

East Anglia GREEN

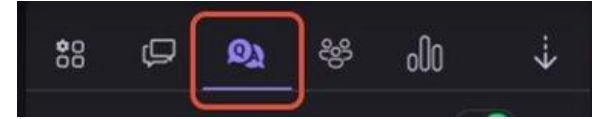
Overview of our proposals

national**grid**

Housekeeping

Today's webinar will be made up of two sessions:

- a presentation to provide an overview of our proposals
- an open Q&A session.



You will not appear on our screen or be required to speak during the webinar.

You can submit questions for our Q&A session – look for the highlighted icon and type in your question.

- When submitting a question, your name will be shared and may appear on screen. You do not have to give a real name.
- You can upvote other people's questions.
- Answers to frequently asked questions can be found on our project website.

Meet the team



Liam Walker

Project
Director



Simon Pepper

Senior Project
Manager



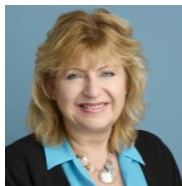
Jacqui Fenn

Regional External
Affairs Manager



**Nicholas
Coombes**

Senior Consents
Officer



Donna Burnell

Community
Relations
Team



Rory Puxley

Community
Relations
Team

Meet the team



Nick Robinson
Land Consultant

Matt Bagby
Tbc

Rory Puxley
Community
Relations
Team

Agenda

-
- | | |
|-----------|-------------------------------------|
| 01 | Introduction and project background |
|-----------|-------------------------------------|
-
- | | |
|-----------|---|
| 02 | Regional context and need for reinforcement |
|-----------|---|
-
- | | |
|-----------|-------------------------|
| 03 | How we develop projects |
|-----------|-------------------------|
-
- | | |
|-----------|-----------------------------------|
| 04 | East Anglia GREEN – our proposals |
|-----------|-----------------------------------|
-
- | | |
|-----------|---------------------------------------|
| 05 | Public consultation April – June 2022 |
|-----------|---------------------------------------|
-
- | | |
|-----------|-----|
| 06 | Q&A |
|-----------|-----|
-

01

Introduction and project background

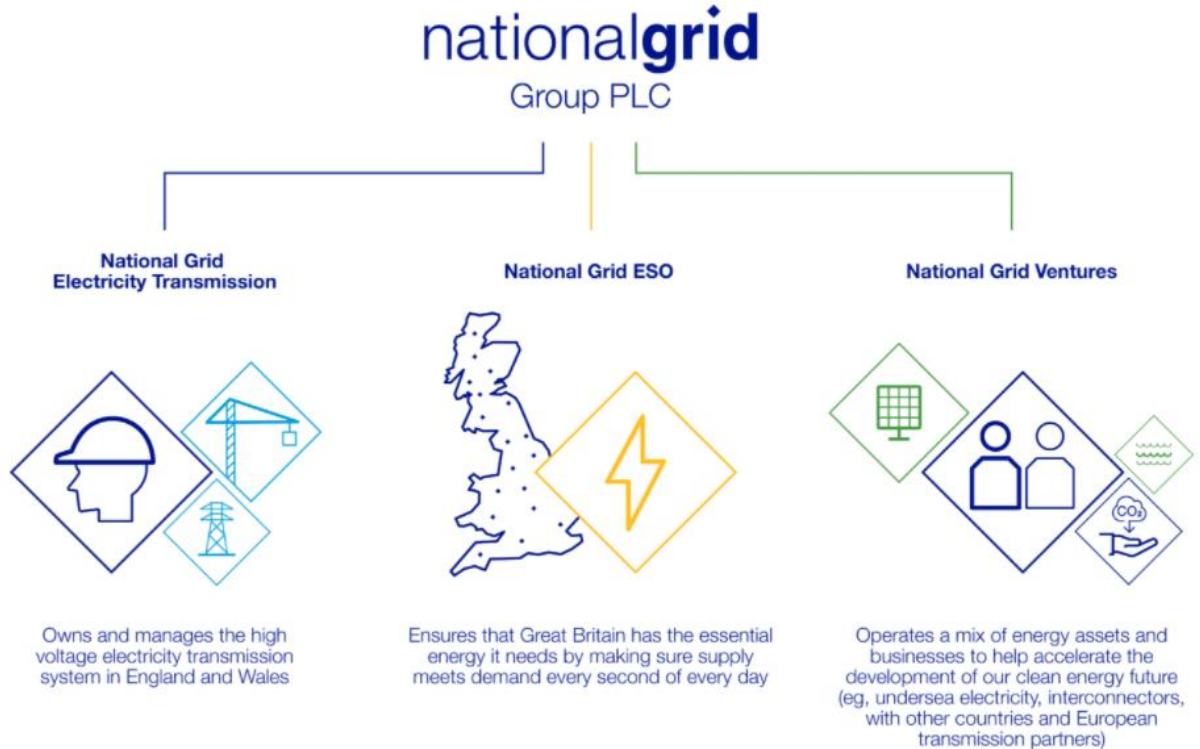
national**grid**



Bringing energy to life

National Grid operates 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.



Moving towards net zero

The UK has a world-leading target to tackle climate change, which is to achieve **net zero by 2050**.

We are already making progress towards this goal – with year on year increases in the amount of green energy on the electricity network.

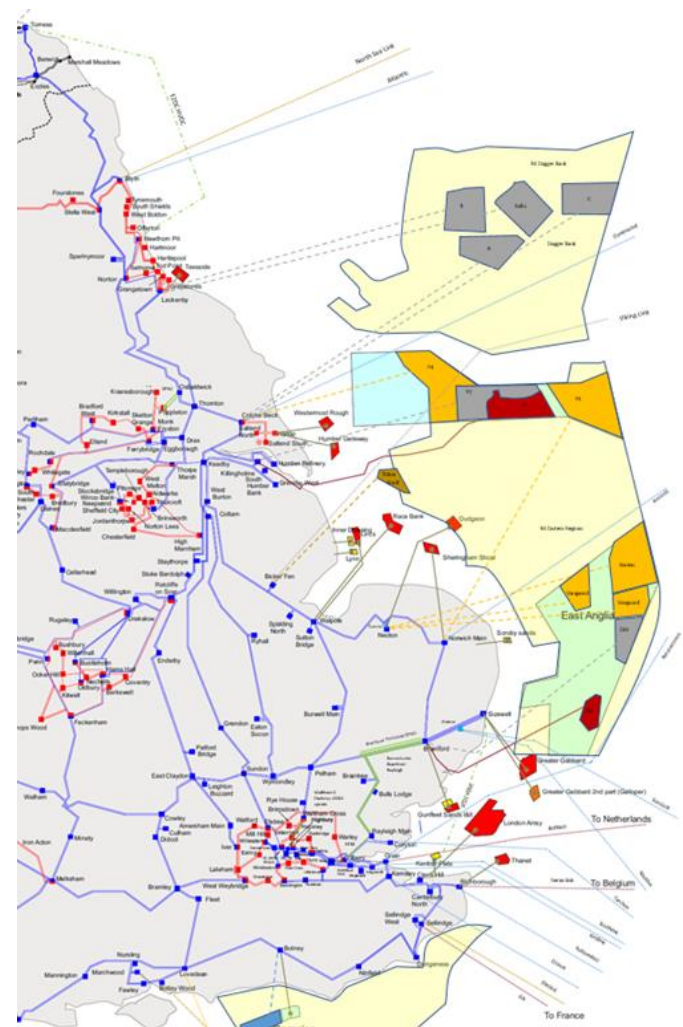
But more needs to be done.



