

# East Anglia TWO & East Anglia ONE North

## Phase 3.5 Consultation Information



SCOTTISHPOWER  
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1. Introduction

ScottishPower Renewables (SPR) has now concluded pre-application consultation Phase 3 and would like to thank everybody that participated throughout this phase.

As part of the development of the East Anglia TWO and East Anglia ONE North offshore windfarms, ScottishPower Renewables and EDF Energy (EDF) have been working together to explore the possibility of using land on the Sizewell B estate for the SPR development. This land is currently being used as a site to translocate protected wildlife in preparation for the Sizewell C development which is proposed to be built next to Sizewell B. EDF have been working closely in recent years with Suffolk Wildlife Trust and Natural England to establish this agreed ecological mitigation area.

In parallel to SPR’s continued engagement with EDF about the potential use of this land and in response to requests to investigate the use of this land as an alternative to the site north of Friston (known as the Grove Wood, Friston), SPR, following discussions with EDF, has decided to undertake an additional consultation phase. This is titled Phase 3.5 and explores the use of the EDF Energy mitigation land (known as the Broom Covert, Sizewell), within the Suffolk and Coast Heaths Area of Outstanding Natural Beauty (AONB), in addition to the site at Grove Wood, Friston. These two sites, together with other components of the project, are shown on **Figure 1** (see pages 8 – 9).

Phase 3.5 also provides additional information on these proposals and the following project aspects:

- The opportunity to consider in parallel to SPR’s current proposals a new potential substation location between Sizewell and Leiston (the Broom Covert, Sizewell site), as a possible alternative to the proposed Grove Wood, Friston site, and as such additional information on each site such as access track options, broad landscaping and drainage plans (**section 2/section 4**)
- Information on the requirements for alternative land to accommodate the use of the existing Sizewell C reptile mitigation land as part of the consideration of the proposed site at Broom Covert, Sizewell (**section 2.6**)
- Refinement of the proposed area required for National Grid Energy Transmissions (NGET) connection (**section 3**)
- Initial information on proposed improvements to parts of the wider local road network (**section 4**)
- Information on how East Anglia TWO and East Anglia ONE North Offshore Windfarm consent applications will be progressed in parallel (**section 5**)

This consultation phase will be comprised of the information provided within this document. In addition, SPR will provide hard copy photomontages from an initial viewpoint selection for the Grove Wood, Friston and Broom Covert, Sizewell sites at the following locations/ organisations around the onshore area:

Aldeburgh Library	Little Glemham Parish Council
Aldeburgh Town Council	Lowestoft Library
Aldringham cum Thorpe Parish Council	Martins Saxmundham
Darsham Parish Council	Middleton cum Fordley Parish Council
Farnham with Stratford St Andrew Parish Council	Orford Town Council
Felixstowe Library	Saxmundham Library
Felixstowe Town Council	Saxmundham Town Council
Friston Parish Council	SCDC Customer Services @ Woodbridge Library
Great Yarmouth Borough Council	Southwold Library
Great Yarmouth Central Library	Southwold Town Council
Kelsale cum Carlton Parish Council	Theberton and Eastbridge Parish Council
Kessingland Library	The Butchers Arms, Knodishall
The Village Store Kessingland	Yoxford Parish Council
Leiston Town Council	

Table 1 Locations of additional project materials

This additional material is also available to view via the project websites:

[https://www.scottishpowerrenewables.com/pages/east\\_anglia\\_two.aspx](https://www.scottishpowerrenewables.com/pages/east_anglia_two.aspx)

[https://www.scottishpowerrenewables.com/pages/east\\_anglia\\_one\\_north.aspx](https://www.scottishpowerrenewables.com/pages/east_anglia_one_north.aspx)

In addition to the information published, a series of public meetings will be held to discuss the information provided within consultation Phase 3.5. Specific details regarding these meetings can be found in the cover letter accompanying this document and on the project websites.

SPR invites you to provide comments regarding any of the topics discussed during this consultation phase by using the feedback form accompanying this document. More information regarding feedback can be found in section 6.

2. Onshore Substation Site Selection

2.1 Introduction

As part of the development of the proposed East Anglia TWO and East Anglia ONE North offshore windfarms, SPR and EDF have been working together to explore the possibility of using EDF-owned land for the proposed windfarm connection substations and the national grid substation. As with SPR’s approach to previous site selection activities, where practical and feasible, co-location of all three substations is preferential.

In order to inform consultation on this matter SPR have undertaken two key tasks:

- Firstly, a Red Amber Green (RAG) addendum has been undertaken to assess the suitability of the site at Broom Covert, Sizewell
- Secondly, a masterplanning exercise has been undertaken to present indicative development and mitigation proposals for both sites, along with access and high level drainage information.

2.2 RAG Introduction

The RAG assessment methodology allows qualitative comparison of different sites against multiple criteria to understand consenting risk (based on Environmental Impact Assessment (EIA) factors). If a site is awarded a Red score, this will not necessarily prevent an option being taken forward if, overall, it performs better than others. Note that the RAG assessment does not take into account development cost, engineering feasibility etc. and is only one element of a wider decision making process.

Royal HaskoningDHV (RHDHV), on behalf of SPR, has undertaken an update to the Onshore Substation Site Selection RAG Assessment (RHDHV, 2017) to include the Broom Covert, Sizewell Site. In May 2018, SPR provided a summary of the RAG assessment of seven original substation zones within the “Summary and Approach to Site Selection” document that is available on the project websites.

This summary showed that Zone 7 (Grove Wood, Friston) was identified as the strongest zone based on a scoring system against the following topics:

- Archaeology;
- Ecology and nature conservation;
- Landscape and visual;
- Hydrogeology and flood risk;
- Engineering and design (including transport and access);
- Community (including proximity to residences, quality of agricultural land);
- Property; and
- Planning.

No weighting was applied between topics (i.e. all topics are considered equally), although some topics such as landscape had more categories which were graded. The categories were discussed and agreed with key stakeholders. In total there were 23 categories, graded for two sites in each zone, giving a grading out of 46.

