Figure 6.2)

In order to minimise transport impacts associated with the onshore construction and operation of the projects, SPR has adopted a number of mitigation measures, including:

- Construction and use of temporary haul roads to access the landfall, cable corridor and substation areas, thereby reducing Heavy Goods Vehicle (HGV) movements on local roads
- Identification of suitable HGV access routes to avoid key sensitive areas such as Aldeburgh town centre, Thorpeness, Friston, Saxmundham, Benhall Green and Sternfield
- Use of a pilot vehicle system to escort HGVs along the B1353 (Thorpeness Road) and avoidance of HGV deliveries along the B1353 during peak morning and evening rush hours

For construction works that may affect the Sandlings Special Protection Area (SPA) and Site of Special Scientific Interest (SSSI), specific measures will be implemented to protect breeding birds such as development of a Breeding Bird Protection Plan.

Consideration is also being given as to how the cable corridor would cross the SPA at its narrowest point with as little impact as possible, either by open trenching over a condensed period or by Horizontal Directional Drilling over a longer period.

A series of mitigation measures will also be incorporated within a Code of Construction Practice, including specific measures to control dust, noise, lighting and ecological impacts associated with the construction works.

Commitment To Mitigation At The Grove Wood Substation Site



Planting around the Grove Wood substation will be designed and introduced with the aim of reducing the visual impact on surrounding properties, and villages such as Friston.

The planting would include areas of faster-growing woodland species to provide the height required as well as the density to ensure effective screening.

An outline Landscape Mitigation Plan is included in each PEIR, and we welcome your views on the outline design to allow the further development of this plan prior to DCO application. In particular, your views on areas for planting and the timing of such planting are encouraged.

Following previous consultation feedback which raised flood risk as a key concern, we have introduced a sustainable urban drainage system (SUDS).

The SUDS design ensures surface water run-off from the substations is drained to and held within a SUDS pond (shown on the masterplan drawing).

The SUDS pond then releases the water to the local drainage system at a slow rate, thereby reducing the risk of flooding.

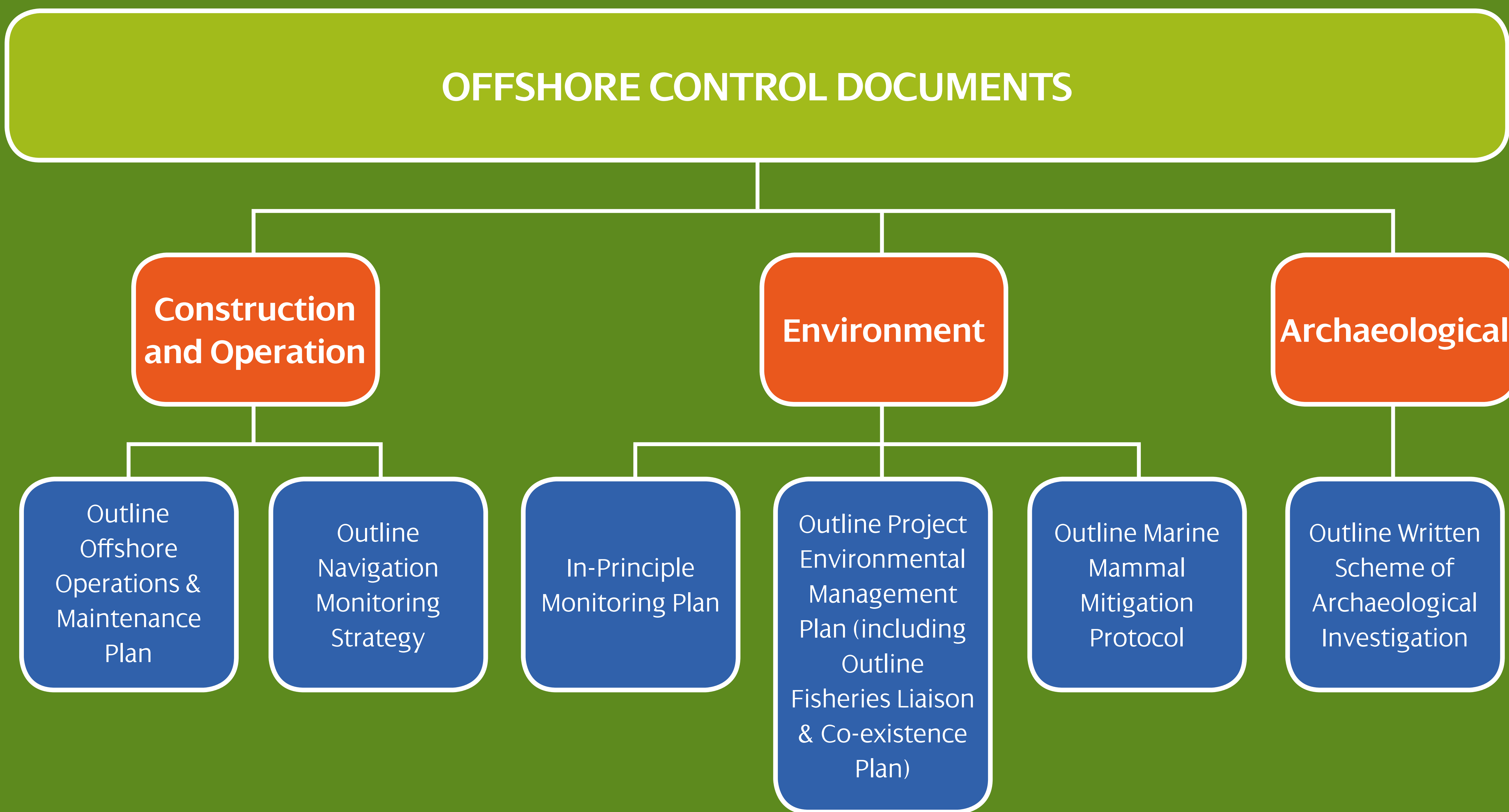
This pond will provide adequate drainage to accommodate the area of impermeable hard standing created by construction of the substations.

12 Commitment To Offshore Mitigation

This will include:

- Burial of the offshore export cables to minimise the need for surface-laid cable protection, which could have affected the movement of sediment along the coast line
- Ensuring the route of the offshore cables avoids sensitive habitats and features
- Horizontal Directional Drilling (HDD) at the landfall (to drill under the coastal cliff and beach area) to avoid impact on the Leiston - Aldeburgh Site of Special Scientific Interest (SSSI), the cliffs, the beach and the intertidal area.
- Incorporation of provisions within the DCO will deliver mitigation options such as micro-siting of wind turbines to avoid potentially sensitive marine habitat identified during pre-construction surveys

A number of documents will be drafted and agreed with stakeholders during the development process which will set out mitigation measures to be implemented during the construction phase of the projects. A number of these documents are shown below:



13 Cumulative Impacts

A key consideration in the Environmental Impact Assessment (EIA) is how the construction and operation of the proposed East Anglia TWO and East Anglia ONE North projects interact with other projects in the area.

A Cumulative Impact Assessment (CIA) has been undertaken and presented within each PEIR. The methodology adopted in preparing the CIA is presented within Chapter 5 Environmental Impact Assessment Methodology.

Projects which are reasonably well described and sufficiently advanced to provide information on which to base a meaningful and robust assessment have been included in the CIA, following The Planning Inspectorate Advice Note 9 and its complementary guidance in Advice Note 17.

In submitting the consent applications for both East Anglia TWO and East Anglia ONE North projects

in parallel, SPR has ensured that each project is well described and sufficiently advanced. This allows the impact assessment for each project to fully take into account the cumulative impact of the other. In assessing the simultaneous and sequential construction of both projects, we also ensure that all construction scenarios are fully assessed for each project.

SPR is pleased to be a member of the Suffolk County Council chaired 'Energy Projects Working Together Group' expressly set up to examine cumulative impacts with other projects, primarily Sizewell C and National Grid Ventures' Interconnector Projects.

The cumulative impact of other projects will be assessed based on the level of information available and in line with The Planning Inspectorate's Advice Notes. Our final EIA submitted with each DCO application will, for example, consider Sizewell C's current Stage 3 Consultation.



Offshore wind turbine under construction

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East Anglia ONE North Offshore Windfarm

Appendix 9.11

Onshore Substation Site Selection Presentation

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.11

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_11 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

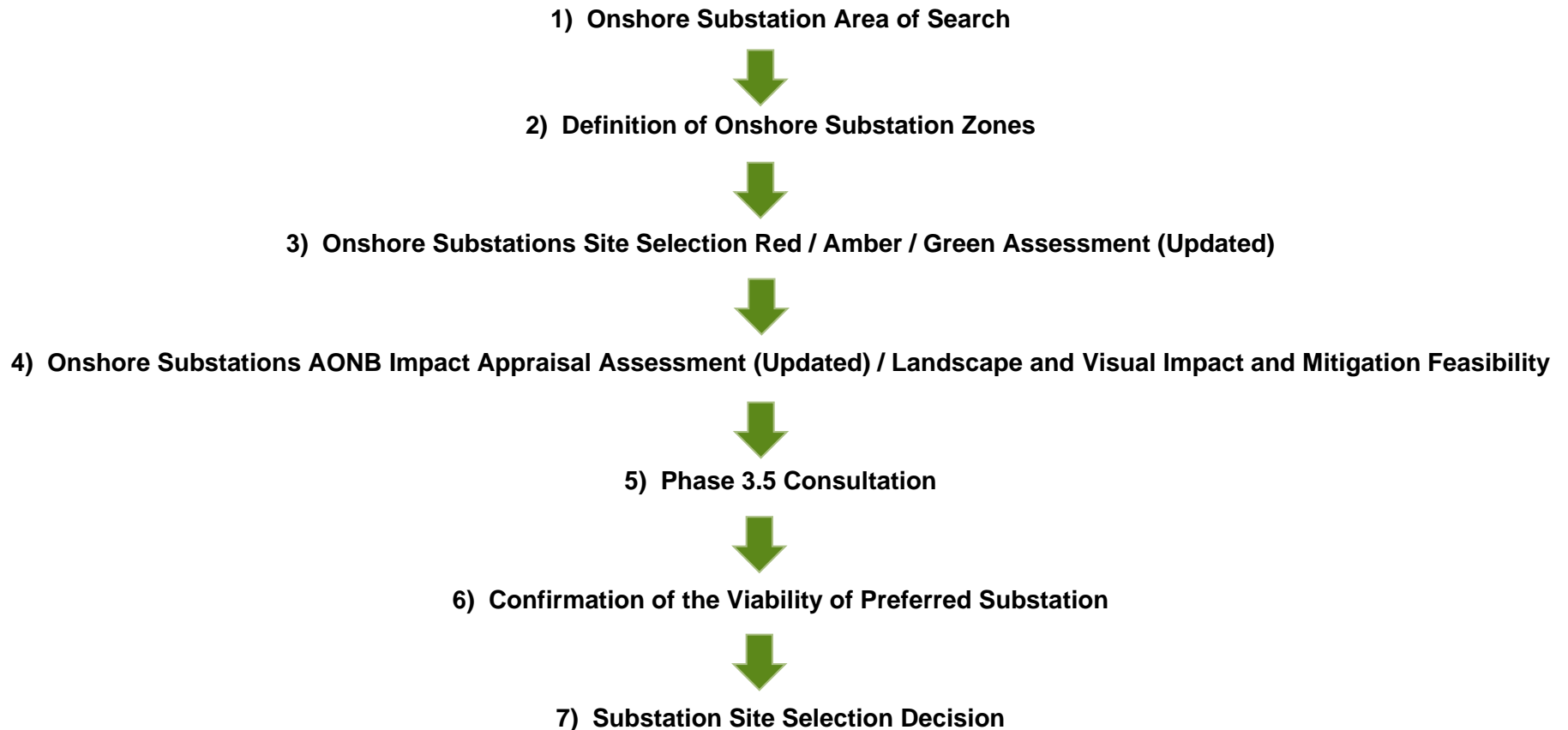
Revision: Version 1

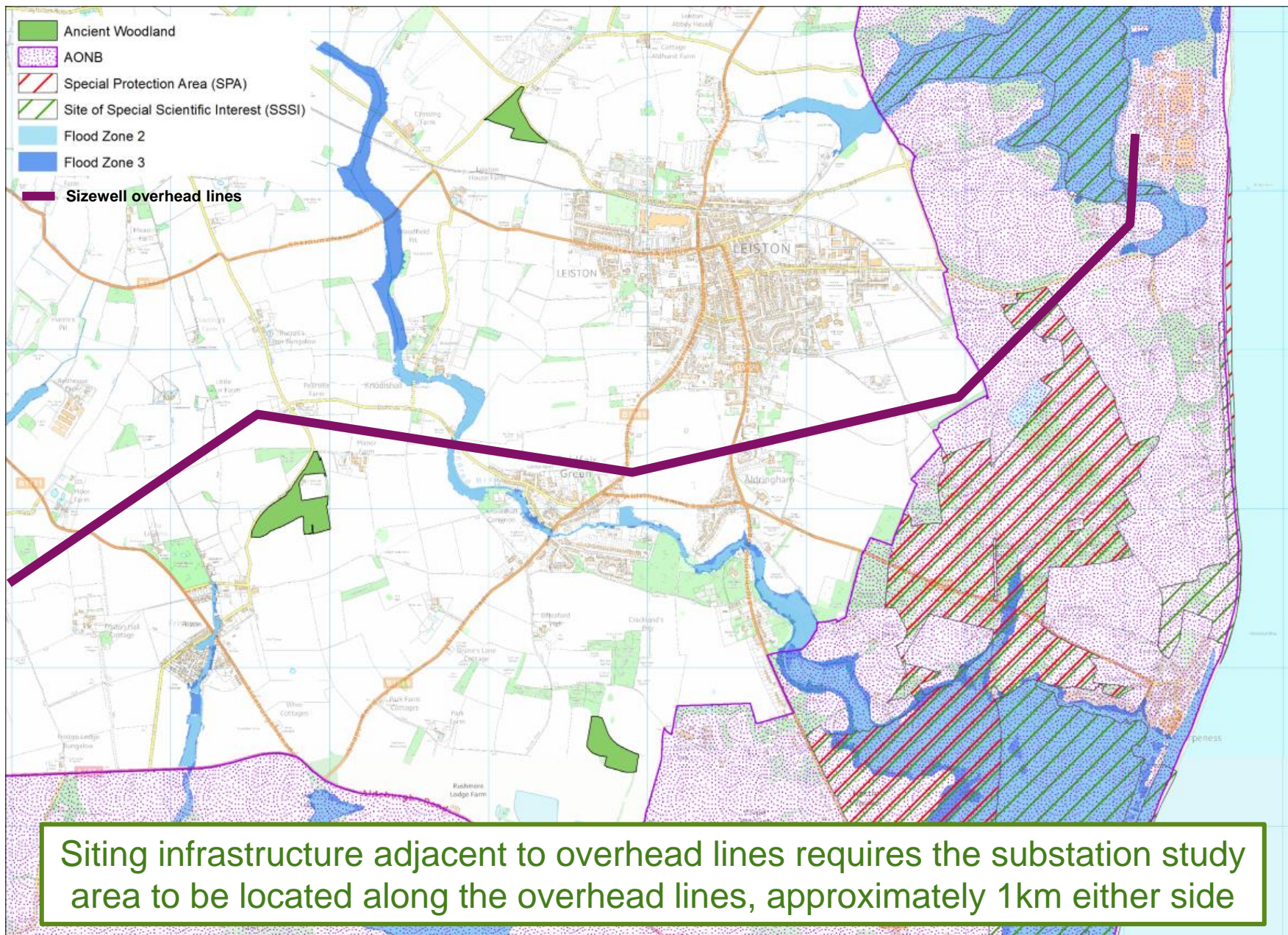
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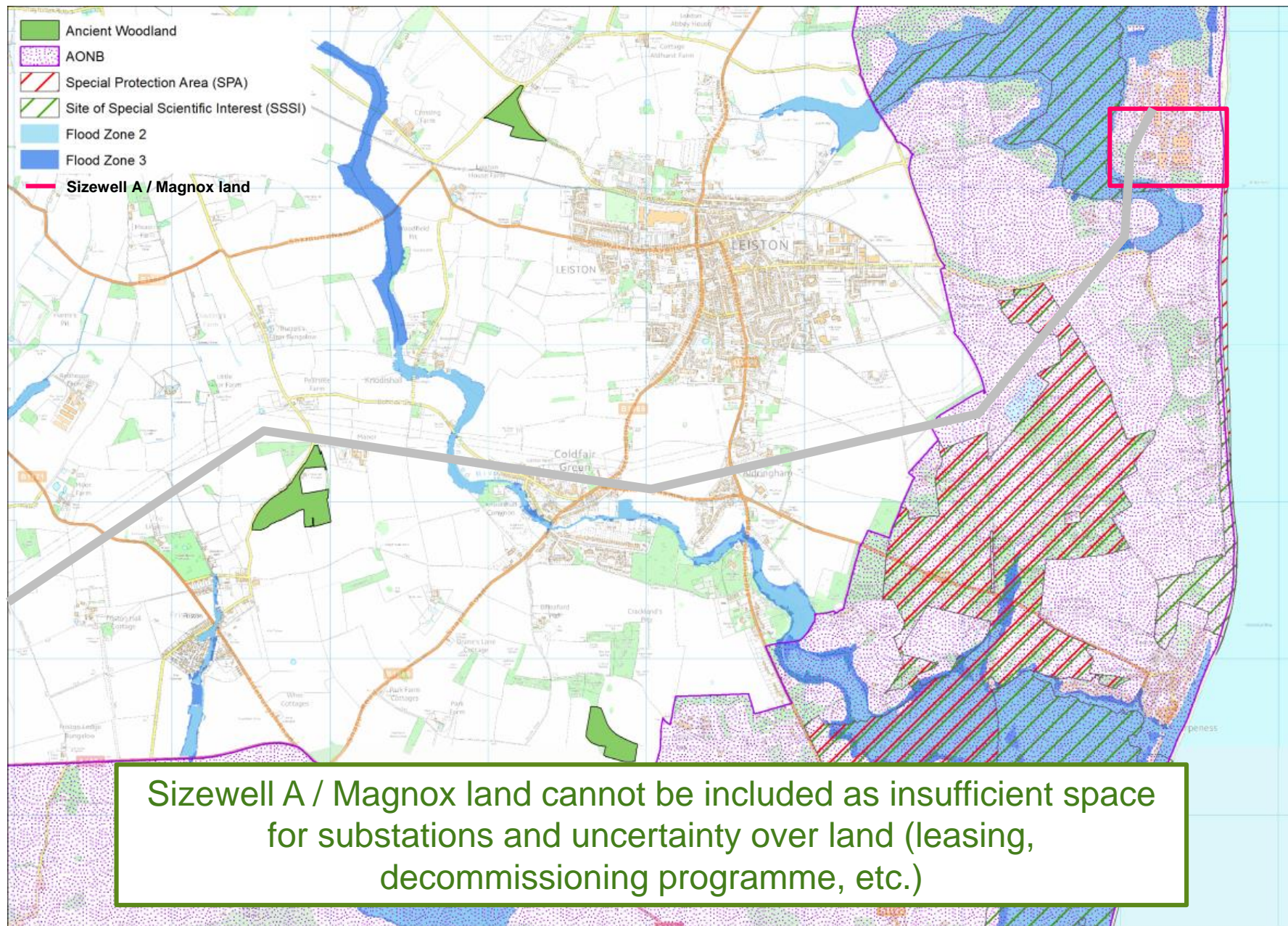
Onshore Substation Site Selection

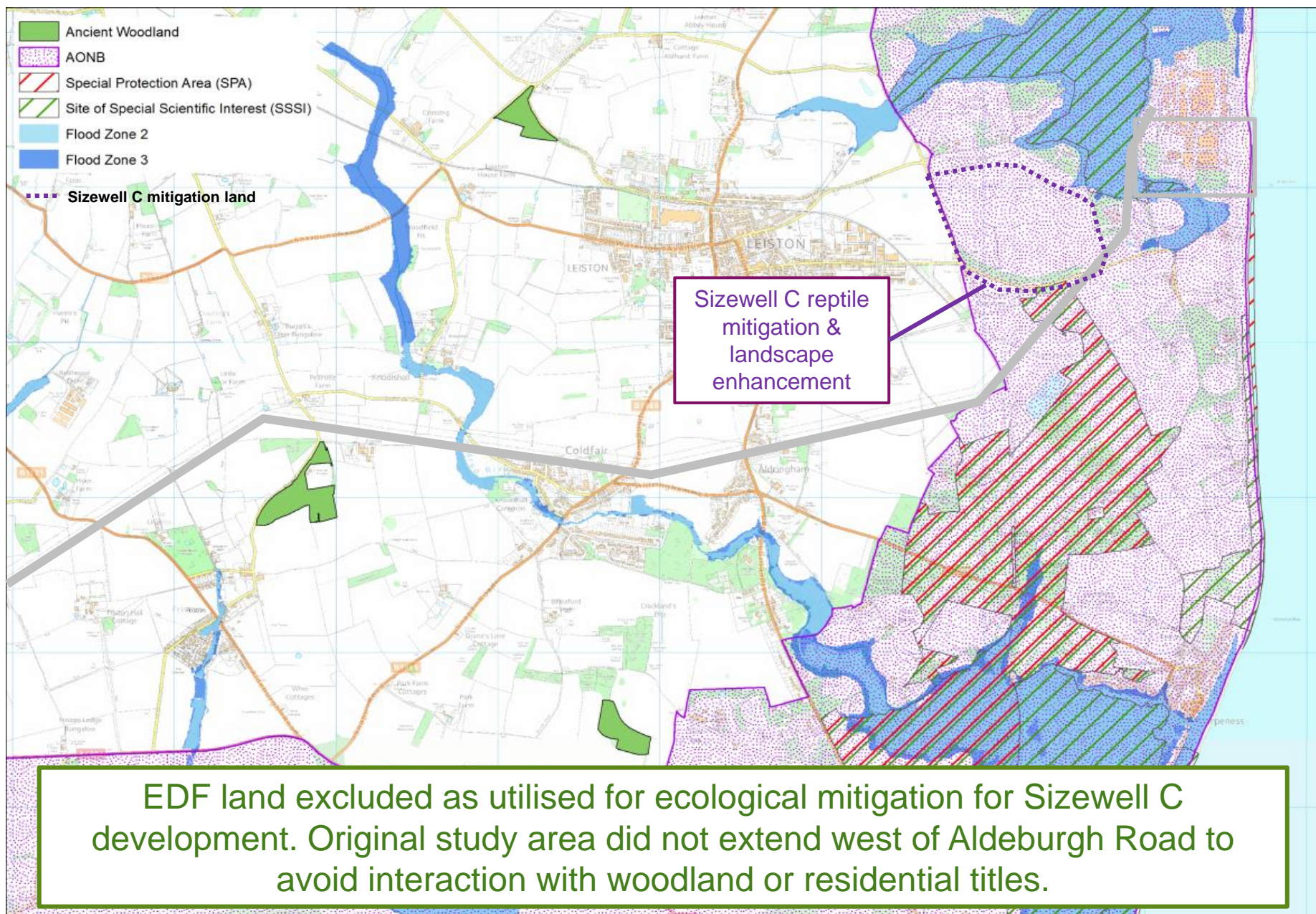
Overview of Site Selection Process

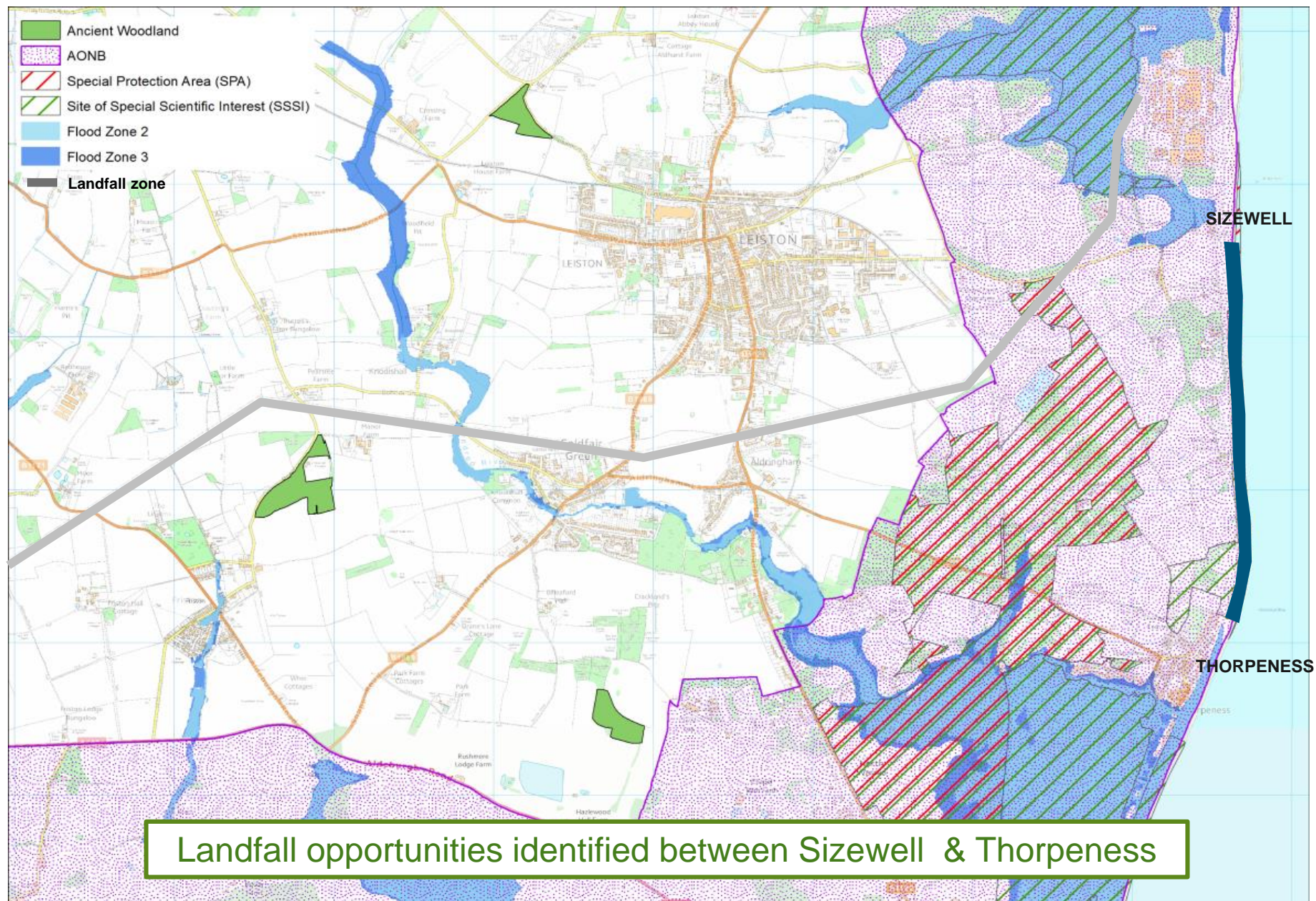
The onshore substation site has been selected by following a robust site selection process. The process is set out below and is described in the following slides

