



**The Great Grid Upgrade**

Sea Link

# Preliminary Environmental Information Report

Volume: 2

Part 2 Suffolk Onshore Scheme

Appendix 2.14.A Descriptions of other projects

Version A

October 2023

**nationalgrid**

*Page intentionally blank*

# Contents

---

<b>2.14.A</b>	<b>Descriptions of Other Developments</b>	<b>3</b>
2.14.A.1	Introduction	3
2.14.A.2	Sizewell C	4
2.14.A.3	East Anglia ONE North Offshore Windfarm (ID5)	12
2.14.A.4	East Anglia TWO Offshore Windfarm (ID6)	13
2.14.A.5	Nautilus Offshore Interconnector (ID7)	15
2.14.A.6	High Lodge Leisure (ID221)	17
2.14.A.7	Croft Farm land and buildings (ID228)	17
2.14.A.8	Park Farm Solar Farm (ID233)	18
2.14.A.9	Rock Barracks Heath Road Solar Farm (ID290)	18
2.14.A.10	Residential Development, Brightwell Lakes (ID240)	19
2.14.A.11	Residential Development, Darsham Station (ID245)	19
2.14.A.12	Solar Farm, Parham, Suffolk (ID248)	20
2.14.A.13	Proposed reservoir, Grange Farm (ID263)	20
2.14.A.14	Saxmundham to Peasenhall Water Mains Installation (ID266)	21
2.14.A.15	Sizewell B Relocated Facilities (ID270 and ID271)	21
2.14.A.16	Town Farm Solar Farm (ID277)	22
2.14.A.17	UKZ139 BC Wissett Solar Farm (ID279)	22
2.14.A.18	Brundish Manor Solar Farm (ID285)	23
2.14.A.19	LionLink Offshore Interconnector (ID287))	23
2.14.A.20	Norwich to Tilbury (ID288)	25
2.14.A.21	South Saxmundham Garden Neighbourhood (ID291)	26
2.14.A.22	References	26

---



# Sea Link

## Document control

---

### Document Properties

---

**Organisation** AECOM

**Author** AECOM

**Approved by** AECOM

**Title** Preliminary Environmental Information Report  
Volume 2, Appendix 2.14.A Descriptions of other projects.

**Data Classification** Public

---

### Version History

---

<b>Date</b>	<b>Version</b>	<b>Status</b>	<b>Description / Changes</b>
24/10/2023	A	Final	First issue

---

# 2.14.A Descriptions of Other Developments

## 2.14.A.1 Introduction

2.14.A.1.1 The following appendix provides a description of other developments on the long list for the inter-project cumulative impact assessment of the Suffolk Onshore Scheme. It details the location of the other developments, a development overview, and developmental and construction timeframes. The information in this appendix is based upon publicly available, third party information at the time it was gathered.

2.14.A.1.2 This appendix should be read in conjunction with:

- **Volume 1, Part 2, Chapter 14: Suffolk Onshore Scheme Inter-Project Cumulative Effects;** and
- **Volume 2, Part 1, Appendix 1.5.A: Cumulative Effects Methodology.**

2.14.A.1.3 This appendix is supported by the following Figures:

- **Volume 3, Figure 2.14.1 Suffolk Onshore Scheme Long List of Other Developments**
- **Volume 3, Figure 2.14.2 The Sizewell C main development site**
- **Volume 3, Figure 2.14.3 A12 Bypass (the ‘two village’ bypass)**
- **Volume 3, Figure 2.14.4 Yoxford Roundabout**
- **Volume 3, Figure 2.14.5 Freight management facility at Seven Hills**
- **Volume 3, Figure 2.14.6 Sizewell link road**
- **Volume 3, Figure 2.14.7 Northern park and ride**
- **Volume 3, Figure 2.14.8 Southern park and ride**
- **Volume 3, Figure 2.14.9 Rail upgrades to Saxmundham and Leiston Branch Line and Rail extension route**
- **Volume 3, Figure 2.14.10 East Anglia ONE North Offshore Windfarm**
- **Volume 3, Figure 2.14.11 East Anglia TWO Offshore Windfarm**
- **Volume 3, Figure 2.14.12 Nautilus Offshore Interconnector**
- **Volume 3, Figure 2.14.13 High Lodge Leisure**
- **Volume 3, Figure 2.14.14 Croft Farm land and buildings**
- **Volume 3, Figure 2.14.15 Park Farm Solar Farm**
- **Volume 3, Figure 2.14.16 Residential Development, Brightwell Lakes**
- **Volume 3, Figure 2.14.17 Residential Development, Darsham Station**
- **Volume 3, Figure 2.14.18 Proposed reservoir, Grange Farm**

- **Volume 3, Figure 2.14.19 Saxmundham to Peasenhall Water Mains Installation**
- **Volume 3, Figure 2.14.20 The Sizewell B Relocated Facilities**
- **Volume 3, Figure 2.14.21 Town Farm Solar Farm**
- **Volume 3, Figure 2.14.22 UKZ139 BC Wissett Solar Farm**
- **Volume 3, Figure 2.14.23 Brundish Manor Solar Farm**
- **Volume 3, Figure 2.14.24 LionLink Offshore Interconnector**
- **Volume 3, Figure 2.14.25 Norwich to Tilbury**
- **Volume 3, Figure 2.14.26 Saxmundham South Garden Neighbourhood**
- **Volume 3, Figure 2.14.27 Solar Farm, Parham, Suffolk**
- **Volume 3, Figure 2.14.28 Rock Barracks Heath Road Solar Farm**

## **2.14.A.2 Sizewell C**

2.14.A.1.4 Sizewell C is a nationally significant infrastructure project for the construction, operation and decommissioning (where applicable) of an electricity generating station with power generated by two nuclear reactor units and associated development. Due to the geographic extent onshore within Suffolk, the various sites associated with this development have been described separately below.

### **Description**

#### **Main Development Site (ID1)**

2.14.A.1.5 Sizewell C would be located immediately to the north of the existing Sizewell B power station and would comprise two United Kingdom European Pressurised Reactor (UK EPR™) units with an expected net electrical output of approximately 1,670 megawatts (MW) per unit, giving a total site capacity of approximately 3,340MW.

2.14.A.1.6 The main development site encompasses the area required for construction and operation the Sizewell C Nuclear Power Station (Ref. 2.1). It comprises permanent facilities for the operation of the power station as well a temporary facilities mostly used to help facilitate the construction of the development (Ref. 2.1):

2.14.A.1.7 Permanent facilities at Sizewell C Nuclear Power Station:

- Two UK EPR reactor units and annex buildings and structures, containing safety systems, fuel handing systems and access facilities, and emergency generator buildings;
- two sets of turbine halls and electrical buildings for the export and distribution of electrical power (one for each reactor);
- an operational service centre (including storage areas, workshops, store rooms, laboratories, data centre, offices and associated support and welfare facilities);
- cooling water pump houses and associated buildings and plant;

- waste storage buildings, including an intermediate level waste store and an interim spent fuel store;
- sea defences, comprising a new landscaped hard coastal defence feature, an existing landscape feature, which would be reconstructed to tie into the Sizewell C hard coastal defence feature and would be known as the Northern Mound, and a new artificial linear dune, known as the soft coastal defence feature;
- a beach landing facility used for the delivery of abnormal indivisible loads by the sea;
- National Grid 400 kilovolt (kV) substation, alterations to the existing National Grid substation and associated diversion of overhead line;
- ancillary buildings required to facilitate the operation of Sizewell C, including buildings for security, office use, storage and other purposes;
- a new crossing to the north constructed across an area of land that forms part of the Sizewell Marshes Site of Special Scientific Interest (SSSI) and the Leiston Drain;
- Relocation of Sizewell B facilities comprising Sizewell B ancillary buildings including the outage store, training centre; administrative buildings; visitor centre; and, office, canteen and welfare facilities (also approved as a separate development see Section 2.14.A.15) (Ref. 2.1);
- An offshore works area which includes two intakes, one outfall and two fish recovery and return tunnels for the operation of the Sizewell C power station and one combined drainage outfall for use during construction and early stages of commissioning;
- Three 'compensation sites' at Benhall, Halesworth and Pakenham to establish new fen meadow habitats. These sites aim to offset 0.46ha of permanently lost fen meadow habitat due to the construction of the main development site;
- Installation and rerouting of utilities such as water and gas mains;
- Diversion of public rights of way including Bridleway 19 and realignment of highways including B1122 Abbey Road, Lovers Lane and Eastbridge Road,
- Security fencing and lighting around the Sizewell C facility boundary;
- Flood defences and coastal protection measures;
- Water supply and drainage measures, including realignment of Sizewell Drain;
- Landscape restoration and water management works;
- A helipad;
- Additional parking spaces at Kenton Hills car park; and
- Off-site sports facilities at Leiston.