This information, combined with its location outside of the nationally designated AONB and challenges in the availability of the Broom Covert, Sizewell site, led to the decision to take forward the Grove Wood, Friston site for Phase 3 consultation. However, as SPR and EDF continue to work together to explore the potential use of the site at Broom Covert, Sizewell and as these discussions have progressed, leading to a further review of the site’s availability, the RAG assessment has been updated. The assessment methodology and technical considerations used are identical to the approach taken with the original RAG assessment.

2.3 RAG Addendum Results

Zone 1	8 x red	12 x amber	26 x green
Zone 2	9 x red	10 x amber	27 x green
Zone 3	3 x red	21 x amber	22 x green
Zone 4	2 x red	18 x amber	26 x green
Zone 5	3 x red	16 x amber	27 x green
Zone 6	2 x red	15 x amber	29 x green
Zone 7	2 x red	7 x amber	37 x green
Zone EDF	2 x red	18 x amber	26 x green

The outcome of the previous RAG assessment and the site at Broom Covert, Sizewell (within Zone EDF below) addendum are summarised below;

The table shows that the Broom Covert, Sizewell site is a favourable location for SPR’s two onshore substations. It scores the same number of Red scores (2) for potential for consenting risk. However, it should be recognised that the Broom Covert, Sizewell site does have a greater number of Amber scores (18) and fewer Green scores (26).

Siting within Broom Covert, Sizewell carries the risk associated with the planning policy protection afforded by the AONB designated landscape. The RAG assessment looks at the potential risk associated with impact on the special qualities of the AONB as one of the environmental parameters for consideration; however, the RAG does not address compliance against policy.

2.4 Landscape Masterplans

As part of this consultation phase, masterplans have been developed for the Grove Wood, Friston and Broom Covert, Sizewell sites. These plans provide more information about the opportunities at both substation sites.

The Grove Wood, Friston masterplan is shown on **Figure 2** (see pages 10-11) and the Broom Covert, Sizewell masterplan is shown on **Figure 3** (see pages 12-13). Each masterplan shows the indicative footprints of the three substations (one for East Anglia ONE North, one for East Anglia TWO and a third which will be owned and operated by National Grid). Each masterplan also provides an indicative permanent access route from the public highway that would be built.

An indicative drainage solution is also shown for each site, indicating how surface water would be drained and discharged to appropriate local watercourses. Each masterplan also shows the proposed area required for National Grid Energy Transmission (NGET) to connect their proposed substation to the existing overhead line.

Following feedback received during Phase 3 each masterplan indicates where landscaping and planting would be used. The masterplans have been designed to make use of existing screening and supplement this to achieve appropriate visual screening of the substation. Further detail will be provided within SPR’s Outline Landscape Management Plans submitted with the applications.

2.5 Additional Materials

Photomontages for both potential substation locations have been created from a representative list of viewpoints and these are available to view on our project websites and at the locations listed in Table 1.

Due to the different geographical locations of Grove Wood, Friston and Broom Covert, Sizewell, the two sites are subject to different design requirements. For instance, as Broom Covert is located closer to the coast and subject to increased corrosion risk, some of the equipment which would be located outdoors at the Grove Wood, Friston site would be required to be enclosed at the Broom Covert, Sizewell site. This results in an increase in building height within the SPR substations located at Broom Covert, Sizewell, from 15m to 21m when compared to Grove Wood, Friston.

2.6 Broom Covert, Sizewell Site Considerations

The land presented in **Figure 3** (see pages 12/13), which SPR has identified for the possible location of the required substations for the projects, has already been converted into an extensive receptor site to enable the translocation of reptile populations away from the main Sizewell C development site, in advance of construction. The extent of the receptor site has been discussed and agreed with Natural England and other stakeholders. If the land was used for the location of the infrastructure mentioned above then this would require alternative locations to be identified, acquired, and developed into suitable reptile habitat. For any alternative site SPR would need to identify land parcels, which fulfil the EDF requirements of a suitable reptile receptor site.

The key requirements are:

- SPR is required to find and prepare a suitable replacement site for the Sizewell C mitigation land. SPR intends to conduct this search within the agreed onshore study area. SPR’s initial review confirms suitable habitats exist within the onshore study area.
- Equal size to the existing receptor site.
- Not supporting reptiles at present, since the receptor sites must provide ‘additional habitat’.
- Site conditions should be capable of supporting scrub/grassland mosaics or heathland mosaics.
- A preference for no existing right of way through the sites, to enable translocation of adders.
- A preference for close proximity to the existing EDF estate to enable future habitat management.
- Agreed with Natural England and Suffolk Wildlife Trust.
- Anticipated that land needs to be ready for translocation in time to avoid delay to Sizewell C construction works (currently assumed to be 2020).

3. Refinement of the Proposed Area Required for National Grid Energy Transmissions (NGET)

3.1 Introduction

In order for the proposed projects to connect to the National Grid (NG) network, a new NG substation is required. This will be co-located with the SPR substations. A connection between the new substation and the existing National Grid overhead lines is required to feed power from the substation into the National Grid network.

SPR have been working with NGET to refine the area required for this connection within Grove Wood, Friston. A summary description of the connection requirement is included below.

3.2 Grove Wood, Friston

Alterations are required to the existing overhead line routes to ensure a safe and secure connection can be made. A temporary overhead line diversion will be required to allow the construction of the new connection. Separation of the existing circuits that the overhead line carries is required to allow the connection of the new substation and construction and facilitate the connection in a safe way. As a result of the need for this separation, the area previously shown at Phase 3 has increased by up to 130m to the north. Once construction is complete, the temporary line diversion would be removed with only the foundations of the towers remaining in place (see **Figure 2**, pages 10-11).

3.3 Broom Covert, Sizewell

The site at Broom Covert, Sizewell was previously not considered suitable for development and as such the level of design work undertaken has not been progressed to the same level as the site at Grove Wood, Friston. However, SPR have liaised with NGET regarding the likely connection works required, and it is considered that a similar design to that proposed for the Grove Wood, Friston site would be required but this would need to be confirmed through further detailed design work. NGET are exploring the option of connecting into existing overhead line infrastructure. These would be at the towers between Sizewell A Power Station and Leiston A substation. The suitability of these would be confirmed through subsequent design work. **Figure 3** (see pages 12-13) presents this indicative overhead line area required to facilitate a connection at Broom Covert, Sizewell.