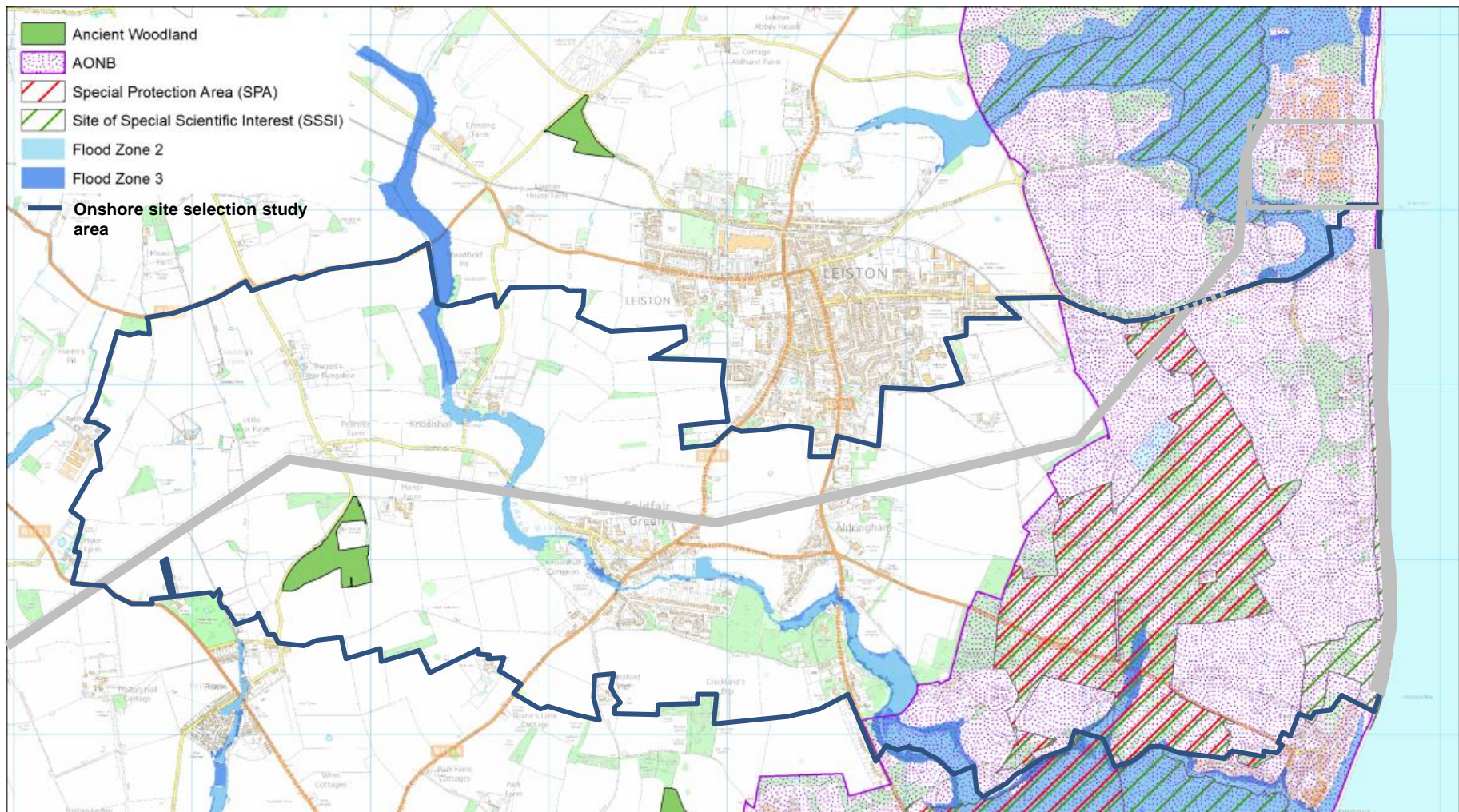




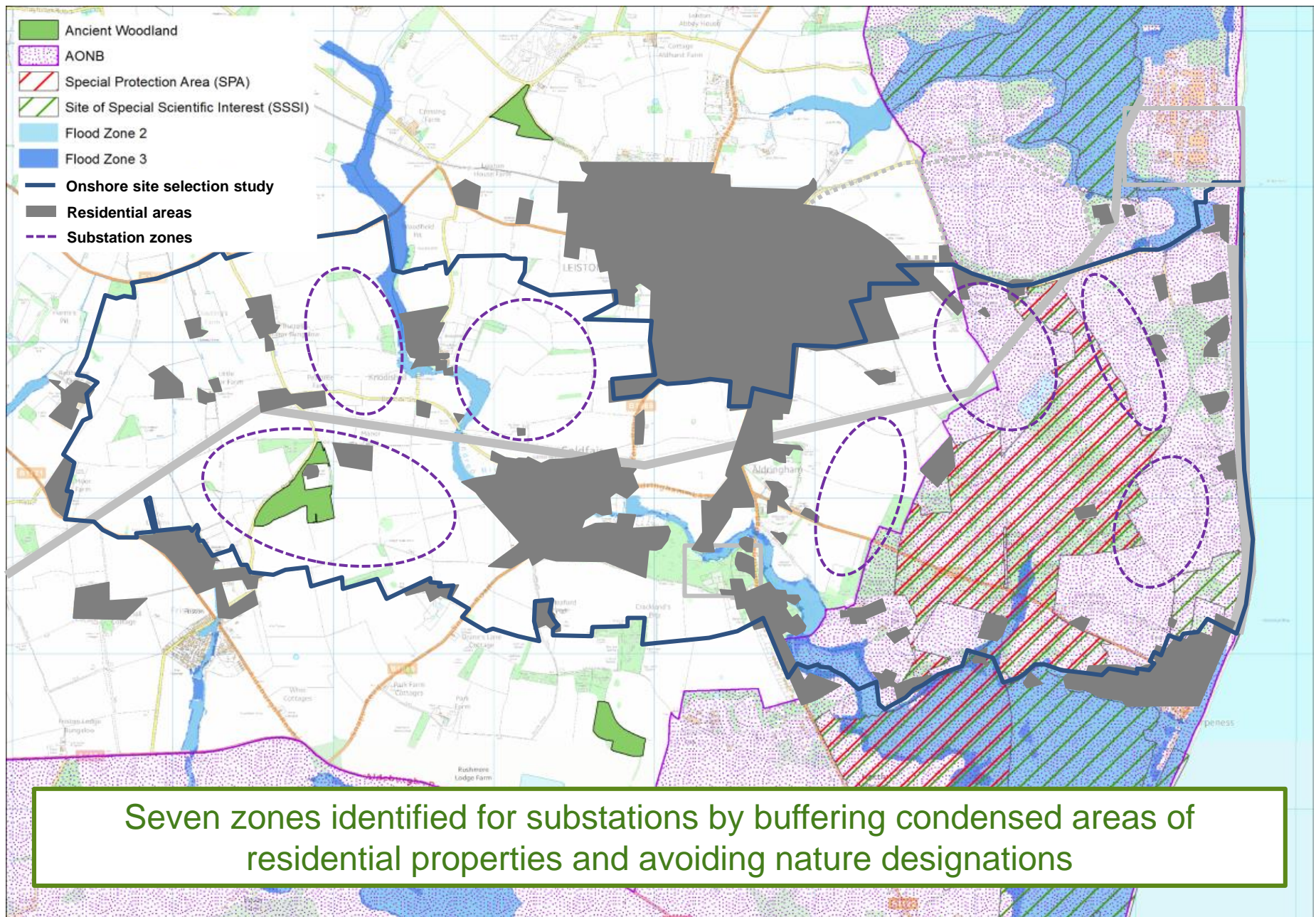


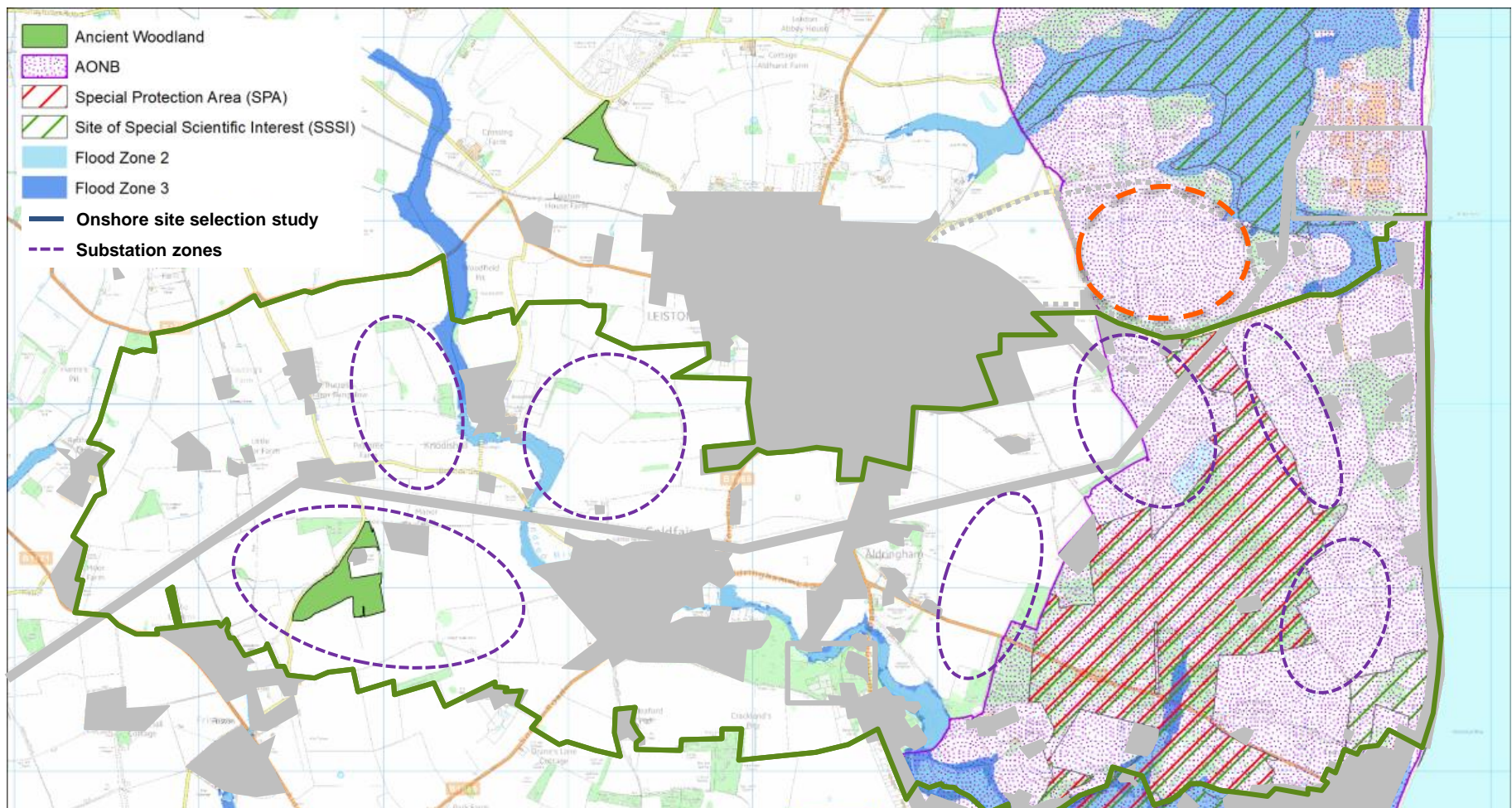




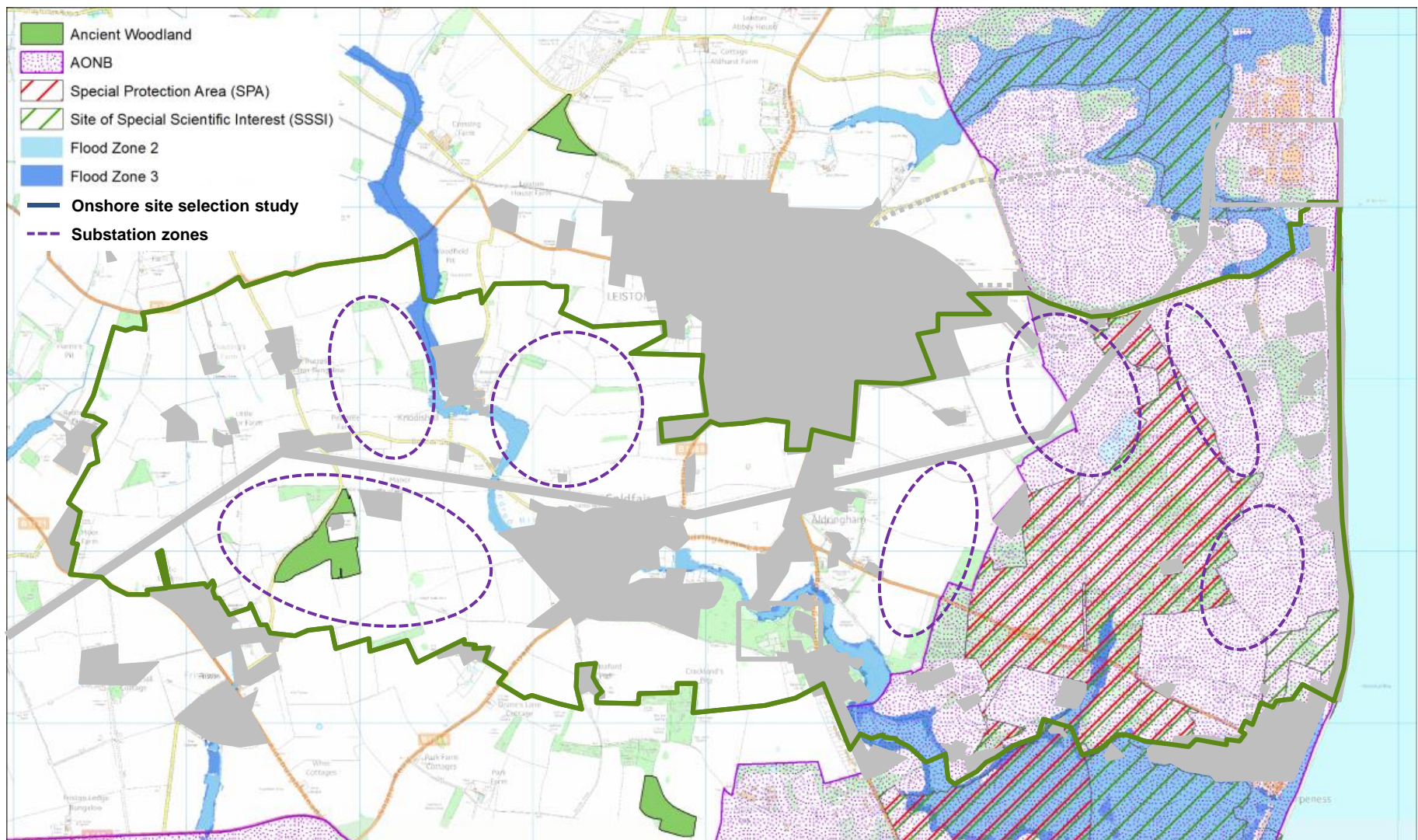


LPA asked SPR to extend Study Area west of Aldeburgh Road due to concerns on potential impacts to siting in or near the AONB. This Study Area was displayed in the Statement of Community Consultation and at the Phase 1 Public Information Days