The challenge

- The Climate Emergency
Net zero by 2050
- Government's offshore wind ambition
40 GW plus by 2030

To meet this challenge, we will need to build connections to the new offshore wind projects and reinforce our network up and down the East Coast.



02

Regional context and need for reinforcement



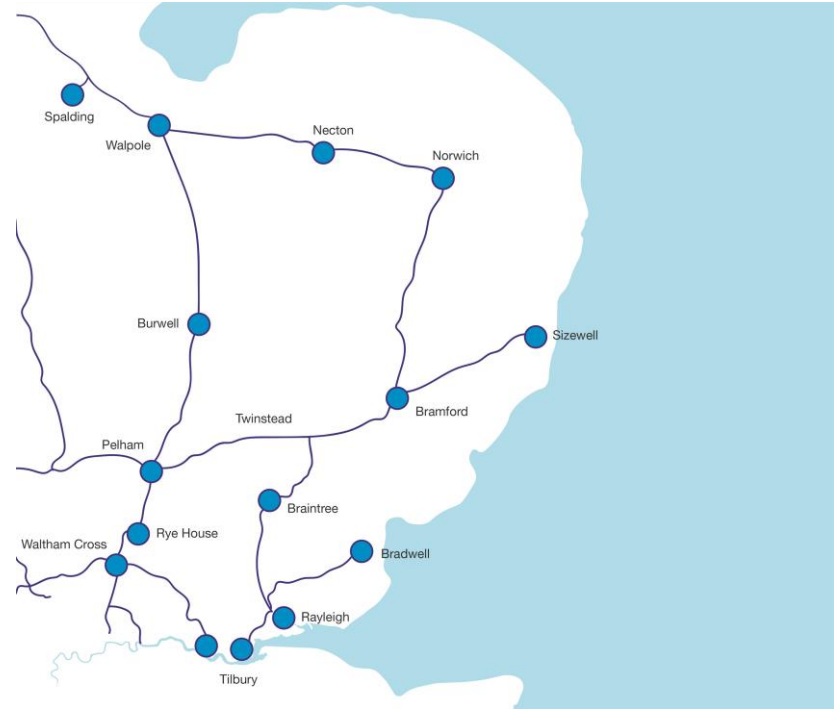
The existing transmission network

The existing network in East Anglia currently carries around **3,200 MW** of electricity generation.

New energy generation from offshore wind, nuclear power and interconnection with other countries, means there will be more electricity connected in East Anglia than the network can currently accommodate.

Over the next decade we expect more than **19,000 MW** of new generation and **4,500 MW** of new interconnection to connect in the region.

Our existing power lines do not have sufficient capacity to accommodate this new generation.

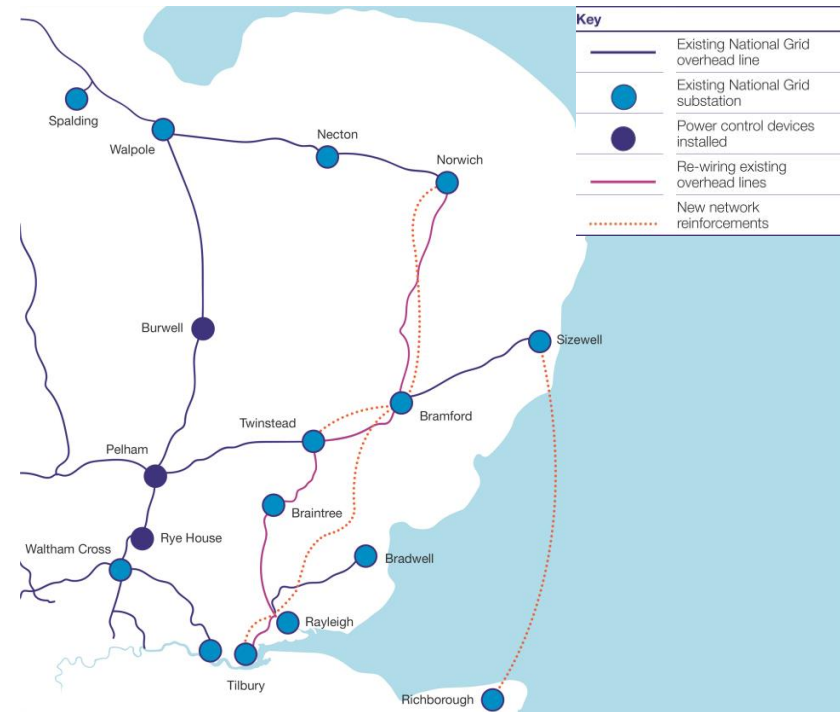


Increasing the capability of the existing network

Before we build new lines, we will improve the existing network including:

- installing power control devices at Burwell, Pelham, Rye House and Waltham Cross
- increasing the voltage of line running south of Waltham Cross
 - Norwich and Bramford
 - Bramford to Braintree
 - Rayleigh to Tilbury

This will increase network capability to 6 GW but it will not achieve the capacity required and we need to build new reinforcements.



Customer connections

Two signed connection customers:

- **North Falls** - Extension to the existing Greater Gabbard Wind Farm off the East Anglia Coast.
- **Five Estuaries** - Sister project to the existing 353 MW Galloper Wind Farm, 30 km off the East Anglia coast.



A photograph of three people walking away from the camera on a grassy hill. The person on the left is a man in a dark shirt and pants. The person in the middle is a woman with blonde hair wearing a green jacket. The person on the right is a woman with dark hair wearing a white sweater and blue jeans, carrying a black backpack. They are walking up a hill covered in green grass and small yellow flowers. In the background, there are large trees under a clear blue sky.