4. Traffic and Transportation

4.1 Introduction

SPR is now able to provide an update regarding the construction traffic and transportation aspects of the proposed projects. This information is based on the transport assessment work that has been done to date.

4.2 Grove Wood, Friston

4.2.1 Proposed Substation Construction HGV Access Route(s)

For access to Grove Wood, Friston, substation construction heavy goods vehicles (HGVs) could arrive from either Lowestoft or Felixstowe ports. **Figure 4** (see page 14-15) shows the proposed substation construction access route. This figure shows that HGVs would travel along the A12 to the junction with either:

- the A1094 and travel to the B1069 to access the substation via a haul road south of Coldfair Green; or
- the B1121 and pass through Benhall Green and Sternfield to access the substation via a haul road north of Friston.

4.2.2 Proposed Abnormal Load Access Route

The substation transformers are large pieces of equipment that require specialist transport called “Abnormal Indivisible Load” (AIL). These specialist movements require specific road conditions. **Figure 4** (see pages 14-15) shows the proposed abnormal load access route for these two deliveries.

For access to Grove Wood, Friston, the AIL could arrive from either Lowestoft or Felixstowe ports. The AIL would travel along the A12 to the junction with the B1122 at Yoxford and travel down the authorised HGV route to Sizewell. The AIL would be required to pass through Leiston and Coldfair Green along the B1069, turn right on the A1094 and turn right again onto the B1121, passing through Friston, before accessing the substation AIL access via a new permanent road to the north of Friston.

There are two AIL deliveries required per substation and these would be undertaken on a notified specific day with appropriate traffic management measures in place during this time.

4.3 Broom Covert, Sizewell

4.3.1 Proposed Substation and Cable Route Construction HGV Access, and Abnormal Load Access Route

For access to Broom Covert, Sizewell, substation and cable route construction HGV access, abnormal loads could arrive from either Lowestoft or Felixstowe ports. They would travel down the A12 to the junction with the B1122 at Yoxford and travel down the authorised HGV route to Sizewell. All traffic would then turn off into the site at Broom Covert, Sizewell, or access the cable route via a haul road west of Sizewell. This route is shown in **Figure 5** (see pages 16-17).



4.4 Cable route and Landfall Access

4.4.1 Proposed Landfall HDD Construction HGV Access Route

Multiple options for access to the landfall HDD are required as shown in **Figures 4 and 5** (see pages 14-15 and pages 16-17). This flexibility will allow SPR to manage construction traffic appropriately. Accessing the site from the south, HGVs would travel down the A12 from either Lowestoft or Felixstowe port to the junction with the A1094. HGVs would travel toward Aldeburgh and take the B1122 to the junction with the B1353 then turning off before Thorpeness and taking a dedicated haul road to the landfall horizontal directional drilling (HDD) location. From the north, access would be via a haul road off Sizewell Gap Road.

4.4.2 Proposed Cable Route Construction HGV Access

For the cable route construction HGV access could arrive from either Felixstowe or Lowestoft ports. HGVs would travel down the A12 to the junction with either:

- the A1094 and travel to the B1069 to access the cable route via a haul road south of Coldfair Green; or
- the A1094 and travel to the B1122 to access the cable route via a haul road south of Aldringham; or
- the B1122 (at Yoxford) and travel to Sizewell Gap Road to access the cable route via a haul road west of Sizewell.

The cable route construction access options for Grove Wood, Friston and Broom Covert, Sizewell are shown in **Figures 4 and 5 respectively** (see pages 14-15 and pages 16-17).

4.5 Traffic and Transport Improvement Works

SPR are looking at all traffic and transport improvement works that may be required to facilitate the construction and the ongoing operation of the East Anglia TWO and East Anglia ONE North projects. **Figure 6** (see page 18-19) shows the extent of the traffic and transport study area being considered for improvements works in relation to the updated onshore study area. These improvements, which may be temporary or permanent, could include junction improvement works, movement of street furniture, temporary widening, passing places and traffic management measures.

Further information regarding traffic and transport considerations for both projects will be presented upon submission of SPR’s applications and will include an Outline Traffic Management Plan and specific details on improvements.

5. Project Synergies

Each project is a separate entity, East Anglia One North Limited and East Anglia Two Limited. SPR has brought forward the application date for East Anglia ONE North and deferred the application date for East Anglia TWO. As a result, two separate Development Consent Order (DCO) applications, one for East Anglia ONE North and one for East Anglia TWO, will be submitted at the same time but subject to separate examinations by the Planning Inspectorate. During the pre-application process SPR will consult on the projects at the same time but seek comments separately for each project. This approach has allowed SPR to engage in a longer period of pre-application consultation, which was requested in previous feedback. It also provides greater clarity on cumulative impacts and interactions between the projects. It is therefore important that stakeholders make it clear if their comments relate to both projects or only one of the projects e.g East Anglia TWO alone. To facilitate this a signposting document will be produced to highlight the differences between the two projects.

The entire Indicative Onshore Development Area has been developed to allow construction of both the proposed East Anglia TWO and East Anglia ONE North projects. These projects may be constructed simultaneously (at the same time) or sequentially (one after the other). Therefore, the following scenarios will be applied as part of the Environmental Impact Assessment to ensure the two worst case scenarios for onshore infrastructure are assessed and ensure a robust assessment:

- Scenario 1- will assess the impacts of both the proposed East Anglia TWO and East Anglia ONE North being built simultaneously (at the same time)
- Scenario 2 – will assess the impacts of the proposed East Anglia TWO and East Anglia ONE North projects being built sequentially (one after the other). For the onshore infrastructure, this scenario assumes construction of the first project and full reinstatement, followed by the construction of the second project.

Following this assessment, for each onshore topic the scenario which is considered to have the most significant impact will be taken forward for further cumulative impact assessment with other developments. This information will be stated within the Environmental Impact Assessment and agreed with the Local Planning Authority.