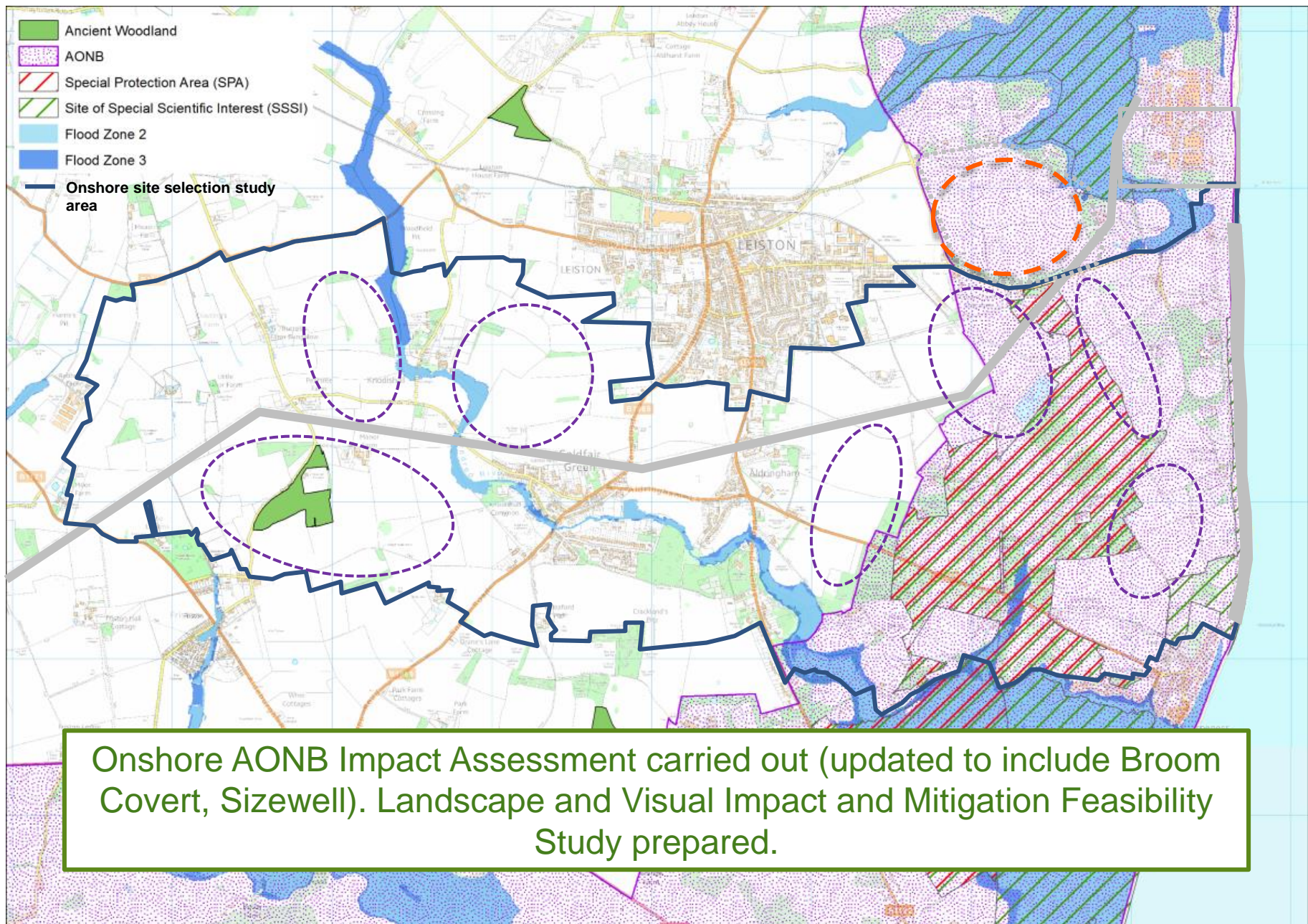


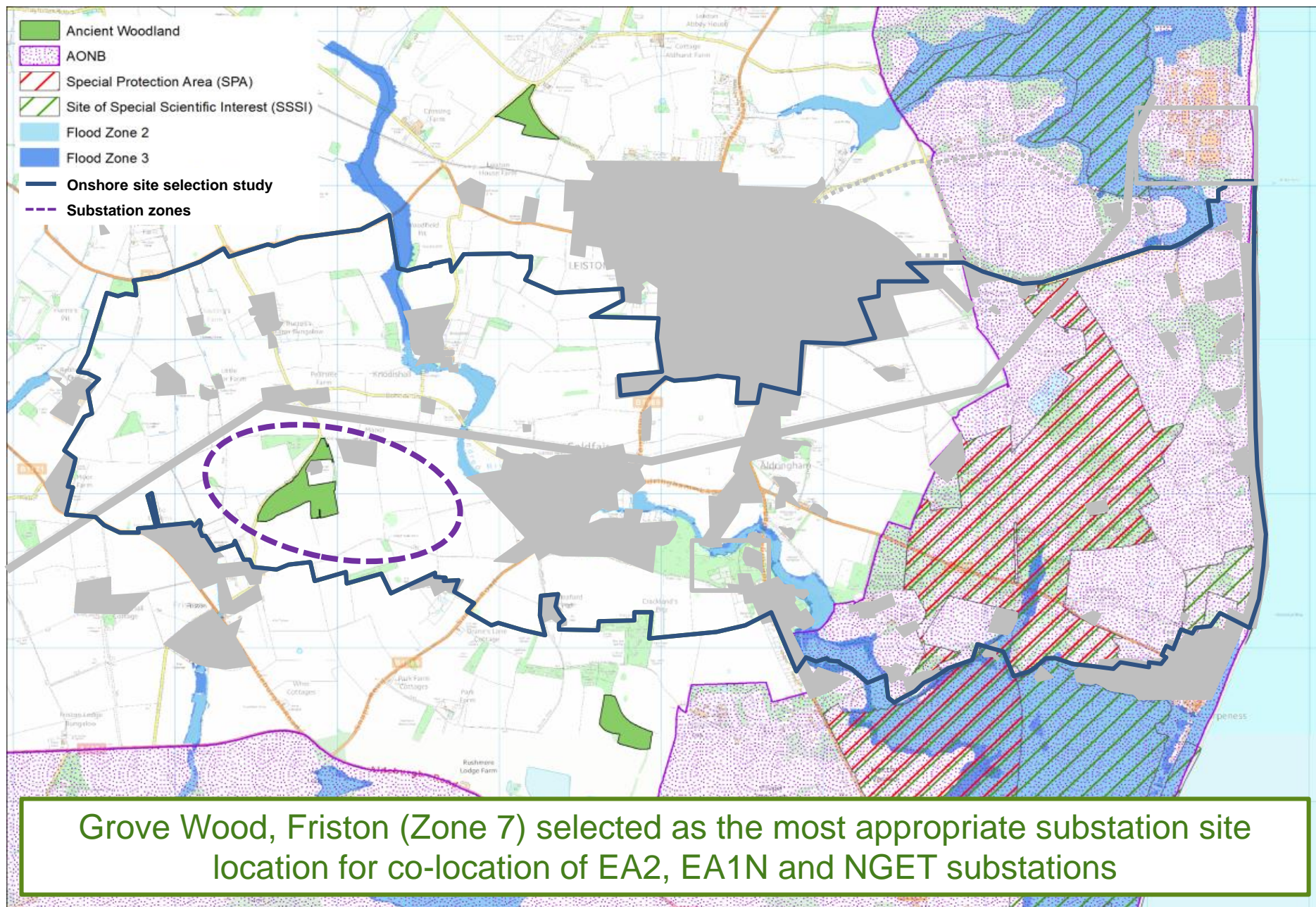


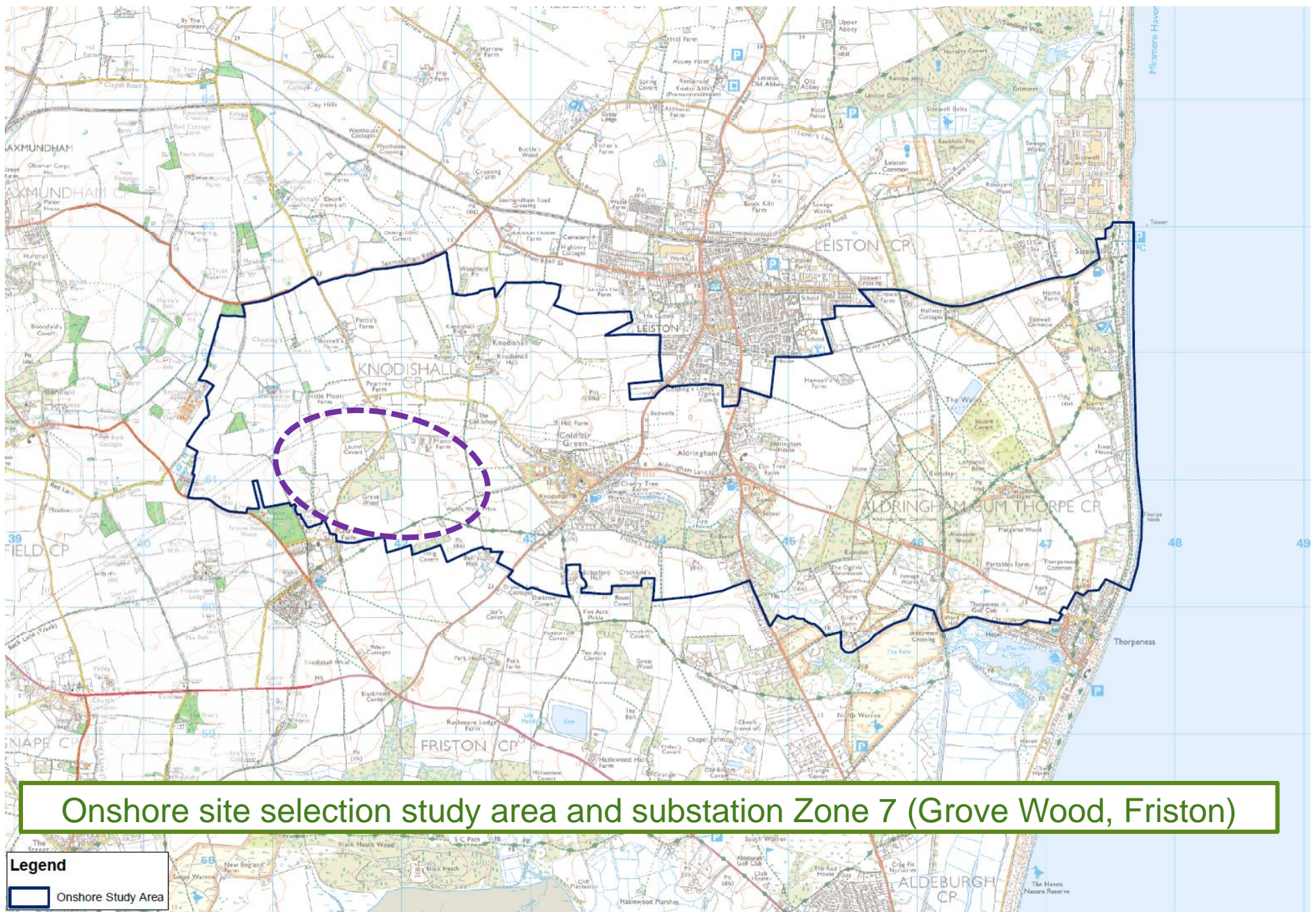
Site Selection RAG assessment was undertaken for potential substation sites (updated to include Broom Covert, Sizewell) by a team of specialists to compare substation zones. The RAG assessment does not select the site, but it does allow a clear and direct comparison between each substation zone inform subsequent selection work.



Phase 2 consultation presented these seven zones as options and sought feedback from statutory, non-statutory consultees and the public on a preferred zone

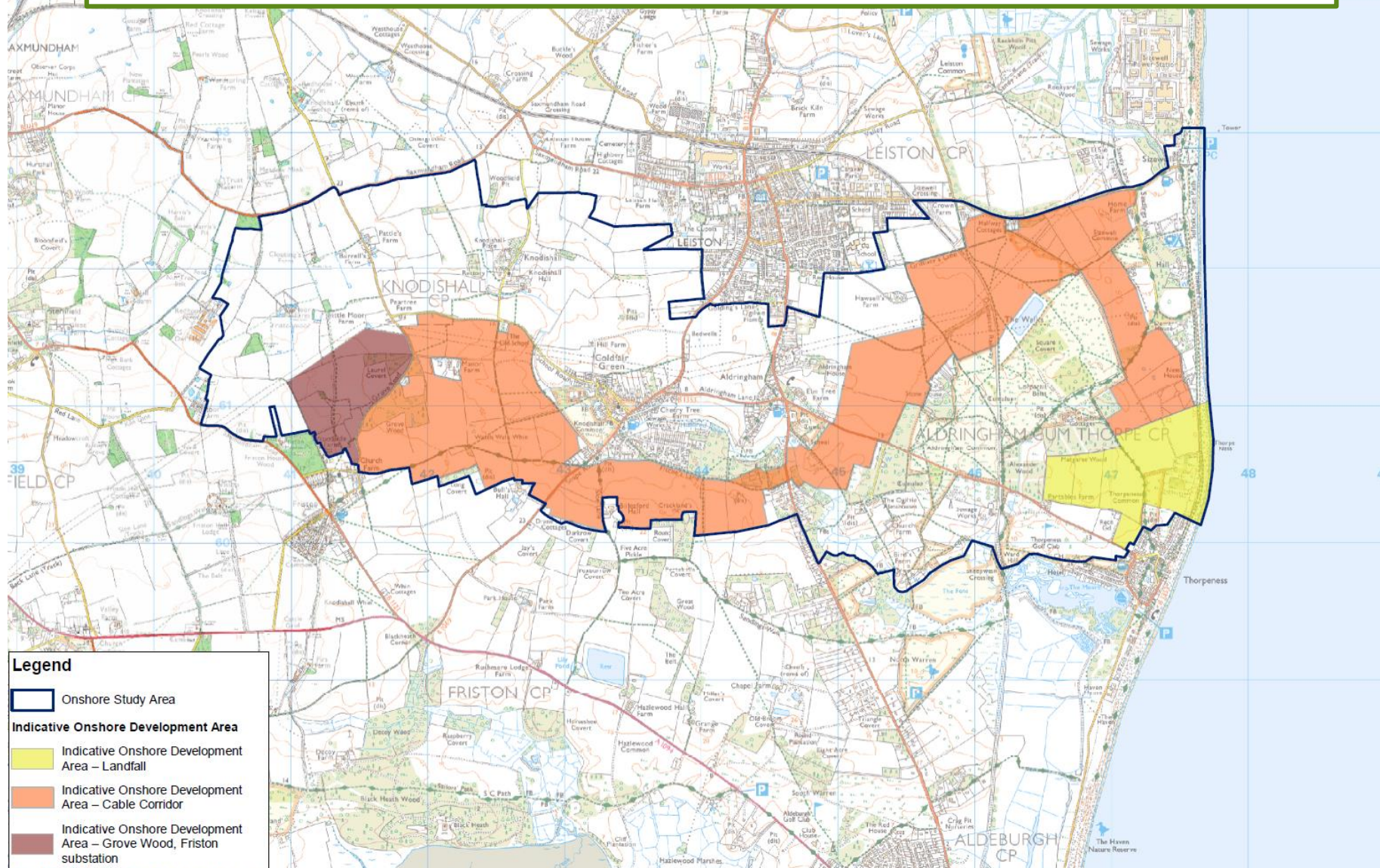




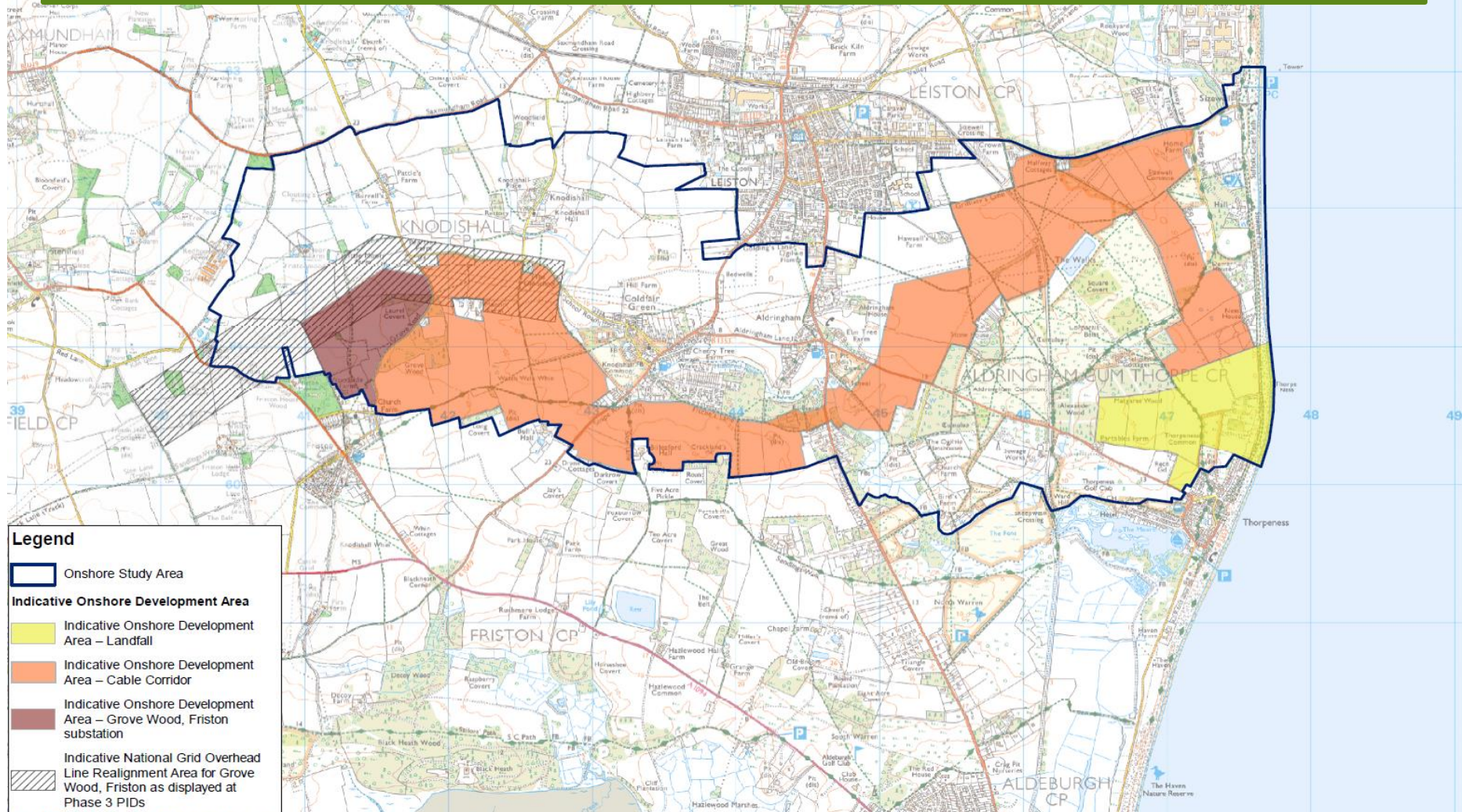


Onshore site selection study area and substation Zone 7 (Grove Wood, Friston)

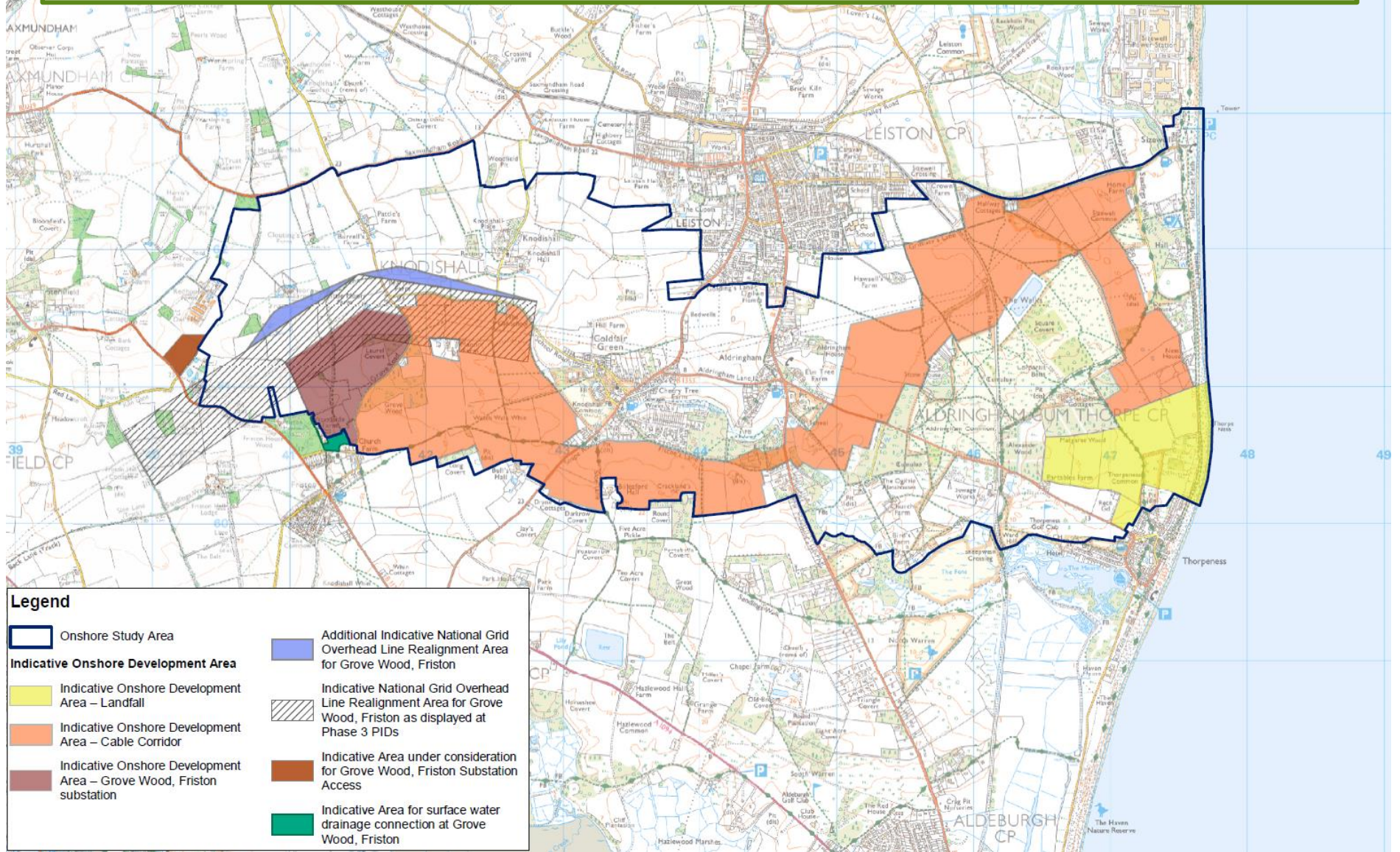
Indicative landfall, onshore cable route and substation areas identified



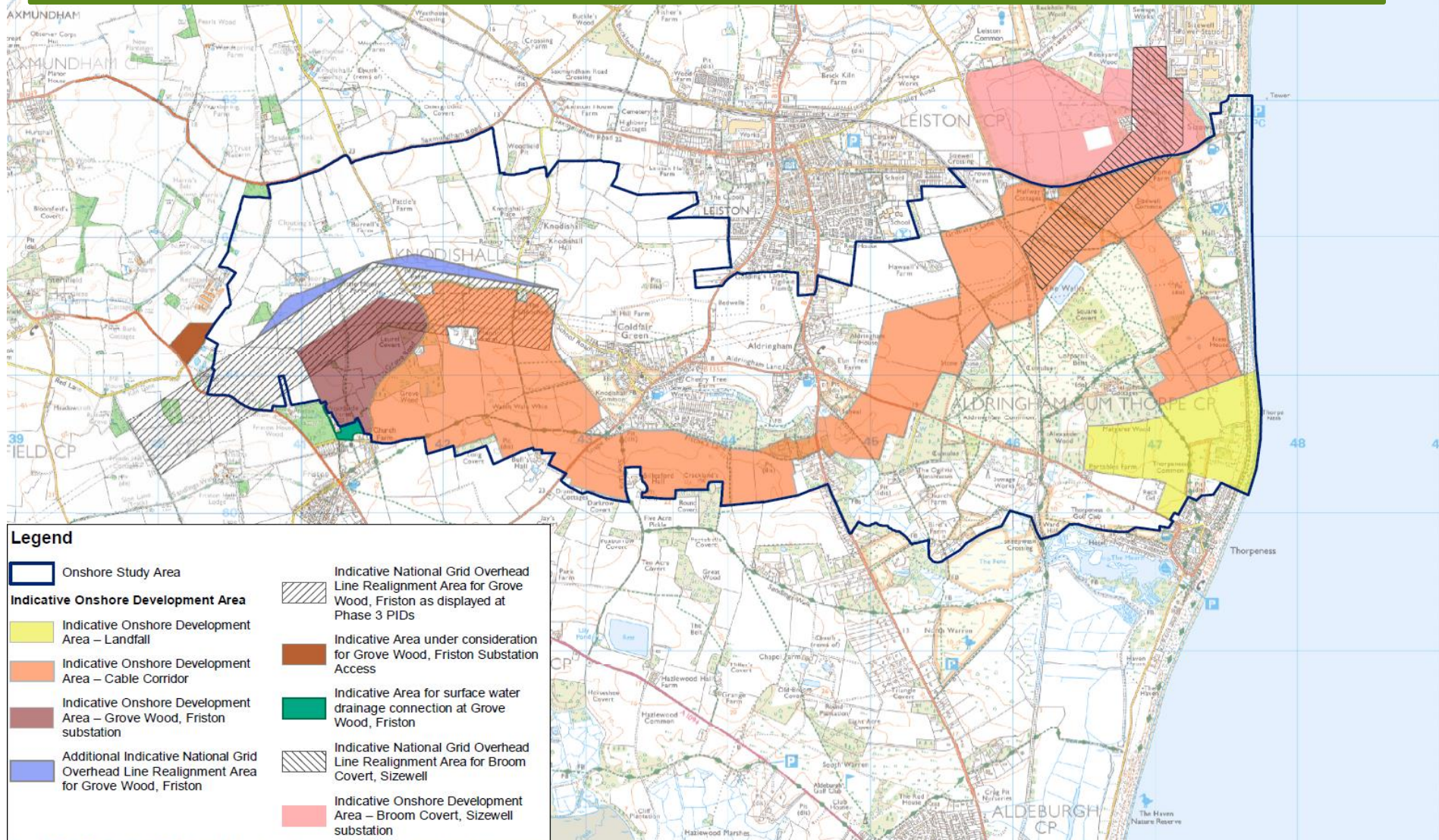
National Grid provided an indicative overhead line realignment area associated with connecting the National Grid substation to the wider electricity network. This figure was published at the Phase 3 Public Information Days