2.14.A.1.8 Temporary facilities at Sizewell C Nuclear Power Station main development site (Ref. 2.1):

- Earthworks, excavation and site ground preparation works;
- Construction related buildings, structures, facilities, plant, equipment, cranes and machinery;

- Construction services and utilities;
- Temporary crossing over Sizewell Marshes SSSI, prior to the construction of permanent crossing;
- Material management areas;
- Water resource storage area and desalination plant;
- Accommodation campus and leisure facilities for 2,400 construction workers across over 3 and 4 storey buildings, parking for cars, motorcycles, pedal cycles, plant and infrastructure;
- 400 caravans including serviced plots and associated facilities for staff welfare and amenity;
- Site transport infrastructure and access roads including a temporary bridge during the construction of the causeway across Sizewell Marshes SSSI;
- Temporary rail infrastructure for the delivering of AILs and construction materials;
- Park and ride facility; and
- Heavy Goods Vehicle (HGV) and Bus management area.

### **A12 Bypass (referred to as the two village bypass) (ID292)**

- 2.14.A.1.9 A new bypass to the south of Farnham and Stratford St Andrew to improve safety concerns within the villages and help facilitate HGV transport during the construction and operational phases of the development (Ref. 2.1). The bypass will be open to the public and will comprise a permanent 2.4 km single carriageway road. It will diverge from the A12 via a four-arm roundabout at Parkgate Farm and Stratford Plantation, passing to the south of the villages before re-joining the A12, via a new four-arm roundabout, to the east of Farnham at the A12 and A1094 (Friday Street) junction. The bypass will require associated infrastructure including a bridge across the River Alde, road lighting, drainage retention areas (Ref. 2.1).
- 2.14.A.1.10 The development will be constructed in the early years of the Sizewell C Project and is estimated to take up to 24 months (Ref. 2.1).
- 2.14.A.1.11 The bypass mostly crosses agricultural land, however it will also (Ref. 2.1):
- Cross over the River Alde and associated floodplain via an overbridge;
  - Pass to the south of Nuttery Belt and Pond Wood the latter of which is an ancient woodland;
  - Pass between Foxburrow Wood (also an ancient woodland) and Farnham Hall;
  - Intersect Public Rights of Way (PRoW) at the four locations:
    - E-243/001/0;
    - E-243/003/0;
    - E-243/004/0; and
    - E-243/006/0.
- 2.14.A.1.12 Once operational, the two village bypass is proposed to be a permanent bypass that would form a new section of the A12.



### **Yoxford roundabout and other highway improvements (ID293)**

- 2.14.A.1.13 A new roundabout linking the A12 and B1122 at Yoxford, 100m north of the existing A12/ B1122 junction. The roundabout would increase capacity of the existing A12 and B1122 junction to minimise disruption during the peak construction phase of the Sizewell C Project on the public road network. (Ref. 2.1).
- 2.14.A.1.14 To facilitate the construction of the roundabout, additional road improvement works will be required, including (Ref. 2.1):
- Realignment of the A12 and B1122 to meet the roundabout as well as required fence lines;
  - a new access road to maintain access to the row of houses south of the junction including Pinn's Piece and Rookery Lodge, as well as Public Right of Way (PRoW) E-584/020/0;
  - Across the roundabout's central island there would be a partially demountable section allowing for Abnormal Indivisible Loads (AILs) to pass through the proposed Yoxford roundabout; and
  - Landscaping and drainage.
- 2.14.A.1.15 The roundabout and associated infrastructure will take approximately nine months to complete.
- 2.14.A.1.16 In addition to Yoxford roundabout, improvements to the highway network are also proposed at the following locations which will take up to six months to complete:
- A1094/B1069 junction south of Knodishall: Improvements of visibility splays and provision of signage and road markings;
  - A12/A144 junction south of Bramfield: Provision of central reservation island and waiting area; and
  - A12/B1119 junction at Saxmundham: Improvements of visibility splays, alteration of the B1119 at the junction with the A12, and provision of signage and road markings.

### **Sizewell Link Road (ID295)**

- 2.14.A.1.17 The Sizewell link road would comprise a new, permanent, 6.8 kilometre (km) single carriageway road, with a design speed of 60 miles per hour (mph), which begins at the A12 south of Yoxford, and bypasses Middleton Moor and Theberton before joining the B1122. The bypass would reduce the amount of traffic on the B1122 through Middleton Moor and Theberton during the peak construction phase of the Sizewell C Project, and beyond. The bypass would open to the public and would be used by SZC Co. during the construction phase of the Sizewell C to transport construction workers arriving by car, buses from both the northern and the southern park and ride sites, and goods vehicles (both light and heavy) delivering freight to the Sizewell C main development site.
- 2.14.A.1.18 The link road starts at the A12 south of Yoxford, bypasses Middleton Moor and Theberton villages and joins the B1122 to the west of the Sizewell C main development site, east of Theberton. The construction of the Sizewell link road will take approximately 24 months. Associated infrastructure will include (Ref. 2.1):
- New bridges across the East Suffolk Rail Line and Pretty Road;

- A link road (Middleton Moor link) from the B1122 to the Sizewell link road west of Middleton Moor;
- Realignments of Fordley Road, Hawthorn Road, Pretty Road and the B1122 to meet the new road as well as the provision of accesses near Trust Farm, Hawthorn Road and Moat Road;
- Diversions/realignments of several PRow the link road will intersect;
- Portal culverts across watercourse crossings - two rivers (referred to as Middleton Watercourse and Theberton Watercourse) as well as three unnamed watercourses would be crossed. Some watercourses are crossed by both the route of the Sizewell link road as well as side roads;
- Drainage and landscaping; and
- Lighting at the A12 roundabout and the roundabout connecting the Middleton Moor link to the B1122 (Yoxford Road).

### **Park and Rides (Northern and Southern) (ID296 and ID297)**

- 2.14.A.1.19 Two park and ride facilities located at Darsham and Wickham Market villages. The northern park and ride facility (at Darsham) would intercept construction workers travelling on the A12 to the main development site from the north, whilst the southern park and ride (at Wickham Market) would intercept workforce travelling from the south. The park and rides would reduce the amount of additional traffic on local roads and through local villages.
- 2.14.A.1.20 The northern park and ride would be situated to the west of the A12, to the east of the East Suffolk line and to the north of Darsham rail station. Access to the site would be via a new temporary three arm roundabout, with works to Willow Marsh Lane and the temporary realignment of the A12 via the roundabout.
- 2.14.A.1.21 The southern park and ride would be located to the north-east of Wickham Market. Access to the site would be off the slip road from the B1078 which leads to the northbound A12.
- 2.14.A.1.22 Each park and ride facility will be staffed 20 people. The capacity of each park and ride facility includes (Ref. 2.1):
- 1,250 car parking spaces;
  - 10 van spaces;
  - 80 motorbike spaces;
  - Bus terminus and associated shelters;
  - Cycle parking for 20 bikes;
  - Onsite facilities such as toilets and security offices; and
  - external areas including roadways, footways, landscaping (including bunds) and drainage infrastructure.
- 2.14.A.1.23 The southern park and ride will also include a Traffic Incident Management Area (TIMA) to enable HGV emergency parking and a postal consolidation building.
- 2.14.A.1.24 Construction is anticipated to take approximately 12 to 18 months, and once completed bus services between the park and ride sites and the main development

site would travel on the A12 and the B1122. There would be a maximum of 100 daily bus arrivals and 100 daily bus departures. Buses would operate to accommodate the main development site construction shift pattern. During peak construction, the park and ride facilities would be operational between 05:00 and 01:00.

- 2.14.A.1.25 Once the need for the facilities have ceased, the buildings and associated infrastructure would be removed in accordance with a removal and reinstatement plan.