6. Conclusion and Next Steps

6.1 Introduction

The outcomes of this process will be reviewed by SPR to finalise the onshore site selection process. SPR must take a balanced view towards site selection at all times using its industry leading legal advisors who draw on national planning guidance and industry leading technical advisors, in addition to its own significant project experience.

SPR previously published a report on the challenges of using the Broom Covert, Sizewell land. During Phase 3.5 consultation SPR will work with EDF to explore the deliverability of the mitigation land and the viability of seeking the land rights required to deliver the projects.

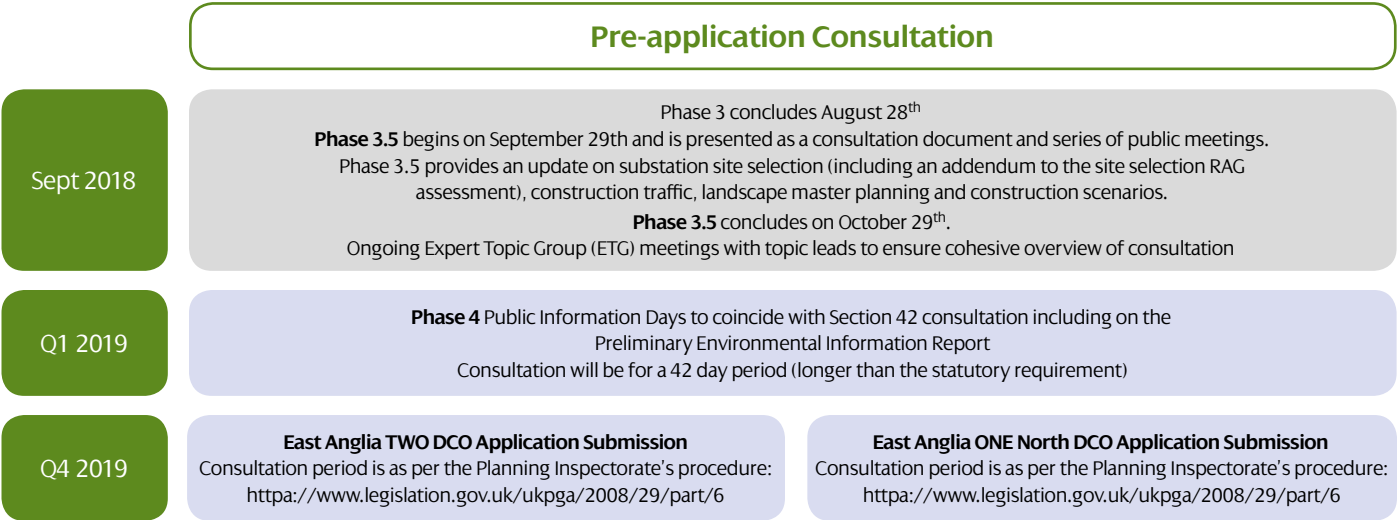
Development within Broom Covert, Sizewell land presents challenges in terms of the AONB. National Planning Statement EN1 states the following:

“National Parks, the Broads and the AONBs have been confirmed by the Government as having the highest status of protection in relation to landscape and scenic beauty. Each of these designated areas has specific statutory purposes which help ensure their continued protection and which the Infrastructure Planning Commission (IPC) should have regard to in its decisions. The conservation of the natural beauty of the landscape and countryside should be given substantial weight by the IPC in deciding on applications for development consent in these areas.”

It also states that development may be granted in exceptional circumstances. SPR are re-exploring exceptional circumstances with the AONB and the Local Planning Authority.

All of the above will be considered in the context of comments and feedback from this phase of consultation and a final decision will be made and a detailed impact assessment presented at Phase 4.

The flowchart below sets out the remaining milestones leading up to the development consent order submission of both projects in Quarter 4, 2019.



6.2 Timescales for Commenting

Your comments regarding any of the topics discussed during this consultation phase can be provided by using the feedback form included in this pack or via the online feedback form on the project websites.

Please note this consultation phase closes on 29th October 2018. Feedback received up to this date will be included within the consultation feedback summary report. Feedback received after this date will be collated by the project team but will not be recorded as a consultation response.

6.3 Contact Us

SPR welcomes your comments on the information provided in this document. If you have any further questions or feedback, please contact SPR using the methods below. It is important that stakeholders submit separate consultation responses depending on whether their comments relate to both projects or only one of the projects e.g East Anglia TWO alone. If your comments relate to both projects please ensure these comments are copied to both project addresses below.

Email:

**East Anglia TWO:**  
[eastangliatwo@scottishpower.com](mailto:eastangliatwo@scottishpower.com)

**East Anglia ONE North:**  
[eastangliaonenorth@scottishpower.com](mailto:eastangliaonenorth@scottishpower.com)

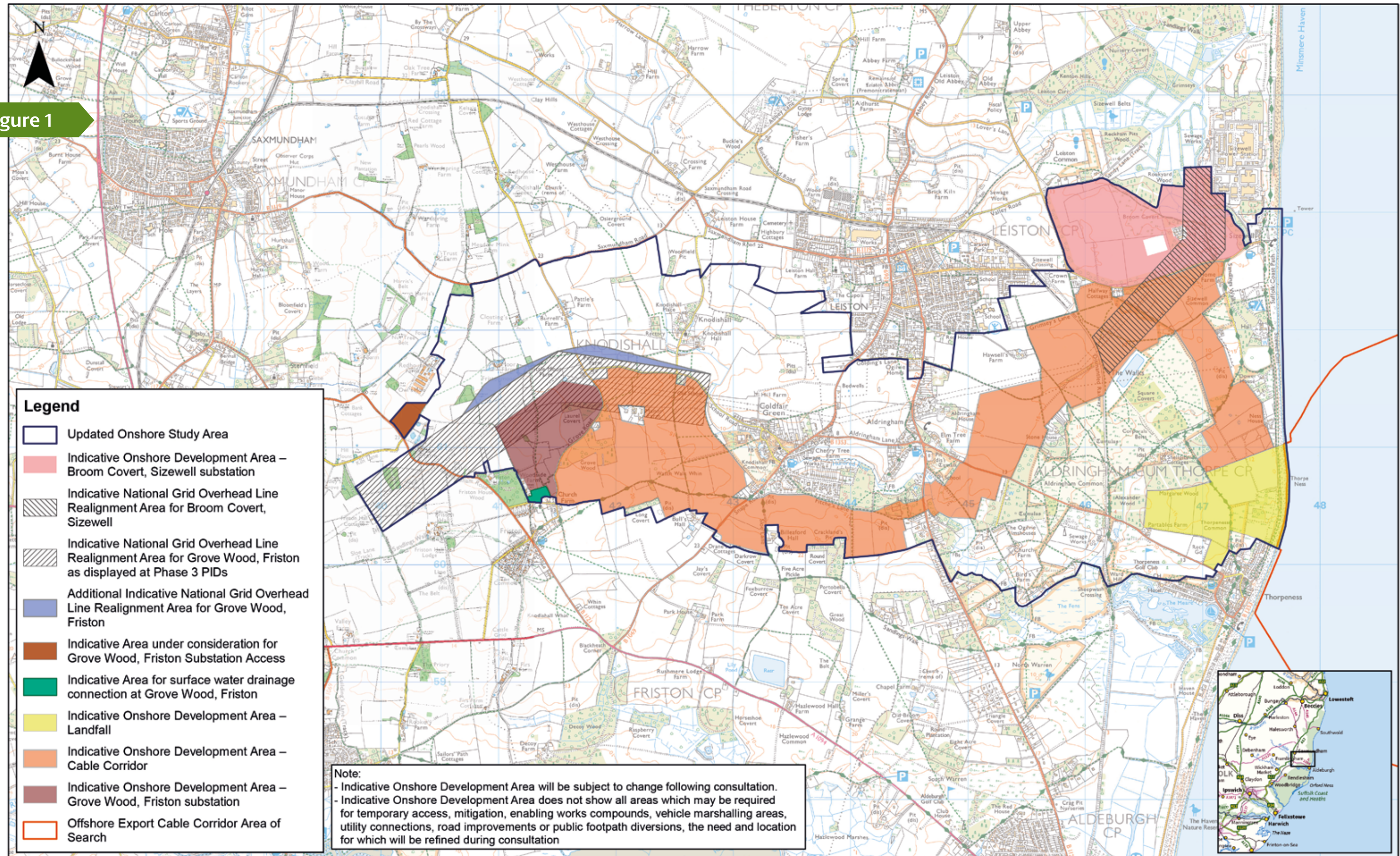
Freepost address:

**ScottishPower Renewables East Anglia TWO and/or ScottishPower Renewables East Anglia ONE North**  
RTLY-RLGH-GKSE FREEPOST, 25 Priestgate, Peterborough, PE1 1JL

Please visit SPR’s website, [www.scottishpowerrenewables.com](http://www.scottishpowerrenewables.com) for the latest project information.



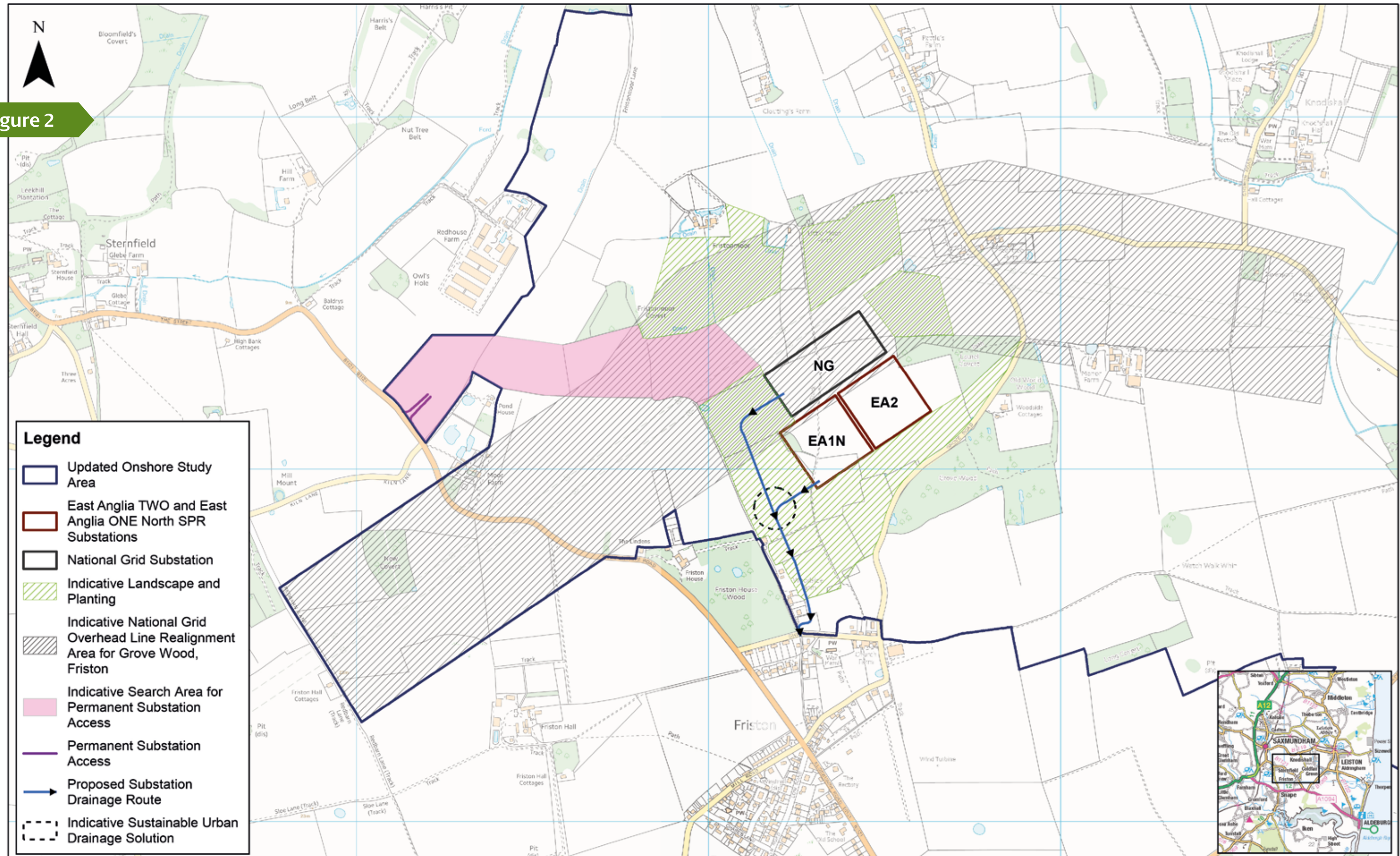
Figure 1



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	1	07/08/18	AB	First Issue.	Checked:	BH				Date	24/09/18	Datum: OSGB36
	Rev	Date	By	Comment	Approved:	AH				Figure	1	



