

LIONLINK:

「 A vital step towards an
integrated North Sea grid 」

LionLink Update – April 2024

LionLink Project Update Webinar – April 2024

Housekeeping

- ✓ Attendees will be muted
- ✓ Cameras will be turned off
- ✓ Recording used for internal notetaking purposes
- ✓ Post questions via Q&A tab
- ✓ Questions published in Q&A tab



About National Grid

Who are we?



nationalgrid
Group PLC

National Grid Electricity Transmission (NGET)

Owns and maintains the high voltage electricity transmission network in England and Wales.

National Grid Electricity Distribution (NGED)

As the UK's largest electricity distribution network, it serves nearly 8 million customers in the East and West Midlands, South West and Wales.

Electricity System Operator (NGESO)

Ensures that Great Britain has the essential energy it needs by ensuring supply meets demand every second of every day.

National Grid Ventures (NGV)

Operates a mix of assets and businesses to help accelerate the development of our clean energy future, such as undersea electricity interconnectors with European partners.

Background

Meeting the UK's energy needs



65% increase in UK's electricity consumption by 2035



More onshore and offshore infrastructure needed



Essential for energy resilience and reducing the UK's use of fossil fuels



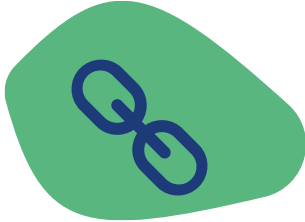
Support net zero targets



Ensures affordable energy

Project recap

LionLink interconnector



Link the UK and Dutch electricity grids



Supply up to 1.8 gigawatts (GW)
– enough to power approx. 2.5 million homes



Increased interconnector capacity by 2030 (Government target of 18GW of interconnector capacity by 2030)



Strengthen the UK's national energy security



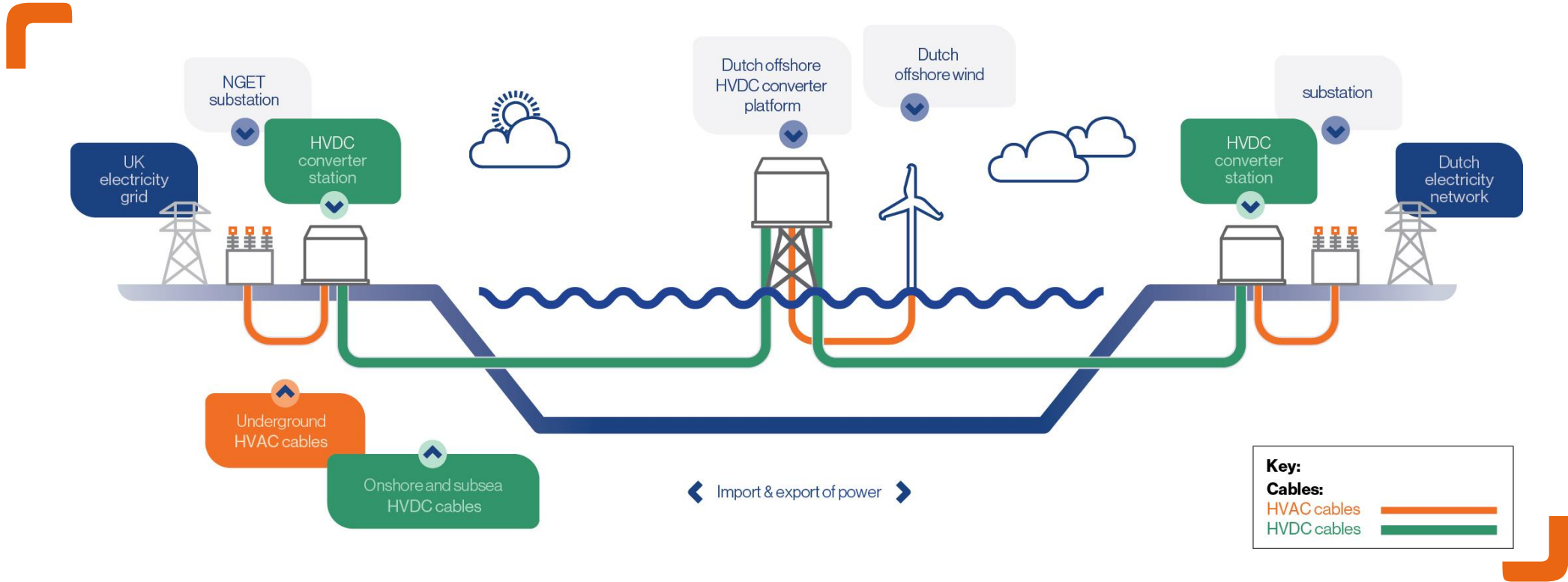
Lower energy bills – LionLink is expected to save UK consumers almost £300 million in its first ten years



