Public consultation webinar

Tuesday 23rd April

Section 1 – Landfall options to Bilsby

- **Section 1a Theddlethorpe landfall to Bilsby**
- **Section 1b Anderby Creek landfall to Bilsby**

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

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Meet the team

Emma
Grayling

Victoria
National Grid

Sean
National Grid

John
WSP

Agenda

01	About National Grid and The Great Grid Upgrade
02	Non-statutory consultation
03	Overview of projects
04	Sections 1a and 1b flythrough
05	Q&A

01 About National Grid and The Great Grid Upgrade

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

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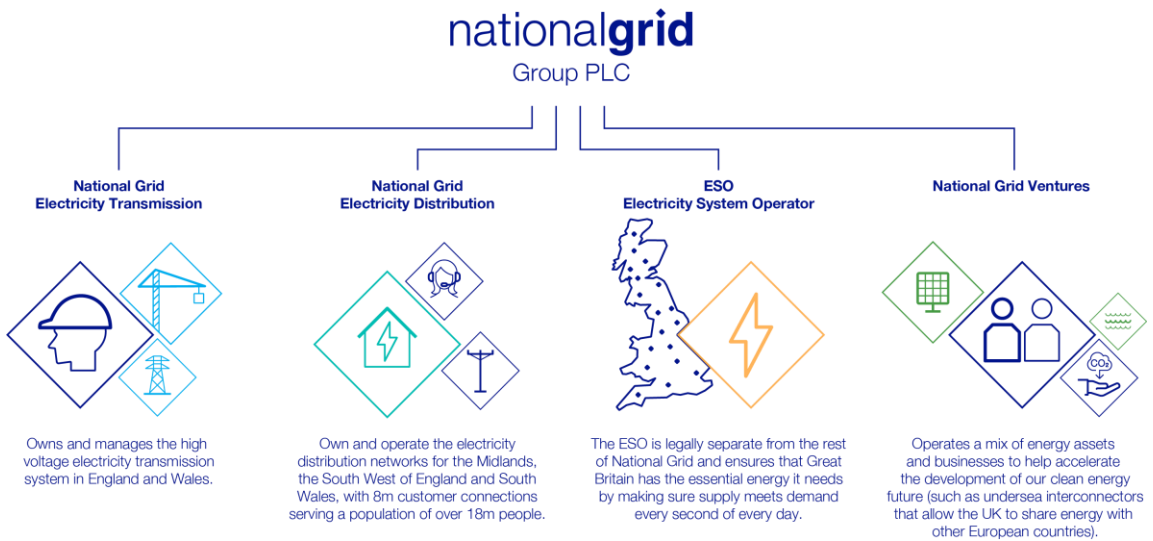
National Grid

National Grid Electricity Transmission sits at the heart of the energy system, connecting millions of people safely, reliably and efficiently to the energy they use every day.

We are working to build a cleaner, fairer and more affordable energy system that serves everyone – powering the future of our homes, transport and industry.

It is **National Grid Electricity Transmission** that is developing plans for EGL 3 and EGL 4.



Moving toward net zero and energy security

The UK has a world-leading target to tackle climate change – to achieve net zero by 2050.

As a country, we are making great progress. The UK has the largest offshore wind capacity in the world with some 13.6 gigawatts – enough for nearly 14 million homes.

But more needs to be done to ensure everyone has access to clean, affordable and homegrown electricity.

British Energy Security Strategy sets out Government's aim to deliver up to 50 GW of offshore wind by 2030 and a five-fold increase in solar by 2035 from 14 GW today.

Committee for Climate Change estimate that as much as 140 GW of offshore wind will be needed to meet net zero by 2050.

Bringing energy to life

The way we generate electricity in the UK is changing rapidly. We are transitioning to cheaper, greener and more secure sources of energy like new offshore windfarms.

Decarbonising the energy system and delivering cheaper and more secure energy supplies is one of the biggest challenges facing our world. At **National Grid Electricity Transmission**, we have a critical role to play in the acceleration towards a cleaner future.

We are at the heart of that energy transformation – investing around £1.3bn each year to adapt and develop our transmission network to connect new sources of low carbon and green energy to our homes and businesses.

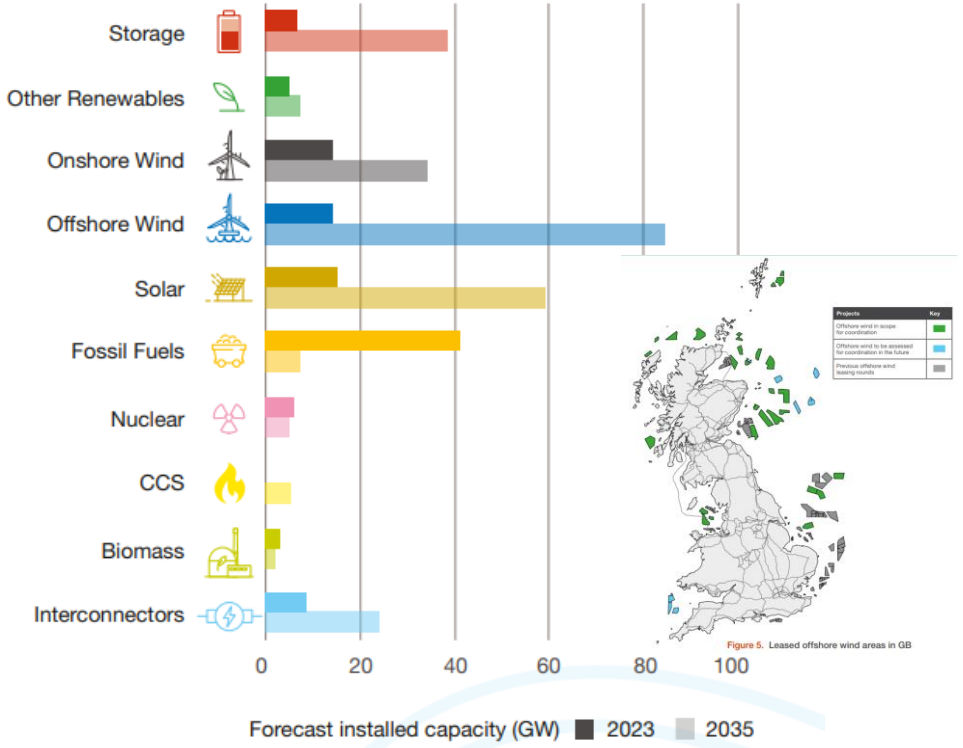


Figure 9. Generation mix now and forecast for 2035

The Great Grid Upgrade

Our plans are part of The Great Grid Upgrade – the largest overhaul of the electricity grid in generations. Our infrastructure projects across England and Wales are helping to connect more renewable energy to your homes and businesses.