03

How we develop projects

national**grid**

How we develop projects

Our project development process includes the following key stages:

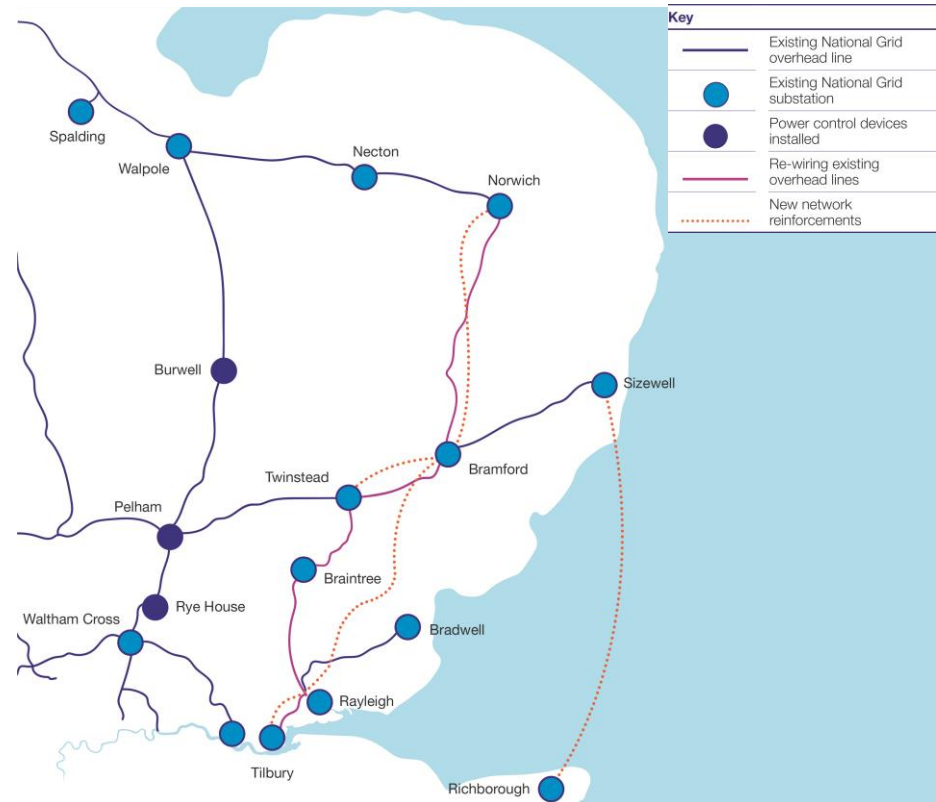


Our strategic proposal

The reinforcement solution which provides the highest overall value to consumers combines both offshore and onshore connections.

It is made up of three distinct elements:

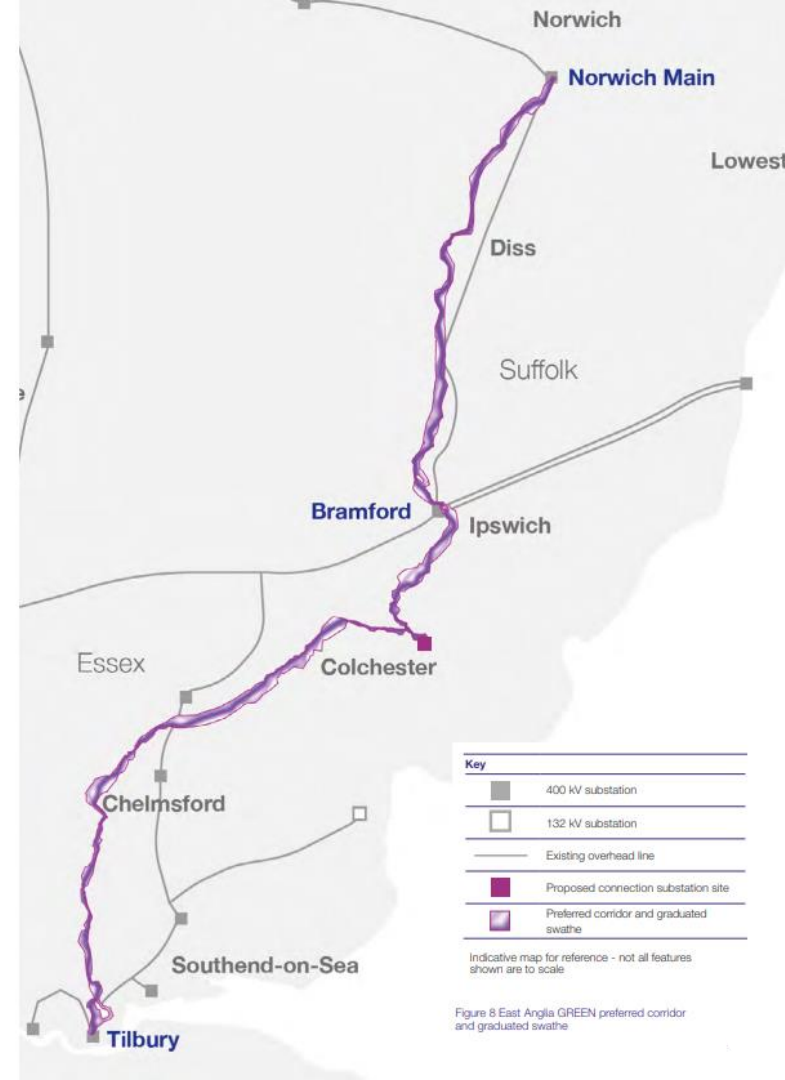
- a new offshore reinforcement between the south coast and East Anglia '*Sea Link*'
- a new onshore reinforcement between Tilbury and Grain
- a new onshore reinforcement between Norwich and Tilbury '*East Anglia GREEN*'



The project

Our proposals for East Anglia GREEN reinforcement include:

- 60 km new 400 kV overhead line between Norwich and Bramford (AENC in NOA)
- 120 km new 400 kV overhead line between Bramford and Tilbury (ATNC in NOA)
- underground cables through Dedham Vale AONB
- new 400 kV substation, to be connected into the new Bramford – Tilbury circuit, to connect North Falls and Five Estuaries offshore wind farms.