Provide clean, green, renewable energy – carbon savings in first year equivalent to 600,000 fewer cars on the road

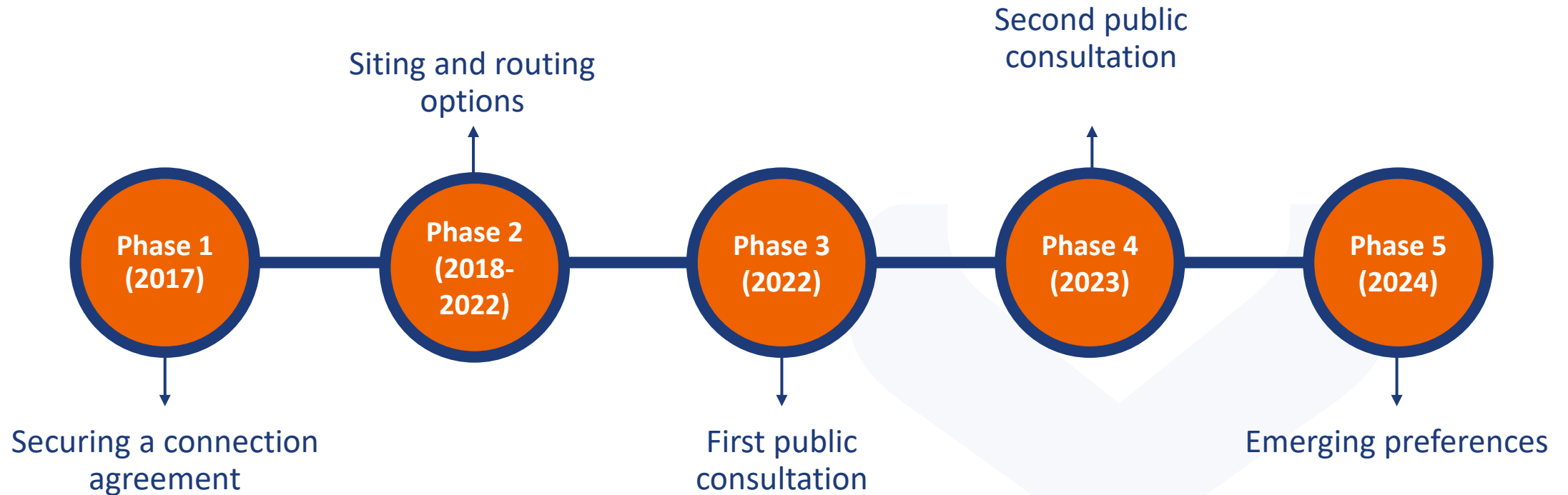
Project recap

LionLink: infrastructure



Design evolution – the journey so far

A phased approach has been taken to develop the project proposals:



Consultation recap

2022 consultation

Key themes from this consultation highlighted:



Preference for
coordinated
infrastructure options



Support for avoiding
protected areas



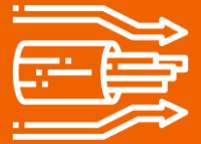
Concerns about
cumulative impact on
local communities



Using this feedback and additional assessments
we identified:



Alternative landfall
Walberswick site



Alternative onshore cable
route north of Southwold

Consultation update

2023 consultation



Over **18,000** residents and businesses contacted



1,318 feedback responses were received



126 people attended our community webinar events



11,853 unique views of our website and virtual exhibition



1,317 people attended our in-person community events



Consultation update

Key themes



Suggestions of alternative infrastructure



Impact of construction on local tourist industries



Local ecology and biodiversity concerns



Impact on land designations



Construction methodologies and concerns over restoration work



Preference for coordinating



Health and community impacts



Archaeology and local heritage impacts



Feedback on consultation



Concerns around land quality

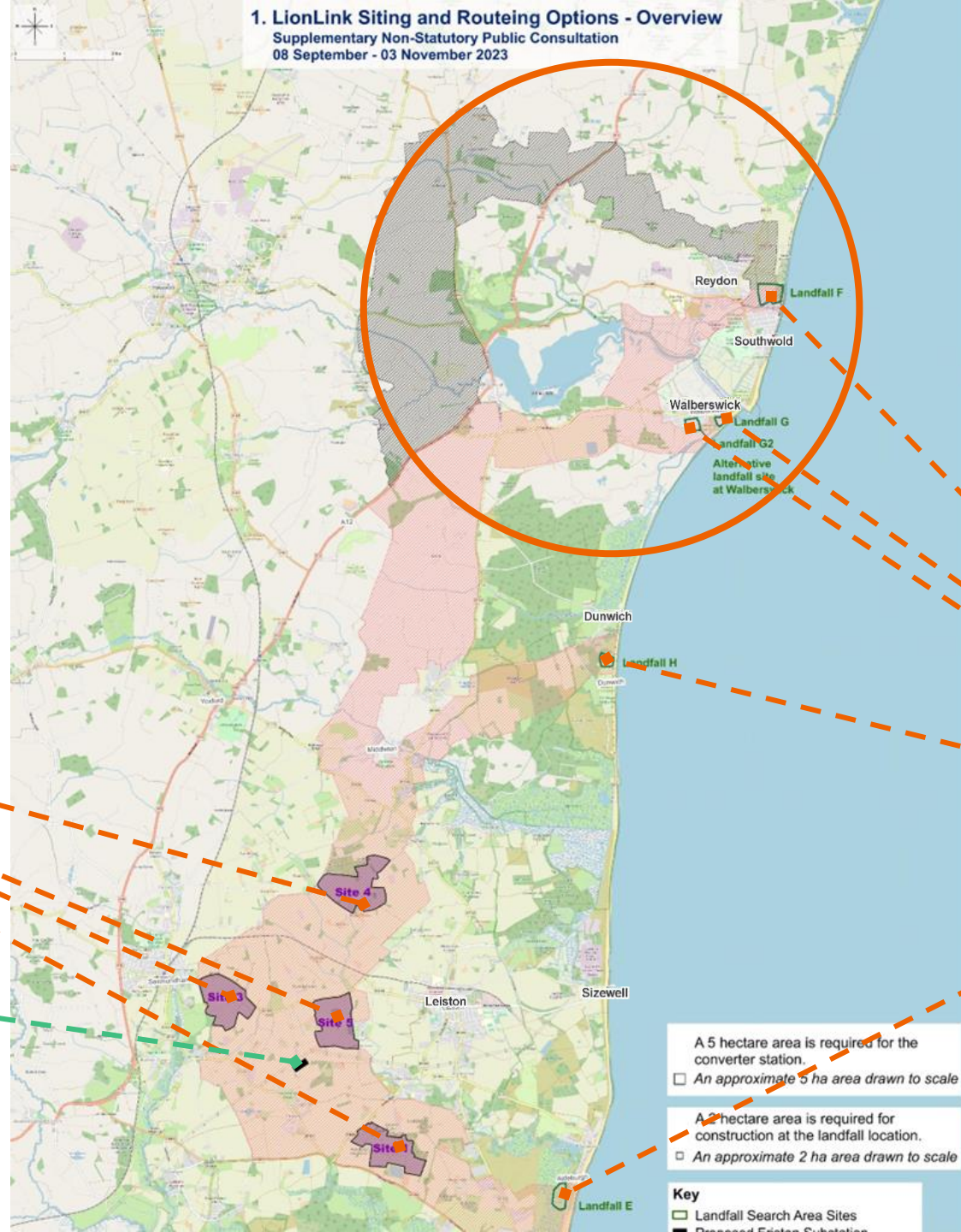
Consultation update



Shortlisted options (2022/3)

