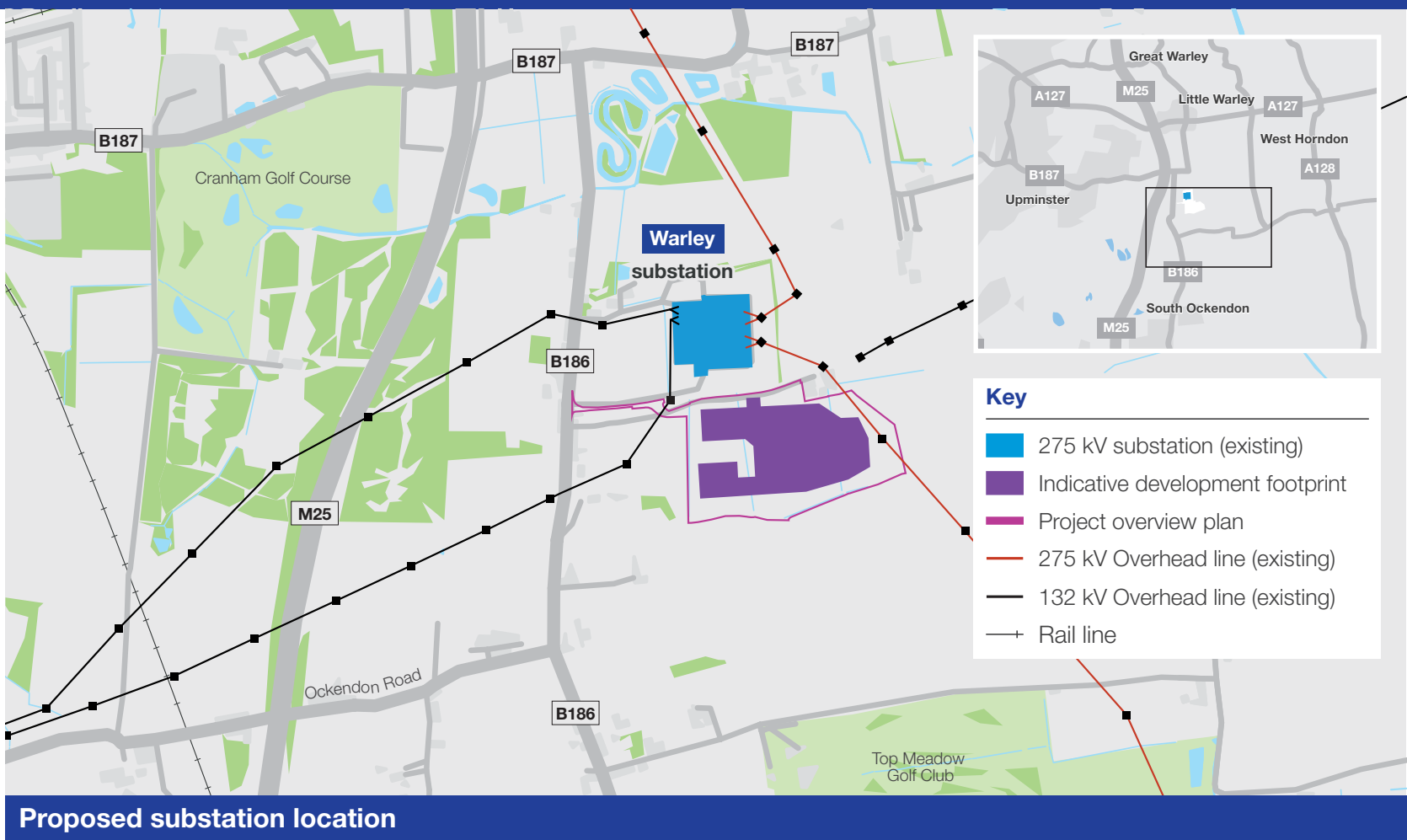


Welcome to our event



We are developing plans to build a new electricity substation on land bordering our existing substation near Warley.

Electrical substations change the voltage of electricity so that it can be transmitted safely and efficiently across the country and supplied to homes and businesses. They are a vital part of the electricity network.

During this consultation we are inviting the local community to get involved. Your views will help shape our plans and the positive legacy we plan to leave for the community.

Why this is needed

The replacement substation at Warley is needed because the existing substation is coming towards the end of its useful life.

In addition, network upgrades and reinforcement are required in the area, and there is demand for new connections to the network. It is National Grid’s legal obligation and responsibility to connect all customers when they request power.

The new substation is also an important step to support the UK’s clean energy and economic growth goals, as National Grid upgrades the existing grid to ensure clean energy can be brought from where it’s generated to where it’s needed by homes and businesses.