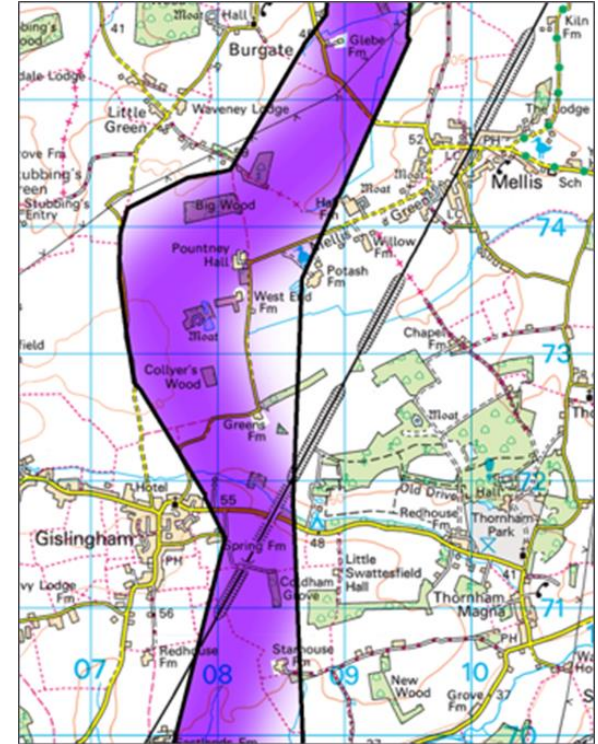


04

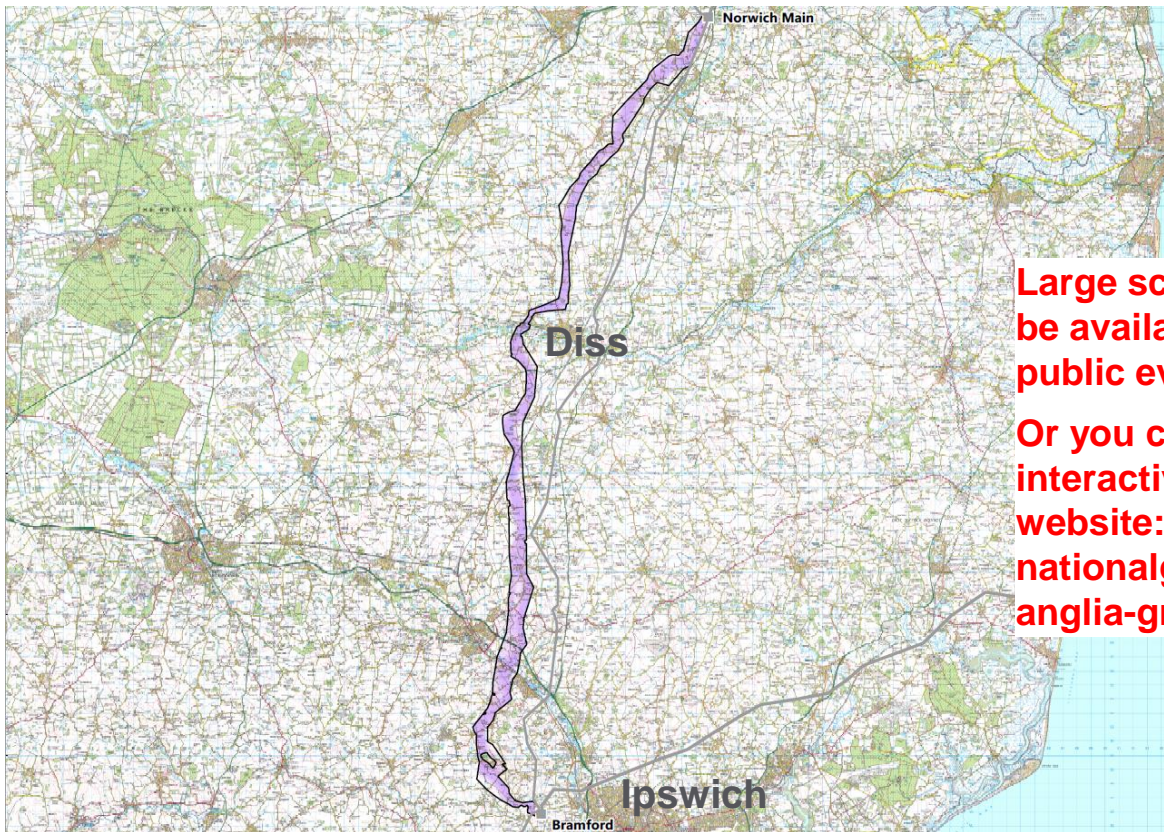
East Anglia GREEN – our proposals

Preferred corridor and graduated swathe

- The preferred corridor has been identified by environmental appraisal and engineering evaluation
- The graduated swathe in the preferred corridor defines the area where our initial appraisals consider new infrastructure could be located.
- The graduated swathe shows the area considered more likely to be developed as a darker colour than areas considered less likely.
- Consultation feedback and additional site surveys will inform our detailed design.



Norwich to Bramford – preferred corridor and graduated swathe



Large scale maps will be available at our public events.

Or you can view the interactive map on our website:
nationalgrid.com/east-anglia-green

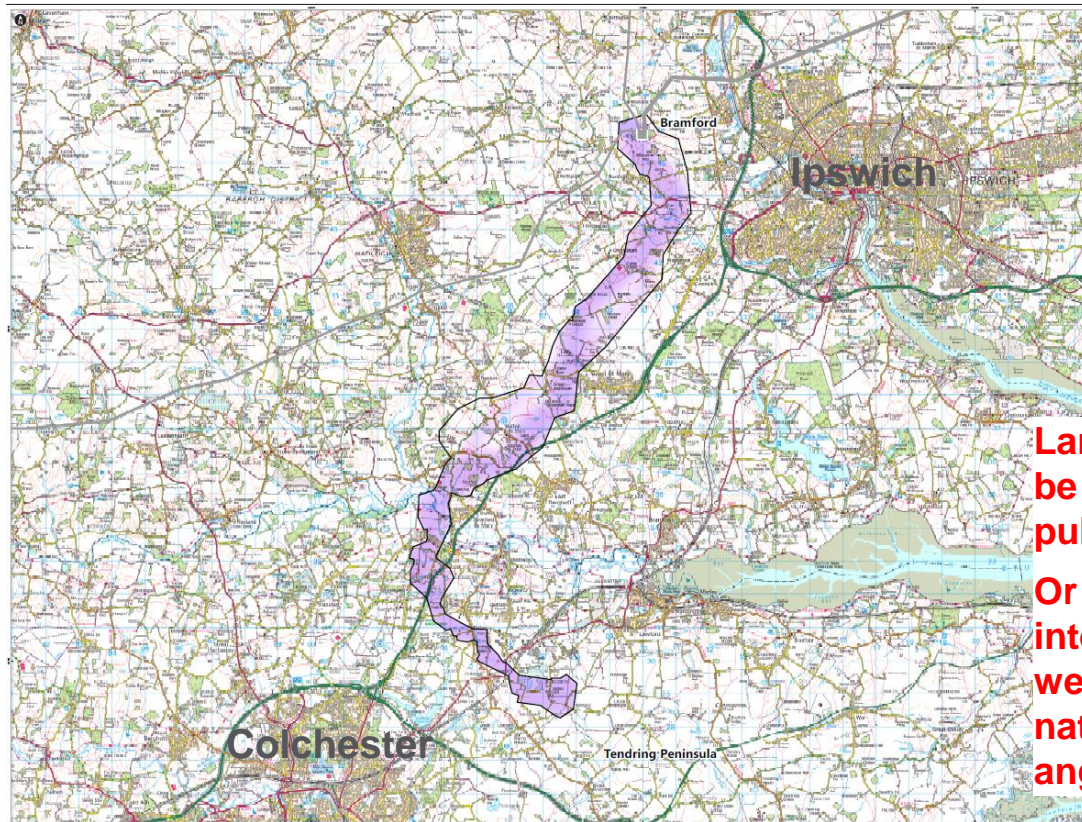
Our preferred substation site - Tendring



Large scale maps will be available at our public events.