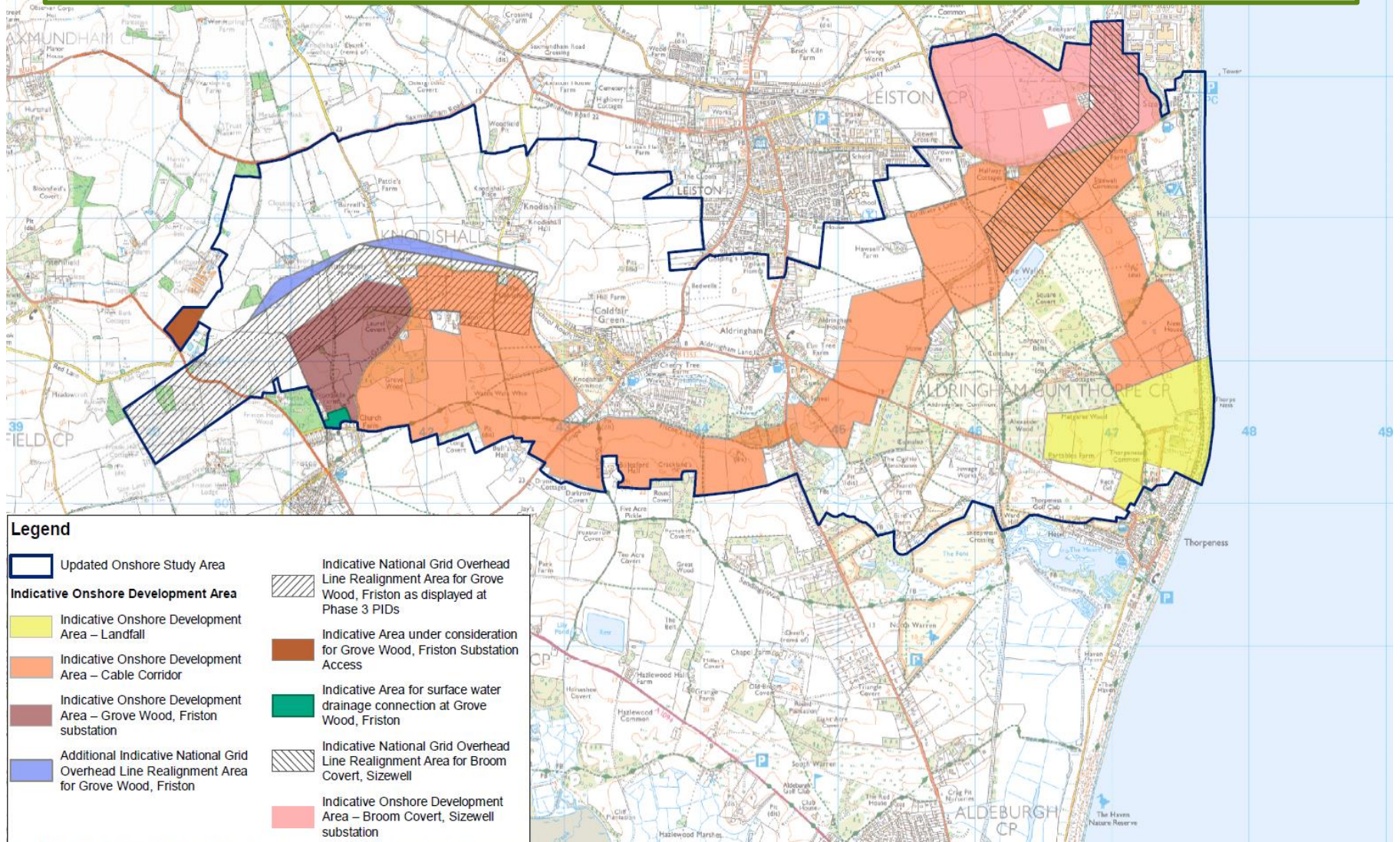
Additional areas identified for the overhead line realignment area, drainage and access requirements



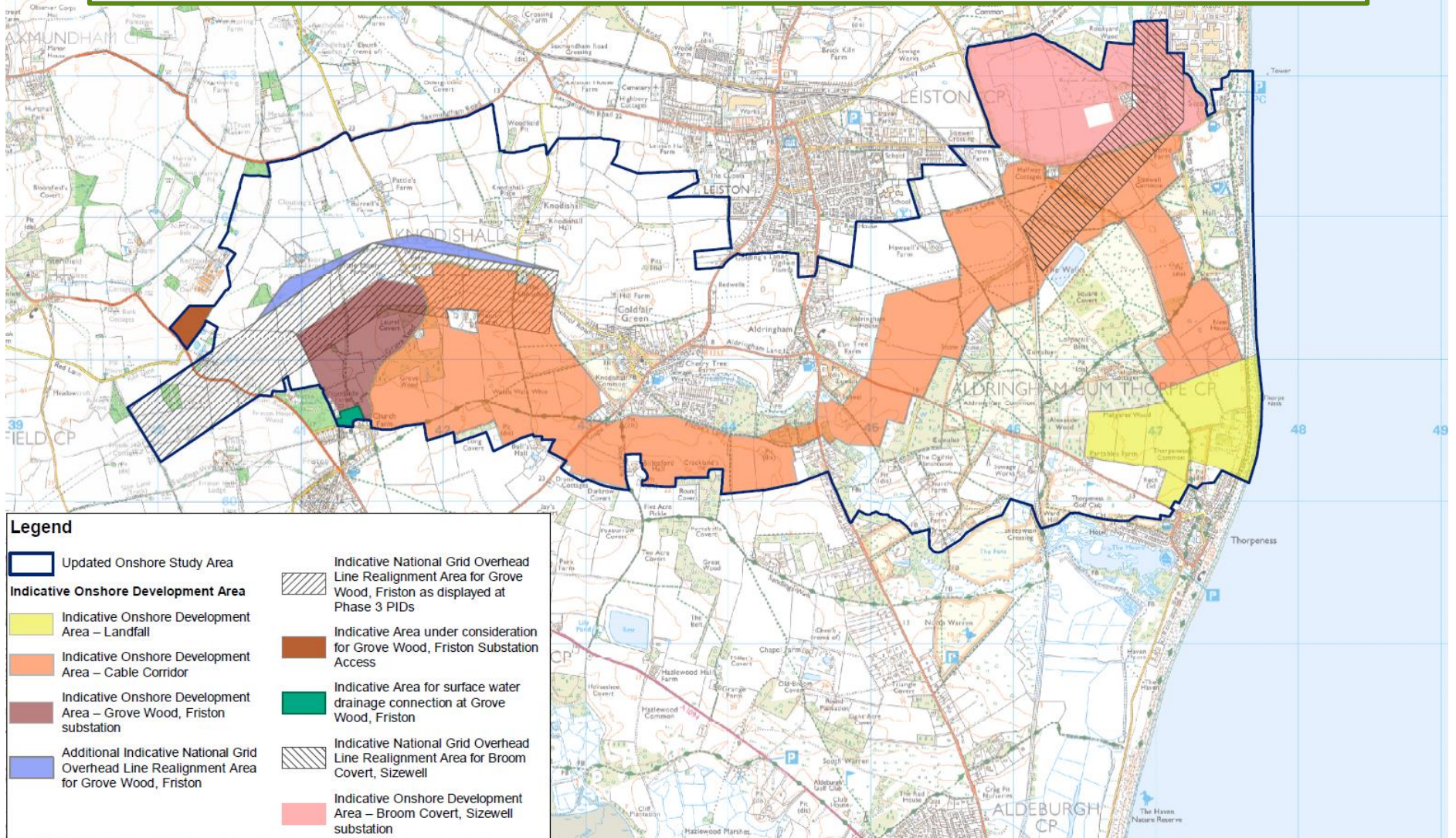
An alternative substation site location was identified, at Broom Covert, Sizewell (including associated overhead line realignment area received from National Grid)



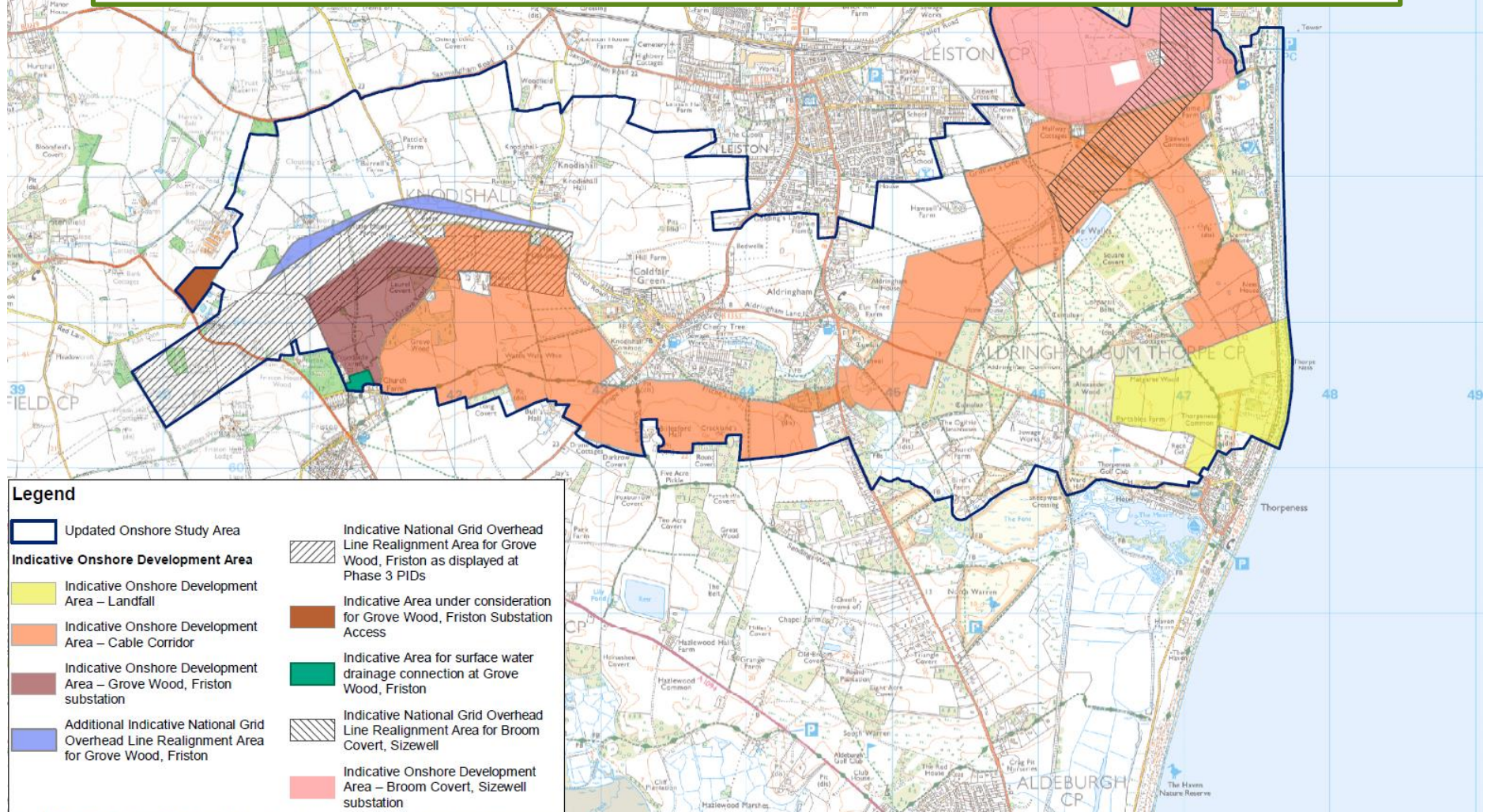
Onshore Study Area updated in light of additional identified areas. This Onshore Study Area defined the area for the Updated Statement of Community Consultation published in September 2018



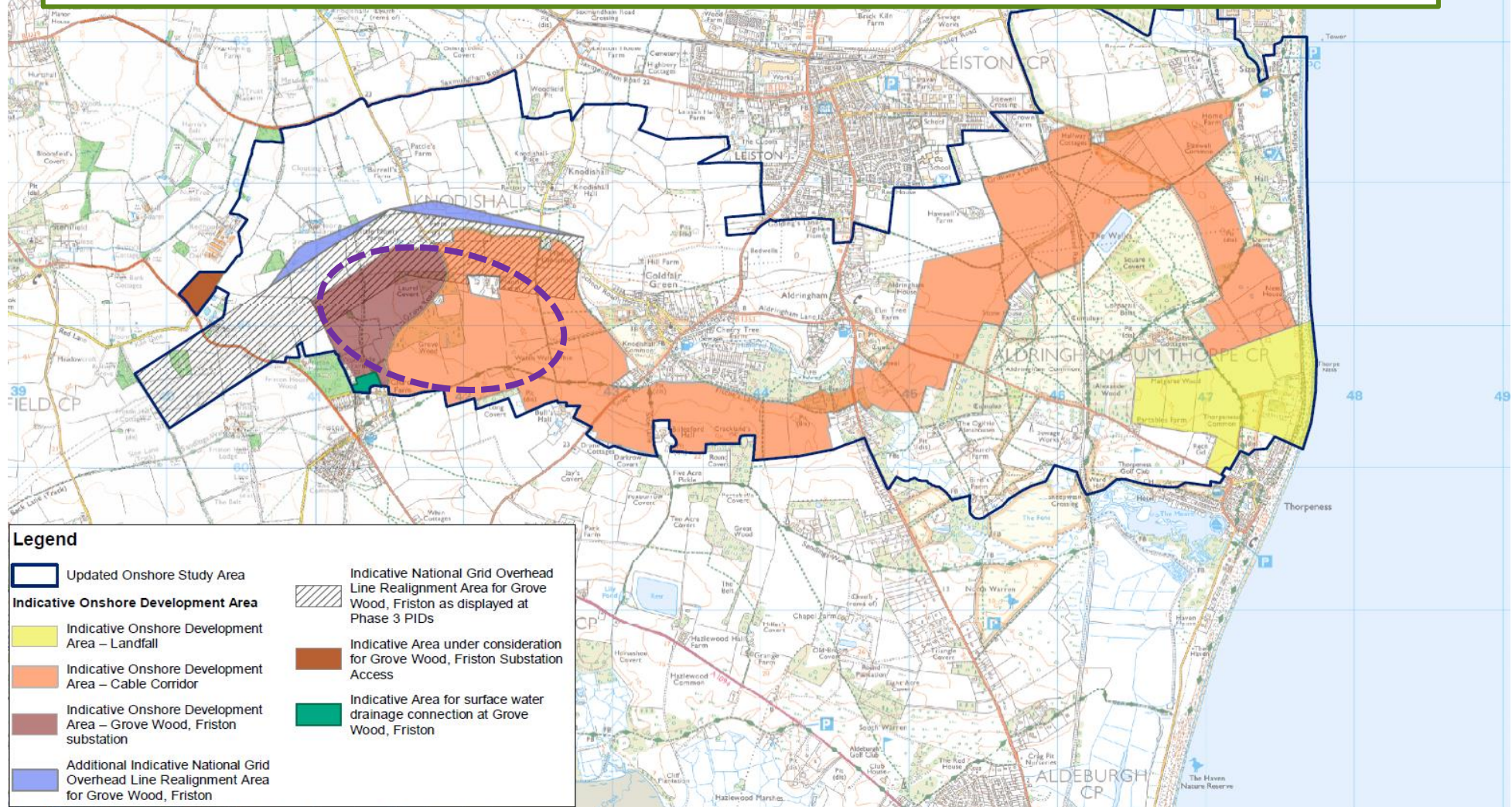
Feasibility of alternative substation site at Broom Covert, Sizewell explored alongside Grove Wood, Friston. Phase 3.5 Consultation carried out to gather views on both sites



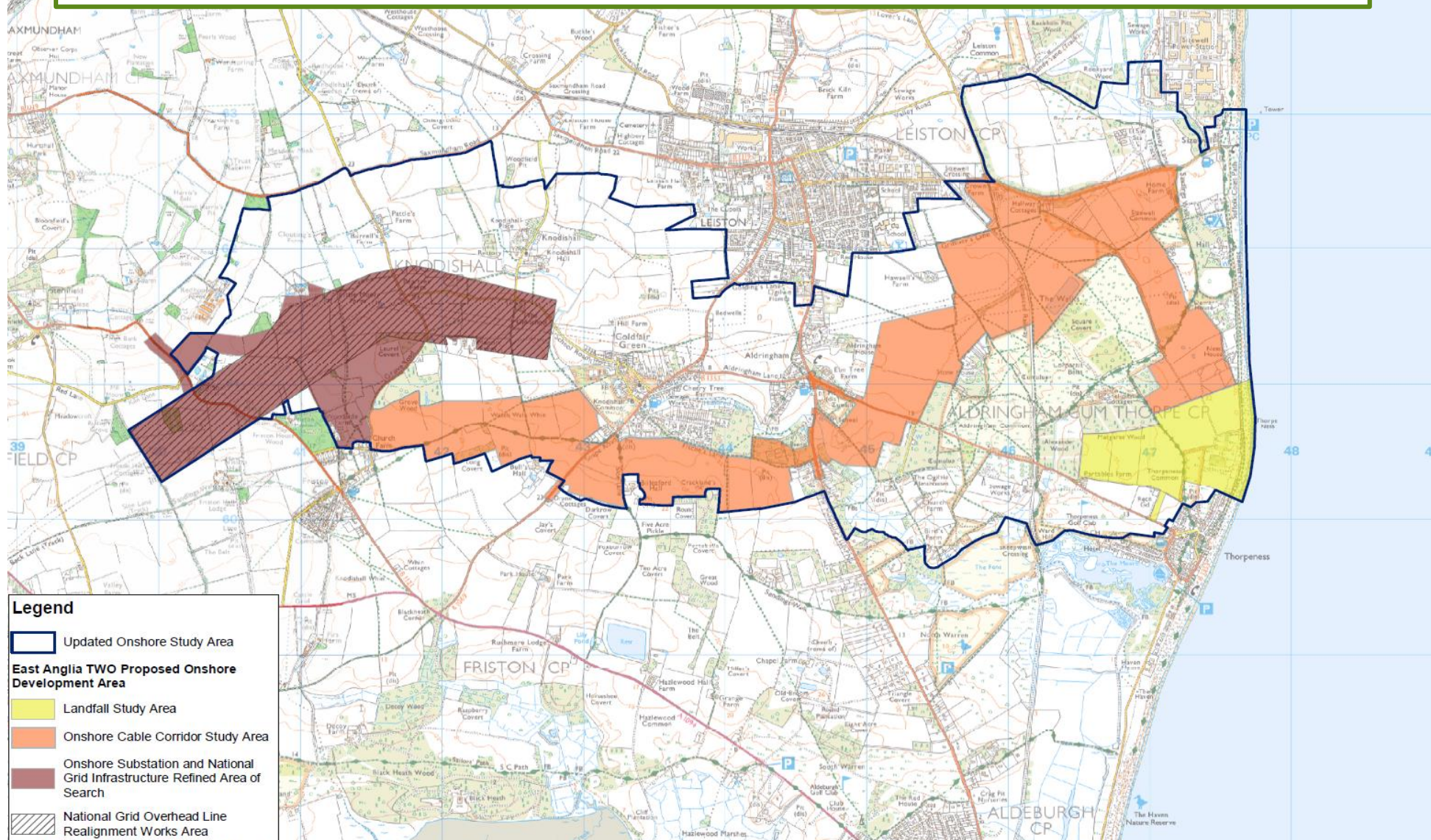
Confirmation of the viability of Grove Wood, Friston undertaken considering aspects such as land, critical path programme, key policy, design/constructing, operations, and commercial viability/cost considerations.



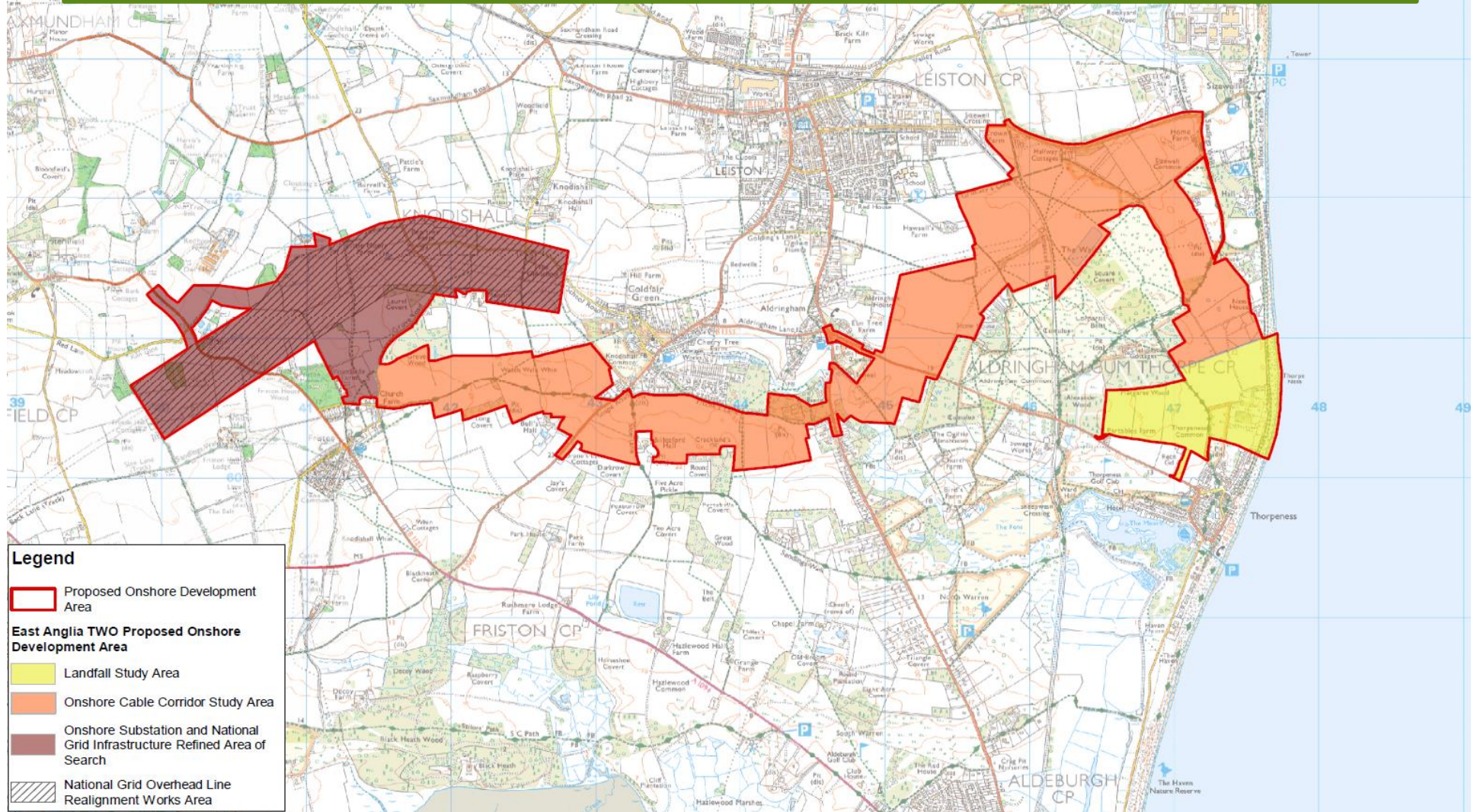
In accordance with policies set out in NPS-EN1 (regarding protection of the AONB) and based on extensive advice and stakeholder engagement during our Phase 3.5 consultation, it was decided that the Grove Wood, Friston site offers on balance the most appropriate option for substation development