#### **Freight Management Facility at Seven Hills (ID294)**

- 2.14.A.1.26 A temporary freight management facility (FMF) located near Seven Hills and would assist in allowing a controlled pattern of deliveries to the main development site with reduced movements during peak or sensitive hours on the network.

- 2.14.A.1.27 The site will aid in the efficient delivery of materials via HGV and prevent congestion in the local area at peak delivery times. It would be a location where Heavy Goods Vehicles are held while they wait to enter the main development site or in the event of an accident on the local road network which prevents access to the main development site. The FMF would comprise:

- parking for approximately 150 Heavy Goods Vehicles;
- up to 12 car parking spaces for staff and visitors;
- up to ten spaces for minibuses/vans, up to four motorcycle parking spaces, and cycle parking for up to ten bicycles;
- security fencing and lighting;
- amenity and welfare and security buildings
- other ancillary development, including road markings, signage, lighting, closed circuit television and utilities; and
- external areas including roadways, footways, landscaping (including bunds), and drainage infrastructure.

- 2.14.A.1.28 Construction is anticipated to take approximately 12 to 18 months, and once completed the facilities would operate a minimum of 7.5 hours a day for 5 days a week, to a maximum of 24 hours 7 days per week during peak construction of the main development site.

- 2.14.A.1.29 Once the need for the facilities have ceased, the buildings and associated infrastructure would be removed in accordance with a removal and reinstatement plan.

#### **Rail upgrades to Saxmundham and Leiston Branch Line and Rail extension route (ID298)**

- 2.14.A.1.30 The “green rail route” in its entirety comprises a temporary rail extension of the existing Saxmundham to Leiston branch line to a terminal within the main development site.

- 2.14.A.1.31 Part of this temporary rail extension, referred to as the ‘proposed rail extension route’ encompasses 1.8km of the green rail route from a junction with the existing

Saxmundham to Leiston branch line up to the proposed B1122 (Abbey Road) level crossing, where it joins the main development site.

- 2.14.A.1.32 In addition to this, rail track upgrades and works on up to eight level crossings would be required on the Saxmundham to Leiston branch line to accommodate the additional freight trains that would operate on the green rail route.
- 2.14.A.1.33 The rail extension route would involve the following (Ref. 2.1):
- a temporary automated level crossing on Buckleswood Road;
  - diversion of a footpath via the Buckleswood Road level crossing;
  - a temporary automated level crossing where the rail extension crosses the B1122 (Abbey Road);
  - footpath diversions via the B1122 (Abbey Road) level crossing;
  - permanent relocation of the B1122 (Abbey Road) and Lover's Lane junction (considered as part of the main development site assessment);
  - sustainable drainage systems, including swales alongside the track; and
  - landscaping including the provision of landscape bunds, security fencing, grassed areas and other areas of proposed planting.
- 2.14.A.1.34 The track replacement on the Saxmundham to Leiston branch line comprises the renewal of the entire length of track from Saxmundham junction up to the Sizewell level crossing. The proposed upgrades would ensure that the existing track would meet Network Rail standards for freight transport. Upgrades would also be required on up to eight operational level crossings on the Saxmundham to Leiston branch line between the Saxmundham junction and the Sizewell level crossing.

## Location and Boundary

### Main Development Site

- 2.14.A.1.35 The location of the development is shown in Figure 2.14.2 The Sizewell C main development site.
- 2.14.A.1.36 The Sizewell C main development site is situated 2.47km north to the Suffolk Onshore Scheme draft Order Limits, immediately north of Sizewell B power station and 5.63 km north of Thorpeness village. The new development will consist of nuclear and conventional islands, cooling water pumphouses, ancillary buildings, marine and terrestrial works, and infrastructure (Ref. 2.1).

### A12 Bypass

- 2.14.A.1.37 The location of the development is shown in Figure 2.14.3 A12 Bypass (the 'two village' bypass).
- 2.14.A.1.38 The bypass turns off the A12 at Stratford St Andrew village at Parkgate Farm before travelling 2.4km to Farnham village, re-joining the present A12 at roundabout close to Friday Street junction and the A1094 (Ref 2.2).

### **Yoxford roundabout**

- 2.14.A.1.39 The location of the development is shown in **Figure 2.14.4 Yoxford Roundabout**.
- 2.14.A.1.40 Located near the A12 and B1122 at Yoxford, 100m north of the existing A12/B1122 junction (Ref. 2.1).

### **Freight management facility**

- 2.14.A.1.41 The location of the development is shown in Figure 2.14.5 Freight management facility at Seven Hills.
- 2.14.A.1.42 The FMFs will be located at two areas. One will be located on the A12/ A14 at the Seven Hills site across 9.9ha accessed via Old Felixstowe Road. The second will be located on land owned by Innocence Farm site across 9ha accessed via Croft Lane (Ref. 2.1).

### **Sizewell Link Road**

- 2.14.A.1.43 The location of the development is shown in **Figure 2.14.6 Sizewell link road**.
- 2.14.A.1.44 The link road will be located between Yoxford on the A12 before travelling 6.8km to southwest of the existing B1122. Along the way it will bypass Middleton Moor and Theberton villages (Ref. 2.1).

### **Park and Ride (Northern and Southern)**

- 2.14.A.1.45 The location of the development is shown in Figure 2.14.7 Northern park and ride and Figure 2.14.8 Southern park and ride.
- 2.14.A.1.46 The park and ride car parks will be located near Darsham and Wickham Market villages adjacent to the A12. Wickham Market park and ride will be adjoined to Willow Marsh Lane (Ref. 2.1).

### **Rail upgrades to Saxmundham and Leiston Branch Line and Rail extension route**

- 2.14.A.1.47 The location of the development is shown in Figure 2.14.9 Rail upgrades to Saxmundham and Leiston Branch Line and Rail extension route.
- 2.14.A.1.48 The Green rail route will travel from the Saxmundham to Leiston line with the junction being 1.5km west of Leiston to the main Sizewell C development to the northeast of the new rail junction (Ref. 2.1).

### **Developmental and Construction Timeframes**

- 2.14.A.1.49 A decision on DCO application for Sizewell C was made by the Secretary of State for Business, Energy and Industrial Strategy (referred to hereafter as the Secretary of State) on the 20 July 2022 (Ref. 2.1).
- 2.14.A.1.50 Construction is due to commence in 2024 with a duration of 9 -12 years (Ref. 2.1).



## 2.14.A.3 East Anglia ONE North Offshore Windfarm (ID5)

### Description

- 2.14.A.1.51 A nationally significant infrastructure project comprising an offshore wind farm and associated infrastructure applied for by Scottish Power Renewables (SPR).
- 2.14.A.1.52 The offshore wind farm would be approximately 37.7 km from the Suffolk coast at its nearest point to Lowestoft and extend across 208 km<sup>2</sup> consisting of 67 turbines with a combined electricity generation capacity of 800 MW, and form an extension to the existing East Anglia ONE array (Ref. 2.2). It is part of the East Anglia Hub which includes three arrays off the coast of Suffolk. The offshore development will also include up to four offshore electrical platforms and sub-sea cables.
- 2.14.A.1.53 The onshore aspect of the development will include:

### Landfall

- 2.14.A.1.54 The landfall of the export cable on Thorpe Beach will utilise Horizontal Directional Drilling (HDD) to install the ducts to avoid any construction works on the beach, and a minimum setback distance of 85 m from the cliff top will allow for natural coastal erosion based on the potential 100-year erosion prediction and will not compromise the integrity of the cliff (Ref. 2.3).

### Onshore Cable

- 2.14.A.1.55 Up to six single core onshore cables will be buried for a maximum of 9km to connect the landfall with the National Grid Electrical Transmission Network (Ref. 2.3).

### Onshore Substation

- 2.14.A.1.56 A new, 32,300 m<sup>2</sup> onshore substation at Friston with a height of up to 14m with lightning protection up to a maximum of 20 m above finished ground level. (Ref. 2.2 and Ref. 2.3). The substation will connect the cable to the National Grid OHL network. This will be constructed alongside a new proposed East Anglia TWO substation (see Section 2.14.A.4) and National Grid substation (described below) 1km north of Friston.