4 converter station search area options

Proposed Friston substation



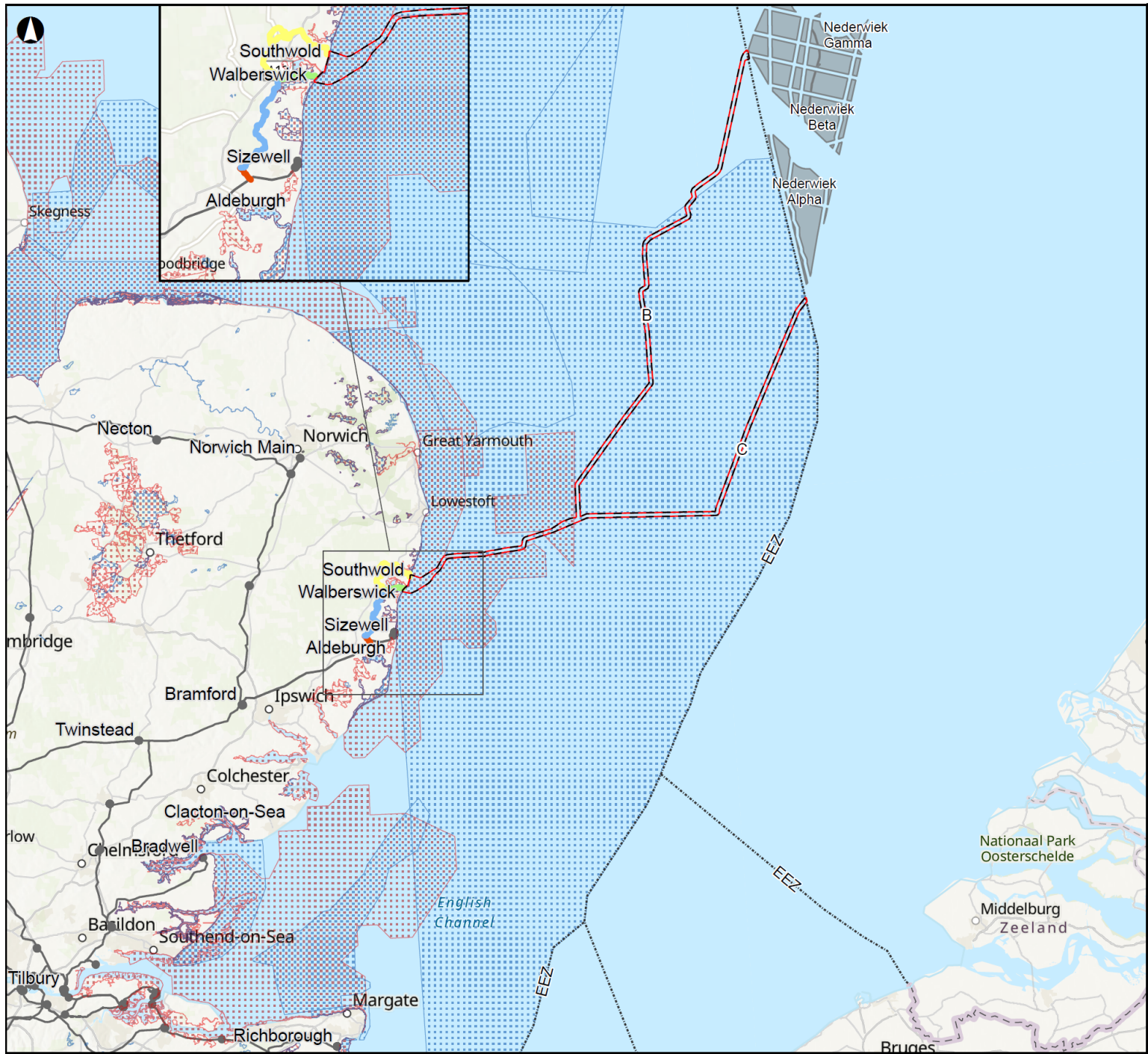
5 landfall options

Identifying our emerging preferences

- Analysis and decision making objectively reviewed by multiple teams
- Consideration of colocation and coordination opportunities
- Review of previous decisions
- Consideration of emerging survey information
- Inclusion of 2022 and 2023 non-statutory consultation responses