Or you can view the interactive map on our website:
nationalgrid.com/east-anglia-green

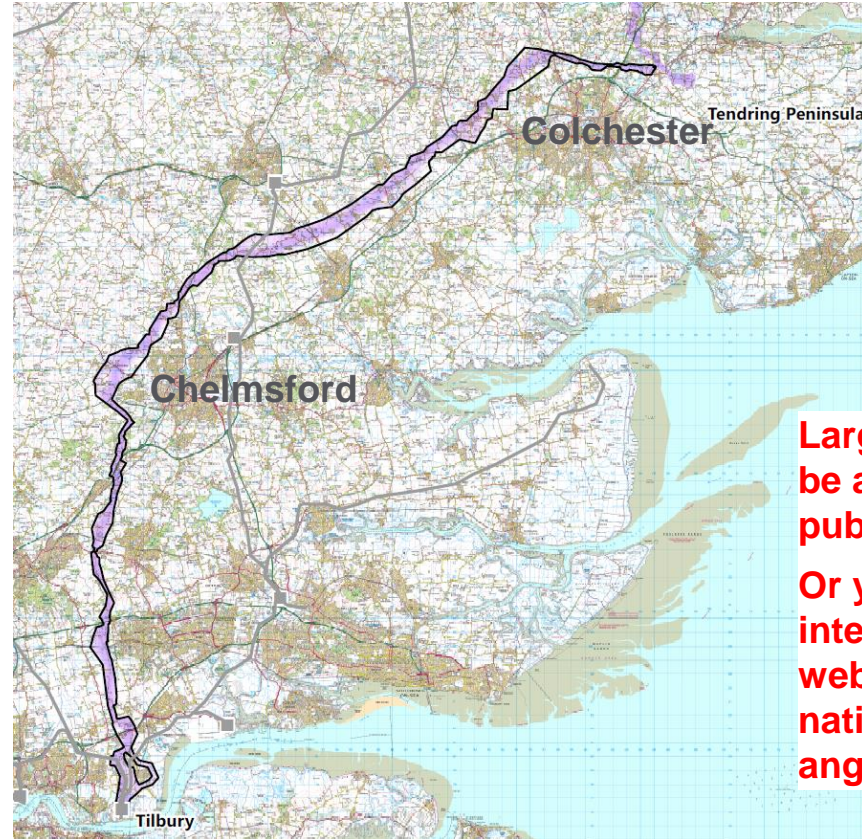
Bramford to Tendring – preferred corridor and graduated swathe



Large scale maps will be available at our public events.

Or you can view the interactive map on our website:
nationalgrid.com/east-anglia-green