### National Grid Substation

- 2.14.A.1.57 A new substation is proposed to be located to the north of the Onshore Substation and is to be either a National Grid Air Insulated Switchgear (AIS) or Gas Insulated Switchgear (GIS) substation. The maximum height of the AIS would be 6 m with a footprint of 145x310 m and the maximum height of the GIS would be 16 m with a footprint of 120x140 m. The National Grid substation will connect into the National Grid 400kV overhead lines (Ref. 2.3). The National Grid Substation will either be constructed as part of this development, the East Anglia TWO substation (see section 2.14.A.4) or the Proposed Project.

### National Grid OHL Re-alignment

- 2.14.A.1.58 Realignment of National Grid overhead lines (OHL) to connect the new substations for East Anglia ONE North and East Anglia TWO with the main grid network, along

with network strengthening and adjustment (Ref. 2.3). This will likely involve an upgrade and modification to the existing OHLs, which will require one additional overhead line pylon (as well as up to three cable sealing end compounds, up to one cable sealing end (with circuit breaker) compound) (Ref. 2.3).

### **Public Highway Improvement**

- 2.14.A.1.59 A number of road improvements or modifications will be required to facilitate the ingress and egress from the public highways for construction access or at locations on the existing public road network in order to facilitate construction traffic and/or construction-related deliveries. (Ref. 2.3).

### **Location and Boundary**

- 2.14.A.1.60 The East Anglia ONE North Offshore Windfarm area is approximately 37.7km from the Suffolk coast at its nearest point to Lowestoft (Ref. 2.3). Part of the onshore components of the East Anglia ONE North Offshore Windfarm are located within the draft Order Limits of the Suffolk Onshore Scheme The location of this development is shown in **Figure 2.14.10 East Anglia ONE North Offshore Windfarm**.

### **Export Cable Landfall Location**

- 2.14.A.1.61 The two planned export cables will make landfall immediately north of the village of Thorpeness on the Thorpe Ness beach (Ref 2.5).

### **Onshore Cable**

- 2.14.A.1.62 The onshore boundary extends 9km inland west of Grove Road, approximately 0.97km from the village of Knodishall (Ref 2.6)). These sections and the overall project onshore boundary and Development Order Limits are detailed in **Figure 1.1.1 Draft Order Limits**.

### **Onshore Substation**

- 2.14.A.1.63 The East Anglia ONE North substation will be situated approximately 1km north of Friston village immediately northwest of Grove Road (Ref 2.5). It will be constructed alongside the proposed East Anglia TWO substation and the National Grid substation, both at Friston.

### **Developmental and Construction Timeframes**

- 2.14.A.1.64 The DCO was made by the Secretary of State on the 31 March 2022 (Ref 2.4). Construction is due to commence in 2023 and finish in 2026 (Ref 2.4). Currently the project's planned operational lifespan is 25 years until 2051 (Ref 2.4).

## **2.14.A.4 East Anglia TWO Offshore Windfarm (ID6)**

### **Description**

- 2.14.A.1.65 A nationally significant infrastructure project comprising an offshore wind farm and associated infrastructure applied for by SPR.

2.14.A.1.66 The offshore wind farm would be approximately 32.6 km from the Suffolk coast at its nearest point off Southwold and 37.5 km to Lowestoft, and extend across 218.4 km<sup>2</sup> consisting of up to 75 turbines with a combined electricity generation capacity of 900MW (Ref. 2.4 and Ref. 2.5). The offshore development will also include up to four offshore electrical platforms and sub-sea cables.

2.14.A.1.67 The onshore aspect of the development will include:

#### **Landfall**

2.14.A.1.68 The landfall on Thorpe Ness beach will utilise HDD to install the ducts to avoid any construction works on the beach, and a minimum setback distance of 85m from the cliff top will allow for natural coastal erosion based on the potential 100-year erosion prediction and will not compromise the integrity of the cliff (Ref. 2.5).

#### **Onshore Cable**

2.14.A.1.69 Up to six single core onshore cables will be buried for a maximum of 9km to connect with the National Grid Electrical Transmission Network (Ref. 2.5).

#### **Onshore Substation**

2.14.A.1.70 A new, 32,300m<sup>2</sup> onshore substation with a height of up to 15m with external electrical apparatus being 18m high (Ref. 2.5). The substation will connect the cable to the National Grid OHL network (Ref. 2.4). It will be constructed adjacent to the proposed East Anglia One North Substation (see Section 2.14.A.3) and National Grid substation (described below) 1km north of Friston.

#### **National Grid Substation**

2.14.A.1.71 A new substation is currently proposed to be located to the north of the Onshore Substation and is to be either a National Grid Air Insulated Switchgear (AIS) or Gas Insulated Switchgear (GIS) substation. The maximum height of the AIS would be 6m with a footprint of 145x310m and the maximum height of the GIS would be 16m with a footprint of 120x140m (Ref. 2.5). The National Grid substation will connect into National Grid 400kV overhead lines. The National Grid Substation will either be constructed as part of this development, the East Anglia ONE North substation (see section 2.14.A.3) or the Proposed Project.

#### **National Grid OHL Re-alignment**

2.14.A.1.72 Realignment National Grid overhead lines (OHL) to connect the new substations for East Anglia ONE North and East Anglia TWO with the main grid network, along with network strengthening and adjustment (Ref. 2.5). This will likely involve an upgrade and modification to the existing OHLs, which will require one additional overhead line pylon (as well as up to three cable sealing end compounds, up to one cable sealing end (with circuit breaker) compound) (Ref. 2.5).

#### **Public Highway Improvement**

2.14.A.1.73 A number of road improvements or modifications will be required to facilitate the ingress and egress from the public highways for construction access or at locations on the existing public road network in order to facilitate construction traffic and/or construction-related deliveries (Ref. 2.5).

## Location and Boundary

- 2.14.A.1.74 The East Anglia TWO Offshore Windfarm is located approximately 32.6km from the Suffolk coast at its nearest point off Southwold and 37.5km to Lowestoft and crosses the Suffolk Coasts and Heaths Area of Outstanding Natural Beauty (AONB). Part of the onshore components of the East Anglia Two Offshore Windfarm are located within the draft Order Limits of the Suffolk Onshore Scheme. The location of this development is shown in **Figure 2.14.11 East Anglia TWO Offshore Windfarm**.

### Export Cable Landfall Location

- 2.14.A.1.75 The two planned export cables will make landfall immediately north of the village of Thorpeness on the Thorpe Ness beach (Ref. 2.5).

### Onshore Cable

- 2.14.A.1.76 The onshore boundary extends 9 km inland west of Grove Road, approximately 0.97 km from the village of Knodishall. The overall project onshore boundary and Development Order Limits are detailed in **Figure 1.1.1 Draft Order Limits**

### Onshore Substation

- 2.14.A.1.77 The East Anglia TWO substation will be situated approximately 1km north of Friston village immediately northwest of Grove Road (Ref. 2.5). It will be constructed alongside the proposed East Anglia ONE North substation and the National Grid substation, both at Friston.

### National Grid OHL Realignment

- 2.14.A.1.78 The new and reconstructed pylons and OHL will be situated to facilitate the increased substation infrastructure north of Friston.

## Developmental and Construction Timeframes

- 2.14.A.1.79 The DCO application was made by the Secretary of State on the 31 March 2022. Construction on the project is planned for 2023 with eventual completion in 2030 (Ref. 2.4). Once completed the development will be in operation for 25 years (Ref. 2.5).

## 2.14.A.5 Nautilus Offshore Interconnector (ID7)

### Description

- 2.14.A.1.80 A 1.4GW capacity multipurpose interconnector (MPI) connecting Belgium with the Suffolk Coast being developed by National Grid Ventures (NGV) (Ref 2.12). The aim will be to increase transfer in offshore wind electricity generation and improve grid capacity in both countries to achieve this. Along with the subsea HVDC cable and offshore HVDC converter platform the project includes several developments onshore in Suffolk (Ref. 2.6):

- Subsurface HVDC cables
- Onshore HVDC converter station

- Subsurface HVAC cables
- 2.14.A.1.81 Five potential options are being considered for the landfall between onshore and offshore cables including Thorpeness beach (A – D) or Haven beach (E) (Ref. 2.6)
- 2.14.A.1.82 An NGV Converter station to convert the HVDC underground cable to the HVAC underground cable (Ref. 2.6 and Ref. 2.7) will be required. NGV have shortlisted five converter station search areas.
- 2.14.A.1.83 Works would be required to the proposed Friston Substation (which would be brought forward as part of the Proposed Project or the East Anglia One North Offshore Windfarm Scheme/East Anglia Two Offshore Windfarm) to facilitate a connection for this NGV Schemewhich will likely require an extension to the proposed substation.