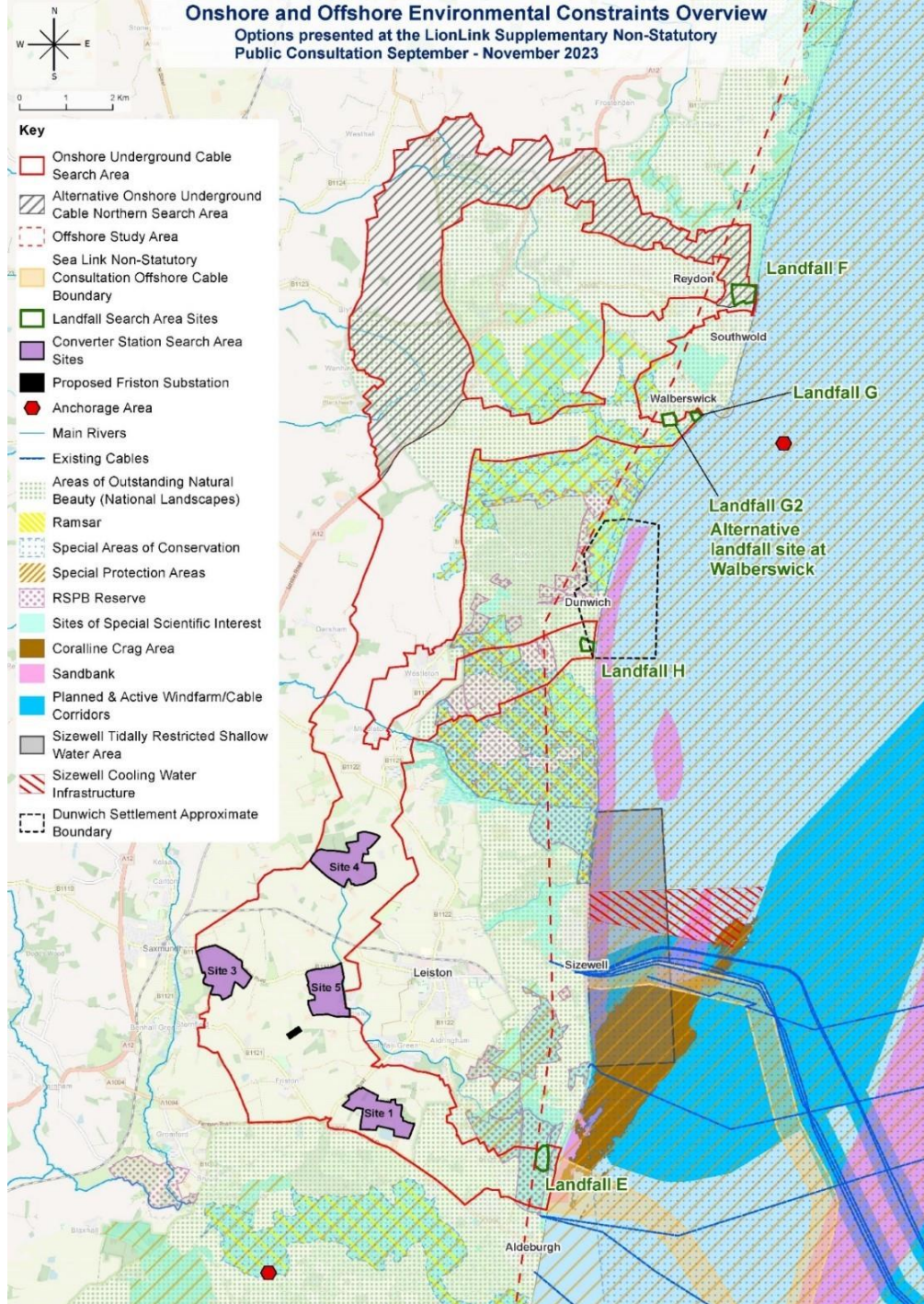
Considerations:

- Topography, access, ownership
- Ecology, landscape, heritage
- Impacts (including noise, vibration, light, air quality, traffic)
- Existing properties, infrastructure, future development
- Recreation and tourism
- Hydrology, geology, flood risk, coastal erosion
- Relevant Planning Policies
- Shipping/fishing and vessel activity
- Construction feasibility and cost



- Existing substations
- Transmission lines
- Nederwiek Windfarms
- LionLink Cable Routes**
- ▭ Proposed Offshore Scoping Boundary
- Onshore**
- Proposed HVAC Cable corridor
- Proposed Underground HVDC Cable - Southwold corridor
- Proposed Underground HVDC Cable - Walberswick corridor
- Proposed Underground HVDC Cable - common corridor
- European Constraints**
- ⋯ Exclusive Economic Zone (EEZ)
- ▭ Special Protection Areas (protected by the Habitats Regulations legislation)
- ▭ Special Areas of Conservation (protected by the Habitats Regulations legislation)