Figure 2





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								Prepared: FC		Scale @ A3		<b>Indicative Grove Wood, Friston Masterplan</b>				<b>Rev</b>		1		Coordinate System: BNG Datum: OSGB36	
1				24/09/18		FC		First Issue.		Checked: PW						Source: © Crown copyright and database rights 2018. Ordnance Survey 0100001673. <small>This map has been produced to the latest known information at the time of issue, and has been produced for your information only. Please consult with the SPRs Officers GIS team to ensure the content is still current before using the information contained on this map. To the extent permitted by law, we accept no responsibility or liability (whether in contract, tort (including negligence) or otherwise in respect of any errors or omissions in the information contained in the map and shall not be liable for any loss, damage or expense caused by such errors or omissions.</small>		<b>Date</b>			
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Figure 3

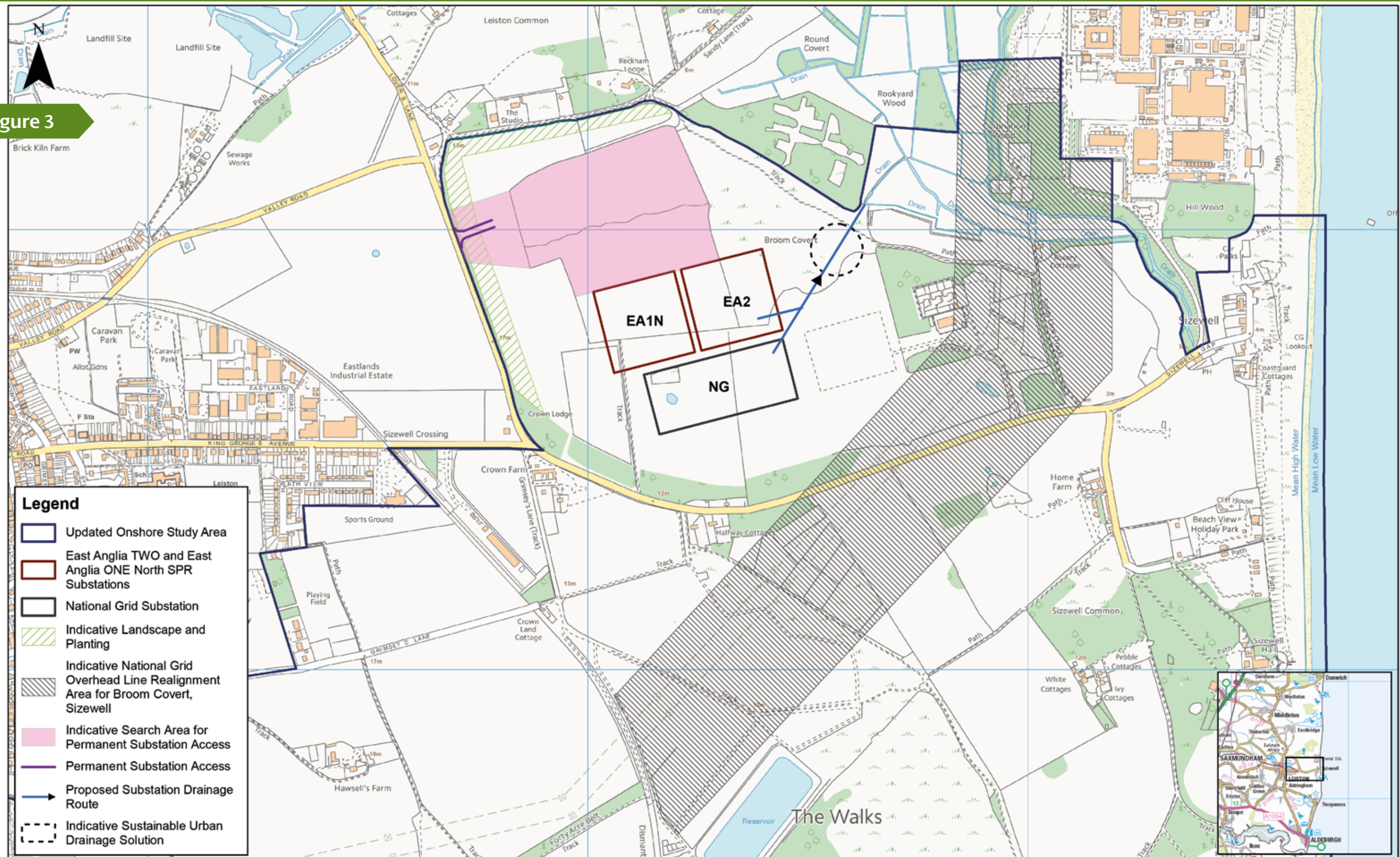
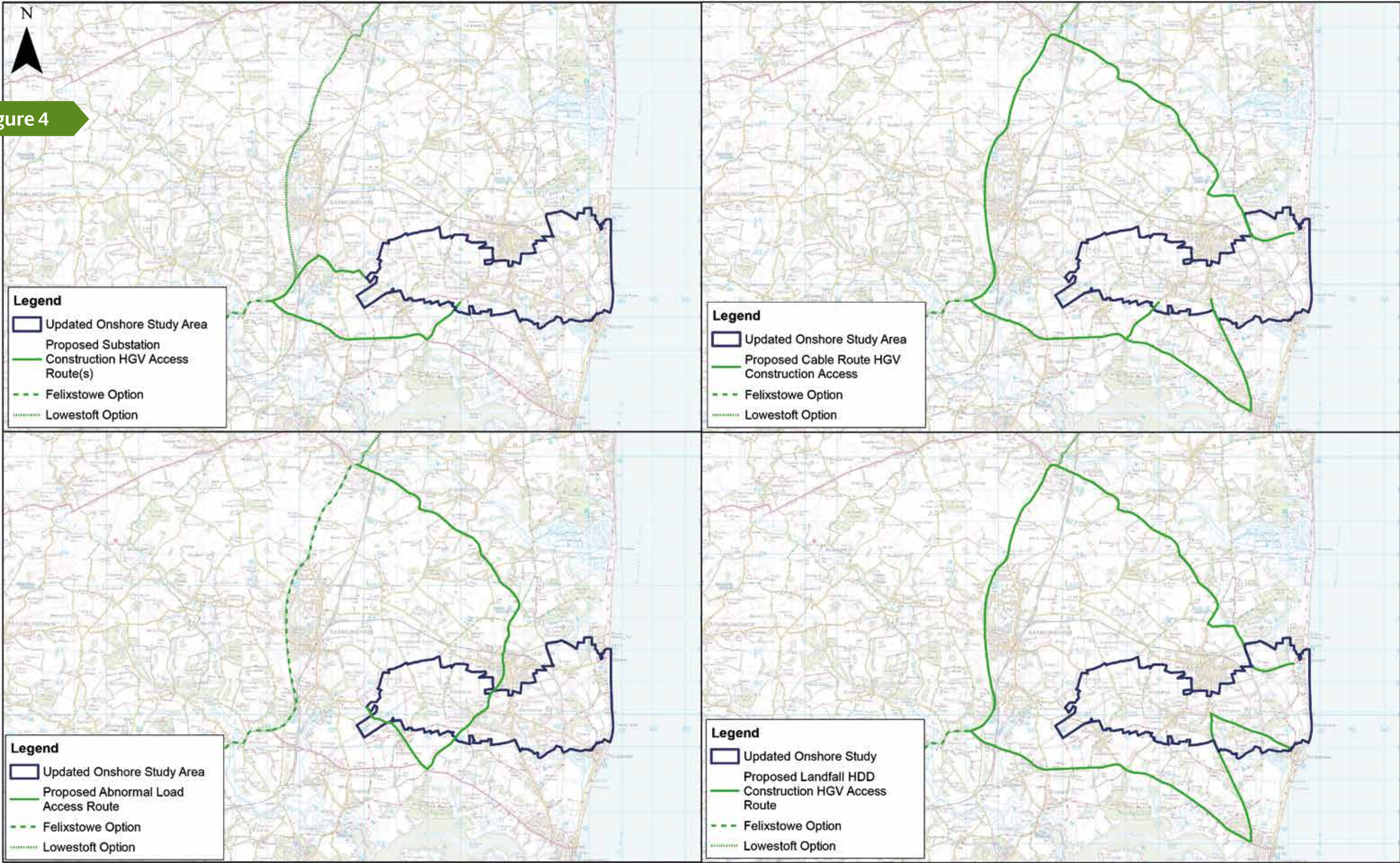