## Location and Boundary

- 2.14.A.1.84 The locations within this development are shown in **Figure 2.14.12 Nautilus Offshore Interconnector**. Part of the onshore components of the Nautilus Offshore Interconnector are located within the draft Order Limits of the Suffolk Onshore Scheme.
- 2.14.A.1.85 Landfall location options A, B, C and D are located between Sizewell and Thorpeness with location option E is located approximately 1.5 km south of Thorpeness at the Haven beach (Ref. 2.7).
- 2.14.A.1.86 Three proposed cable route corridors are being considered (Ref. 2.7):
- Shared route for the Northern and Southern Cable Corridor: Extended from each of the landfall location options approximately 1.5km inland (referred to as the ‘shared corridor’ (Ref. 2.7));
  - Northern Cable Corridor: Travelling north of the shared corridor for approximately 1km to Leiston Common before travelling west 3km to between Leiston Abbey and Theberton Wood. The corridor then travels SSW towards Saxmundham past Knodishall Green, crossing the Saxmundham- Leiston rail line; and
  - Southern Cable Corridor: Travelling 6.5km west of the shared corridor to immediately east of Sternfield village.
- 2.14.A.1.87 The potential Nautilus converter station site being considered include the following locations:
- CSA1- A 86.92ha area south of Sternfield, 0.5km west of Friston and north of the A1094 (Approximate OS Grid Ref: 395, 603);
  - CSA2- A 48.91ha area immediately south of the B1119 and north of Bloomfield Covert Wood east of Wood Farm (Approximate OS Grid Ref: 399, 625);
  - CSA3- A 31.44ha area immediately south of Theberton Woods and north of Harrow Lane (Approximate OS Grid Ref: 415, 650);
  - CSA4- A 61.92ha area immediately south of Saxmundham Road, north of School Road and east of Pattle’s Farm (Approximate OS Grid Ref: 419, 623); and
  - CSA5- A 49.58ha area northeast of Knodishall, west of Leiston and immediately south of Saxmundham Road (Approximate OS Grid Ref: 434, 622).



## Developmental and Construction Timeframes

- 2.14.A.1.88 Non statutory consultation and community engagement closed in October 2021 (Ref. 2.8) with assessments and engineering to support the relevant consents currently underway.
- 2.14.A.1.89 NGV currently holds a connection agreement on the Isle of Grain in Kent as part of its development portfolio and they are currently investigating if this could be a potential location for Nautilus (Ref. 2.8).

### 2.14.A.6 High Lodge Leisure (ID221)

#### Description

- 2.14.A.1.90 The redevelopment of the golf course and vacant paddock land at the existing High Lodge Leisure. The new development will include (Ref. 2.9):
- 170 holiday lodges;
  - 3 tree houses;
  - New facilities building;
  - Maintenance and housekeeping building; and
  - Car parking and associated road works.

#### Location and Boundary

- 2.14.A.1.91 The location of this development is shown in **Figure 2.14.13 High Lodge Leisure** and is located 8.23km north of the draft Order Limits of the Suffolk Onshore Scheme.

## Developmental and Construction Timeframes

- 2.14.A.1.92 Planning permission was granted by East Suffolk Council on the 23 February 2021 (Ref. 2.9).

### 2.14.A.7 Croft Farm land and buildings (ID228)

#### Description

- 2.14.A.1.93 The conversion of agricultural land and part of an agricultural building into a 30 caravan capacity site with associated facilities such as toilets, showers and reception facilities (Ref. 2.11).

#### Location and Boundary

- 2.14.A.1.94 The location of this development is shown in **Figure 2.14.14 Croft Farm land and buildings** and is located 2.29km west of the draft Order Limits of the Suffolk Onshore Scheme.
- 2.14.A.1.95 The development of the caravan site at Croft Farm is near the village of Snape at (Ref 2.18)

## Developmental and Construction Timeframes

- 2.14.A.1.96 Planning permission was granted by East Suffolk Council on the 8 October 2021 (Ref. 2.11).

### 2.14.A.8 Park Farm Solar Farm (ID233)

#### Description

- 2.14.A.1.97 Erection of a solar photovoltaic (PV) array, with a total export capacity of up to 21 MW. Each of the solar panels will be mounted on a fixed panel system. Relevant associated infrastructure includes such as transformers, private switchgear and DNO switchgear (Ref. 2.12).

#### Location and Boundary

- 2.14.A.1.98 The location of this development is shown in **Figure 2.14.15 Park Farm Solar Farm** and is located 10.79km south west of the draft Order Limits of the Suffolk Onshore Scheme.
- 2.14.A.1.99 The land that will be developed is owned by Park Farm, IP13 0NW. It is located next to Loudham Road, 1.5km southeast of Wickham, Suffolk and east of the A12 road (Ref. 2.12).

## Developmental and Construction Timeframes

- 2.14.A.1.100 The planning application was submitted to East Suffolk Council on the 10 December 2021 (Ref. 2.12). It is still waiting for a decision from East Suffolk Council (Ref. 2.12).

### 2.14.A.9 Rock Barracks Heath Road Solar Farm (ID290)

#### Description

- 2.14.A.1.101 A planning application for a proposed 3.44ha, 1.5MW electricity generation capacity photovoltaic solar farm with associated infrastructure, with associated infrastructure; security fencing; CCTV, access gate and cable route. (Ref. 2.14). The development will be operated and owned on Ministry of Defence (MoD) land at Rock Barracks.
- Location and Boundary
- 2.14.A.1.102 The location of this development is shown in **Figure 2.14.28 Rock Barracks Heath Road Solar Farm** and is located 15.5km south west of the draft Order Limits of the Suffolk Onshore Scheme.

## Developmental and Construction Timeframes

- 2.14.A.1.103 The planning application was submitted on 16 March 2020 and was granted on 25 August 2020 (Ref. 2.14).

## 2.14.A.10 Residential Development, Brightwell Lakes (ID240)

### Description

- 2.14.A.1.104 Outline planning permission for up to 2000 residential properties and additionally includes a school across a 5ha site, green infrastructure, outdoor play areas, a 8ha sports ground and public footpaths and cycleways (Ref. 2.15). In total, the site will cover 112ha (Ref 2.24) and it will be developed by Taylor Wimpey (Ref. 2.16). The construction of the residential development will happen in phases.

### Location and Boundary

- 2.14.A.1.105 The location of this development is shown in **Figure 2.14.16 Residential Development, Brightwell Lakes** and is located 21.99km south of the draft Order Limits of the Suffolk Onshore Scheme.
- 2.14.A.1.106 The first phase development will be spread across two sites (parcels) (Ref 2.25). This will include a parcel next to the A12 road and southeast of Adastral Business Park (195 homes) and another parcel on Ipswich Road (122 homes) (Ref 2.25).

### Developmental and Construction Timeframes

- 2.14.A.1.107 Phase 1 of the application, comprising 371 will be launched by Autumn 2023 (Ref. 2.16).

## 2.14.A.11 Residential Development, Darsham Station (ID245)

### Description

- 2.14.A.1.108 The erection of up to 110 residential dwellings, public open space and associated infrastructure (Ref. 2.20).

### Location and Boundary

- 2.14.A.1.109 The location of this development is shown in **Figure 2.14.17 Residential Development, Darsham Station** and is located 15.5km south west of the draft Order Limits of the Suffolk Onshore Scheme.
- 2.14.A.1.110 The residential development is planned to be undertaken on arable land 200m south of Darsham Station on the A12 road (Ref. 2.20).

### Developmental and Construction Timeframes

- 2.14.A.1.111 The full planning application was submitted on the 25 August 2021 but a decision from East Suffolk Council is still pending (Ref. 2.20).

## 2.14.A.12 Solar Farm, Parham, Suffolk (ID248)

### Description

- 2.14.A.1.112 Land for the development of a 74ha photovoltaic solar farm and associated infrastructure such as perimeter fences and CCTV cameras. The development also includes an underground 3km cable connecting to a substation southwest of Parham, Suffolk. The site will be developed by Low Carbon Park 3 (Ref. 2.22).