Environmental constraints



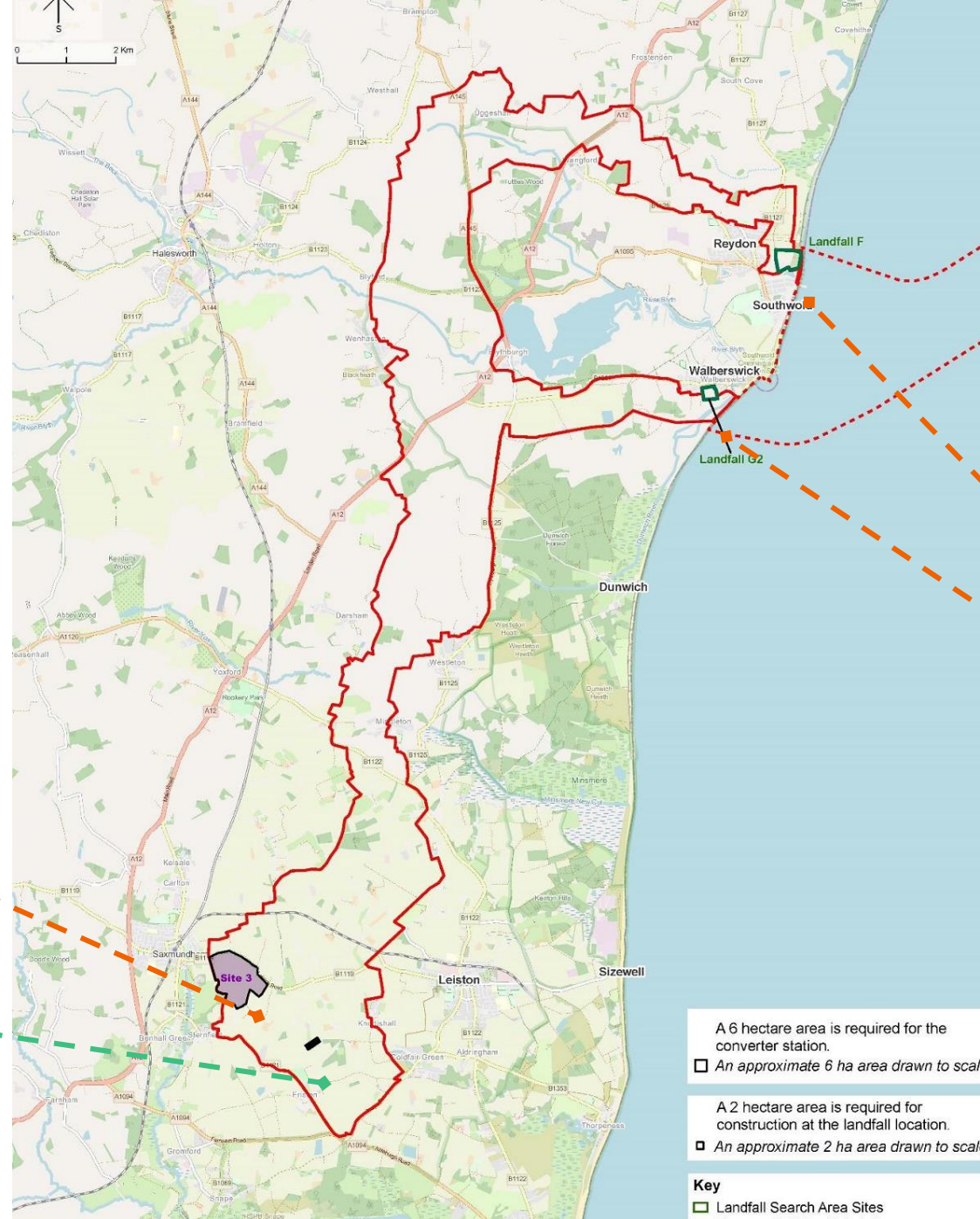
© Natural England copyright. Contains Ordnance Survey data © Crown copyright and database right 2024. Data reproduced with the permission of Natural England. Copyright © Crown Copyright. Ordnance Survey Licence Number: 100017112. Contains European Agency for Environment and Heritage Agency 2017. All rights reserved. Based on geospatial data licensed from the Ordnance Survey. Ordnance Survey is a registered trademark of the Ordnance Survey. Ordnance Survey is a registered trademark of the Ordnance Survey. Ordnance Survey is a registered trademark of the Ordnance Survey. Ordnance Survey is a registered trademark of the Ordnance Survey.