The Great Grid Upgrade will play a big part in **the UK government's plan to boost homegrown power**. It will help the UK switch to clean energy and make sure our electricity network is fit for the future; carrying more clean, secure energy from where it's generated to where you need it.

EGL 3 and EGL 4 are two of 17 network reinforcements identified as 'essential' and which need to be accelerated to meet 2030 targets.

More clean energy for all

The Great Grid Upgrade will enable the electricity grid to carry more clean energy to communities in every part of England and Wales, helping us all reach net zero faster.

Energy security

The Great Grid Upgrade will connect clean energy that's produced right here in the UK, increasing the self-sufficiency of our energy supplies.

A grid that's fit for the future

As we continue to reduce our reliance on fossil fuels and increase clean energy generation, we'll be using more electricity than ever. That means we'll need a grid that's able to carry all this extra electricity to wherever we might need it.

Investment close to home

As well as helping to reach net zero, the UK government suggests that investment in onshore network infrastructure could support up to 130,000 jobs and contribute an estimated £4-11bn of GVA (gross value added) to Great Britain's economy in 2050.*

02 Non-statutory consultation

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

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Our consultation

The non-statutory consultation will begin Tuesday 23 April 2024 and run for eight weeks until Monday 17 June 2024.

Consultation events

Location	Date	Time	Address
Mablethorpe	Tuesday 30 April 2024	2pm–7pm	Dunes Complex, Central Promenade, Mablethorpe, LN12 1RG
Anderby	Wednesday 1 May 2024	2pm–7pm	Anderby Village Hall, Sea Road, Anderby, Skegness, PE24 5YD
Alford	Thursday 9 May 2024	12:30pm–6pm	Alford Corn Exchange, 9 Market Place, Alford, LN13 9EB
Wisbech	Monday 13 May 2024	2pm–7pm	Leverington Village Hall, Gorefield Rd, Leverington, Wisbech, PE13 5AT
Eastville	Wednesday 15 May 2024	2pm–7pm	Eastville, Midville and New Leake Village Hall, Station Rd, Eastville, PE22 8LS
Kirton Holme	Thursday 16 May 2024	2pm–7pm	Poachers Country Hotel, Swineshead Road, Kirton Holme, PE20 1SQ
Walpole	Monday 20 May 2024	2pm–7pm	Walpole Community Centre, Summer Close, Walpole St Andrew, PE14 7JW
Holbeach	Wednesday 29 May 2024	2pm–7pm	The Holbeach Hub, Boston Rd South, Holbeach, PE12 7LR
Burgh le Marsh	Wednesday 5 June 2024	2pm–7pm	Burgh Le Marsh Village Hall, Jacksons Lane, Burgh le Marsh, Skegness, PE24 5LA

You can contact us on 0800 298 0405 or by emailing contactegl3and4@nationalgrid.com. We can also submit a feedback form by post to Freepost EASTERN GREEN LINKS 3 & 4 or submit an online feedback form at nationalgrid.com/egl3andegl4.

You will also be able to book an ‘ask the expert’ telephone or video appointment with the team by using the contact details above. These individual sessions will be available for the duration of the consultation period.

03 Overview of the projects

The Great Grid Upgrade

Eastern Green Link 3 (EGL 3) and
Eastern Green Link 4 (EGL 4)

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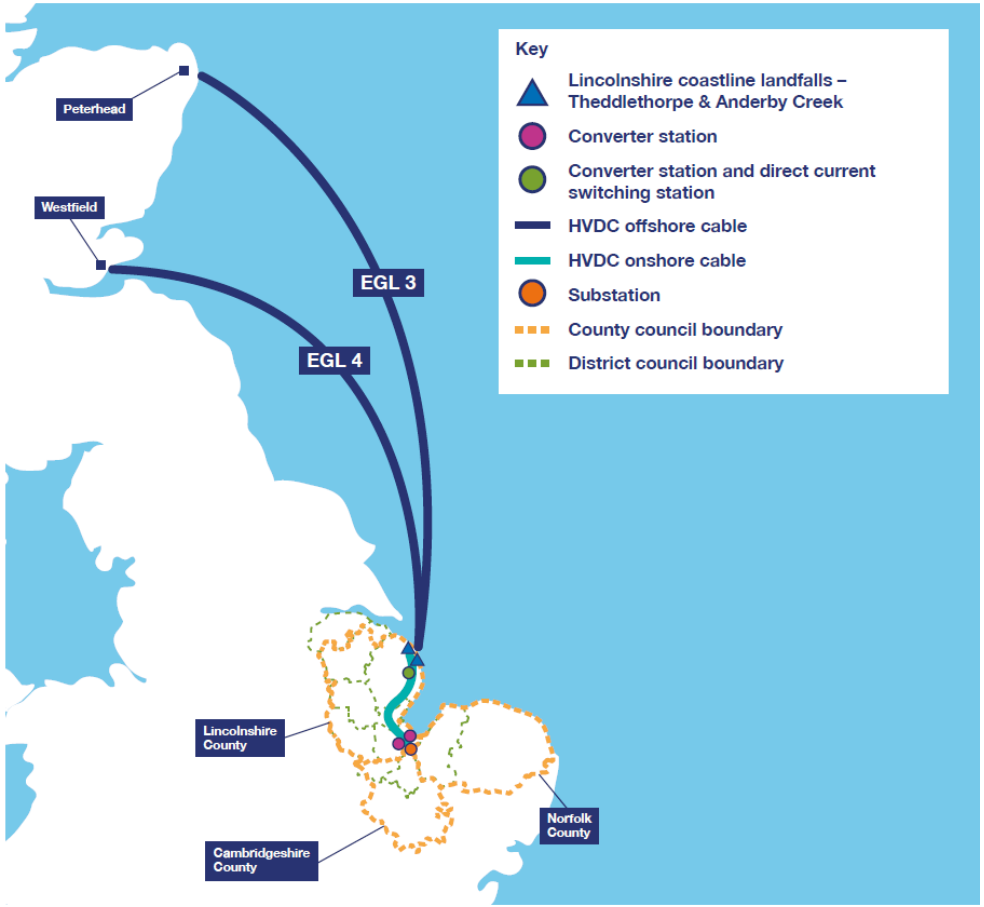
Introducing EGL 3 and EGL 4