### Location and Boundary

- 2.14.A.1.113 The location of this development is shown in **Figure. 2.14.27 Solar Farm, Parham, Suffolk** The land that will be developed across 6 agricultural fields totalling 74ha, north and south of New Road, east of Silverlace Green, Parham, Suffolk (Ref. 2.22).

### Developmental and Construction Timeframes

- 2.14.A.1.114 The planning application was submitted to East Suffolk Council on the 1 March 2021. Planning Permission was subsequently granted on 13 October 2021 (Ref. 2.22). Cross referencing on Google Earth sections of this development have already been constructed.

## 2.14.A.13 Proposed reservoir, Grange Farm (ID263)

### Description

- 2.14.A.1.115 An EIA screening opinion for a proposed reservoir on land owned by Grange Farm (Ref. 2.23).

### Location and Boundary

- 2.14.A.1.116 The location of this development is shown in **Figure 2.14.18 Proposed reservoir, Grange Farm**.
- 2.14.A.1.117 The site of the proposed reservoir is on land owned by Grange Farm, Westleton, Suffolk. It will be located immediately south of The Wildness wood between Yoxford Road to the south and Darsham Road to the north.

### Developmental and Construction Timeframes

- 2.14.A.1.118 An EIA was considered as not required by East Suffolk Council on the 16 August 2022 (Ref. 2.23).

## **2.14.A.14 Saxmundham to Peasenhall Water Mains Installation (ID266)**

### **Description**

- 2.14.A.1.119 An EIA screening opinion on a 250mm diameter water pipeline running 7.7km between Lodgewood Water Tower, Peasenhall to Saxmundham Water Tower (Ref. 2.25). It is being developed by Essex and Suffolk Water (Ref 2.34).

### **Location and Boundary**

- 2.14.A.1.120 The location of this development is shown in Figure 2.14.19 Saxmundham to Peasenhall Water Mains Installation.
- 2.14.A.1.121 The route for the water pipeline travels 7.7km from Lodgewood Water Tower, Peasenhall to Saxmundham Water Tower (Ref. 2.25).

### **Developmental and Construction Timeframes**

- 2.14.A.1.122 An EIA was considered as not required by East Suffolk Council on the 8 August 2018 (Ref. 2.25). No construction timeframe is currently available.

## **2.14.A.15 Sizewell B Relocated Facilities (ID270 and ID271)**

### **Description**

- 2.14.A.1.123 Sizewell B Nuclear Power Station (referred to hereafter as Sizewell B) is a pressurised water nuclear reactor (PWR) with a combined energy generation capacity of 1198MW developed and managed by EDF Energy Nuclear Generation Limited (EDF Energy (NGL)) (Ref 2.40). EDF Energy (NGL) sought permission for the relocation of existing facilities at Sizewell B that are currently located on the proposed Sizewell C nuclear power station site or otherwise impacted as a consequence of the relocation of the facilities from the proposed Sizewell C land (Ref. 2.26 and Ref. 2.27).
- 2.14.A.1.124 The facilities to be relocated and consolidated are ancillary to the process of electricity generation at Sizewell B and have a broad range of functions, including industrial, workplace, education, cultural and infrastructure (Ref. 2.26 and Ref. 2.27). The application also included felling of coronation wood (to accommodate some of the relocated facilities including the training centre, visitor centre and some of the car parking) and a landscape scheme on Pillbox Field to the south of Sizewell B (Ref. 2.26 and Ref. 2.27).

### **Location and Boundary**

- 2.14.A.1.125 The location of this development is shown in Figure 2.14.20 The Sizewell B Relocated Facilities.
- 2.14.A.1.126 Sizewell B is located 5.63km north of Thorpeness village and 6.6km of Leiston village.



- 2.14.A.1.127 All relocated facilities except for the Outage Store are located immediate west of the Sizewell A Complex on already developed Sizewell A land or on the present Coronation Wood.
- 2.14.A.1.128 The Outage Store is located between the main Sizewell A and Sizewell B Nuclear Power Stations, south of the Sizewell B Turbine Hall (Ref. 2.26 and Ref. 2.27), within the NSL boundary.
- 2.14.A.1.129 Pillbox Field is located south of Sizewell A complex.

### Developmental and Construction Timeframes

- 2.14.A.1.130 Construction works for the development have commenced, with felling of Coronation Wood occurring in 2021. Works would broadly take place in two phases over an approximate 52-month period.

## 2.14.A.16 Town Farm Solar Farm (ID277)

### Description

- 2.14.A.1.131 A planned development for a 21MW electricity generation capacity photovoltaic solar farm developed by BSR Energy (Ref. 2.31). It will also include associated infrastructure including transformers, private switchgear and DNO switchgear (Ref. 2.31).

### Location and Boundary

- 2.14.A.1.132 The location of this development is shown in **Figure 2.14.21 Town Farm Solar Farm**.
- 2.14.A.1.133 The land that will be developed is owned by Town Farm, IP17 2RJ. It is located 2.8km north of Saxmundham and west of the A12 road (Ref. 2.31).

### Developmental and Construction Timeframes

- 2.14.A.1.134 Currently there is no construction timeframe although construction was planned for 2022 (Ref. 2.31). This is due to the full planning application being validated on the 5 January 2022 is still awaiting a decision from East Suffolk Council.

## 2.14.A.17 UKZ139 BC Wissett Solar Farm (ID279)

### Description

- 2.14.A.1.135 An EIA screening opinion request for a planned development for a 21MW electricity generation capacity photovoltaic solar farm (Ref. 2.32). The solar farm will cover 87.5ha of farmland and includes solar panels and associated infrastructure including security equipment, switchgear and transformers. A 10MW energy storage system across 10 containers will also be included.

## Location and Boundary

- 2.14.A.1.136 The location of this development is shown in **Figure 2.14.22 UKZ139 BC Wissett Solar Farm**.
- 2.14.A.1.137 The development across on 87.5ha of agricultural land north of Grey's Lane, Halesworth, Suffolk, IP17 0JR. It is 1.8km north of Wissett Village. Developmental and Construction Timeframes
- 2.14.A.1.138 Upon the submission of the screening opinion a further EIA was considered as not required by East Suffolk Council on the 19 November 2021 (Ref. 2.32). Further information of the progress of this development nor the construction timeframe could be found.

## 2.14.A.18 Brundish Manor Solar Farm (ID285)

### Description

- 2.14.A.1.139 A planned development for the siting of a 45kV photovoltaic solar array in paddock developed by Greensmart Renewables Ltd. It includes 180 photovoltaic solar panels and associated infrastructure (Ref. 2.33).

### Location and Boundary

- 2.14.A.1.140 The location of this development is shown in **Figure 2.14.23 Brundish Manor Solar Farm**.

### Developmental and Construction Timeframes

- 2.14.A.1.141 The planning application was granted by Mid Suffolk Council on the 18 February 2021 (Ref. 2.33). No available information available regarding the solar farm's construction timeframe.

## 2.14.A.19 LionLink Offshore Interconnector (ID287))

### Description

- 2.14.A.1.142 Formally known as EuroLink, a 1.8GW MPI connecting the Netherlands and the UK developed by NGV. The aim will be to increase transfer in offshore wind electricity generation and improve grid capacity in both countries to achieve this (Ref. 2.34). This aims to advance key NGV and UK Government goals including transitioning to Net Zero by 2030, enhancing energy security and affordability (Ref 2.48). The onshore scope of the development in Suffolk includes:
- Subsurface HVDC cables
  - Onshore HVDC converter station
  - Subsurface HVAC cables
- 2.14.A.1.143 In the first round of non-statutory consultation, four potential options were being considered for the landfall between onshore and offshore cables (E- H) between Southwold and Thorpeness. (Ref. 2.37 and Ref. 2.38).