Tendring to Tilbury – preferred corridor and graduated swathe

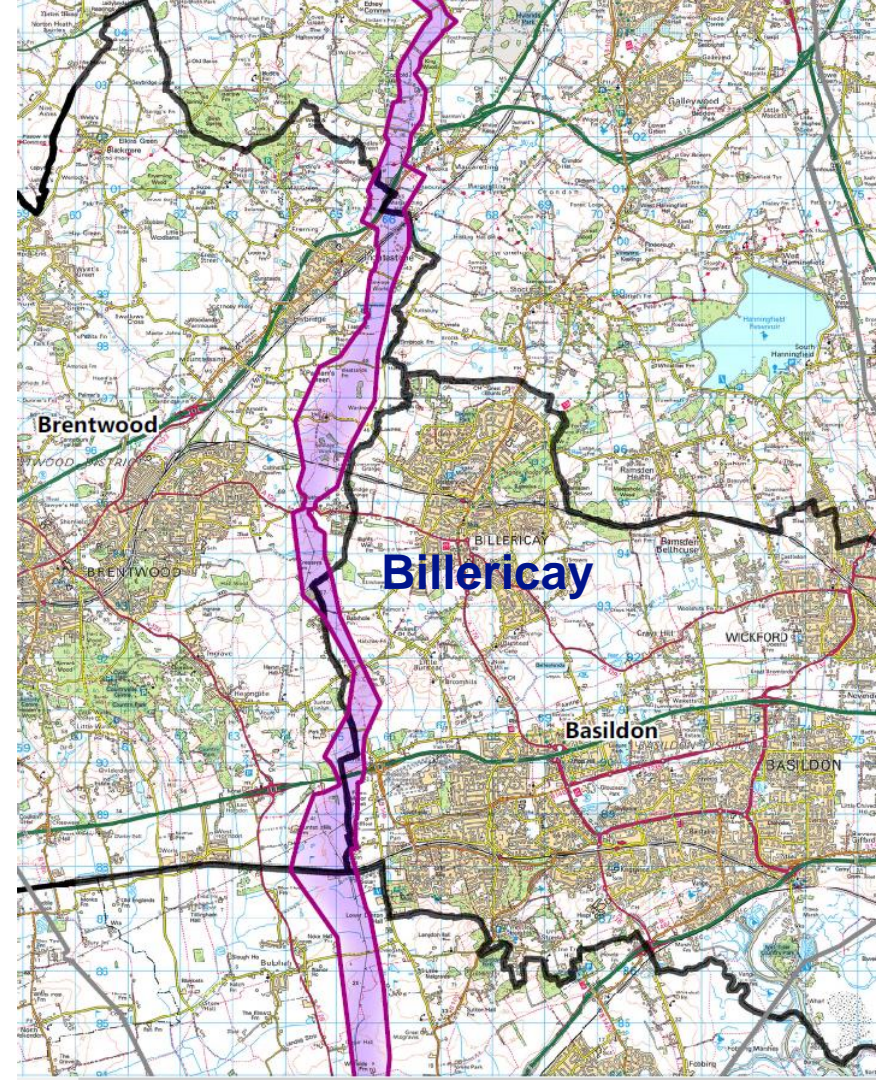


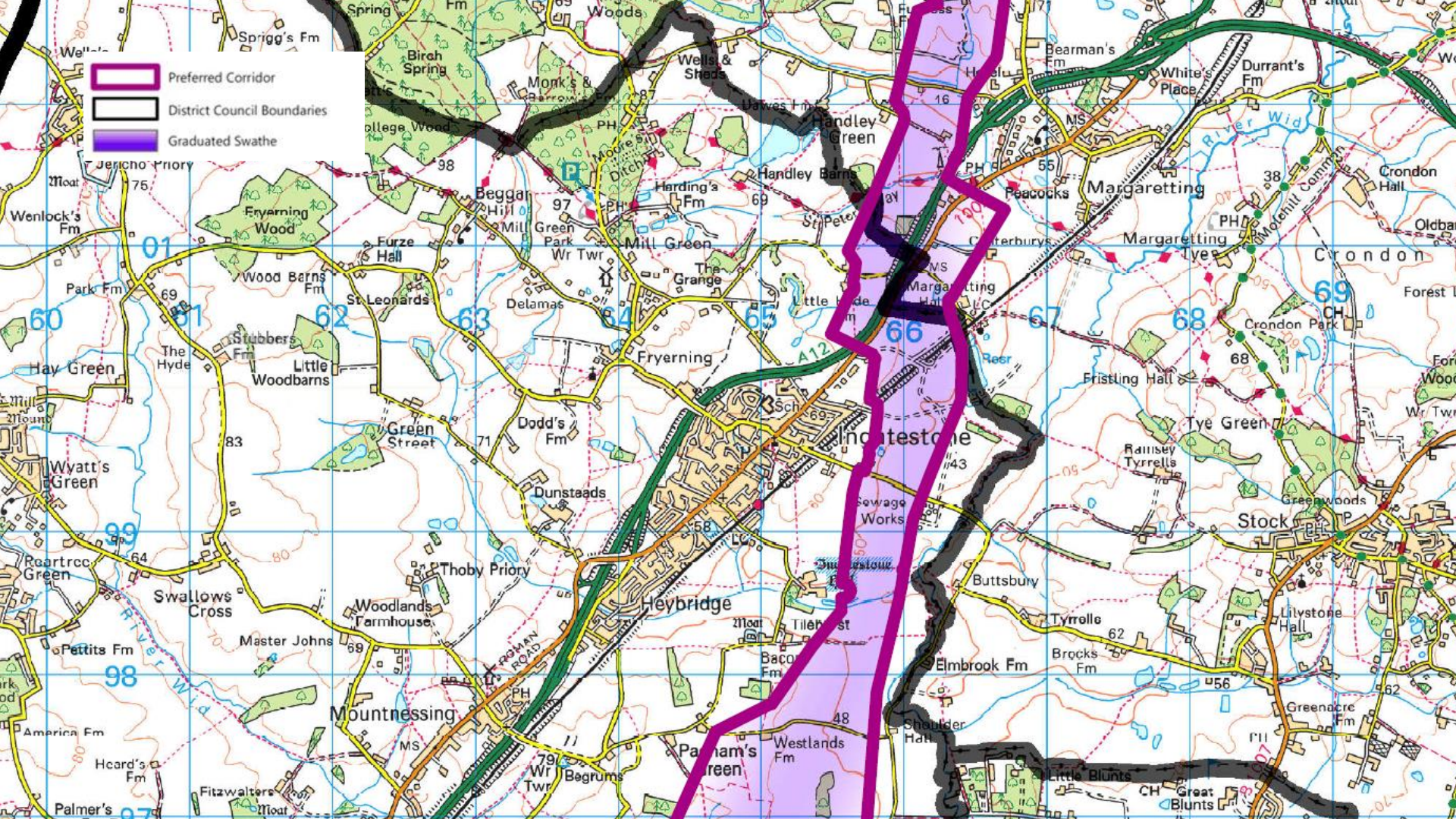
Large scale maps will be available at our public events.

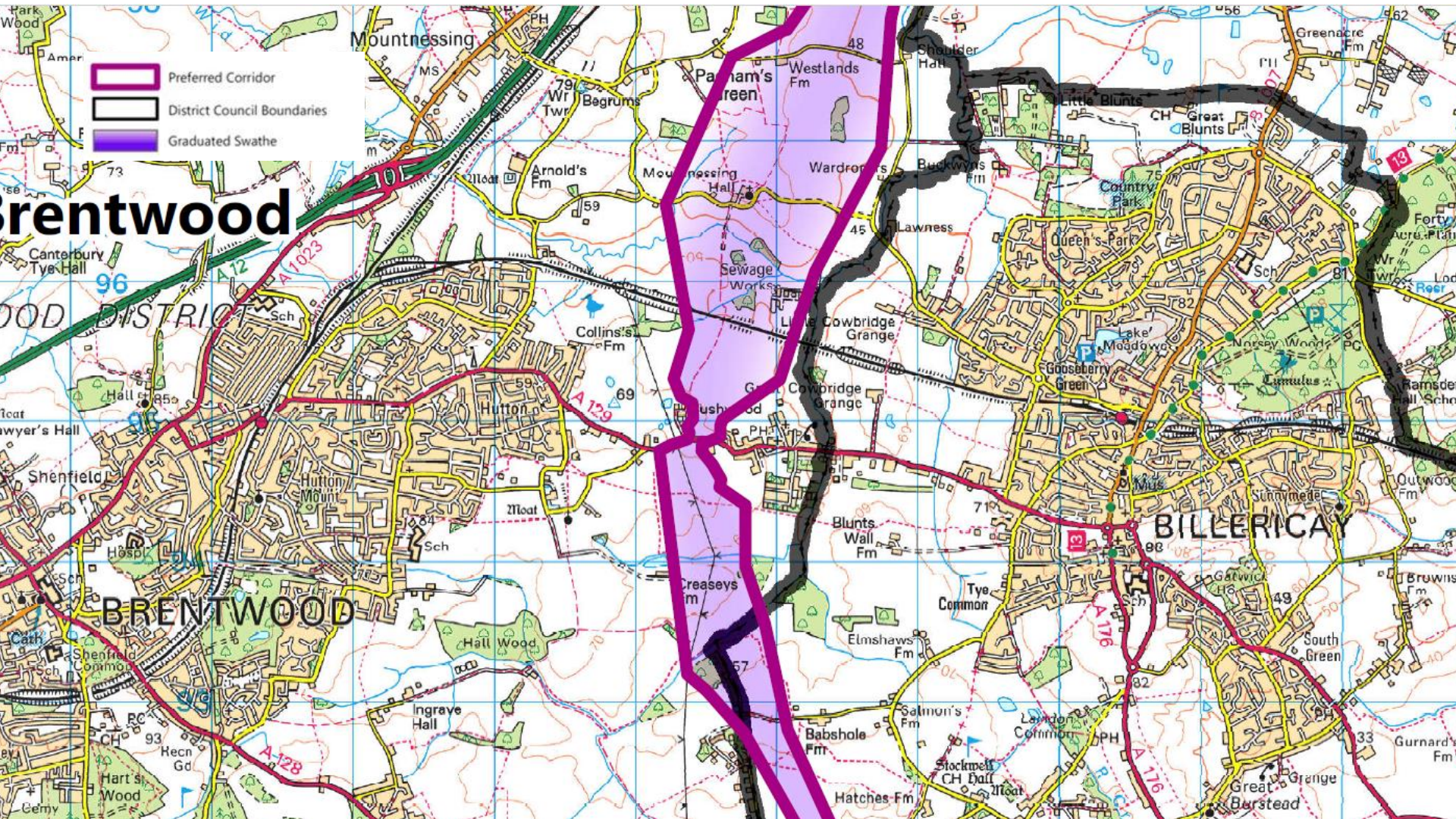
**Or you can view the interactive map on our website:
nationalgrid.com/east-anglia-green**