Consultation update

Emerging preferences

1 converter station search area option

Proposed Friston substation



2 landfall options

For more information on refinement process in our Consultation Summary Report [here](#)

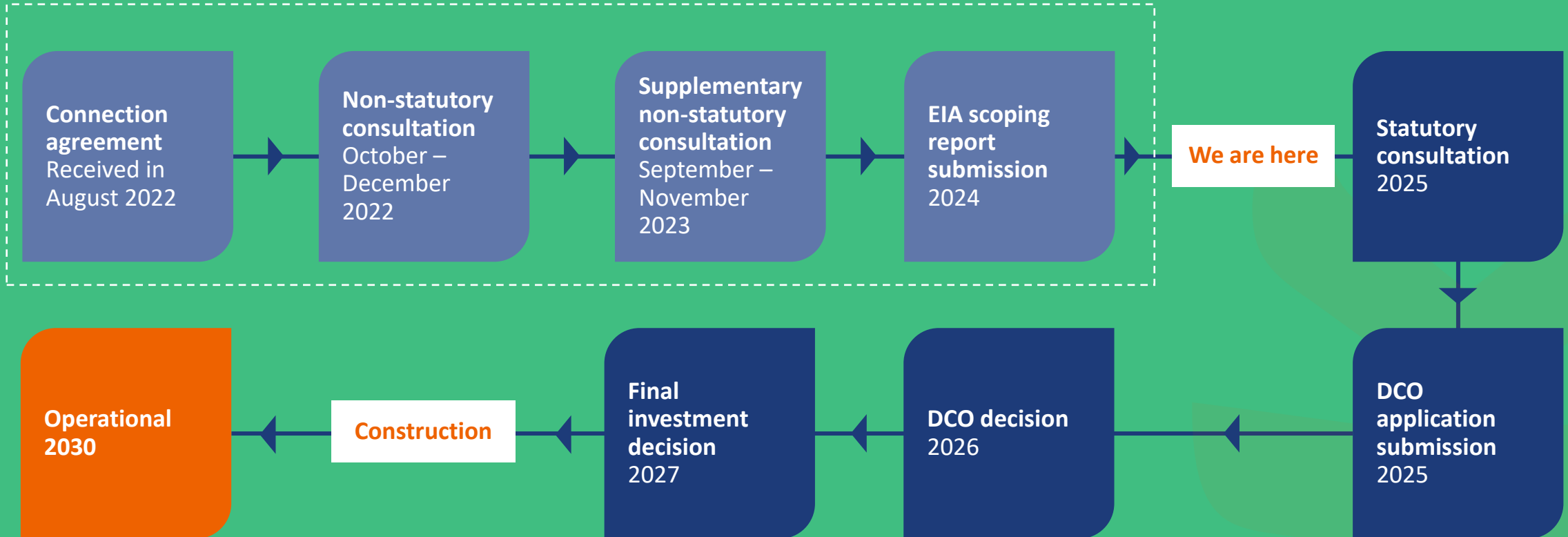
A 6 hectare area is required for the converter station.
An approximate 6 ha area drawn to scale

A 2 hectare area is required for construction at the landfall location.
An approximate 2 ha area drawn to scale