- 2.14.A.1.144 Buried HVDC cables will connect the landfall to an onshore converter station site and then buried HVAC will connect from the converter station to the substation proposed in Friston (which would be brought forward as part of the Proposed Project or the East Anglia One North Offshore Windfarm Scheme/East Anglia Two Offshore Windfarm) (Ref. 2.37).
- 2.14.A.1.145 Four options are being considered for the location of the converter station (Ref. 2.39) which are described below under Location and Boundary.
- 2.14.A.1.146 Works would be required to the proposed Friston Substation (which would be brought forward as part of the Proposed Project or the East Anglia One North Offshore Windfarm Scheme/East Anglia Two Offshore Windfarm) to facilitate a connection for this NGV Schemewhich will likely require an extension to the proposed substation.

## Location and Boundary

- 2.14.A.1.147 The location of this development is shown in Figure 2.14.24 LionLink Offshore Interconnector.
- 2.14.A.1.148 The development boundaries are constituted of multiple siting options as the current stage of development.

## HVDC Landfall Siting Options

- 2.14.A.1.149 The location of the landfall site is still to be decided. There are four potential HVDC landfall sites currently being assessed from Southwold in the north to Thorpeness in the south (Ref. 2.38):
- Site E- A 2ha area approximately 1.6km south of Thorpeness with the eastern boundary immediately adjacent to the Hundred River and Thorpe Road;
  - Site F- A 2ha area approximately 1.6km north of North Road, Southwold;
  - Site G- A 2ha area southeast of Ferry Road, Walberswick and Dunwich River; and
  - Site H- A 2ha area approximately 2.4km southeast of Westleton Road, Dunwich and east of Minsmere Road.

## Onshore HVDC and HVAC cables

- 2.14.A.1.150 The proposed cable corridor search area spans between landfall Site E, Thorpeness in the south to Site F, Southwold (Ref. 2.37).

## Converter Station Siting Options

- 2.14.A.1.151 The location of the Converter Station is still to be decided. There are four potential LionLink onshore converter station sites within the vicinity of the Leiston area (Ref. 2.39):
- Site 1: A 5ha area east of Snape Road and north of Aldeburgh Road, Knodishall;
  - Site 3: A 5ha area south of B1119, Saxmundham;

- Site 4: A 5 ha area north of Harrow Lane and south Moat Road; and
- Site 5: A 5ha area east of Grove Road and west of Hundred River, south of Saxmundham Road and north of School Road.

## Developmental and Construction Timeframes

- 2.14.A.1.152 The first round of non statutory consultation and community engagement closed on the 18 December 2022. At the time of writing, second round of non-statutory consultation is being undertaken (between 08 September to 03 November 2023), which includes the addition of an alternative landfall at Walberswick and alternative route corridor to the north of Walberswick (Ref. 2.40, Ref. 2.41 and Ref. 2.42). However due to the timing of events, these additions have not been considered within the cumulative assessment presented in Part 2, Chapter 14.
- 2.14.A.1.153 NGV aims to submit an application for development consent in 2025, with construction to commence between 2027 and 2031 under the current schedule (Ref 2.48).

### 2.14.A.20 Norwich to Tilbury (ID288)

#### Description

- 2.14.A.1.154 Formerly known as East Anglia Green Energy Enablement (GREEN) project, this development comprises the construction and operation of new electricity transmission reinforcement over a distance of approximately 183 km and a new connection substation (Ref. 2.43 and Ref. 2.44).
- 2.14.A.1.155 The current proposals comprise mostly of overhead line and pylons, along with some underground cables from Flowton to Bramford substation, from the Capel St Mary area through the Dedham Vale Area of Outstanding Natural Beauty (AONB) and continuing to the proposed new substation near Lawford, and in the Great Horkesley and Fairstead areas.
- 2.14.A.1.156 Cable Sealing End (CSE) compounds would be required to connect sections of underground cable with the overhead lines. Each CSE compound would be fenced and would contain electrical equipment, support structures, a small control building and a permanent access track.
- 2.14.A.1.157 The new substation would contain high voltage electrical equipment, such as transformers, circuit breakers and shunt reactors, support structures and control buildings.
- 2.14.A.1.158 Work would be required at the existing 400,000 volt (400 kV) substations at Norwich, Bramford and Tilbury.
- 2.14.A.1.159 Other ancillary activities would be required to facilitate the construction and operation of the project. These include, but are not limited to temporary use of land to facilitate construction activities including working areas for construction equipment and machinery, site offices, welfare, storage and access; and land required for mitigation, compensation and enhancement of the environment.

## Location and Boundary

- 2.14.A.1.160 The location of this development is shown in **Figure 2.14.25 Norwich to Tilbury**.
- 2.14.A.1.161 The main OHL will run between Norwich main substation to the Norfolk to Tilbury main substation, Essex (Ref. 2.43 and Ref. 2.44). The route of the OHL through Mid Suffolk is 24km from the Project Scoping Boundary.

## Developmental and Construction Timeframes

- 2.14.A.1.162 The first round of non-statutory consultation finished in June 2022 and a second round non-statutory consultation finished in August 2023. It is anticipated that an application for development consent will be submitted in 2025 with decision expected in 2026 (Ref 2.54). Construction expected between 2027 and 2031 (Ref 2.54).

## 2.14.A.21 South Saxmundham Garden Neighbourhood (ID291)

### Description

- 2.14.A.1.163 Strategic allocation for 800 homes plus employment/community facilities included within the Suffolk Coastal Local Plan which was adopted in September 2020 (Ref. 2.45). The plan aims to outline the environmentally and socioeconomically responsible development of land in Saxmundham Parish between 2022 and 2037 (Ref 2.58).

### Location and Boundary

- 2.14.A.1.164 The location of this development is shown in Figure 2.14.26 Saxmundham South Garden Neighbourhood.
- 2.14.A.1.165 The local development plan encompasses the Saxmundham Parish Boundary. A 66.6ha area south of Saxmundham village was identified as the primary area for planned housing development in the parish (Ref. 2.45).

### Developmental and Construction Timeframes

- 2.14.A.1.166 The strategic allocation of the housing aims to complete the development by 2037 (Ref. 2.45). Currently no planning application has been submitted by a developer to East Suffolk Council.

## 2.14.A.22 References

Ref. 2.1: SZC Co. The Sizewell C Project. The documents associated with the planning application and examination for The Sizewell C Project are available for download on the Planning Inspectorate Website at: <https://infrastructure.planninginspectorate.gov.uk/projects/eastern/the-sizewell-c-project/> [January 2023].

Ref. 2.2 Scottish Power Renewables (2021). East Anglia ONE North. The documents associated with the planning application and examination for East Anglia ONE North are available for download on the Planning Inspectorate Website,



<https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-one-north-offshore-windfarm/?ipcsection=docs> [October 2023].

Ref. 2.3 Scottish Power Renewables. Project Description, available at: [https://www.scottishpowerrenewables.com/pages/east\\_anglia\\_one\\_north.aspx](https://www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx) [October 2023]

Ref. 2.4 Scottish Power Renewables (2021). East Anglia TWO. The documents associated with the planning application and examination for East Anglia TWO are available for download on the Planning Inspectorate Website, <https://infrastructure.planninginspectorate.gov.uk/projects/eastern/east-anglia-two-offshore-windfarm/?ipcsection=overview> [October 2023].

Ref. 2.5 Scottish Power Renewables. Project Description, available at: [https://www.scottishpowerrenewables.com/pages/east\\_anglia\\_two.aspx](https://www.scottishpowerrenewables.com/pages/east_anglia_two.aspx) [October 2023]

Ref. 2.6 National Grid Ventures (2022). Nautilus Interconnector. [online] Available at: <https://www.nationalgrid.com/national-grid-ventures/interconnectors-connecting-cleaner-future/nautilus-interconnector> [January 2023].

Ref. 2.7 National Grid Ventures (2021). Initial siting and routing options – non-statutory consultation September – October 2021. [online] Available at: <https://www.nationalgrid.com/document/143521/download> [January 2023].

Ref. 2.8 National Grid Ventures (2023). Nautilus <https://www.nationalgrid.com/national-grid-ventures/interconnectors-connecting-cleaner-future/nautilus-interconnector> [January 2023].

Ref. 2.9 East Suffolk Council (2020). High Lodge Leisure Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=QF7QUWQXLN300&activeTab=summary> [January 2023].

Ref. 2.10 High Lodge Leisure (2023). High Lodge. [online] Available at: <https://www.highlodge.co.uk/> [January 2023].

Ref. 2.11 East Suffolk Council (2021). Croft Farm land and buildings Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/simpleSearchResults.do?action=firstPage> [January 2023].