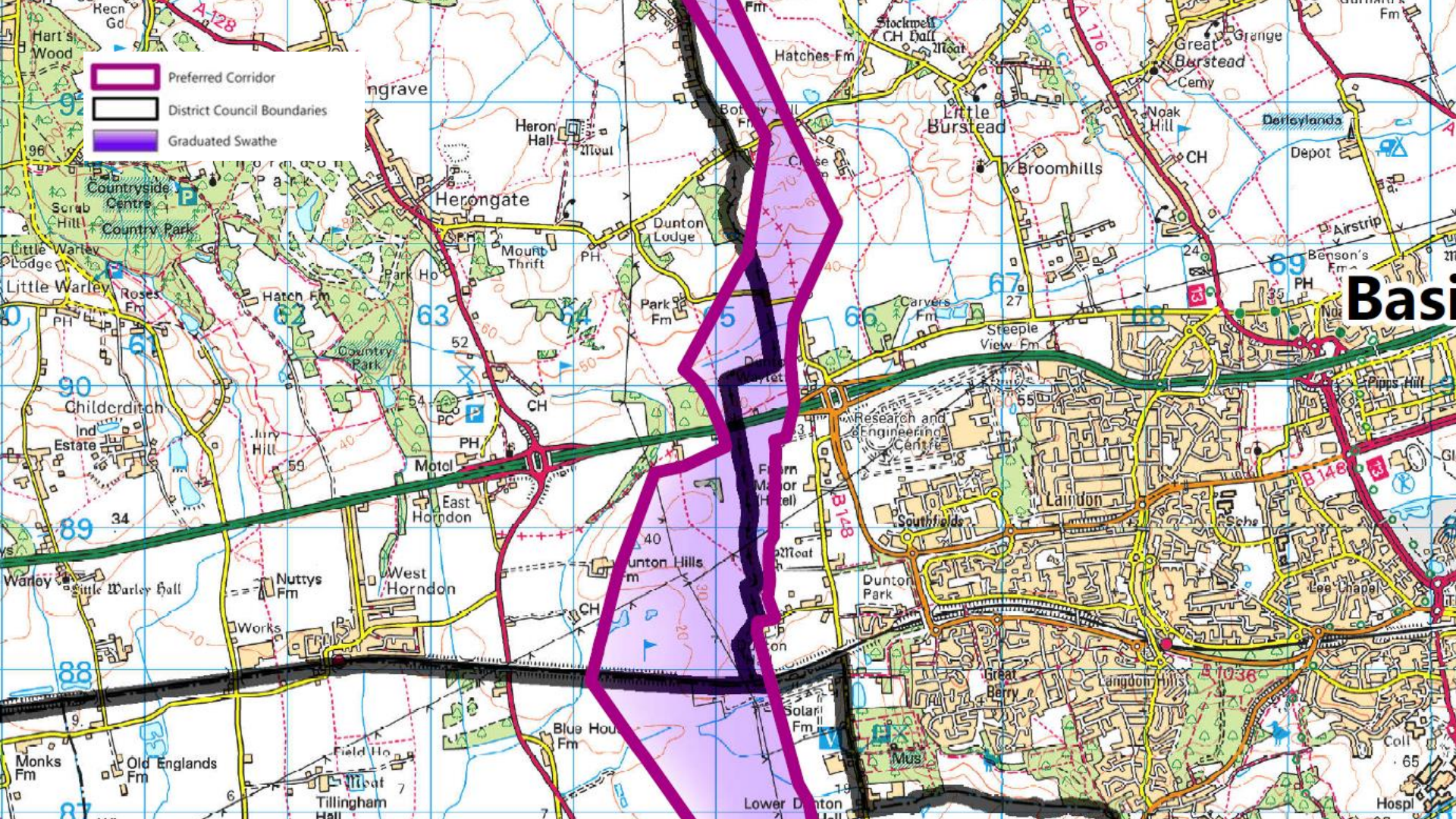
Brentwood and Basildon

- We expect the reinforcement in this section to be made up of new overhead line supported by steel lattice pylons.











05

Public consultation

21 April – 16 June 2022

nationalgrid

Timing and duration

- Our public consultation began on 21 April and closes on 16 June 2022, lasting eight weeks.
- Prior to our consultation, we set out our proposed plans for public consultation in a Consultation Strategy, which was reviewed and commented on by local councils.



Public consultation

Our aims for our public consultation are to:

- introduce and provide an overview of the project to the public
- explain how we have developed our project and explain our plans
- hear your views on our proposals
- outline next steps and programme and how we will further develop our proposals.



How we are consulting

Engagement materials

- project website, including an interactive map to show proposals, FAQs, feedback form and land team information
- Project Background Document
- Corridor Preliminary Routing and Siting Study report
- consultation newsletter
- feedback form.

Stakeholder briefings

- MPs and local elected representatives
- parish councils.

Consultation events

- 12 face-to-face events
- 12 online webinars
- 'Ask the expert' sessions.

National Grid | East Anglia GREEN | April 2022

nationalgrid

East Anglia Green Energy Enablement (GREEN)

Community newsletter
April 2022

National Grid is consulting on proposals to reinforce the high-voltage electricity transmission network from Norwich Main substation in Norfolk, to Bramford substation in Suffolk, on to Tilbury substation in Essex, as well as a proposed connection substation to connect new offshore wind generation.

We need to reinforce our network in East Anglia to connect new sources of green energy to the network. The reinforcement will support the UK's ambitions for our country to be a global leader in clean energy. Our proposals include building a new 400,000 volt (400 kV) electricity transmission line over a distance of approximately 180 km and a new 400 kV connection substation.

The reinforcement would comprise mostly overhead line (including pylons and conductors – the 'line' part) and underground cabling through the Dedham Vale Area of Outstanding Natural Beauty (AONB) and a new 400 kV connection substation in the Tending District.

It is important that we hear the views of local people. Knowing what matters to you, matters to us. Our consultation opens on Thursday 21 April 2022 and the deadline for feedback is 16 June 2022.

About National Grid

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

National Grid Electricity Transmission owns, builds, and maintains the electricity transmission network in England and Wales.

Why is East Anglia GREEN needed?

The Government has set a commitment to reach net zero greenhouse gas emissions by 2050 and an ambition to connect 40 GW of offshore wind by 2030 – enough energy to power every home in the country.

With new offshore wind generation, a new nuclear power station at Sizewell C and greater interconnection with countries across the North Sea being proposed, there will be a huge increase in the amount of renewable and low carbon electricity generation connecting along the East coast.

While our existing high voltage electricity network in East Anglia has been sufficient until today, it doesn't have the capability needed to reliably and securely transport all the energy that will be connected by 2030, while working to the required standards.

The existing network in East Anglia currently carries around 3,200 megawatts (MW) of electricity generation. Over the next decade we expect more than 15,000 MW of new generation and 4,500 MW of new interconnection to connect in the region.

There are already works underway to upgrade the existing transmission network in East Anglia. However, even with these upgrades in place, our network will not have sufficient capacity to accommodate this new generation.