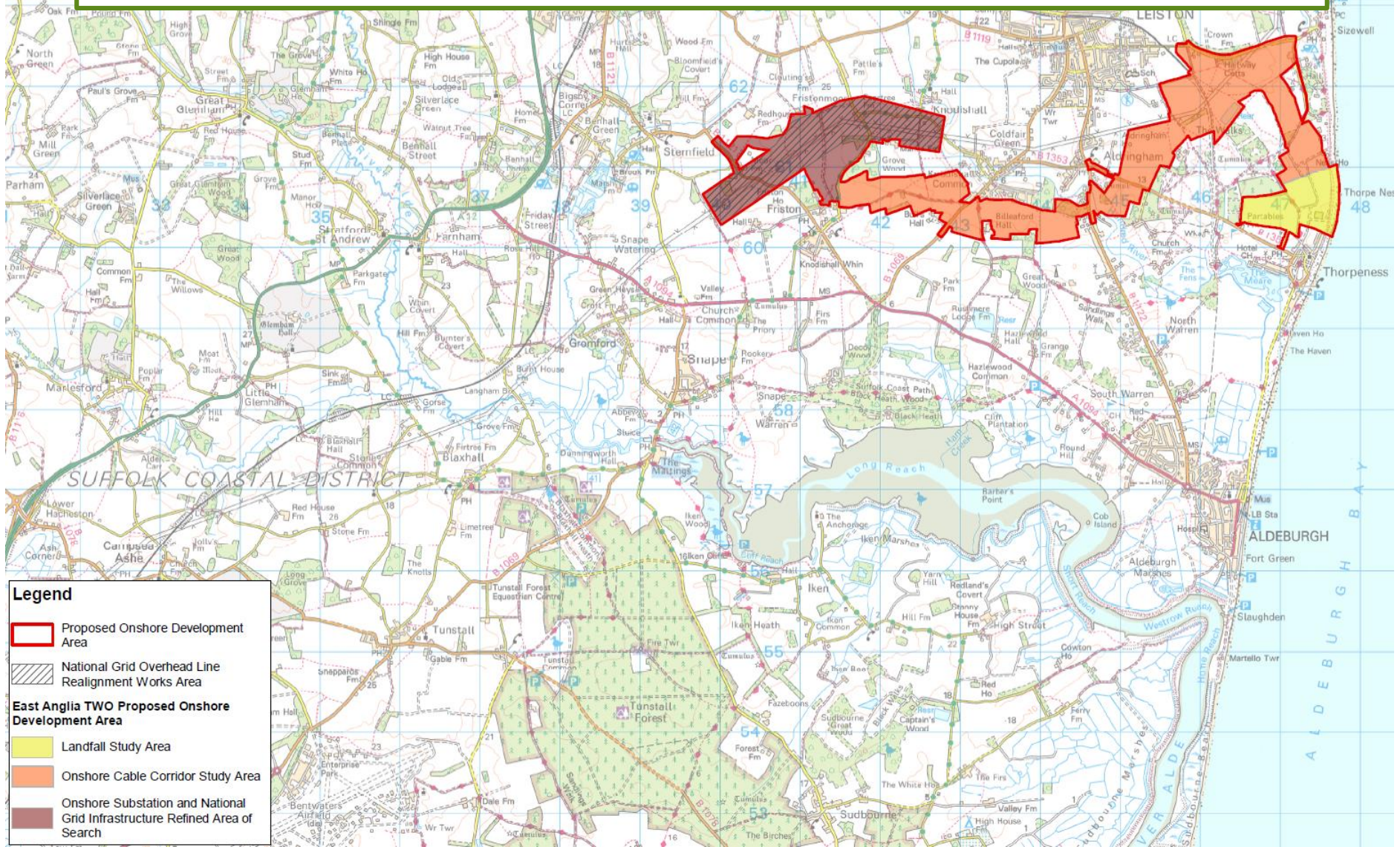
Additional areas identified following feedback from Phase 3.5 consultation, predominantly in relation to traffic & transport construction and operation access



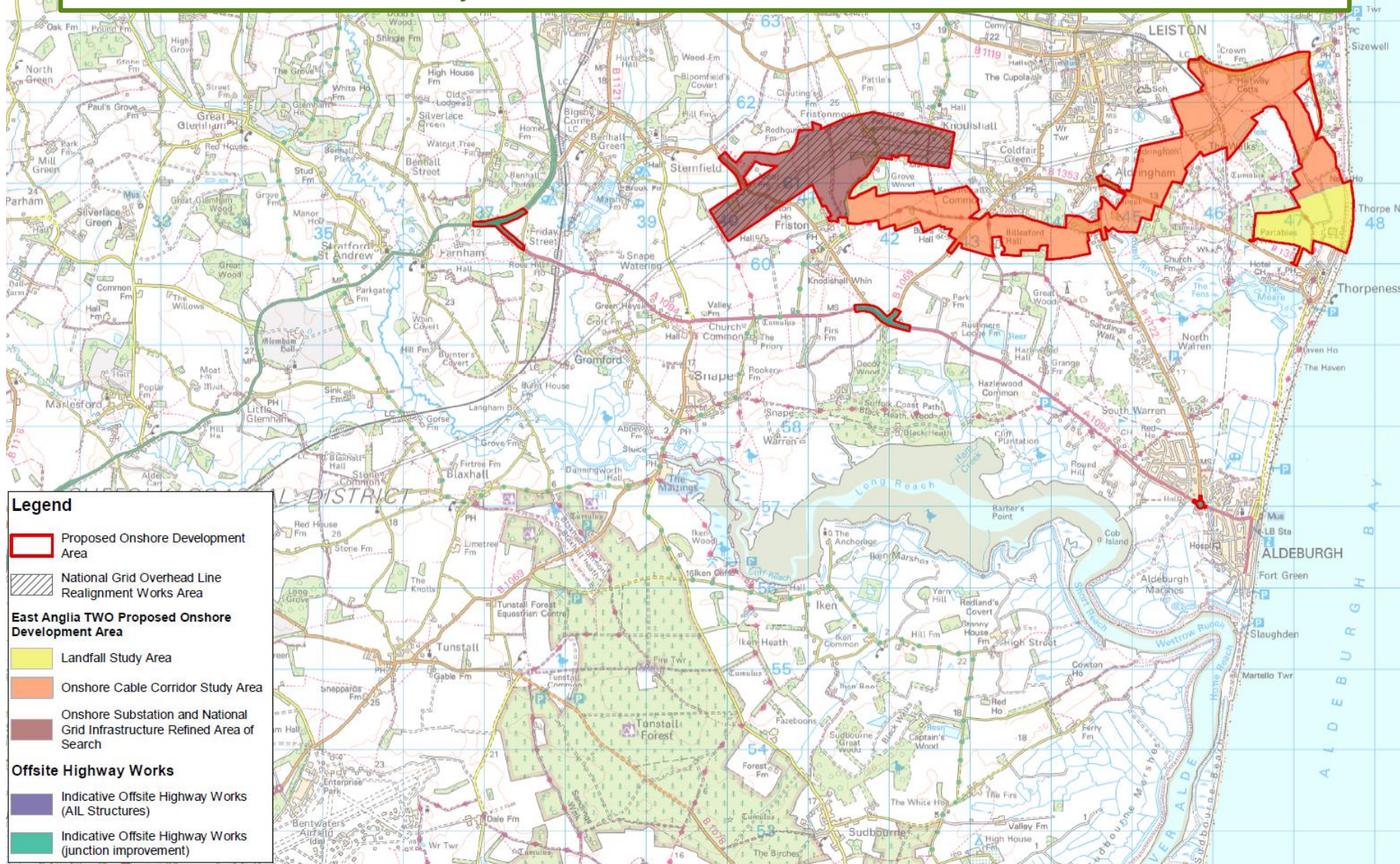
Proposed Onshore Development Area (for landfall, cable corridor and substation area) defined for drafting the Preliminary Environmental Information Report and topic assessments



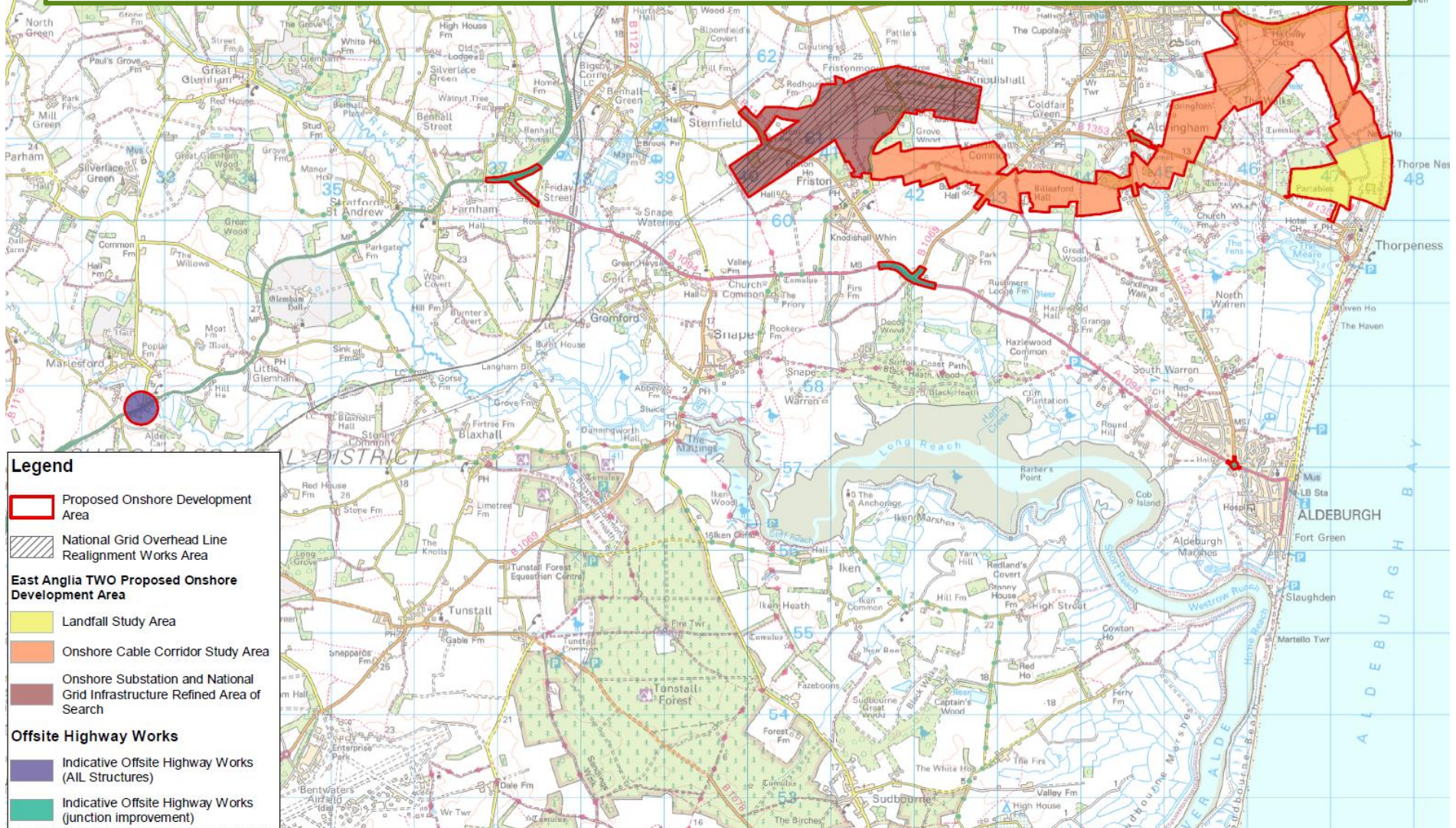
Further work with respect to Traffic & Transport identified additional areas (on a wider scale) to be included in the Proposed Onshore Development Area



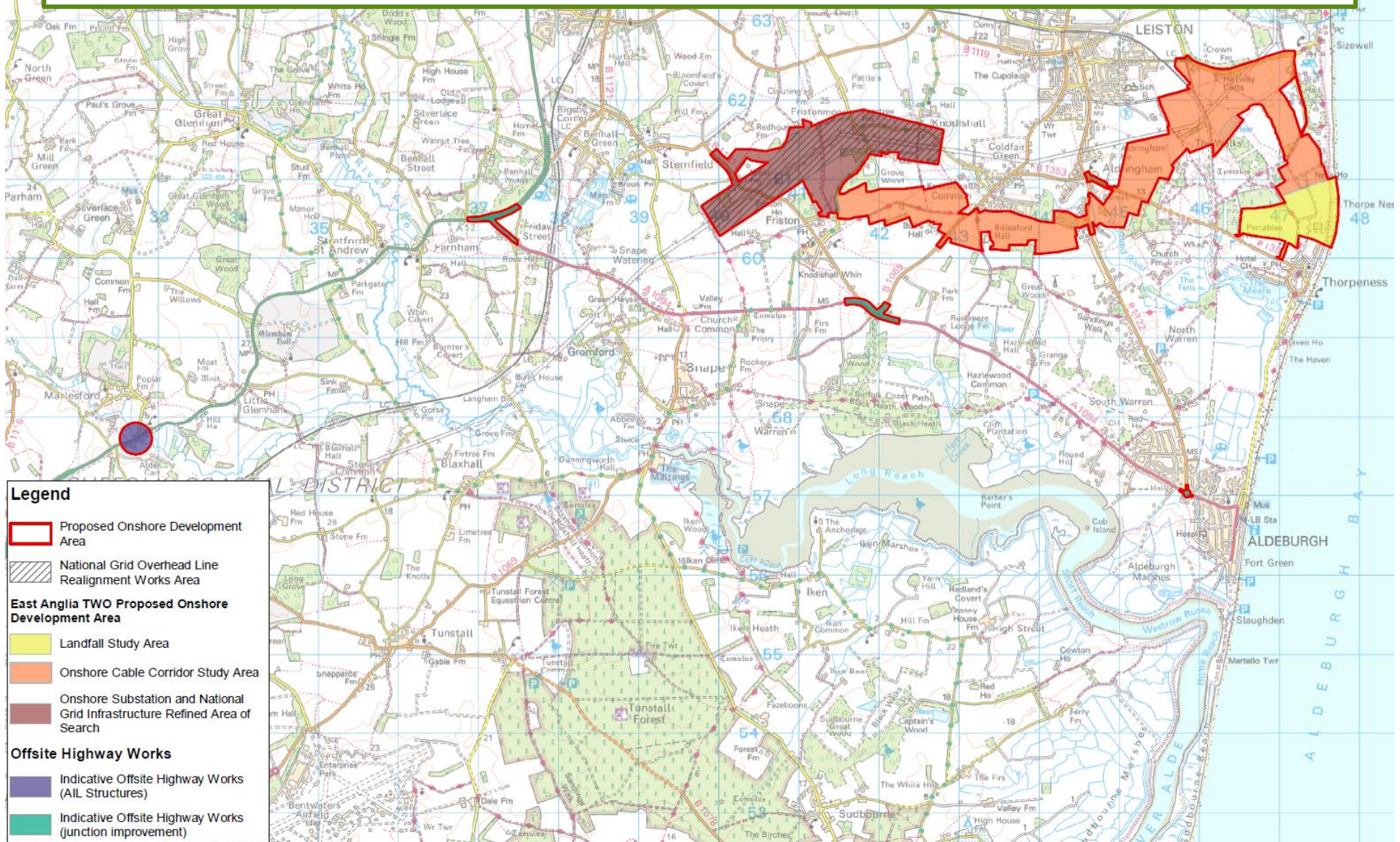
Offsite highway junction improvement works identified to enable construction traffic access via junctions on the A12, A1094, B1069 and B1122.



Road bridge on A12 at Marlesford identified as requiring further investigation to establish whether strengthening works are required to allow Abnormal Indivisible Loads (i.e. transformers) to pass over it



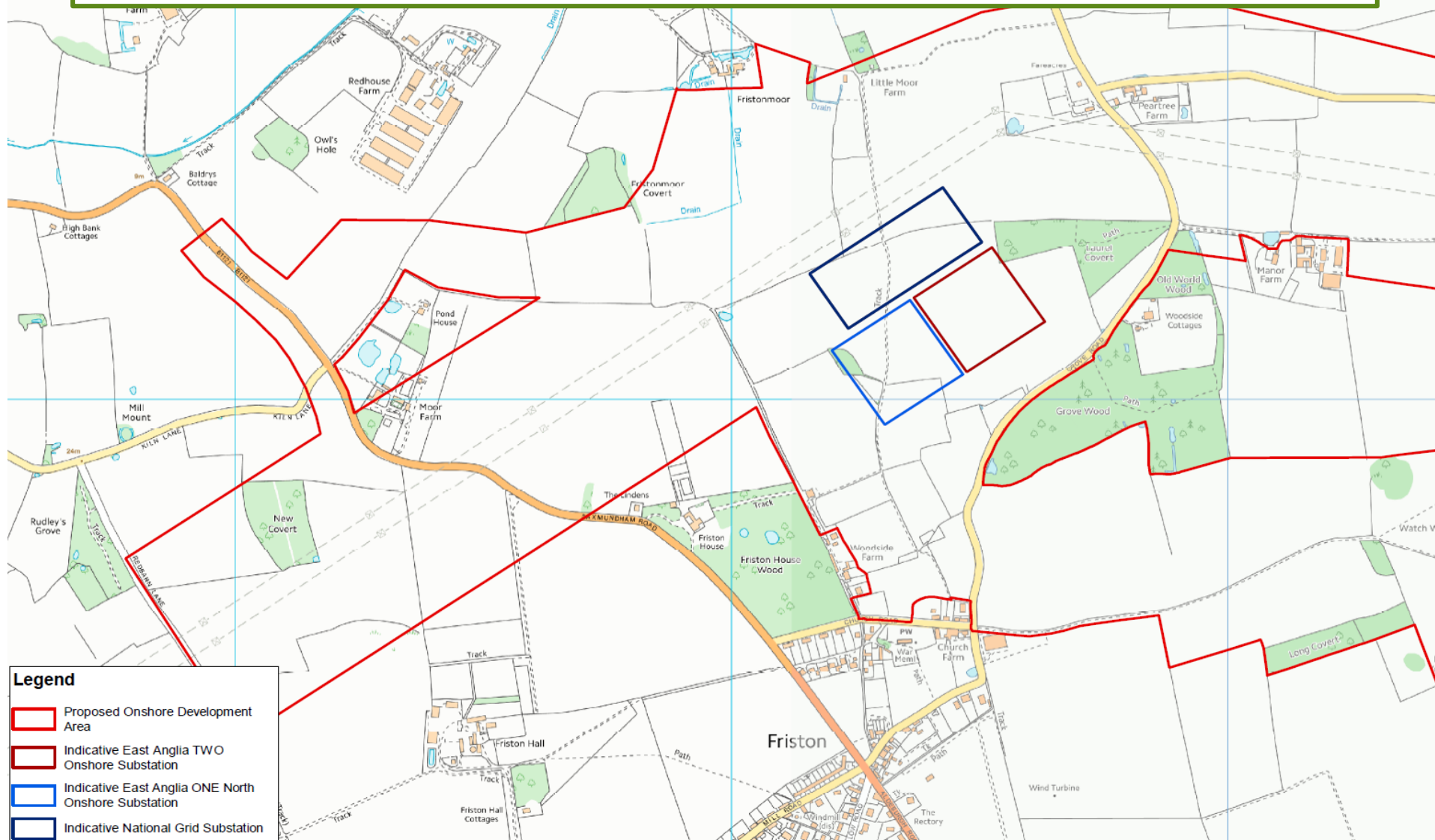
Proposed Onshore Development Area defined for drafting the Preliminary Environmental Information Report and topic assessments



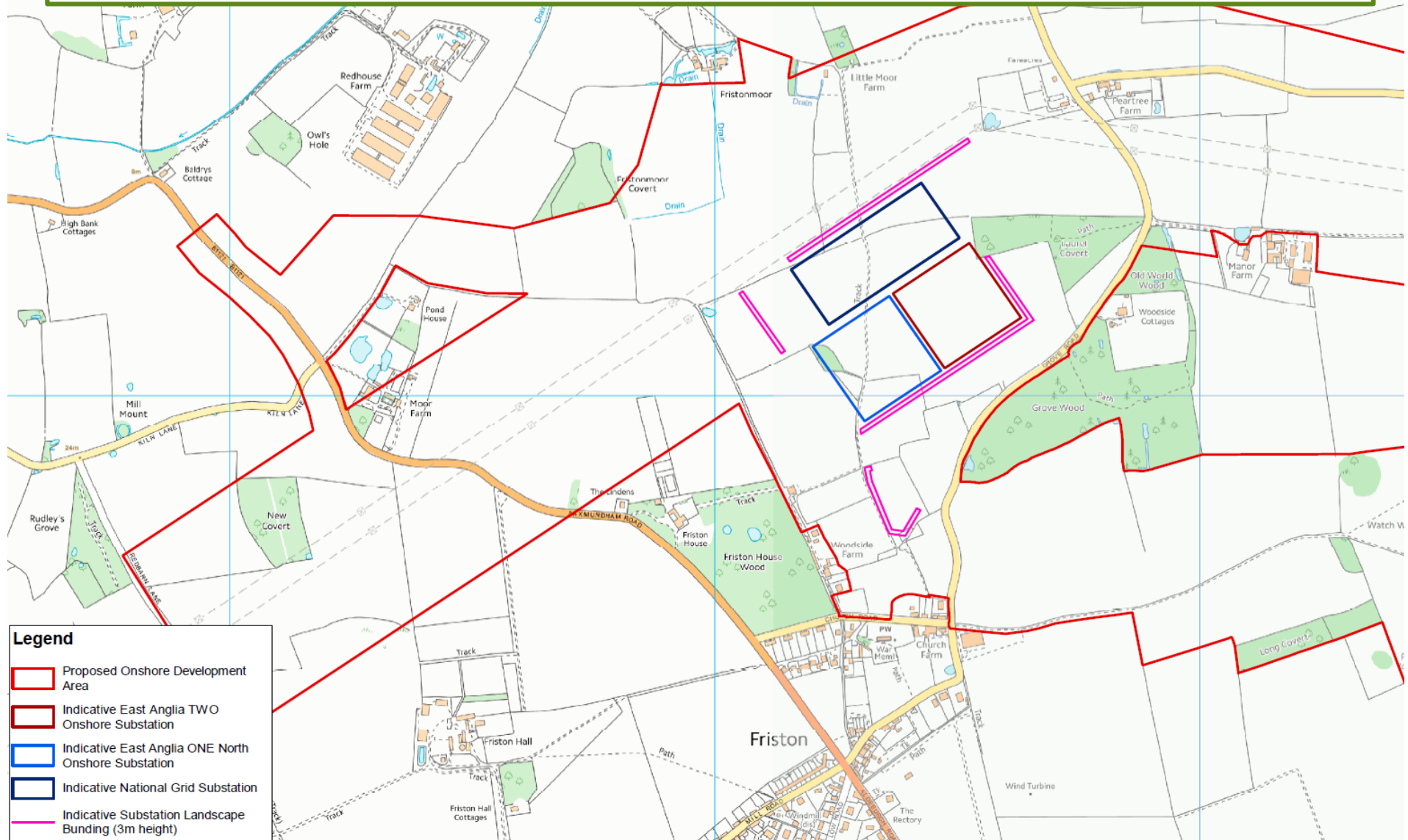
Indicative Substation Masterplan

The indicative substation masterplan has been developed following feedback from Phase 3.5 consultation. SPR have engaged with all statutory consultees to explain our approach and obtain feedback through the Expert Topic Group process.