Ref. 2.12 East Suffolk Council (2021). Park Farm Solar Park Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/simpleSearchResults.do?action=firstPage> [January 2023].

Ref. 2.13 East Suffolk (2020). Rock Barracks Heath Road Solar Farm EIA Screening Opinion. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=Q2YUZDQX06O00&activeTab=summary> [January 2023].

Ref. 2.14 East Suffolk (2020). Rock Barracks Heath Road Solar Farm Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=Q7AN0RQXIEN00&activeTab=summary> [January 2023].

Ref. 2.15 East Suffolk (2017) Outline Application for Brightwell Lakes. [online] available at <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=ONU5TCQX06O00&activeTab=summary> [January 2023].

Ref. 2.16 Taylor Wimpey (2023). New Homes at Brightwell Lakes. [online] Available at: <https://www.taylorwimpey.co.uk/new-homes/martlesham/brightwell-lakes#:~:text=Brightwell%20Lakes%20will%20be%20home,%2C%204%20%26%205%20bedroom%20homes.> [January 2023].

Ref. 2.17 East Suffolk (2021). Approval of reserved matters - the construction of 173 dwellings (including 80 affordable houses) together with associated works, landscaping and infrastructure for Brightwell Lakes (Phase W1) Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=QYEHJEQXN2X00&activeTab=summary> [January 2023].

Ref. 2.18 East Suffolk (2021). Approval of reserved matters - the construction of three dwellings together with associated works, landscaping and infrastructure for Brightwell Lakes (Phase E1a) Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=QYEHJOQXN3300&activeTab=summary> [January 2023].

Ref. 2.19 East Suffolk (2021). Approval of reserved matters - the construction of 22 dwellings together with associated works, landscaping and infrastructure for Brightwell Lakes (Phase W1a) Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=QYEHJIQXN2Z00&activeTab=summary> [January 2023].

Ref. 2.20 East Suffolk (2021). Land South of Darsham Station Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?activeTab=dates&keyVal=QYEHLFQXN3500> [January 2023].

Ref. 2.21 Scott Properties (2021). Land South of Darsham Station. [online] Available at: <https://darsham.mscott.co.uk/> [January 2023].

Ref. 2.22 East Suffolk Council (2021). Parham Solar Farm Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=QPAV33QXIKG00&activeTab=summary> [January 2023].

Ref. 2.23 East Suffolk (2022). Proposed Reservoir At Grange Farm EIA Screening Opinion. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/simpleSearchResults.do?action=firstPage> [January 2023].

Ref. 2.24 East Suffolk (2018). Saxmundham To Peasenhall Water Mains Installation Suffolk EIA Screening Opinion. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/simpleSearchResults.do?action=firstPage> [January 2023].

Ref. 2.25 East Suffolk (2017). Site SSP12 Rendlesham Suffolk EIA Screening Opinion. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=OX73JUQX0GL00&activeTab=summary> [January 2023].

Ref. 2.26 EDF Energy (N/A). Sizewell B power station. [online] Available at: <https://www.edfenergy.com/energy/power-stations/sizewell-b> [December 2022].

Ref. 2.27 EDF Energy (2023). Relocating Sizewell B Facilities. [online] Available at: <https://rlfsizewellb.co.uk/> [January 2023].

Ref. 2.28 EDF Energy (2022). Sizewell B starts review to extend operation by 20 years. [online] Available at: <https://www.edfenergy.com/media-centre/news-releases/sizewell-b-starts-review-extend-operation-20-years> [December 2022].

Ref. 2.29 BSR Energy (2021). Town Farm Solar Park Brochure. [online] Available at: [https://s3.eu-west-2.amazonaws.com/dna-bsr/images/town\\_farm\\_brochure\\_FINAL.pdf](https://s3.eu-west-2.amazonaws.com/dna-bsr/images/town_farm_brochure_FINAL.pdf) [January 2023].

Ref. 2.30 BSR Energy (2021). Town Farm Solar Park Layout. [online] Available at: <https://s3.eu-west-2.amazonaws.com/dna-bsr/images/Projects/Town-Farm/1656-0201-01-Solar-Park-Layout-ISS01.pdf> [January 2023].

Ref. 2.31 East Suffolk Council (2021). Town Farm Solar Park Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/simpleSearchResults.do?action=firstPage> [January 2023].

Ref. 2.32 East Suffolk (2021). UKZ139 BC Wissett Solar Farm Planning Application. [online] Available at: <https://publicaccess.eastsuffolk.gov.uk/online-applications/simpleSearchResults.do?action=firstPage> [January 2023].

Ref. 2.33 Mid Suffolk Council (2021). Brundish Manor Solar Farm Planning Application. [online] Available at: <https://planning.baberghmidsuffolk.gov.uk/online-applications/applicationDetails.do?keyVal=QMEW8YSHKW100&activeTab=summary> [January 2023].

Ref. 2.34Ref 2.48: National Grid Ventures (2022). EuroLink. [online] Available at: [January 2023].

Ref. 2.35 National Grid Ventures (2022). EuroLink Marine Environmental Information. [online] Available at: [https://www.nationalgrid.com/sites/default/files/documents/Map6\\_Offshore\\_Constraints.pdf](https://www.nationalgrid.com/sites/default/files/documents/Map6_Offshore_Constraints.pdf) [January 2023].

Ref. 2.36 National Grid Ventures (2022). EuroLink Interconnector FAQs. [online] Available at: <https://www.nationalgrid.com/document/148471/download> [January 2023].

Ref. 2.37 National Grid Ventures (2022). EuroLink Siting and Routeing Options. [online] Available at: [https://www.nationalgrid.com/sites/default/files/documents/Map2\\_Final\\_Issued18Oct22.pdf](https://www.nationalgrid.com/sites/default/files/documents/Map2_Final_Issued18Oct22.pdf) [January 2023].

Ref. 2.38 National Grid Ventures (2022). EuroLink Shortlisted Landfall Location Options. [online]. Available at: [https://www.nationalgrid.com/sites/default/files/documents/Map3\\_Final\\_Issued18Oct22.pdf](https://www.nationalgrid.com/sites/default/files/documents/Map3_Final_Issued18Oct22.pdf) [January 2023].

Ref. 2.39 National Grid Ventures (2022). EuroLink Shortlisted Converter Station Search Area Sites. [online] Available at: [https://www.nationalgrid.com/sites/default/files/documents/Map4\\_Final\\_Issued17Oct22.pdf](https://www.nationalgrid.com/sites/default/files/documents/Map4_Final_Issued17Oct22.pdf) [January 2023].

Ref. 2.40 National Grid Ventures (2023). LionLink. [online] Available at: <https://www.nationalgrid.com/national-grid-ventures/future-developments/lionlink> [October 2023].

Ref. 2.41 National Grid Ventures (2023). LionLink. Map 3 - Shortlisted Landfall Locations [online] Available at: <https://www.nationalgrid.com/document/150491/download> [October 2023].

Ref. 2.42 National Grid Ventures (2023). LionLink. Map 4 - Shortlisted Converter Station Sites [online] Available at: <https://www.nationalgrid.com/document/150491/download> [October 2023].

Ref. 2.43 National Grid Electricity Transmission (2023). Norwich to Tilbury [online] Available at: <https://www.nationalgrid.com/electricity-transmission/network-and-infrastructure/infrastructure-projects/norwich-to-tilbury/document-library> [October 2023].

Ref. 2.44 National Grid Electricity Transmission (N/A). Norwich to Tilbury Project Background Document [online] Available at: <https://www.nationalgrid.com/electricity-transmission/document/149151/download> [October 2023].

Ref. 2.45 East Suffolk (2020). Suffolk Coastal Local Plan, adopted 2020. Available: <https://www.eastsuffolk.gov.uk/assets/Planning/Planning-Policy-and-Local-Plans/Suffolk-Coastal-Local-Plan/Adopted-Suffolk-Coastal-Local-Plan/East-Suffolk-Council-Suffolk-Coastal-Local-Plan.pdf> [October 2023].

*Page intentionally blank*



National Grid plc  
National Grid House,  
Warwick Technology Park,  
Gallows Hill, Warwick.  
CV34 6DA United Kingdom

Registered in England and Wales  
No. 4031152  
[nationalgrid.com](http://nationalgrid.com)