Raising awareness of our consultation

Direct mailing

- newsletter distributed to all properties within 1 km from edge of the preferred corridor – our primary consultation zone

Advertising

- advertisements in local and regional newspapers
- information provision for parish councils within PCZ to circulate
- press release distributed to regional / local publications
- advertising on social media targeted geographically

Information points

- placing promotional posters, newsletters, project documents and feedback forms in popular community 'hub' locations such as libraries

Webinar events

Date and time	Topic	Date and time	Topic
Friday 22 April 2pm	Overview of project	Friday 13 May 10am	Our proposals in the Thurrock district
Saturday 23 April 10am	Overview of project	Thursday 19 May 2pm	Our proposals in the Mid Suffolk (& Babergh) districts
Monday 25 April 7pm	Overview of project	Friday 20 May 10am	Our proposals in the Braintree district
Tuesday 26 April 2pm	Overview of proposals in the South Norfolk district	Wednesday 25 May 2pm	Our proposals in the Basildon and Brentwood districts
Friday 6 May 10am	Our proposals in the Babergh, Tendring & Colchester districts	Wednesday 8 June 2pm	Overview of project
Tuesday 10 May 2pm	Our proposals in the Chelmsford district	Thursday 9 June 7pm	Overview of project

Public information events

Date and time	Venue	Date and time	Venue
Thursday 28 April 12-6:30pm	Ingatestone and Fryerning Community Centre, 7 High Street, Ingatestone CM4 9ED	Tuesday 17 May 12-7pm	Holton St Mary Village Hall, Holton St Mary, Hadleigh CO7 6NW
Wednesday 4 May 12-6.30pm	Witham Public Hall, Collingwood Road, Witham CM8 2DY	Wednesday 18 May 12-7pm	Burstall Village Memorial Hall, Burstall, Ipswich IP8 3DR
Saturday 7 May 10am-4pm	West Bergholt Orpen Memorial Hall, 45-57 Lexden Rd, West Bergholt CO6 3BG	Saturday 21 May 1-6pm	Laindon Community Centre, Aston Road, Laindon SS15 6N
Monday 9 May 12-7pm	Chadwell Village Hall, Waterson Road, Chadwell St Mary RM16 4NX	Tuesday 24 May 11am-5.30pm	Writtle Village Hall, 18 The Green, Writtle, Chelmsford CM1 3DU
Wednesday 11 May 1-6:30pm	Mulbarton Village Hall, The Common, Mulbarton NR14 8AE	Friday 27 May 1-7pm	Needham Market Community Centre, School Street, Needham Market IP6 8BB
Saturday 14 May 10am-4pm	The Palgrave and District Community Centre, 10 Rose Lane, Palgrave IP22 1AP	Saturday 28 May 10am-4pm	Lawford Venture Centre, Bromley Road, Lawford, Manningtree CO11 2JE

How to respond to our consultation

We want to hear your views on East Anglia GREEN. Your feedback is important and will be carefully considered as we develop our proposals further.

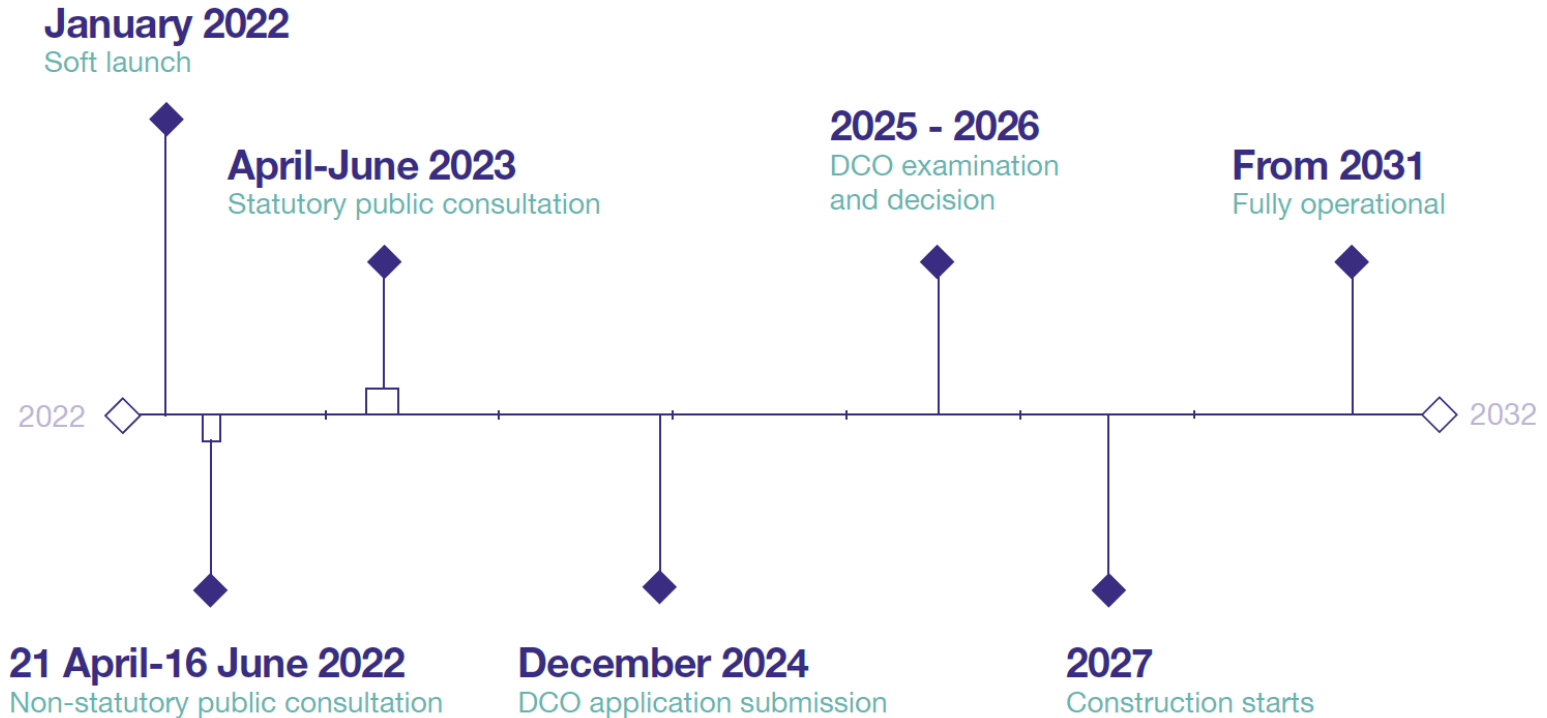
Feedback forms are available:

- online
- at information points
- at public events
- by calling us on the number below to request a copy through the post.

You can also call, email or write to us.

- **0800 151 0992** (lines are open Monday to Friday 9-5:30pm)
- **EastAngliaGREEN@nationalgrid.com**
- **FREEPOST East Anglia GREEN** (no stamp or further address required)

Programme and next steps





06

Q&A

national**grid**