Project timeline

Project timeline

Completed



Next steps

Next steps



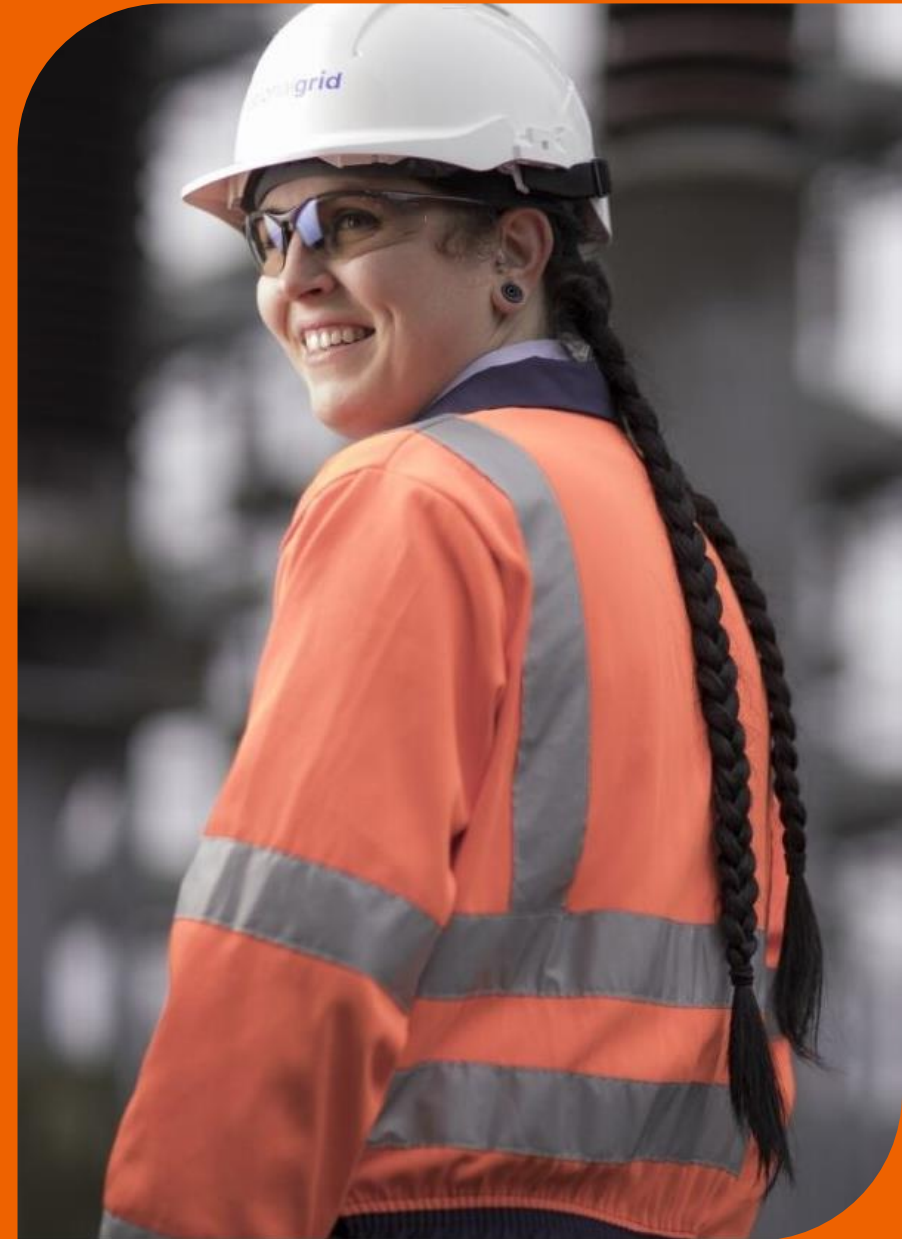
Summer 2024 Update Newsletter



Further studies and assessments – a schedule of works will be added to the LionLink website



Statutory consultation in 2025



Engaging with communities

Community newsletter



Publishing quarterly



18,000 hardcopies posted



Winter 2023 and Spring 2024



Updates, FAQs and other info



Available on our website

LionLink Community Newsletter

Spring 2024



Overview of the project

This is the second edition of our quarterly community newsletter. In this edition, we provide an update on the LionLink project and answer key questions on the construction process.

LionLink is a new subsea electricity cable (known as an interconnector) proposed to run between Great Britain and the Netherlands. The project is being developed by National Grid Ventures (NGV).

LionLink will play an important role in reducing the UK's reliance on fossil fuels and supporting the UK government's objectives to create a secure, reliable, and affordable energy supply for UK households.

In March 2024, we published a consultation feedback report, which explained our analysis of the feedback received to our 2023 public consultation and how it informed our decision to shortlist Southwold, Walberswick and Saxmundham as our chosen locations for the landfall, converter station and associated cable corridors. We received over 1,300 pieces of feedback during this consultation, and we are grateful to everyone who took the time to tell us what they think of our proposals. All feedback was analysed and considered to inform our proposals and our chosen sites. Alongside this, we submitted our Environmental Impact Assessment (EIA) Scoping Report to the Planning Inspectorate, which explains the further surveys and studies we will be undertaking to further refine our plans.

The report can be found via nationalgrid.com/lionlink

Lionlink will deliver a range of benefits, including:

- Supplying up to 1.8 gigawatts (GW) of electricity – enough to power approximately 2.5 million homes
- Strengthening the UK's national energy security
- Lowering energy bills – LionLink is expected to save UK consumers almost £300 million in its first ten years of operation
- Providing clean, green, renewables energy – the carbon savings of its first year is equivalent to taking nearly 600,000 cars off the road.

Getting in touch



0800 083 1787



info@LionLink.nationalgrid.com



Freepost NGV LionLink Consultation



nationalgrid.com/LionLink

Thank you for your time

LIONLINK :

「 A vital step **towards an**
integrated North Sea grid 」

Questions

LIONLINK:

「A vital step towards an
integrated North Sea grid」