Figure 4





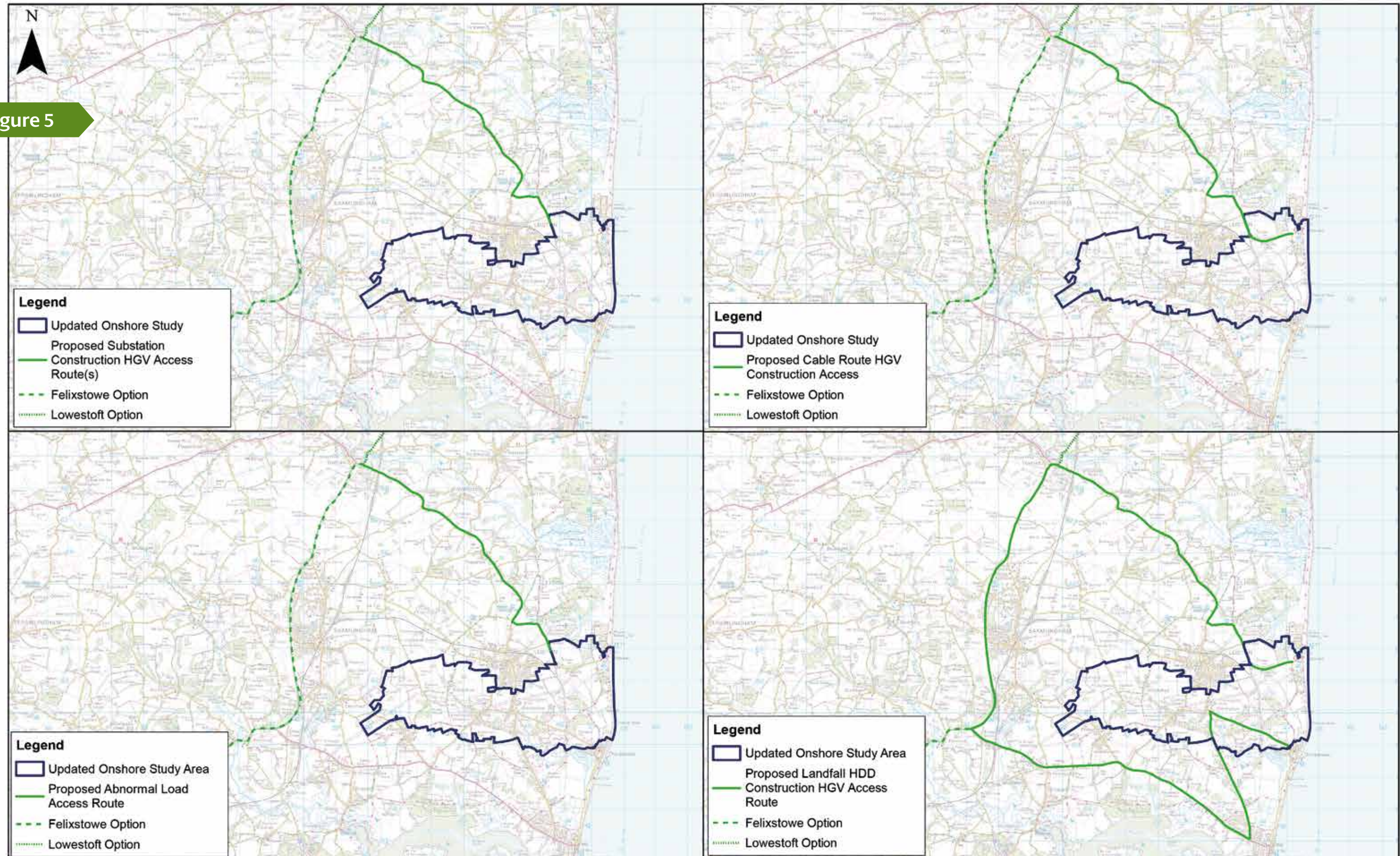
				1:226,585 Scale @ A3				<b>East Anglia ONE North and TWO</b> <b>Proposed Grove Wood, Friston</b> <b>Access Routes</b>		<b>Drg No</b>	EA1N-EA2-DEV-DRG-IBR-00TBC170	
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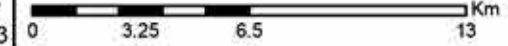
Figure 5