East Anglia TWO, East Anglia ONE North and National Grid substation located west of Grove Wood and north of Friston village



Potential locations for 3m high bunds identified for use of excavated spoil generated by levelling of the substation platforms

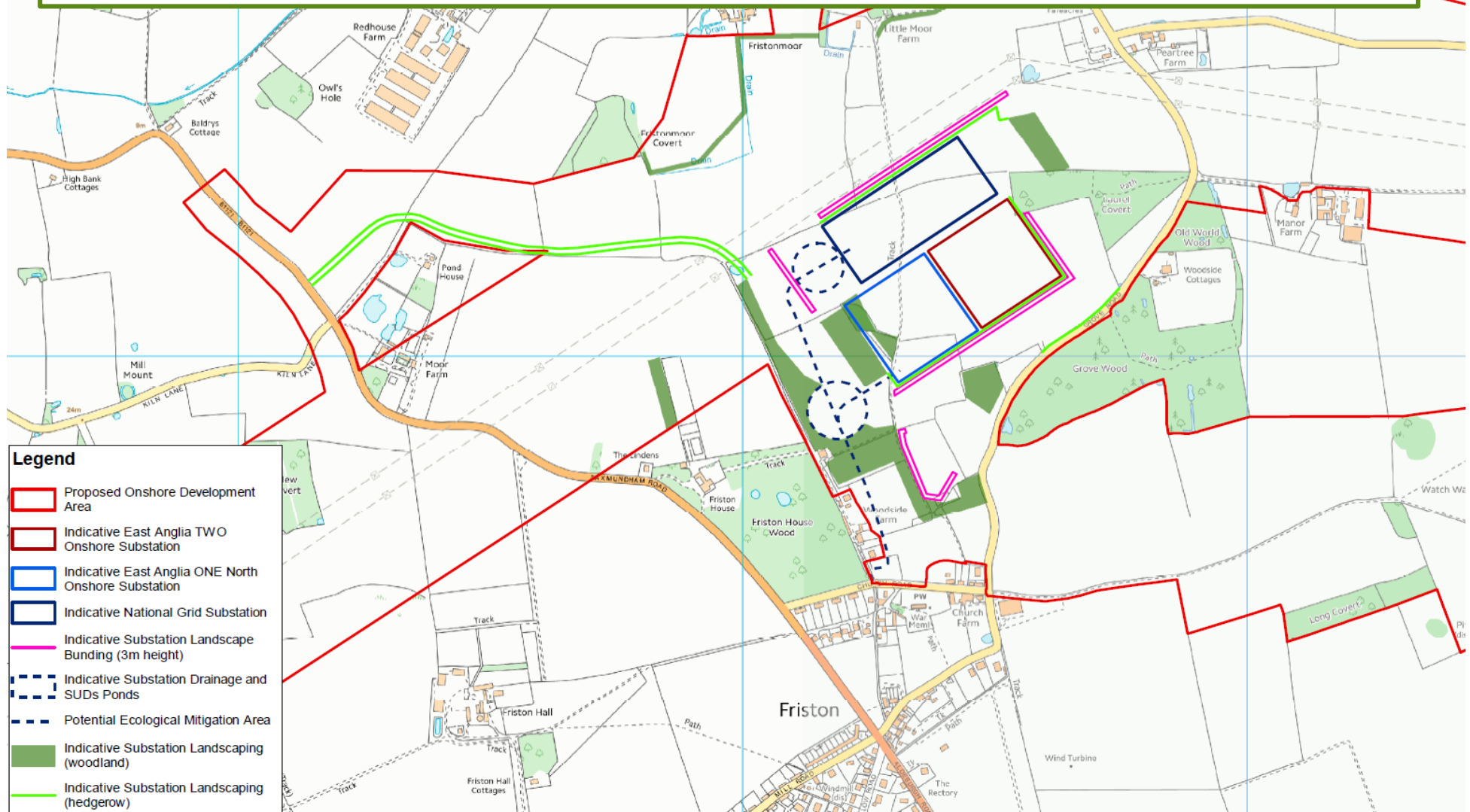


A detailed map of the Friston area in East Anglia, UK, illustrating a proposed onshore development. The map features several key elements:

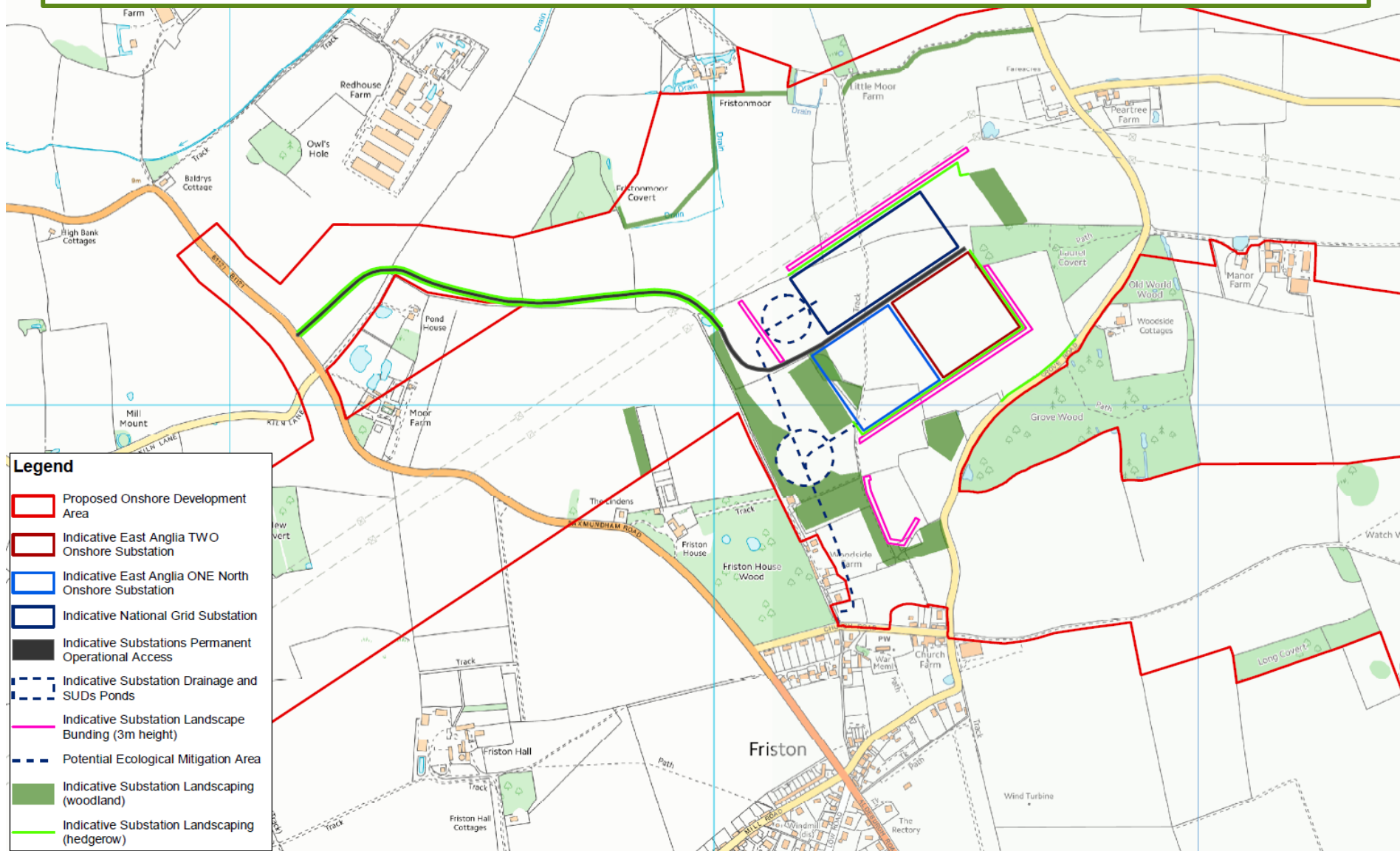
- Proposed Onshore Development Area:** Outlined by a thick red boundary.
- Substations:**
 - East Anglia TWO Onshore Substation:** Indicated by a solid red outline.
 - East Anglia ONE North Onshore Substation:** Indicated by a blue outline.
 - National Grid Substation:** Indicated by a double blue outline.
- Landscape Bunding:** Shown as pink lines representing 3m height bunding around the substations.
- Woodland Landscaping:** Represented by dark green shaded areas.
- Hedgerow Landscaping:** Represented by bright green lines.

The map also shows existing infrastructure such as roads (e.g., KILN LANE, ST MUNDHAM ROAD), tracks, paths, and various farms (e.g., Redhouse Farm, Little Moor Farm, Manor Farm). Other landmarks include Friston House, Friston Hall, and Grove Wood. A wind turbine is located near the bottom right corner. A legend in the bottom left corner provides a key for the symbols used on the map.

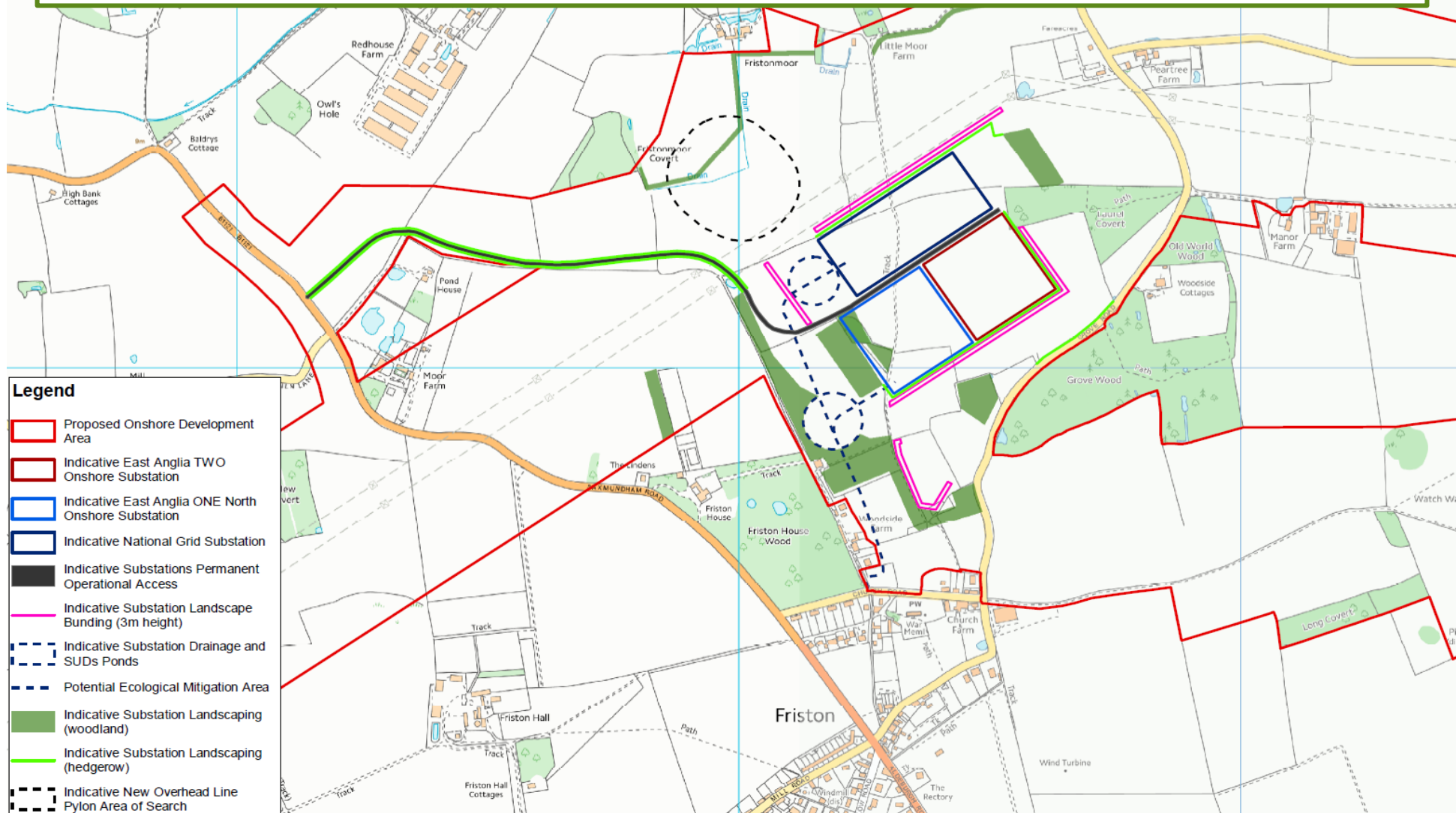
Sustainable urban drainage system (SUDS) identified for the East Anglia TWO and East Anglia ONE North substations, and a separate SUDS for the National Grid substation, with drainage into Friston Brook



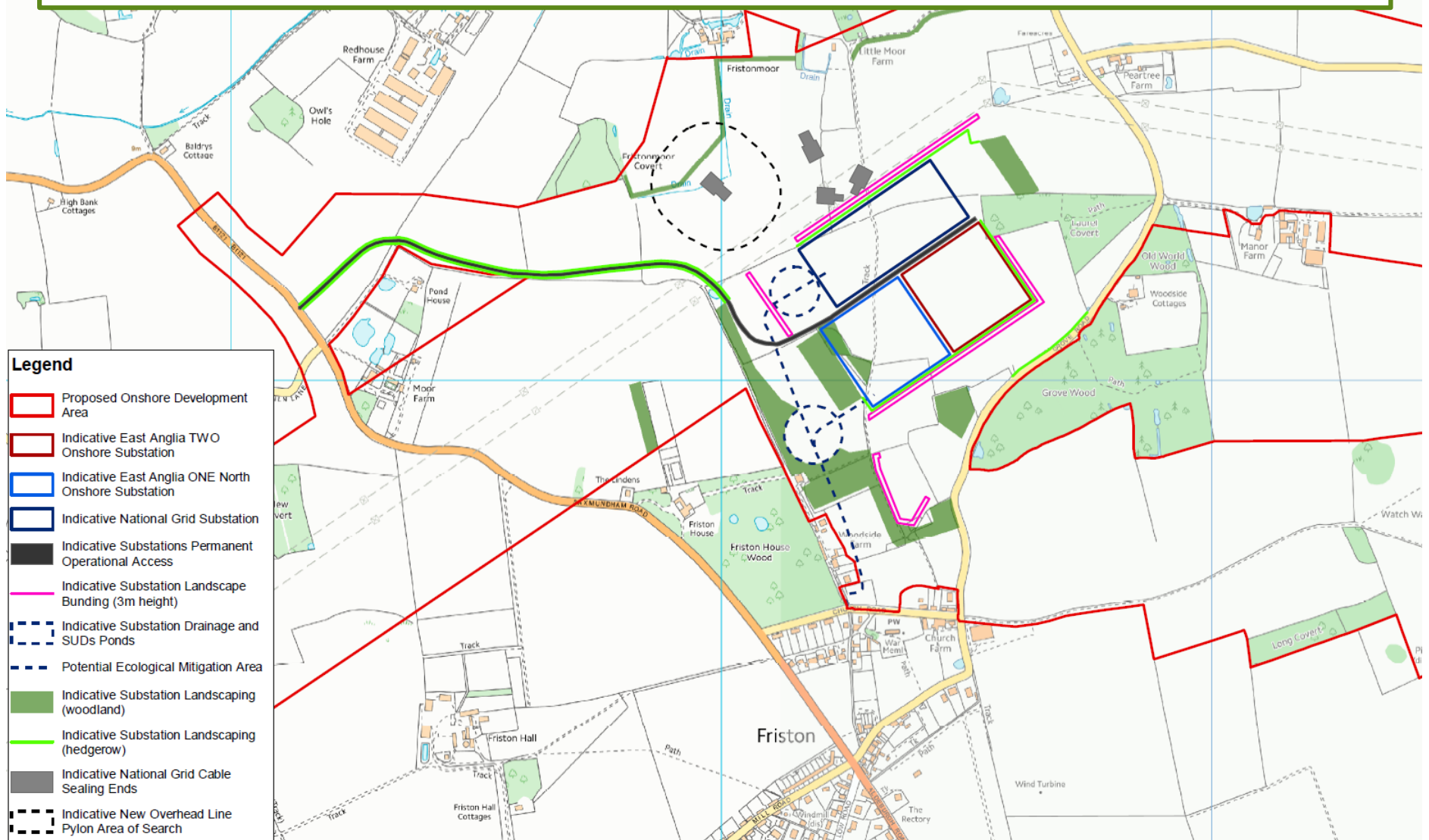
Substation operational access road identified, connecting the onshore substation site to the B1121



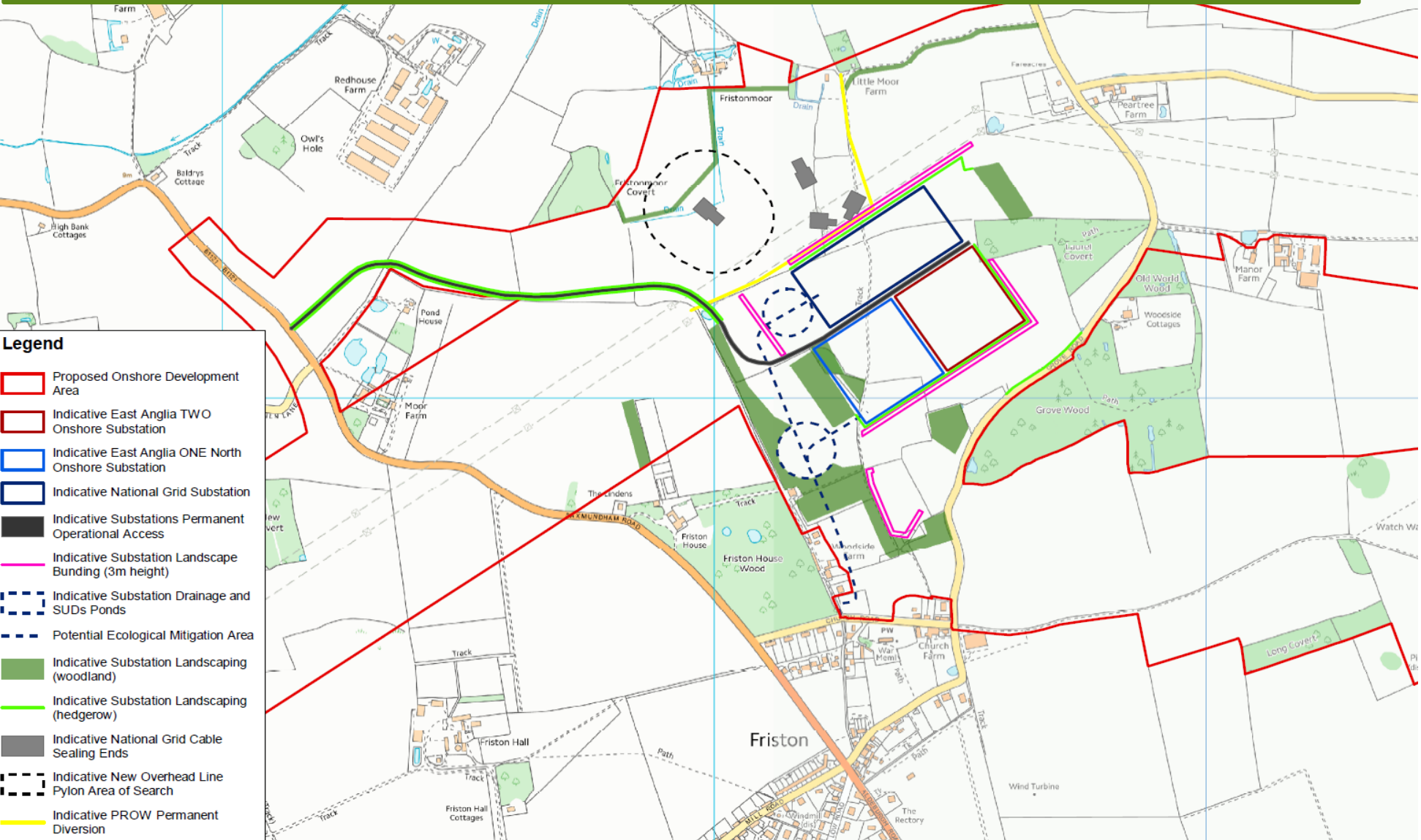
National Grid has identified the possible need for an additional overhead line pylon to the north west of the National Grid substation to facilitate connection to the wider electrical grid



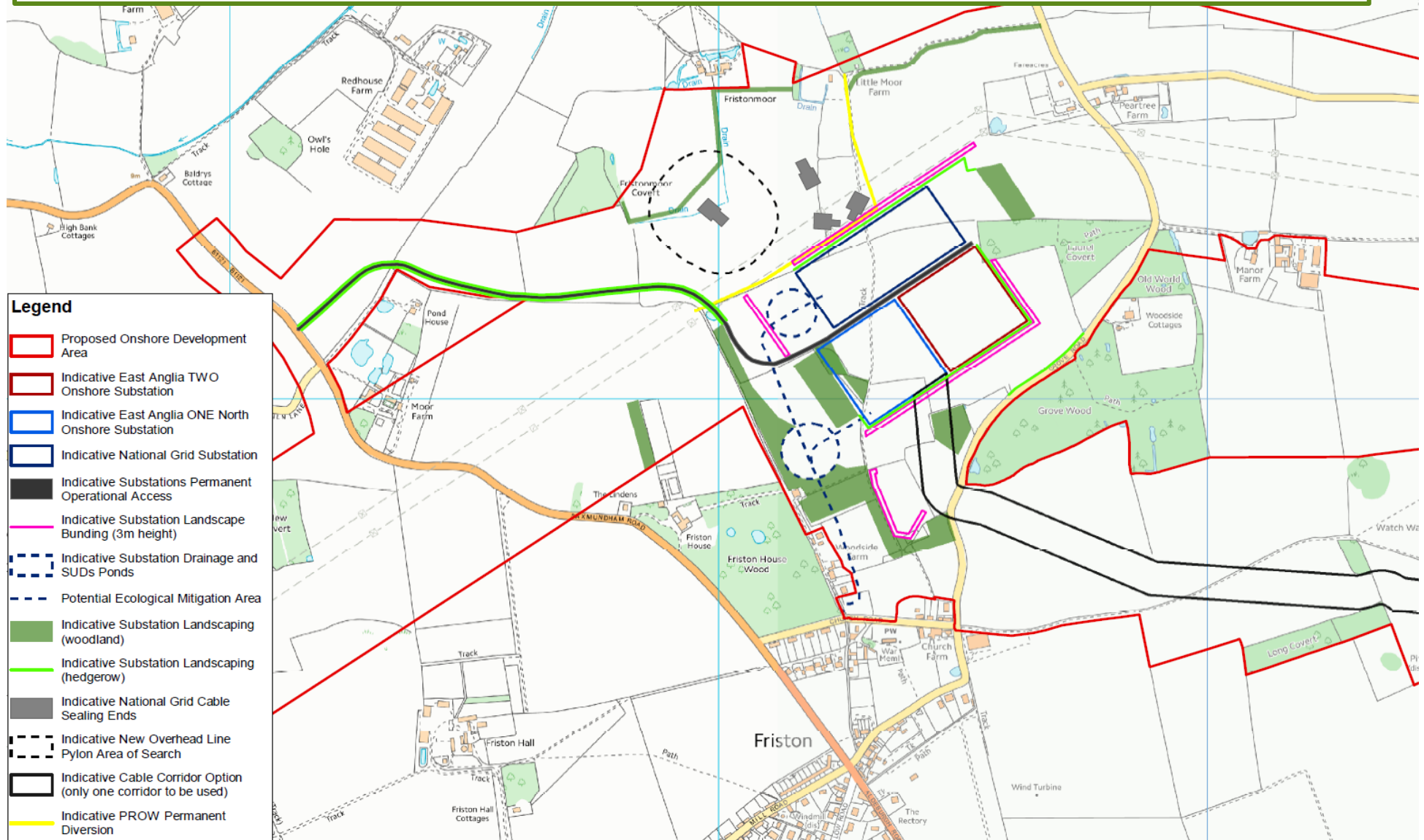
National Grid has identified the requirement for up to four cable sealing ends to connect the National Grid substation to the overhead lines to facilitate connection to the wider electrical grid