A new and upgraded substation at Warley will help to fulfil all these requirements.

Our proposed site

We undertook a comprehensive site selection process looking at factors including size, accessibility, power connectivity, and existing overhead lines.

The site had to be near existing overhead power lines, as close as possible to the existing substation, and large enough for the proposed development and new landscaping.

After an appraisal and technical review, our proposed site is immediately south of the existing Warley substation, by the M25 and A127, and accessed via Clay Tye Road.

The new site will be larger in size than the existing substation due to the need to upgrade and reinforce the network and in response to increased local demand.

The site is within the Green Belt. Our planning application will explain the site selection process and set out the very special circumstances that justify the proposed development.

Email: warley@nationalgrid.com
Telephone: **0800 138 5539** (between 9am and 6pm, Monday to Friday)
Web: nationalgrid.com/warley
Freepost: **Freepost RTBU-HAYY-LCUX, 7 Bayley Street, London WC1B 3HB** (no stamp needed)



Scan the QR code for further information

Benefits of the new substation

Investing in your community

The new substation is a key part of our nationwide upgrade of the grid network to meet future demand, to support economic growth, and to support the UK's clean energy goals.

However, we understand the concerns of the local community and are committed to leaving a positive legacy.

How do we aim to achieve this

We have a long-standing commitment to the communities we work alongside, and we want to ensure lasting benefits for the people and places that host new energy infrastructure.

If planning approval is granted for the Warley replacement substation, we will deliver a Community Fund of £530,000.

Shaped by the community, this fund will reflect local needs through your input and it will be developed in line with government guidance to deliver a lasting, positive impact.

At this stage we are gathering ideas and input as to how best the Community Fund can support the local area, and we would welcome your suggestions.

A full public consultation will follow. For more information, please speak to a member of our team at a consultation event or via the contact details below.



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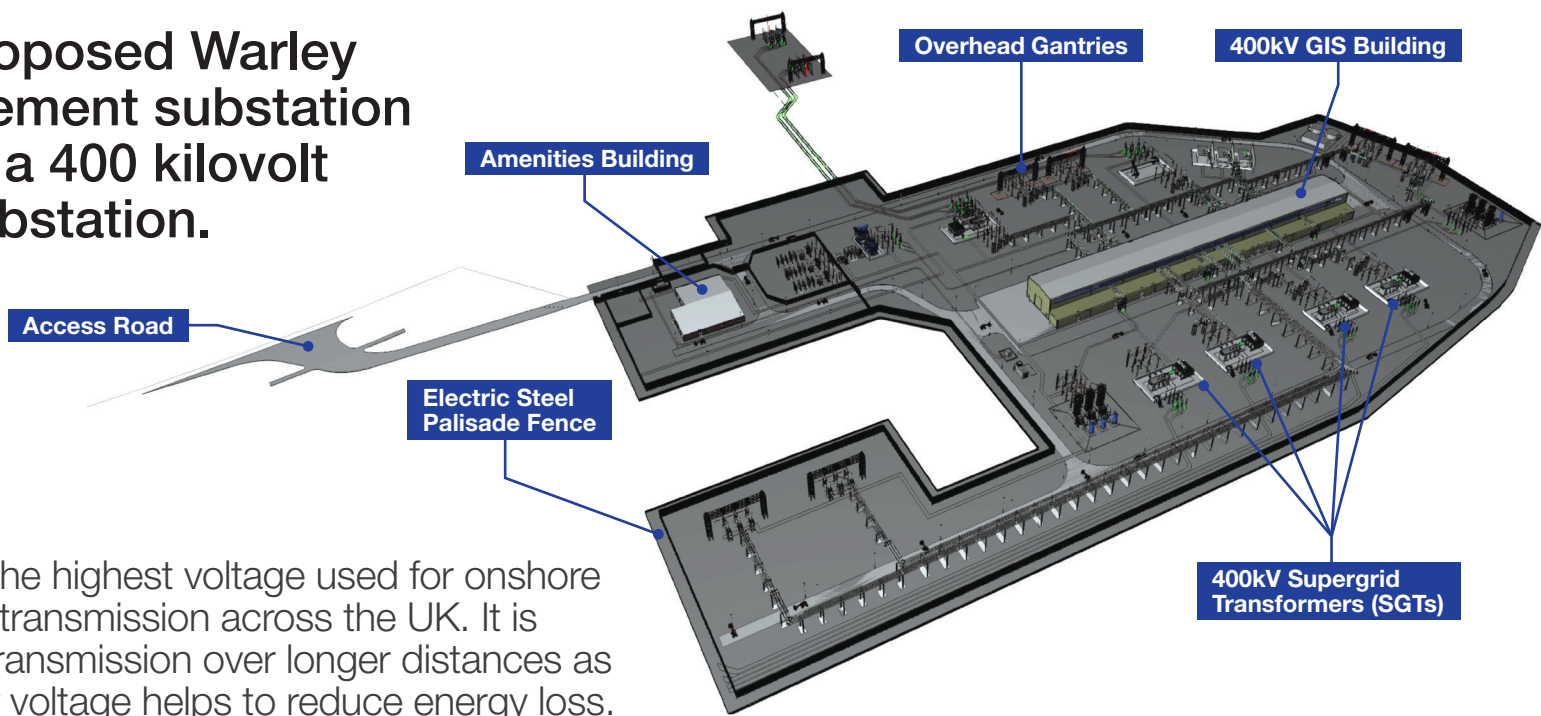
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The design of the substation