- Two new high voltage electricity links are proposed between Scotland and England
- Designed to transport up to 4 GW of clean renewable energy, mostly from offshore wind farms in Scotland, to homes and businesses in the Midlands and South of England
- Together they will transport 4 GW = 4 millions homes worth of energy

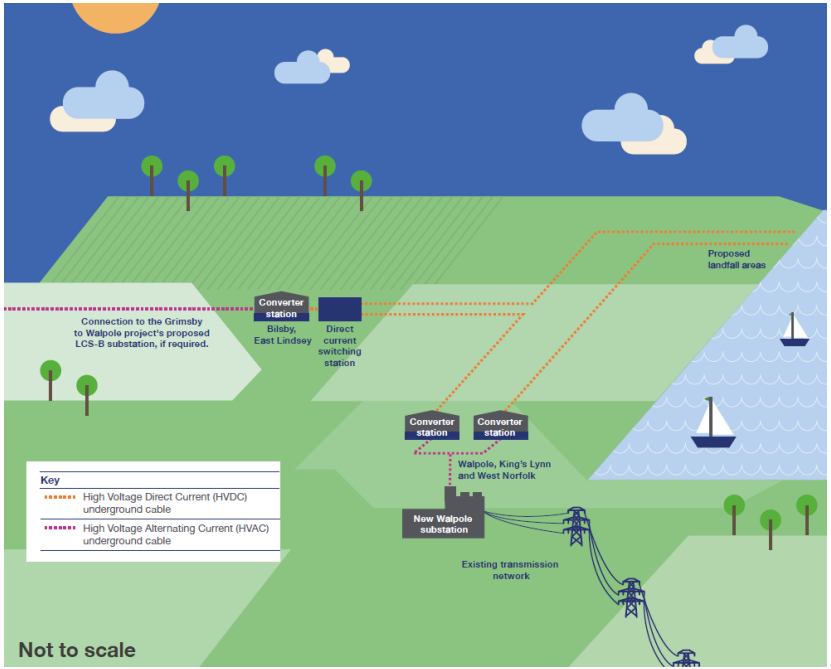


The need for EGL 3 and EGL 4

EGL 3 and EGL 4 projects are needed to stop a bottleneck in the electricity transmission network between Scotland and Southern East Midlands region.

To deliver clean power generated by offshore wind in Scottish waters we must increase existing transmission capacity.

What we propose developing in England



Proposed infrastructure: underground cables

A cross-section of a cable

The ducted method of cable laying

Challenging crossings

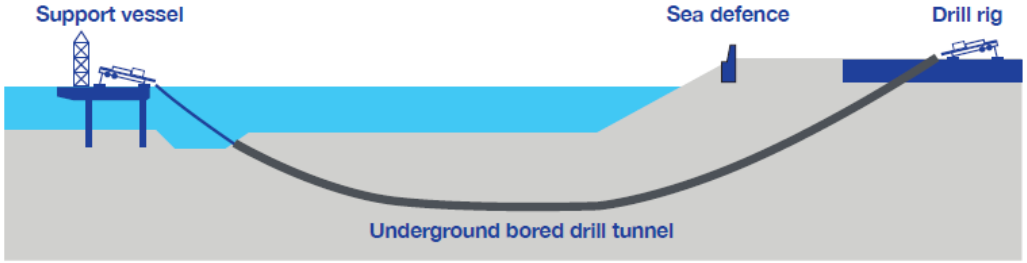
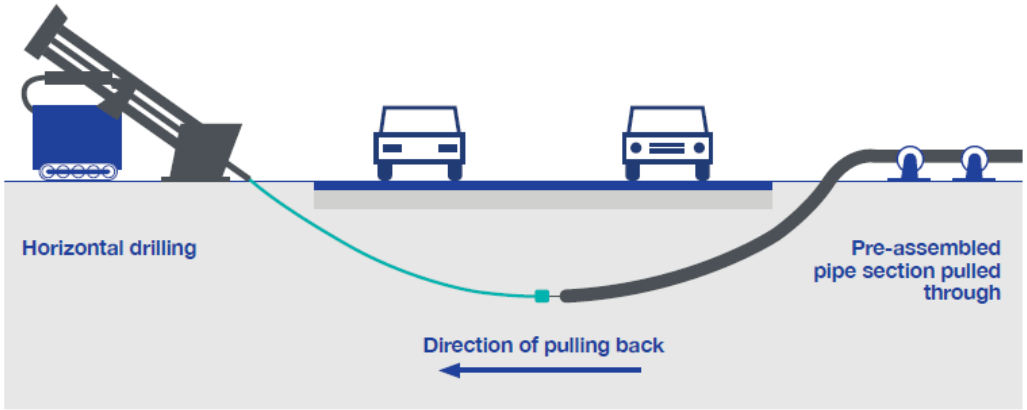