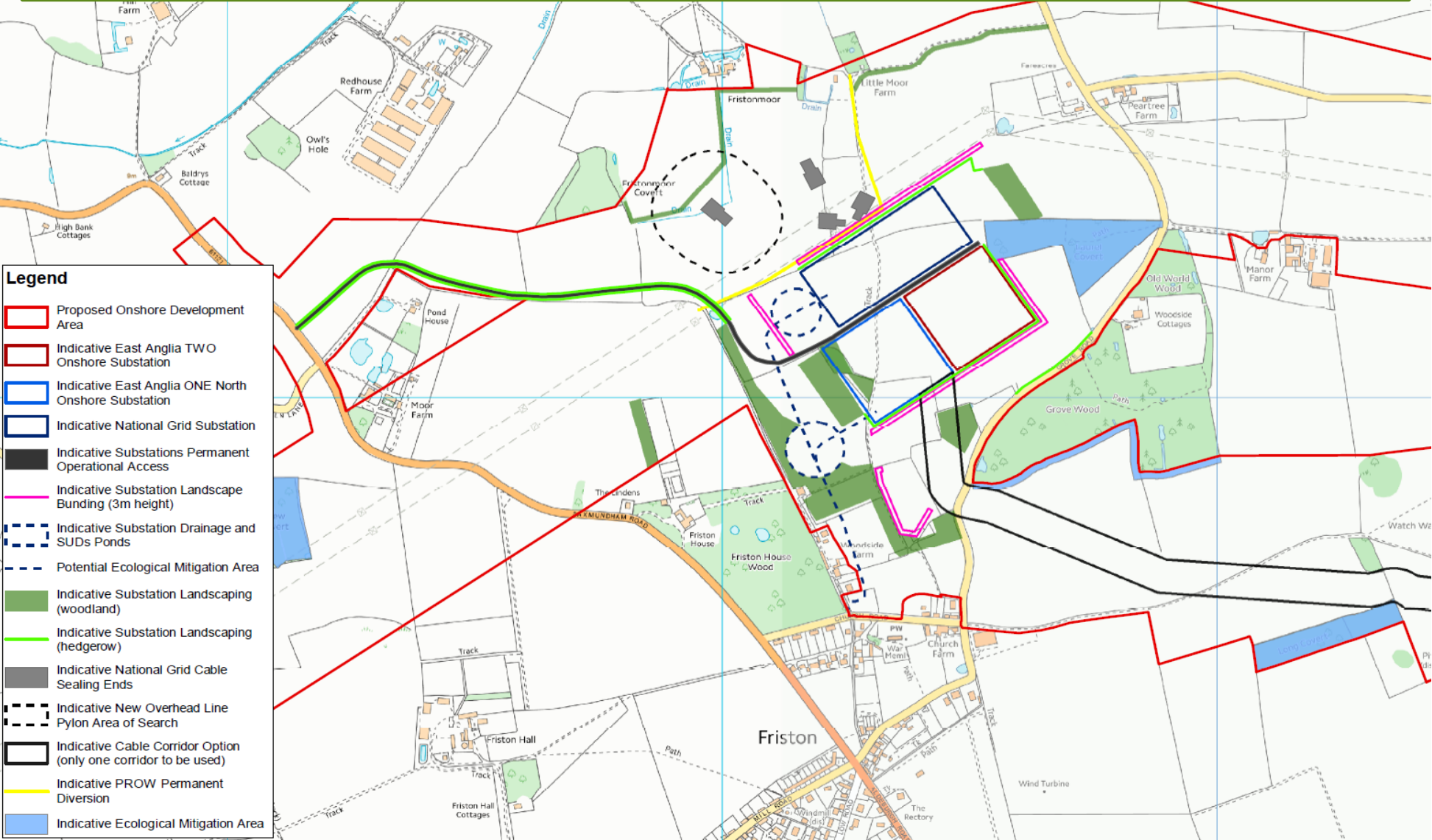
Indicative Public Right of Way permanent diversion identified – route shown is closest possible to original PRow route



Onshore cable route connects landfall to substation, connecting in to the East Anglia TWO and East Anglia ONE North substations



Ecological mitigation areas identified to mitigate impacts to ecology, or enhance local area for amenity and ecological benefit



**Your feedback is welcomed –
relevant responses will be
considered when preparing the
Development Consent Order
application**

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East Anglia ONE North Offshore Windfarm

Appendix 9.12

Proposed Onshore Development Area (A0)

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.12

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_12 Rev 01

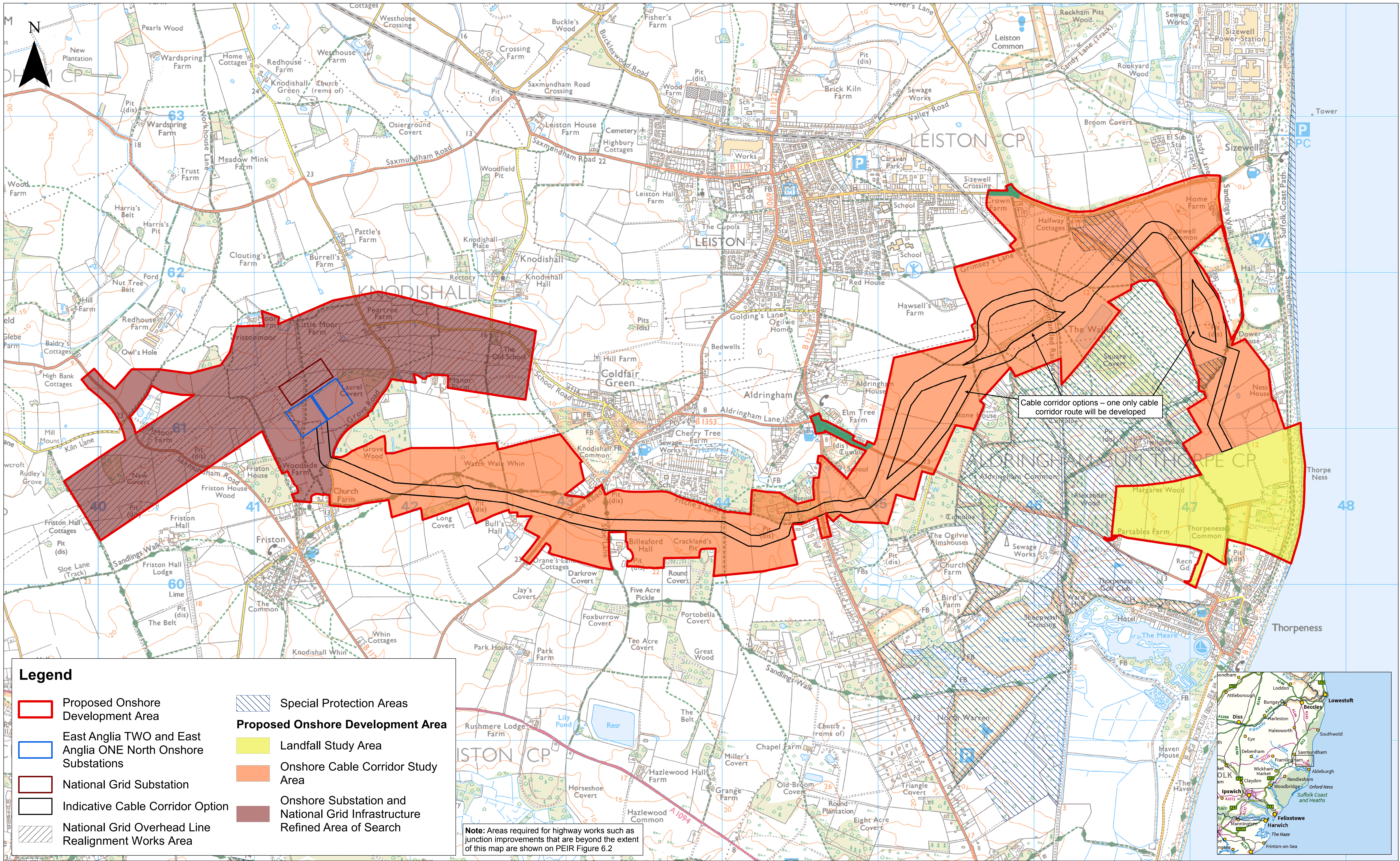
Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

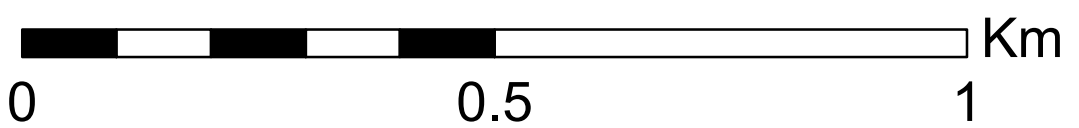
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1	11/02/2019	AB	First Issue.
Rev	Date	By	Comment

Prepared:	AB
Checked:	BH
Approved:	AH

1:8,000
Scale @ A0



Extract of East Anglia TWO and East Anglia ONE North Proposed Onshore Development Area

Drg No	EA1N-EA2-DEV-DRG-IBR-000487		
Rev	1	Coordinate System: BNG	
Date	11/02/19	Datum: OSGB36	
Figure			

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East Anglia ONE North Offshore Windfarm

Appendix 9.13

**East Angle Newsletter (Autumn/Winter
2018)**

Consultation Report

Applicant: East Anglia ONE North Limited

Document Reference: 5.1.9.13

SPR Reference: EA1N-DWF-ENV-REP-IBR-000373_009_13 Rev 01

Pursuant to: Section 37(3)(c) of The Planning Act 2008

Author: Royal HaskoningDHV

Date: October 2019

Revision: Version 1

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THE LATEST NEWS FROM SCOTTISHPOWER RENEWABLES

THE EAST ANGLE

EAST ANGLIA OFFSHORE WINDFARM PROJECTS | AUTUMN/WINTER 2018

Kessingland beach clean
Page 6

4,000-year-old Neolithic
trackway discovered
Pages 8-9

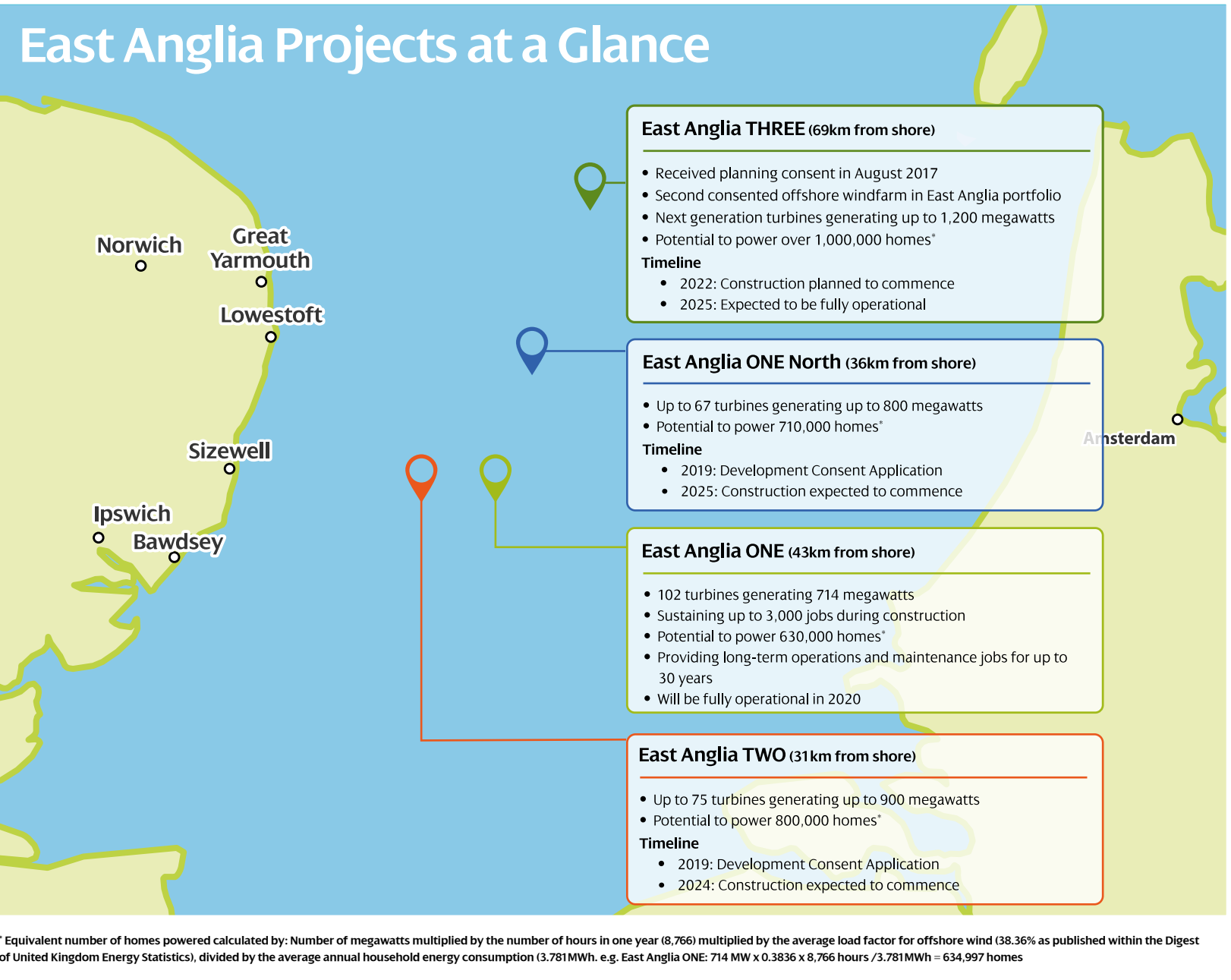
Work begins on 'home'
for East Anglia ONE
Page 10

Skills training
Page 12

"The offshore wind industry has an important part to play in reaching the UK Government's carbon reduction targets, whilst also increasing national income through working with the UK supply chain."

Charlie Jordan, East Anglia ONE Project Director

East Anglia ONE offshore substation installed with GMS Endurance jack-up accommodation vessel stationed alongside



Leading the way in offshore wind

Since our last edition, we have made excellent progress both onshore and offshore for our East Anglia ONE windfarm. We are progressing plans for our consented East Anglia THREE project and the proposed East Anglia TWO and East Anglia ONE North windfarms are under consultation.

On East Anglia ONE we are on track to spend over 50% of the £2.5bn investment in the UK, including with numerous East Anglian companies, so the benefit of the project is felt locally.

We recently celebrated ‘ground-breaking’ at the site for the new operations and maintenance (O&M) building for East Anglia ONE at Associated British Ports’ Hamilton Dock in Lowestoft. The base, which will be the home of East Anglia ONE for the next 30 years, will support the day-to-day operations of the windfarm, providing around 100 full-time long-term jobs, as well as sustaining thousands in the supply chain, contributing substantially to the local economy.

It’s an exciting time for the region with the development of skills, training and employment opportunities for students and the local workforce. The recent opening of the East of England Offshore Wind Skills Centre, in Great Yarmouth, is, with our support, providing tailored courses to help train a workforce for the future of offshore wind.

With all of this in mind, it continues to be a great time for the offshore wind industry. We are at the forefront of innovation, working with the supply chain to ensure our projects are as efficient as possible whilst delivering economic benefits for the UK.

If you would like to find out more about our work in East Anglia, please visit spreastanglia.co.uk

Charlie Jordan

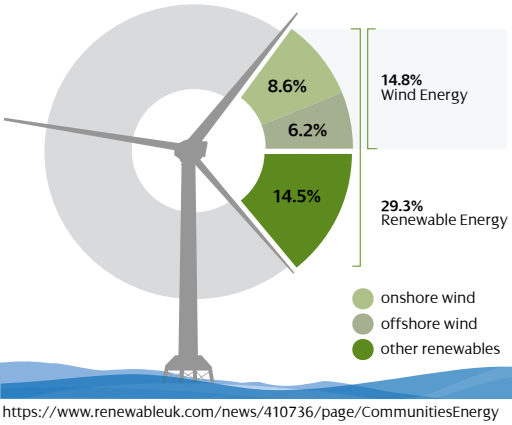
Project Director, East Anglia ONE
ScottishPower Renewables



The importance of wind energy

As a world leader in wind energy, we are committed to driving down carbon emissions through renewable energy generation. Figures show wind energy is becoming an increasingly important part in the energy generation mix. The industry has come a long way in just a matter of years, with the cost of offshore wind dropping by 50% since 2015 and becoming competitive with other forms of energy generation. This is vital in the bid to meet the carbon reduction targets set out in the Paris Agreement, as well as keeping the lights on for years to come with clean, renewable energy.

2017 Electricity Generation



Planning today to power tomorrow

Proposals for our East Anglia TWO and East Anglia ONE North offshore windfarms are currently under consultation. These are the third and fourth windfarms we are developing in the region.

East Anglia ONE North could have a capacity of up to 800MW and be located 36km offshore. East Anglia TWO could have a capacity of up to 900MW and be situated 31km from the coast. Combined, these windfarms could provide enough energy to power the equivalent of over 1.5million homes* annually with clean, green energy.

East Anglia TWO is likely to consist of up to 75 turbines and East Anglia ONE North up to 67 turbines. Wind turbine technology is constantly evolving so these turbines will have higher outputs and greater efficiency than those currently on the market, with an expected range of 12-19 megawatts. It is estimated the maximum turbine tip height would be 300m with a rotor diameter of up to 250m.

These efficient and more powerful, turbines mean fewer are needed to produce the same amount of power, which reduces the installation programme and maintenance costs.

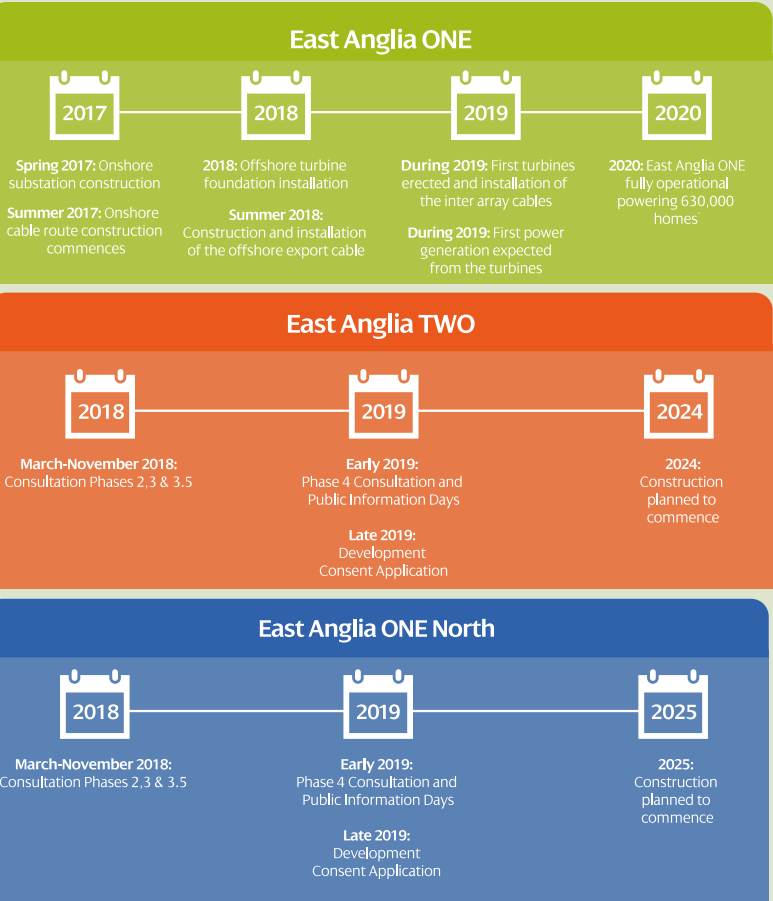
Ongoing surveys

We have, and are continuing to carry out a range of surveys, including habitat, species specific, archaeological, geophysical, noise, transportation and seabed surveys.

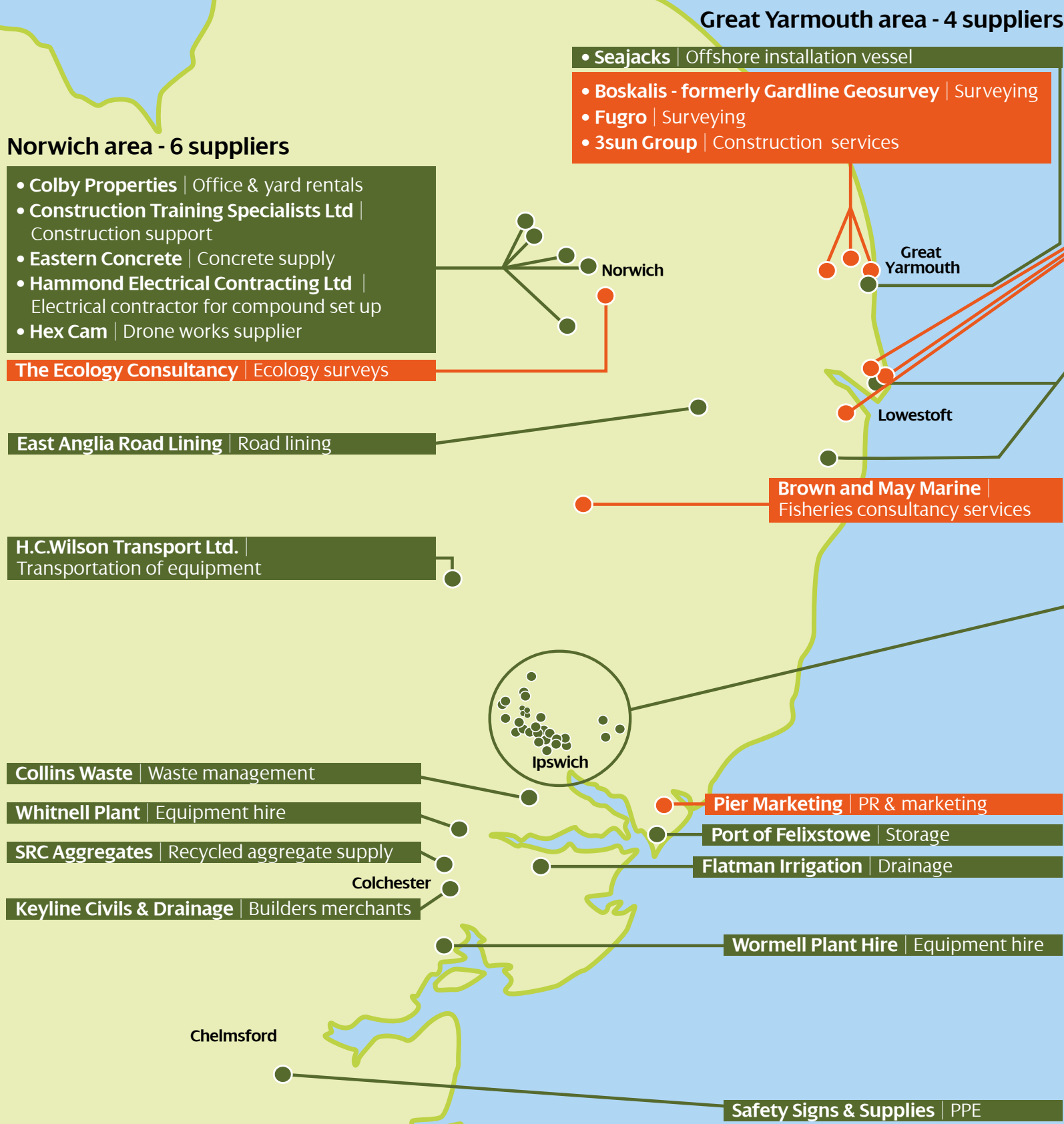
One recent study, conducted by Cambridge-based environmental consultancy APEM, took place over a two-year period.

The survey covered 1,000 square kilometres. APEM captured over 35,000 ultra-high-resolution aerial images which, along with the data captured, will inform the marine mammal and ornithological environmental impact assessments for East Anglia TWO and East Anglia ONE North.

* Equivalent number of homes powered calculated by: Number of megawatts multiplied by the number of hours in one year (8,766) multiplied by the average load factor for offshore wind (38.36% as published within the Digest of United Kingdom Energy Statistics), divided by the average annual household energy consumption (3,781KWh). EA2: 900 MW x 0.3836 x 8,766 hours / 3,781MWh = 800,416 homes, EA1N: 800 MW x 0.3836 x 8,766 hours / 3,781MWh = 711,481 homes. Total: 1,511,897 homes



East Anglia ONE Local Supply Chain



To-date we have spent £25 million with suppliers based across the East of England* with the potential to award additional contracts throughout the remaining stages of construction and into the operations and maintenance phase.

The graphic (below) details some of the East Anglia ONE contracts placed with local suppliers, helping to support businesses and grow a clean economy in the region. Examples of these contracts range from labour hire, surveying, crew transfer vessels, equipment hire, fencing, concrete and aggregate, to traffic management and security.