The proposed Warley replacement substation will be a 400 kilovolt (kV) substation.



400kV is the highest voltage used for onshore electricity transmission across the UK. It is used for transmission over longer distances as the higher voltage helps to reduce energy loss.

National Grid’s Supergrid Transformers (SGTs) then step this down to 132kV, a lower voltage used to transmit electricity onwards locally.

We are proposing a ‘Gas Insulated Substation’ (GIS) design for the Warley site. This advanced technology will allow us to reduce the footprint of the proposed site compared to a traditional substation design, minimising our impact on the local area and the environment.

The new substation will not require any additional pylons for overhead lines. One existing pylon will be removed as part of this planning application, reducing the overall number of pylons.

Associated work is already taking place to reinforce and upgrade overhead lines on the grid network around the existing Warley substation. This work is a separate project and does not form part of this planning application.

Indicative CGI of the substation design

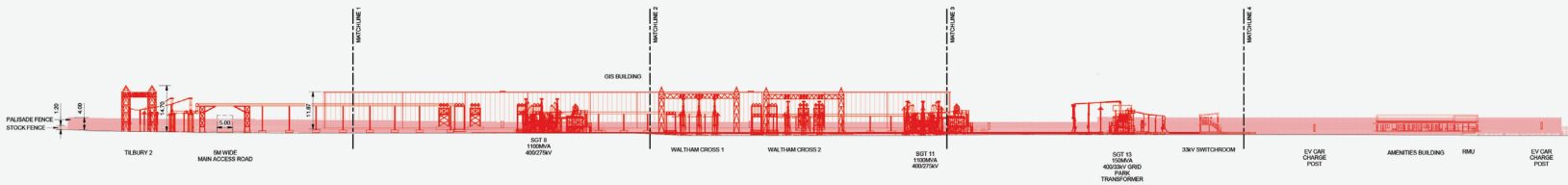
UK Power Networks

UK Power Networks, the local Distribution Network Operator, is proposing additional infrastructure to reduce the voltage further so that electricity can be distributed to local homes and businesses.

This 132kV substation, known as Upminster East, would be adjacent to National Grid’s site.

These proposals are coming forward separately. UK Power Networks will be sharing further information later in 2026.

Should you have any questions, the community relations team at UK Power Networks can be reached via email at upminstereast132@ukpowernetworks.co.uk



Minimising the potential impact of a new substation

Traffic and access

We recognise that our construction traffic may have an impact locally, and we will have a comprehensive traffic management plan in place to minimise this where possible. This will set out the good practice measures we propose to carry out in order to minimise, where possible, the impact of our works locally.

Surveys are being carried out, and full details will be submitted and available to view as part of the planning application.

The immediate access route to the site will be from Clay Tye Road – as it is for the existing substation.

For construction traffic, we are considering a number of possible routes to the site:

- Southbound from the M25 and Southend Arterial Rd via the B186 and Warley Street
- Southbound from Southend Arterial Rd via Tilbury Road and westbound via Fen Lane
- Northbound from the A13 and via South Road onto North Road

Green Belt, landscape and visual impacts

We are completing a landscape and visual appraisal of the scheme which will inform a landscape strategy.

We are also carrying out heritage and flood risk assessments. All these reports and plans will be available to review in full when submitted with the planning application.

We have developed our plans to ensure we can reduce our impact on the local Green Belt where possible. The new substation has been located close to the existing substation and planned with additional greenery and screening to help reduce its visibility.

Using ‘Gas Insulated Substation’ (GIS) technology will reduce the footprint of the proposed site, further minimising our impact on the surrounding environment.

Impact on the environment

The results of our surveys have also informed the preparation of an Environmental Impact Assessment (EIA) Screening Opinion, which was submitted to London Borough of Havering in July 2026 (planning application reference Z0006.26).

We are committed to delivering at least 10% biodiversity net gain on all our construction projects. We are exploring how this will be achieved and welcome your feedback.