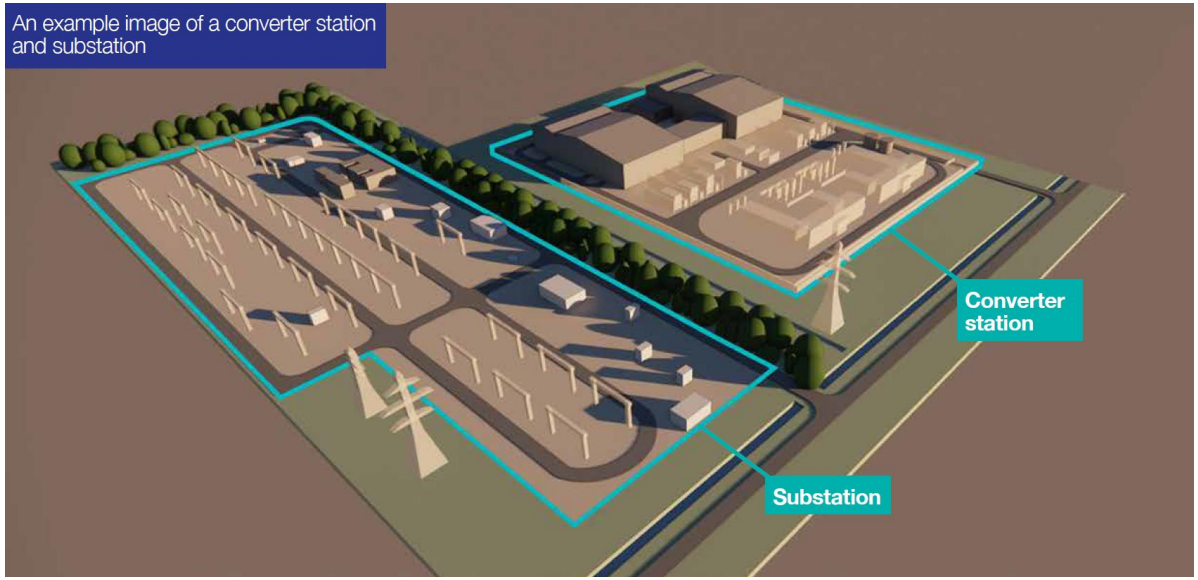
Figure 20 Diagram showing landfall HDD



Proposed infrastructure: converter stations, direct current switching station and substation

Our proposals include:

- **Three** converter stations
- **One** direct current switching station
- **One** substation