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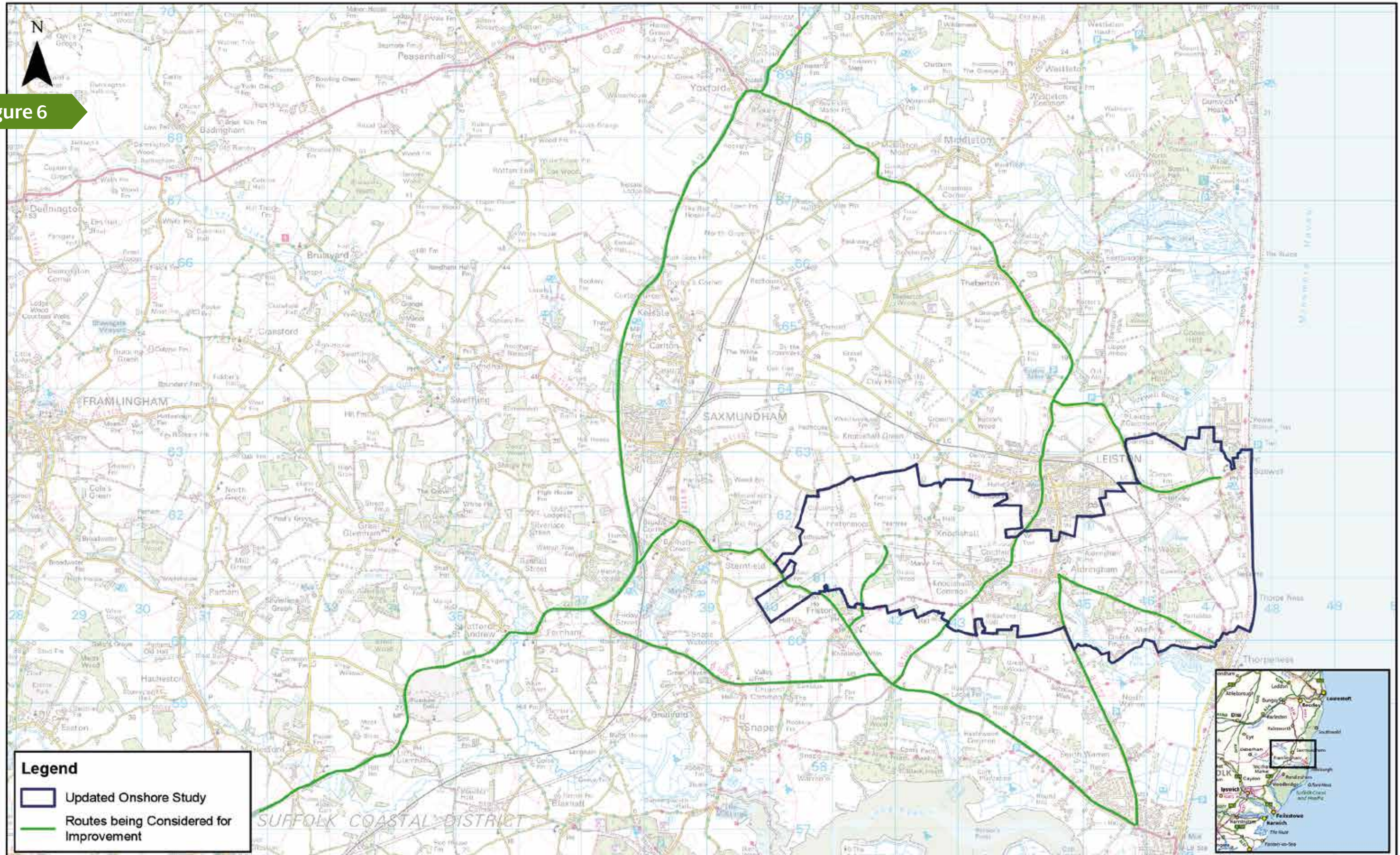


## East Anglia ONE North and TWO Proposed Broom Covert, Sizewell Access Routes

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Figure 6



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Approved:	AH

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**East Anglia TWO and East Anglia ONE North**  
Traffic and Transport Study Area

Drg No	EA1N-EA2-DEV-DRG-BR-00TBC133	
Rev	1	Coordinate System: BNG Datum: OSGB36
Date	24/09/18	
Figure	6	



**ScottishPower Renewables**

ScottishPower House  
320 St Vincent Street  
Glasgow  
G2 5AD

T 0141 614 0000

[eastangliaonenorth@scottishpower.com](mailto:eastangliaonenorth@scottishpower.com)  
[eastangliatwo@scottishpower.com](mailto:eastangliatwo@scottishpower.com)

[www.scottishpowerrenewables.com](http://www.scottishpowerrenewables.com)