Through East Anglia ONE, ScottishPower Renewables has also supported the local hotel industry with over £76k spent in the last two years across Norfolk and Suffolk, supporting the sector throughout the year.

The offshore wind industry has an important part to play in reaching both the UK Government's carbon reduction targets and also increasing national income through working with the UK supply chain. On East Anglia ONE we are on track to spend over 50% of the £2.5bn investment in the UK, including with numerous East Anglian companies, so the benefit of the project is felt locally and across the country.

As well as placing several multi-million-pound contracts with suppliers in the region, which have, in-turn, procured a raft of subcontractors from East Anglia, we have also encouraged all of our suppliers to place contracts within the local East Anglia supply chain. The result of this is illustrated in the graphic. This demonstrates how offshore wind can deliver added value to the local and regional economy.

Some of our major local contracts supporting the development of East Anglia ONE include:

3sun Group

3sun Group, based in Great Yarmouth is servicing the construction stage of East Anglia ONE, from the new hub on Lowestoft docks, carrying out four major work packages; onshore and offshore services including labour from administrators to offshore technicians and supply materials, personal protective equipment, waste management, providing health and safety and Global Wind Organisation training.

Creating 30 new jobs

Boskalis (formerly Gardline)

From the Great Yarmouth office Boskalis is carrying out a range of pre-construction surveys across the East Anglia ONE site, providing support with various vessels from their fleet, supplying, installing and burying, as well as termination and testing of inter-array cables to support East Anglia ONE.

James Fisher Marine Services

Lowestoft-based JFMS is providing an integrated marine services package for the windfarm. The wide-ranging contract covers marine coordination, communications and vessel supply. In addition to this, JFMS is also carrying out Unexploded Ordnance identification and clearance works.

Seajacks

Great Yarmouth-based Seajacks has been contracted to transport and install the jacket foundations which will support the tower, blades and nacelle of 102 turbines for East Anglia ONE.

Supporting 140 current positions local jobs, 75 new jobs and at least five new local apprentices

Turner ICENI

Lowestoft-based Turner IcenI providing crew transfer vessels for the construction and commissioning phases of the windfarm. They will support the project 365 days per year, utilising up to three vessels. The scope of the contract includes the transfer of light plant, tools, spares and personnel to and from the offshore wind turbines, the offshore substation and met mast locations.

Supporting 50 local jobs

*East of England: Suffolk, Norfolk, Essex, Cambridgeshire, Bedfordshire and Hertfordshire

Engaging with the community at the Suffolk Show



Speaking to the local community

We enjoyed another brilliant Suffolk Show at Trinity Park, Ipswich, this summer. The annual event attracts around 90,000 visitors and provided us with an excellent opportunity to speak to the local community to showcase the benefits of offshore wind, and talk through our development plans off the coast of Suffolk and Norfolk.

This year's stand, situated near to the Grand Ring and Flower Show Avenue, featured large information boards and videos providing people with a wealth of information about our planned projects, while picnic tables gave show-goers somewhere to sit and chat with our dedicated team of experts.

Visitors to the stand also had the opportunity to use our virtual reality headsets to tour our windfarms.

We listened to views, answered questions and demonstrated the career opportunities available in the offshore energy sector.

As part of our East Anglia ONE Skills Strategy we also launched a two-year partnership with educational charity Cambridge Science Centre at the show.

Cambridge Science instructors accompanied us on the stand educating and entertaining visitors with a range of science and wind power experiments and activities. The partnership is a key element of our Skills Strategy to encourage students to study Science, Technology, Engineering and Maths (STEM) subjects and support businesses in East Anglia to train a workforce for the future of the offshore wind industry.



Virtual reality tour of our windfarms

Kessingland beach clean

We recently combined forces with our associates to help reduce the amount of litter on a popular Suffolk beach.

The 16-man team of staff and our supply chain partners, Turner Icen and James Fisher, collected bags of rubbish along Kessingland beach as part of the Marine Conservation Society's (MCS) beach cleaning and litter surveying programme, Beachwatch.

Beachwatch, which began in 1994, is an MCS initiative to involve local communities and volunteers in a practical project to clean and survey beaches all around the UK. MCS is the only national UK charity dedicated to the protection of our seas, shores and wildlife, campaigning for clean seas and beaches, sustainable fisheries, and protection of marine life.

We are committed to supporting the local communities in the areas where we work. The Kessingland beach clean provided us with the perfect opportunity to give back to a community that has been so welcoming since we began working in the region, whilst also demonstrating our commitment to protecting the environment.



Tackling waste on Kessingland beach

We've Got Wind

During the summer our East Anglia ONE windfarm team competed in the annual East Anglian Dragon Boat Festival in aid of Lowestoft RNLI Lifeboat Station.

Staged on the banks of Oulton Broad, the 11-man crew, called 'We've Got Wind', took on 16 teams from a range of local businesses, finishing in a respectable seventh place.

As part of the event we made a donation to Lowestoft RNLI Lifeboat Station, whose volunteer lifeboat crew provides a 24-hour search and rescue service along the east coast to save lives at sea.



'We've Got Wind' team in action



'We've Got Wind' team

Matthew Woollorton, East Anglia ONE Project Execution Manager, said: "Being a part of the communities where we work is very important to us and having grown up in Lowestoft myself, the East Anglian Dragon Boat Festival is an event I have always enjoyed and it is great to have the wider East Anglia ONE windfarm team involved this year."

Paul Carter, Operations Manager at Lowestoft RNLI Lifeboat Station, said: "Our thanks go to ScottishPower Renewables for their kind donation, which will aid us in our efforts to ensure the East Anglian coastline and sea remain safe environments for all those who visit, live and work along this fantastic coast."

East Anglia ONE offshore substation installed

In a huge milestone moment for East Anglia ONE, the offshore substation has reached its home in the southern North Sea, some 59 km from the coast of Lowestoft.

The installation was supported by the Seaway Heavy Lifting Oleg Strashnov vessel, lifting and securing the substantial steel structure, one of the largest of its type in the world.

The offshore substation is the single largest and most complex engineering challenge for the East Anglia ONE project. Around 60 electrical engineers and technicians are needed to complete the installation of intricate electrical work to commission the substation, to make it ready for the first turbines being switched on. The substation will house all of the electrical equipment needed to distribute power from the 102 wind turbines back to shore in Suffolk.



Milestone moment as offshore substation is installed

Jacket foundations in

Work in other areas offshore is also continuing at pace with the installation of the piles and jacket foundations (the base of the turbines).

Following the ongoing successful installation of the piles (the bottom part of the foundations which are driven into the seabed to form the secure base), jacket foundation installation is well underway marking a further important stage in the offshore construction of the windfarm.

The foundations are being installed by contractor Van Oord using purpose-built vessels; Boskalis' Bokalift 1, Heerema's Aegir and Great Yarmouth based Seajacks' Scylla. The jacket foundations are 65 metres tall, immersed up to

45 metres deep in the water, and will support the tower, blades and nacelle of the wind turbine. It is an impressive feat of engineering to lift nearly 840 tonnes of steel and place it with pinpoint precision into the North Sea.

In 2019 we will start installing the turbines, with the first electricity planned to be generated before the end of 2019. We are making great progress with East Anglia ONE and it won't be long until the windfarm is making an important contribution to the UK's clean energy goals.



East Anglia ONE jacket foundation, with the substation in the background

Pioneering radar system Safeguarding the UK's offshore wind industry

We partnered with Cambridge-based Aveillant to develop and test a new radar system to alleviate concerns that larger wind turbines may interfere with Ministry of Defence (MoD) radar technology.

Rapid growth in offshore wind technology means larger turbines are set to be installed in the coming years. Larger turbines will generate greater amounts of energy, meaning fewer turbines are needed to deliver the equivalent clean energy.

However, larger turbines can cause 'clutter' and 'shadowing' with existing radar technology. With innovation only ever a small step away, an agreement has been signed to develop and test a pioneering system.

Using powerful algorithms, the technology will recognise what it sees (wind turbines, aircraft and drones) and provide a 'clutter-free', three-dimensional picture of the airspace to the radar operator, continuously and simultaneously monitoring all the airspace.

The Aveillant radar technology will be tested in Northamptonshire, with further tests on the east coast to follow. The agreement will see the creation of new, highly-skilled engineering jobs in Cambridge.

The offshore wind industry is constantly innovating to meet challenges. We are confident this new radar technology will satisfy the MoD's concerns.

Marine Surveying on East Anglia ONE

We commissioned UK based Bibby HydroMap to conduct surveys of the seabed within the East Anglia ONE area ahead of cable and foundation installation. This was to ensure items which could pose a risk to construction operations were identified prior to work starting.

The geophysical surveys included measurement of water depth, sidescan sonar (creating an image of large areas of the sea floor for detection of objects on the seabed) and magnetometry (using a magnetometer for detection of ferrous objects such as Unexploded Ordnance (UXOs) and wrecks). These surveys took place across the East Anglia ONE site and along the 73km offshore cable route to landfall at Bawdsey, Suffolk.

The surveys enabled the safe removal of a number of World War II UXOs by N-Sea and James Fisher Marine Services, following expert advice from RPS Explosives Engineering Services, and also granted the provision of high quality data of the seabed landscape.

Bibby HydroMap delivered results within a short timeframe in challenging marine conditions, using four specialist survey vessels, providing us with the ability to ensure the safe installation of cables for East Anglia ONE.

Rare 4,000-year-old Neolithic trackway uncovered by pre-construction works

A Neolithic wooden trackway, dating from 2,300BC was uncovered at the end of one of Europe's largest archaeological digs in recent years, forming the centrepiece of a prehistoric monument in Suffolk.

We commissioned the archaeological work as part of a programme to install underground cables to link our East Anglia ONE windfarm to the national grid at Bramford. Fifty sites along the 37km route were fully excavated following initial investigations along the length of the route, but the final site proved to hold the most significant discovery.

30-metre-long Neolithic wooden trackway discovered

Around 70 archaeologists at a site near Woodbridge carefully unearthed a 30-metre-long wooden trackway and platform, along with numerous other features. Natural water springs, which are still evident in the area, created conditions that led to the incredible preservation of organic materials such as bone and wood. Initial theories suggest the springs could also have been the reason the area was chosen as a special place, over 4,000 years ago.

Auroch skull discovered dating from 4,300 BC

Beside the platform the skull of an Auroch, an extinct species of large wild cattle, was discovered, and this has been carbon dated to circa 4,300 BC.



"Because organic finds of this age are so rare and vulnerable when exposed, they needed to be kept wet during excavation. The features containing the organic material were flooded every night and the archaeologists continually sprayed the wood to keep the trackway preserved as they worked. The wood and other artefacts have been sent for further analysis, and some of the leading experts on the Neolithic period have already visited to help us build the full picture of activities on the site."

Kate Batt, Suffolk County Council Archaeological Service.

"It is exceptionally rare to find preserved organic materials from the Neolithic period, and we will learn a great deal from this discovery. Some of the wood is so well preserved we can clearly see markings made by an apprentice, before a more experienced tradesman has taken over to complete the job."

Richard Newman, Associate Director at Wardell Armstrong.

Image Credit: Chris Mapey

This is significant because at the time the trackway was built, the skull was already 2,000 years old, suggesting it was an item of great importance. Substantial numbers of white pebbles, not common in the area, were also found beside the track. The positions in which these items were found suggest they were deliberately deposited in a way that had significance to the people at the time.

We commissioned Wardell Armstrong to oversee the entire archaeological work programme, working closely with Suffolk County Council. Up to 400 archaeologists have been involved over the last two years, with a peak on-site workforce of around 250 people at any given time. At the Neolithic site near Woodbridge, Wardell Armstrong supervised teams from Archaeological Solutions (Bury St Edmunds), Archaeology Wales and Cotswold Archaeology, pulling in expertise from across the UK.

Legacy of East Anglia ONE windfarm

One of the unanticipated legacies of our windfarm will be a greater understanding of Suffolk's history. In the last two years the archaeological works we commissioned have been responsible for uncovering artefacts from the Bronze Age, Iron Age, Roman and Medieval periods, but it seems that the best was saved to last. We worked closely with the archaeologists and made changes to our plans to ensure the Neolithic site could be fully explored.



4,000 year old Neolithic trackway being uncovered



Image Credit: Wardell Armstrong

Wooden posts

Excellent preserved wooden posts, due to natural water springs in the area preserving organic materials on the site.



Image Credit: Wardell Armstrong

Auroch skull

The skull had been cut in a way that suggests it had potentially been used as a totem; either fixed to a pole or used as some form of headdress.

Preserving local prehistory

It has been an exciting time for the project, preparing for cable installation and unearthing parts of Suffolk's hidden history.

Prior to construction work and the full archaeological works commencing, we commissioned a metal detecting survey along the 37km cable route, followed by 800 small (trial) trenches, for initial excavations to identify any areas of archaeological interest. It was crucial to work closely with the archaeologists, and as a result share in the excitement of unearthing artefacts and sites of historic importance, telling the story of our local prehistory.

What we found



Image Credit: Wardell Armstrong

Tanged arrowhead

Barbed and tanged arrowhead – a Bronze Age arrowhead fashioned in flint into a sharp point with a short tang for fixing to a wooden arrow shaft. The arrowhead is remarkably preserved.



Image Credit: Wardell Armstrong

Green glazed Medieval face pot

This fragment of a face pot dates back to the Medieval era and is an example of early anthropomorphic (facial) representations in ceramics.

Open days

We've held many open days to showcase lots of the fantastic finds from the sites to members of the public, sharing the wonderful Suffolk heritage.



Image Credit: Wardell Armstrong

Public open day showcasing finds

Construction begins on the new ‘home’ for East Anglia ONE

Construction work has begun to build the hub for our East Anglia ONE windfarm in Lowestoft as part of a £25 million investment. The new operations and maintenance (O&M) facility is being constructed by NRS Group. It will support the day-to-day operations of the windfarm and will be a hive of activity for engineers and technicians and the base for marine operations, specialist offices and warehousing.

The start of construction for our new O&M building at Associated British Ports’ Hamilton Dock, Lowestoft, is a landmark moment for the East Anglia ONE project.

When East Anglia ONE is completed around 100 full-time jobs will be available at the base, providing long-term skilled jobs in the region, and contributing substantially to the local economy.

The base will help to support the offshore phase of construction work on the windfarm, as well as the 30-plus years’ operational lifespan of the project.

Through the development of our four offshore windfarms planned off the coast of East Anglia, we will be able to deliver cleaner renewable energy for future generations, simultaneously creating lasting skilled career opportunities in Lowestoft and across East Anglia.



Construction begins on the home for East Anglia ONE

Around 100 full-time jobs will be available at the base, demonstrating our commitment to providing long-term skilled jobs in the region, contributing substantially to the local economy.



Operations and maintenance building visualisation

Jobs boost for Great Yarmouth based 3sun Group

Up to 30 jobs are being created after leading Great Yarmouth wind services company, 3sun Group won a major contract to support the crucial construction phase of our East Anglia ONE windfarm.

3sun Group landed the £2.5m task to service the construction stage of East Anglia ONE, from our new base in Lowestoft harbour, carrying out four major work packages; onshore and offshore services, training and personal protection equipment.

It is one of the biggest single site contracts 3sun Group has won in its 11-year history, and will draw on the company’s local knowledge and experience of the offshore renewables industry. The contract will create up to 30 jobs ranging from office workers to technicians, including candidates from the new East of England Offshore Wind Skills Centre at East Coast College’s Great Yarmouth campus.

This 3sun Group contract will provide a substantial economic benefit and helping to strengthen the supply chain for years to come.

Wind skills student secures job on East Anglia ONE



Michael Montgomery

“My story shows others that you should never stop chasing your dream. I have learnt starting a new career is possible at any age”.

Born and bred in the Norfolk coastal town of Great Yarmouth, 39-year-old Michael Montgomery was no stranger to the career opportunities available within the North Sea offshore energy industry.

Having trained as an engineer 20 years previously, he was always keen to return to a role which utilised his engineering skillset and passion for working offshore.

Michael explained: “Although I didn’t go directly into engineering I never stopped looking for ways to kick start my engineering career.

“The turning point for me came after reading a news article about new courses that were offering training for those looking to embark on a career in the offshore wind industry.”

“I applied and was accepted on the Transition into Offshore Wind training course.”

The course, at the East of England Offshore Wind Skills Centre, Great Yarmouth, serves as an introduction into the world of offshore wind, in a bid to boost the pool of skilled technicians.

Michael completed his training on one of the ScottishPower Renewables funded places and was announced as the first student from the course’s cohort to secure a job, accepting the role of Offshore Wind Turbine Inspection Technician with the 3sun Group contract on East Anglia ONE.

Michael will continue his development and training, until the windfarm is fully operational, with support from both 3sun Group and ScottishPower Renewables, to make sure he is fully prepared for the new role.

“I would encourage anyone with a mechanical mind and passion for problem solving to consider a career in renewable energy, contributing to a positive legacy for future generations to benefit from.”

Substation construction & mitigation



East Anglia ONE onshore substation taking shape at Bramford

Having commenced work last winter, construction is progressing well for the three main buildings for our East Anglia ONE substation. The site is starting to take shape with the carefully designed green and grey clad buildings, following close consultation with Suffolk County Council and the Design Council. This ensures the substation blends in with local agricultural buildings and the surrounding environment, minimising the visual impact to the community. The substation will convert the electricity generated by the windfarm into a suitable voltage for transfer into the adjacent National Grid power station.

The image above shows the GIS building and gantries constructed to date at the substation at Bramford. Construction of the STATCOM buildings, equipment and cabling to link the substation to the national grid has commenced. Upon completion there will be over 41 km of cabling within the substation.

For the East Anglia ONE substation surroundings we developed an extensive mitigation plan in conjunction with local authorities, seeing techniques such as bunding (earth banks) and planting schemes, featuring native trees, planned to enable screening of the buildings. The site also has a Sustainable Urban Drainage System (SuDS) plan to ensure effective drainage from the new site.

Cross section of East Anglia ONE substation and perimeter visual screening plan



Cable route construction update

Cable installation work is underway, with the East Anglia ONE power cables being pulled through the lubricated ducts in sections between joint bays. Once all of the installation work is complete, this will provide the vital cable link to the onshore substation at Bramford. The cable ducts are buried underground along the 37km route from Bawdsey to Bramford to minimise the visual impact.

Traffic management schemes are installed at all road crossings to manage the flow of traffic. The construction works are closely monitored by an Ecological Clerk of Works to ensure environmental schemes are correctly implemented to reduce the impact on wildlife and ecosystems.

We look forward to the testing and commissioning phase taking place in 2019. Once complete the cables will carry enough clean energy to power the equivalent of 630,000* homes.

* Equivalent number of homes powered calculated by: Number of megawatts multiplied by the number of hours in one year (8,766) multiplied by the average load factor for offshore wind (38.36% as published within the Digest of United Kingdom Energy Statistics), divided by the average annual household energy consumption (3.781MWh. East Anglia ONE: 714 MW x 0.3836 x 8,766 hours / 3.781MWh – 634,997 homes



Cable installation

Introducing Edward Rees, East Anglia ONE Community Liaison Officer

Edward joined the team as Community Liaison Officer for the East Anglia ONE project in 2017, bringing with him ten years of experience working in similar roles for Crossrail, Network Rail and Dockland’s Light Railway.

Edwards’s role covers the 37km East Anglia ONE cable route and forms the vital link between the project and the community. With large scale projects in his repertoire, Edward’s background is in building community relationships; working alongside councils, engaging with community groups and problem solving is something that is second nature to him.

He enjoys the variety in his daily role, organising open days, resolving community questions and providing notifications to the local community about forthcoming construction activities. Edward has organised community events and public information days, providing members of the public with information and updates on the East Anglia ONE development. He has organised bespoke events for special interest groups, featuring presentations from the construction team and contractors, demonstrating the feats of engineering and technology behind our new offshore windfarm.

Edward is an integral part of a wider stakeholder team, alongside Joanna Young, Nikki Berry and Katie Snell, who ensure smooth communication with the community.

If you have any queries regarding East Anglia ONE, please contact Edward Rees. Full contact information is displayed on the bottom of Page 12.



Edward Rees



Offshore Wind Skills Centre partners

Supporting students through offshore wind skills training

A new offshore wind skills centre has been made possible thanks to a grant from the New Anglia Skills Deal Programme, provided by Norfolk County Council, Suffolk local authorities and the Education and Skills Funding Agency, the total project value including cash and equipment match from employers equals £1.1m.

The new East of England Offshore Wind Skills Centre, based at East Coast College's Great Yarmouth campus, will provide students with the knowledge, skills and expertise to work in the growing offshore wind industry off the coast of East Anglia.

To date, ScottishPower Renewables has invested £55,000 to sponsor 13 student places and is part of a collective of organisations supplying equipment to train students in the industry.

The Offshore Wind Skills Centre has been developed in partnership with a number of offshore wind industry companies, New Anglia Skills Deal Programme; Norfolk County Council, the Education and Skills Funding Agency and local authorities in Suffolk.

For more information please visit www.eastcoast.ac.uk

Supporting Partners & Training Providers



Siemens' apprentices join the East Anglia ONE team

Working closely with East Anglia ONE turbine supplier, Siemens, ensures students from its Mechatronics Advanced Apprenticeship Course, TyneMet College, Newcastle have the opportunity to work on our windfarm.



Jordan Halliday (Left) & Curtis Cousins (Right)

With the offshore wind industry fast-growing along the coast of East Anglia, Jordan Halliday and Curtis Cousins were inspired to follow careers in the sector and take advantage of the pool of jobs created by the development of East Anglia ONE.

The Siemens course serves as an introduction into the world of engineering, and will see Jordan and Curtis graduate with NVQ Level 3 qualifications.

Jordan explains: "Since starting my apprenticeship I have gained so much knowledge and it will be a great gateway into an engineering career in the offshore energy industry. The development of East Anglia ONE brings so many exciting opportunities to work on the windfarm. It really has the potential to be a career for life, close to home."

Curtis said: "The long term benefits of the offshore wind energy industry are there for all to see. The more young people joining this sector the better, the development of jobs will help future generations and the clean energy being produced will benefit people for years to come."

As part of the Siemens' apprenticeship Jordan and Curtis will join the East Anglia ONE team in Lowestoft in Summer 2019 for the installation of the 102 Siemens Gamesa D7 turbines.

Inspiring the next generation of female engineers

We recently sponsored an event to mark International Women in Engineering Day. Hosted by charity Connect Education and Business, the event was part of a global awareness scheme, coordinated by the Women's Engineering Society.

Pupils from Felixstowe Academy, Ipswich High School and Stradbroke High School were among 20 schools from East Anglia who attended the East of England's International Women in Engineering Day event in Chippenham, near Newmarket. Students interacted with a variety of exhibits from STEM companies and listened to personal experiences and opportunities in engineering demonstrated by guest speakers from the sector.

The event demonstrated to youngsters how women are 'raising the bar' in pursuit of more diversity in engineering; women currently account for less than 10% of the engineering workforce. We are committed to demonstrating the wide variety of careers available in the offshore wind skills sector and encouraging more young women to consider a career in renewables.

Ipswich Academy was announced as the winning school in the ScottishPower Renewables No Waste Challenge. The competition involved students investigating sources of waste from their home or school before designing a plan to achieve zero waste by 2020. The youngsters then created a short presentation to showcase their waste reduction proposal to a panel of judges. The winning team received £500 for their school.



Inspiring future female engineers

Your Community Liaison Team



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If you would like to share The East Angle with colleagues, friends or family please visit spreastanglia.co.uk



Alternatively please contact Stakeholder Manager Joanna Young at jyoung@scottishpower.com
If you would like to find out more about our work in East Anglia, please visit: spreastanglia.co.uk

Follow us on Twitter at @SPRenewables

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