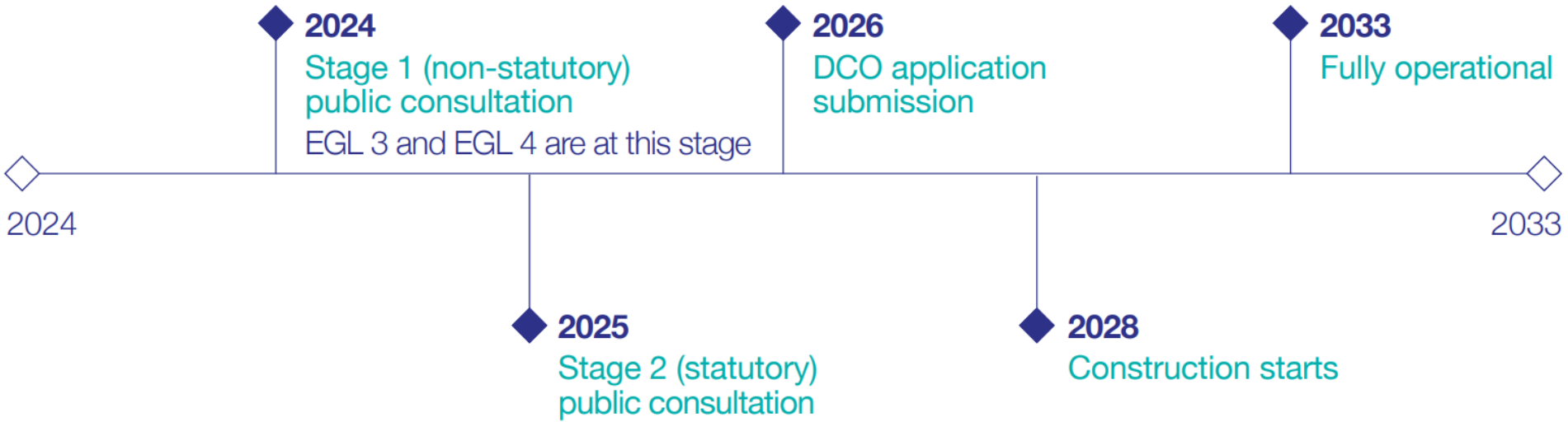


Convertor station design approaches

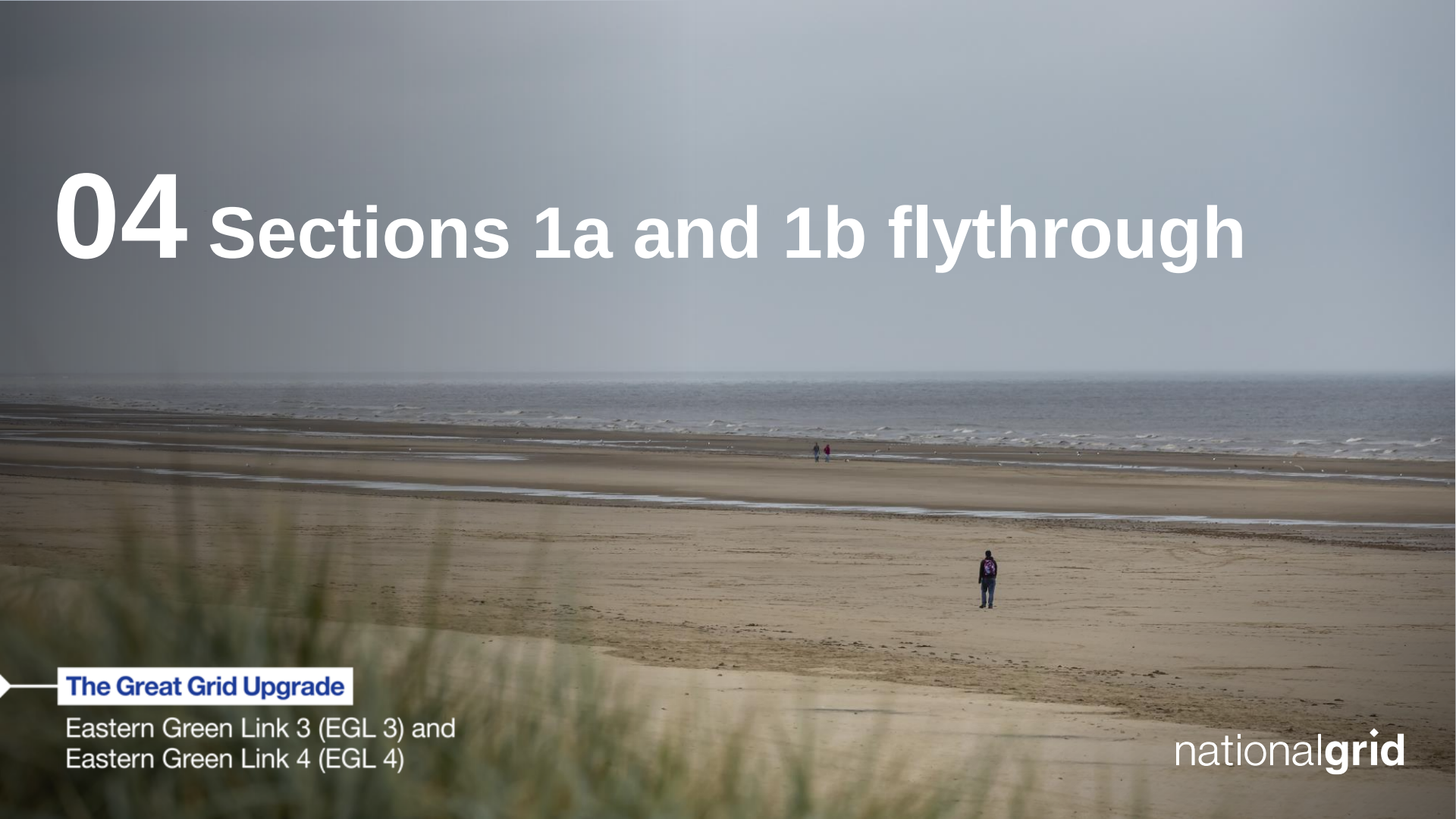
We are seeking views on potential design approaches that we could consider for converter stations.

These would be explored in the detailed design stages; however, the following illustrations show some possible design principles.

Anticipated project timeline



04 Sections 1a and 1b flythrough



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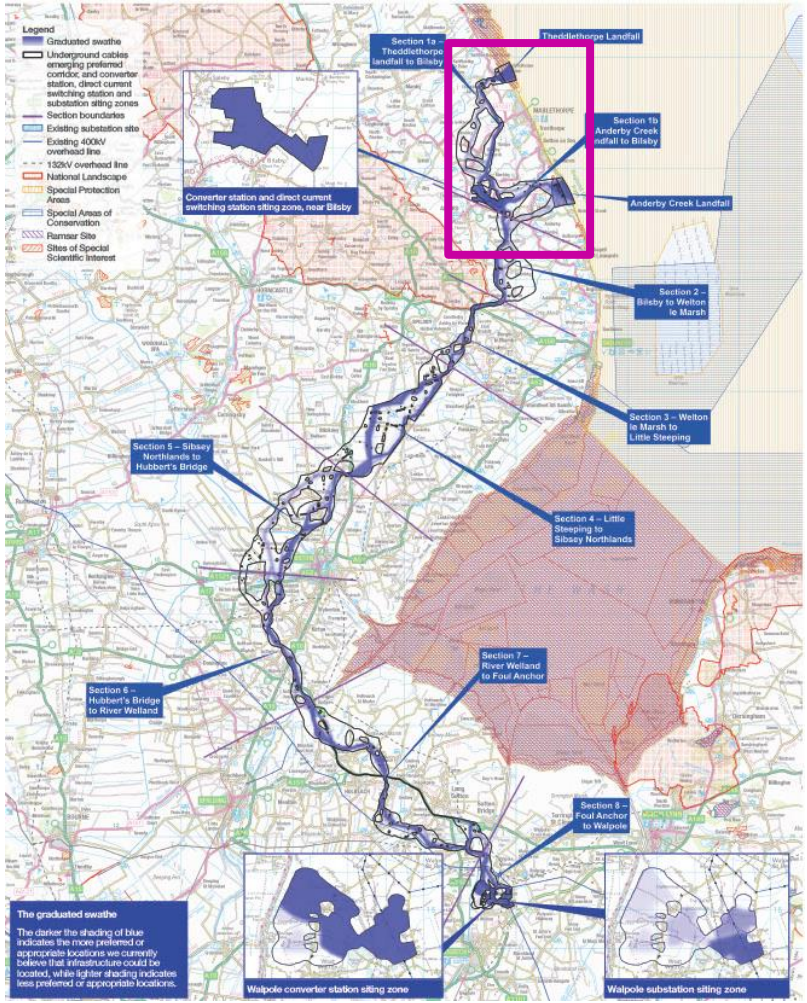
Flythrough section 1a – Theddlethorpe landfall to Bilsby

Proposed infrastructure in Section 1a includes:

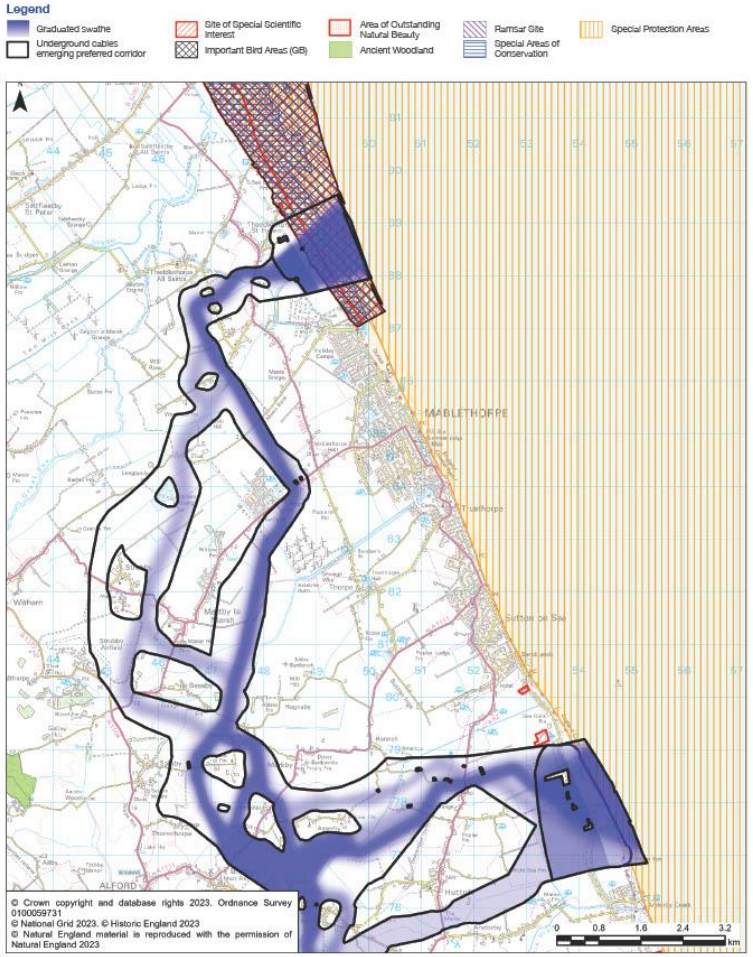
- **Underground cables**: both HVDC and HVAC

- **One converter station**, near Bilsby

- **One direct current switching station**, near Bilsby (in Section 1b too)



Map showing section 1a of the underground cables emerging preferred corridor



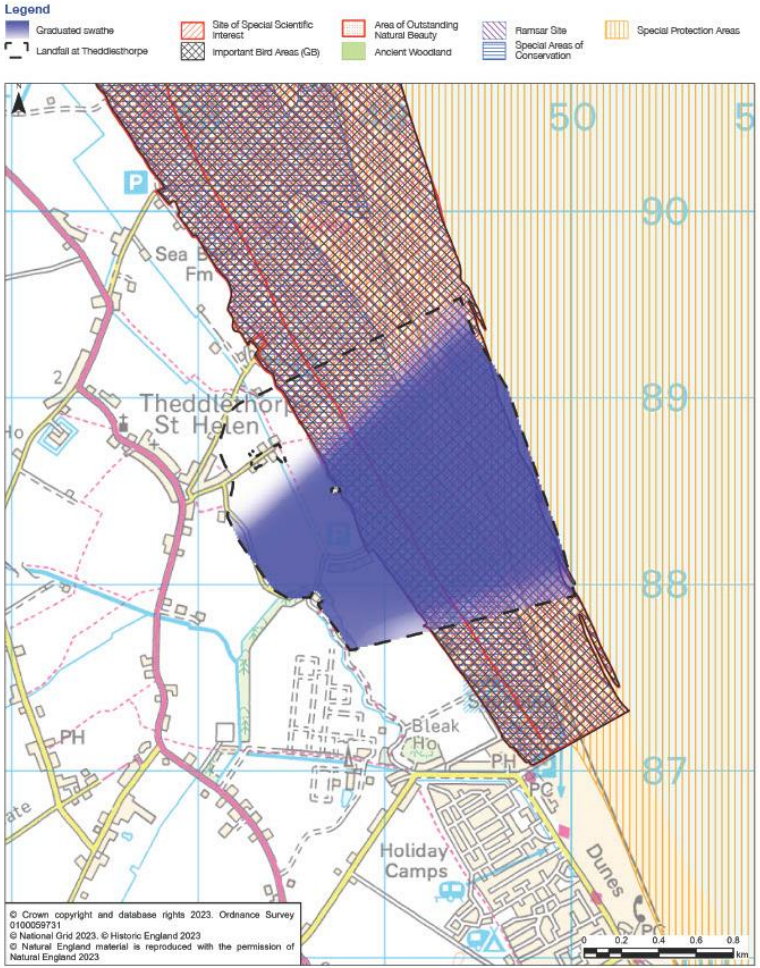
Map showing Theddlethorpe cable landfall

Map shows:

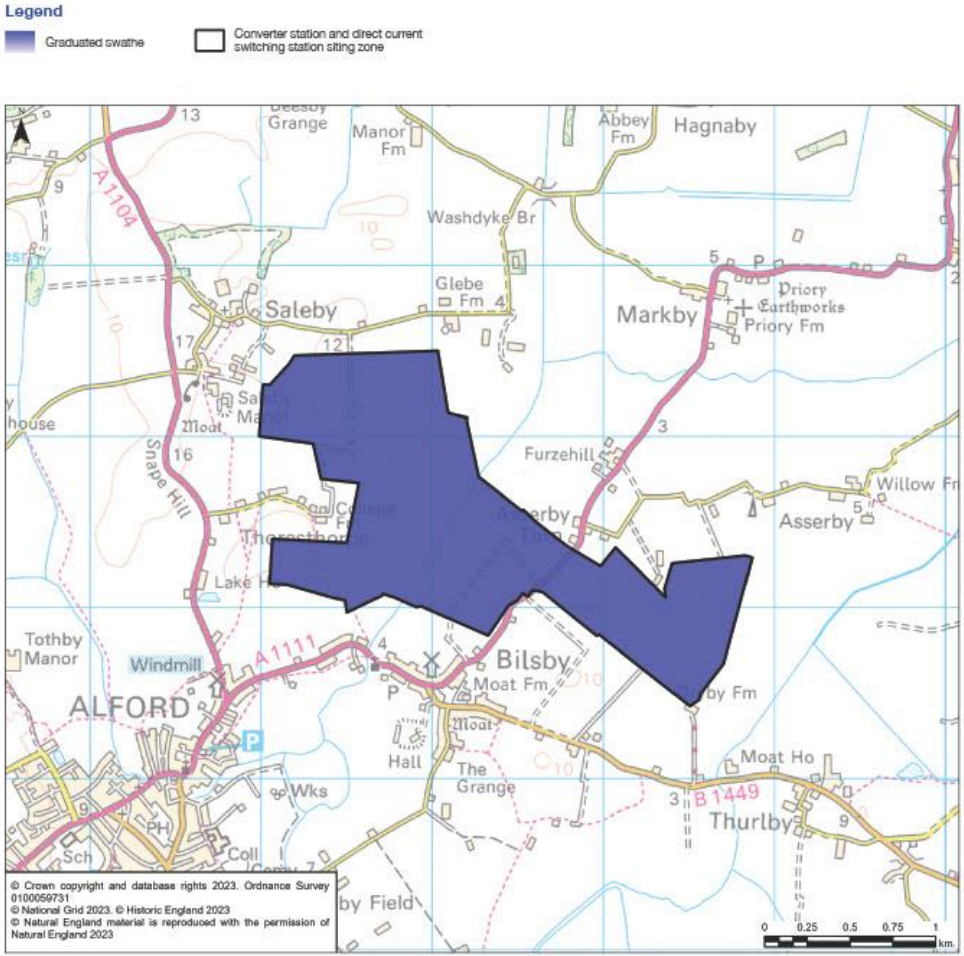
- **Graduated Swathe**: shaded area is darker where the infrastructure is more likely to be located

- **Dashed outline:** Preferred Theddlethorpe landfall area

- **Coloured hatching:** Designated ecological sites including Sites of Special Scientific Interest, Special Protection Area, Special Area of Conservation and Ramsar Sites



Map showing the proposed siting zone for the converter station and direct current switching station, near Bilsby (also in Section 1b)



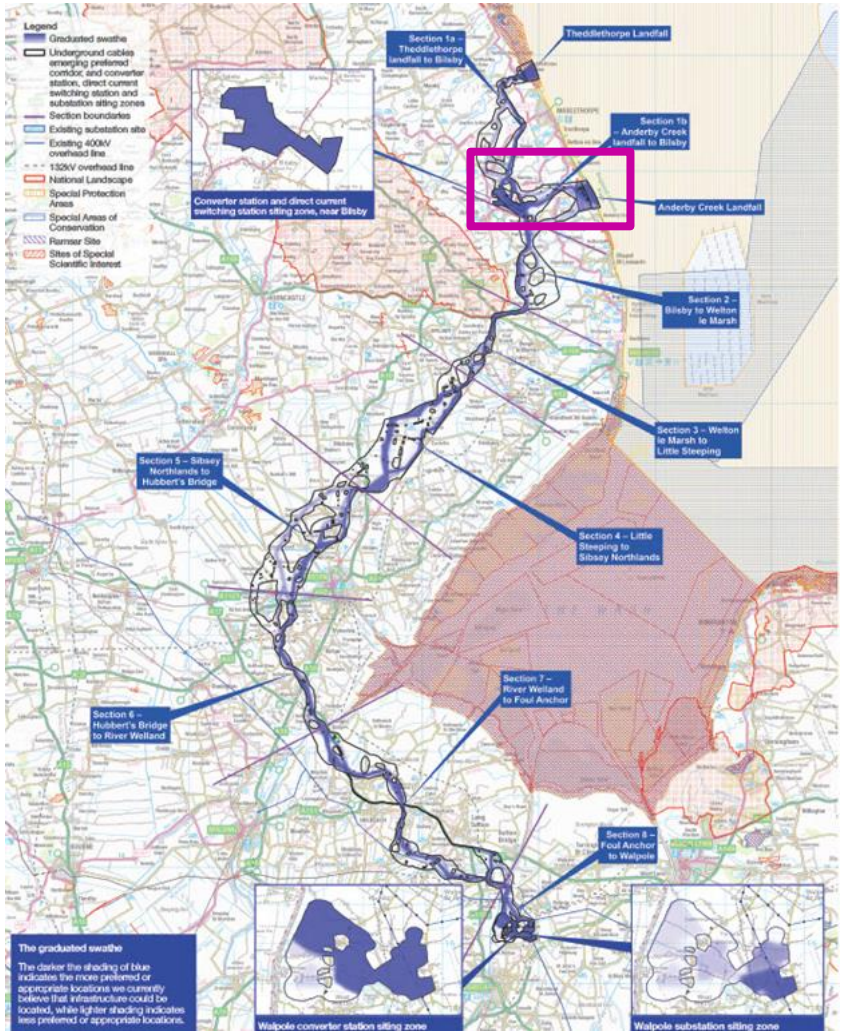
Flythrough section 1b – Anderby Creek landfall to Bilsby

Proposed infrastructure in Section 1b includes:

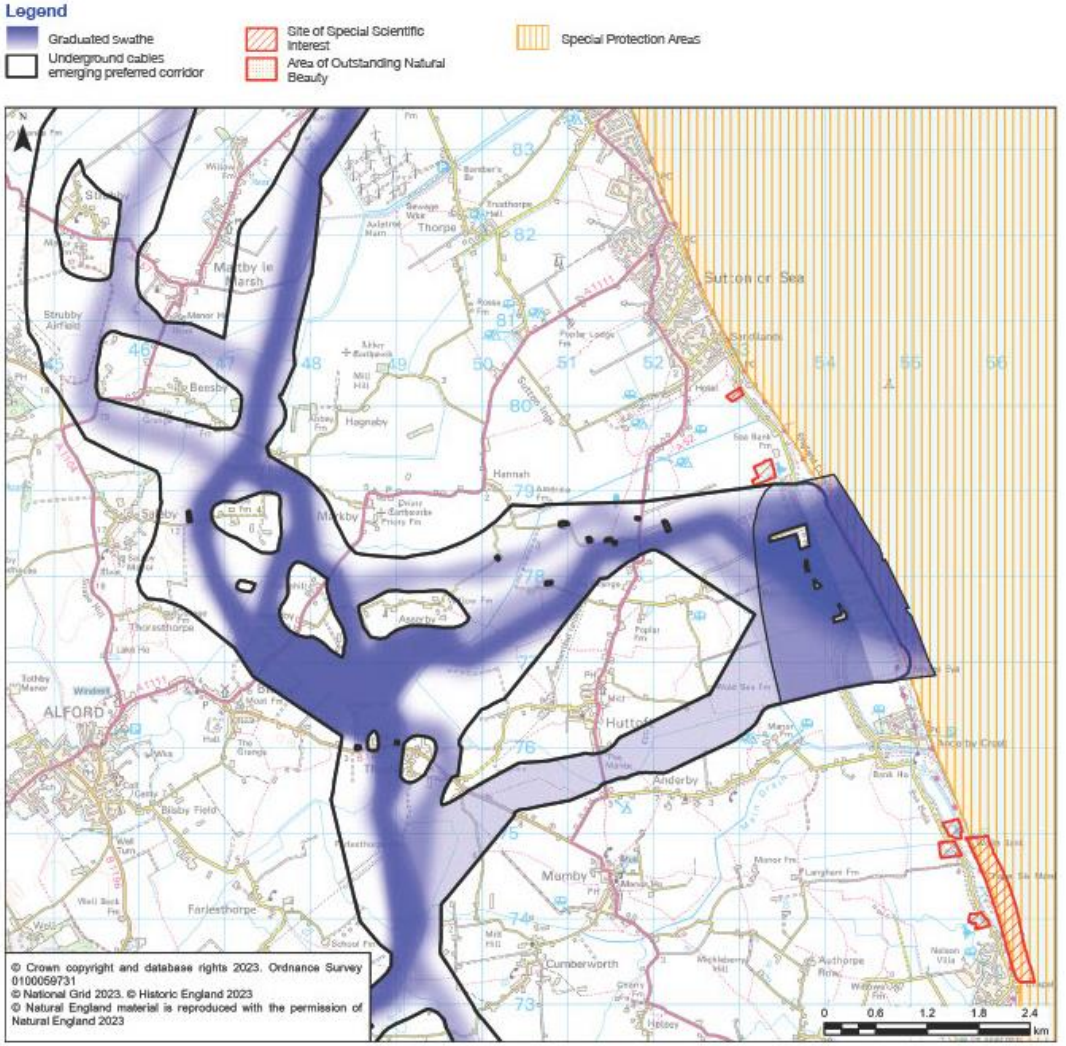
- **Underground cables**: both HVDC and HVAC

- **One converter station**, near Bilsby

- **One direct current switching station**, near Bilsby (in Section 1a too)



Map showing section 1b of the underground cables emerging preferred corridor



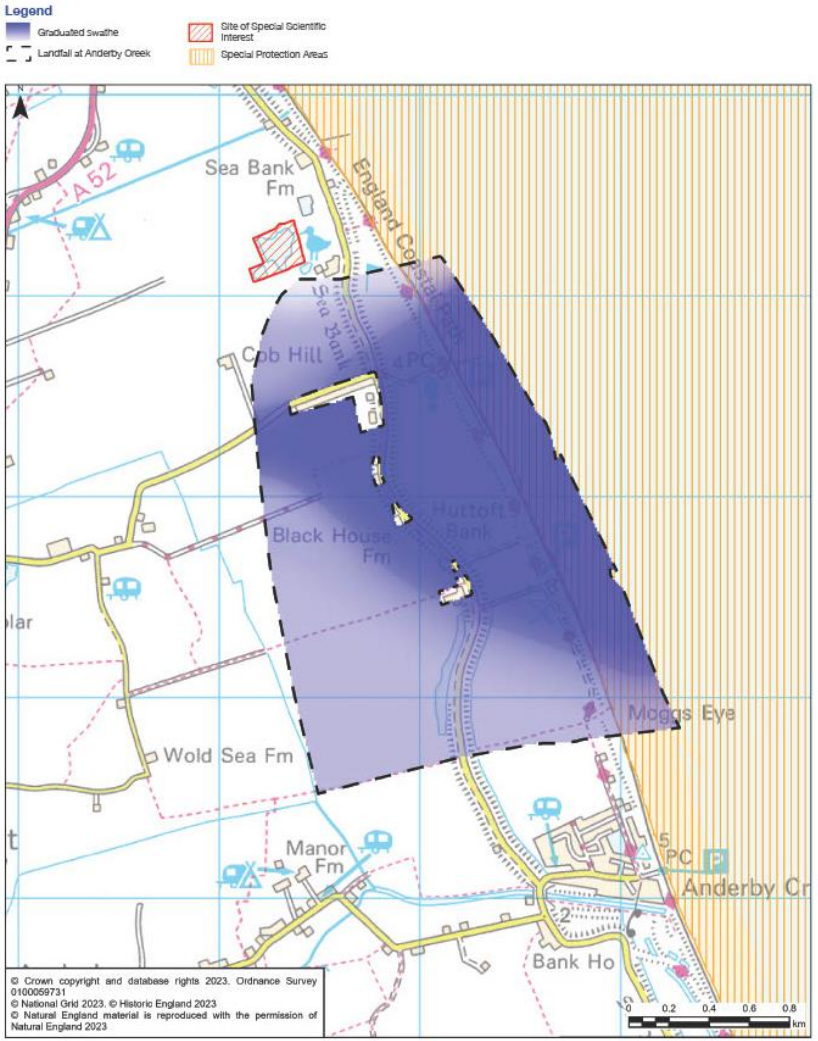
Map showing Anderby Creek cable landfall

Map shows:

- **Graduated Swathe**: shaded area is darker where the infrastructure is more likely to be located

- **Dashed outline:** Preferred Anderby Creek landfall area

- **Coloured hatching:** Designated ecological sites including Sites of Special Scientific Interest, Special Protection Area, Special Area of Conservation and Ramsar Sites



How to share your feedback

To respond to the EGL 3 and EGL 4 consultation:

- Complete the online feedback form on our website
- Email your comments to: contactegl3and4@nationalgrid.com
- Call us on freephone 0800 298 0405
- Post your written responses (no stamp required) to: Freepost EASTERN GREEN LINKS 3 & 4
- Complete a printed feedback form and return it using the freepost address
- Your comments must be received by 11.59pm on Monday 17 June 2024.

05 Q&A

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Thank you

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Eastern Green Link 4 (EGL 4)

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