Noise levels and air quality

Measures will be put in place to limit any noise and emissions from the site during construction and through to operation.

We are currently carrying out surveys into potential impacts and mitigation, and noise and air quality assessments will be submitted as part of the planning application.



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About National Grid Electricity Transmission

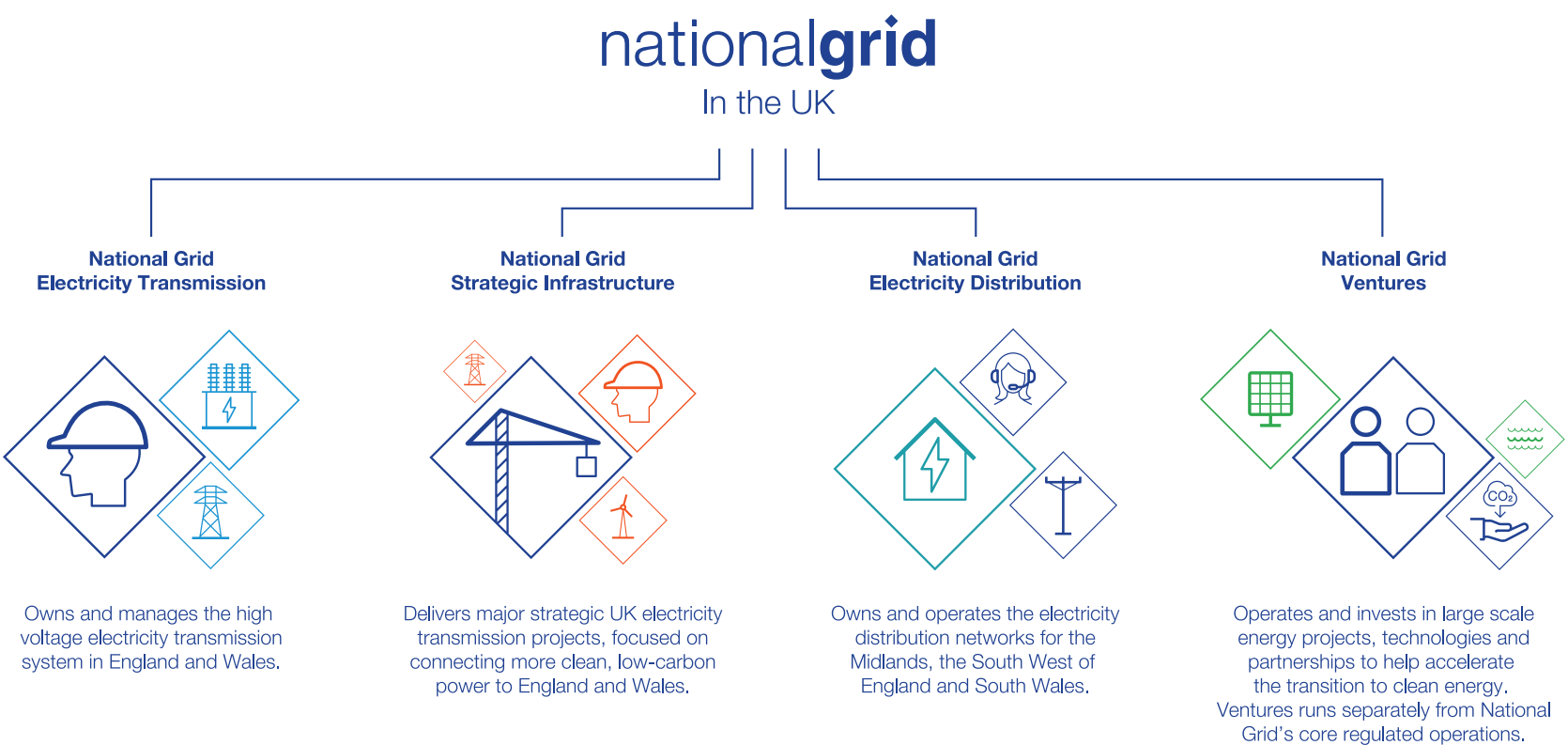


National Grid Electricity Transmission is working to build a cleaner, fairer and more affordable energy system that serves everyone, powering the future of our homes, transport and industry.

National Grid Electricity Transmission sits at the heart of Britain’s energy system, connecting millions of people and businesses to the energy they use every day. We bring energy to life – in the heat, light and power we bring to our customers’ homes and businesses; in the way that we support our communities and help them to grow; and in the way we show up in the world.

It is our vision to be at the heart of a clean, fair and affordable energy future.

Within the National Grid Group there are four distinctly separate legal entities, each with their individual responsibilities. It is National Grid Electricity Transmission that is developing plans for the Warley replacement substation.



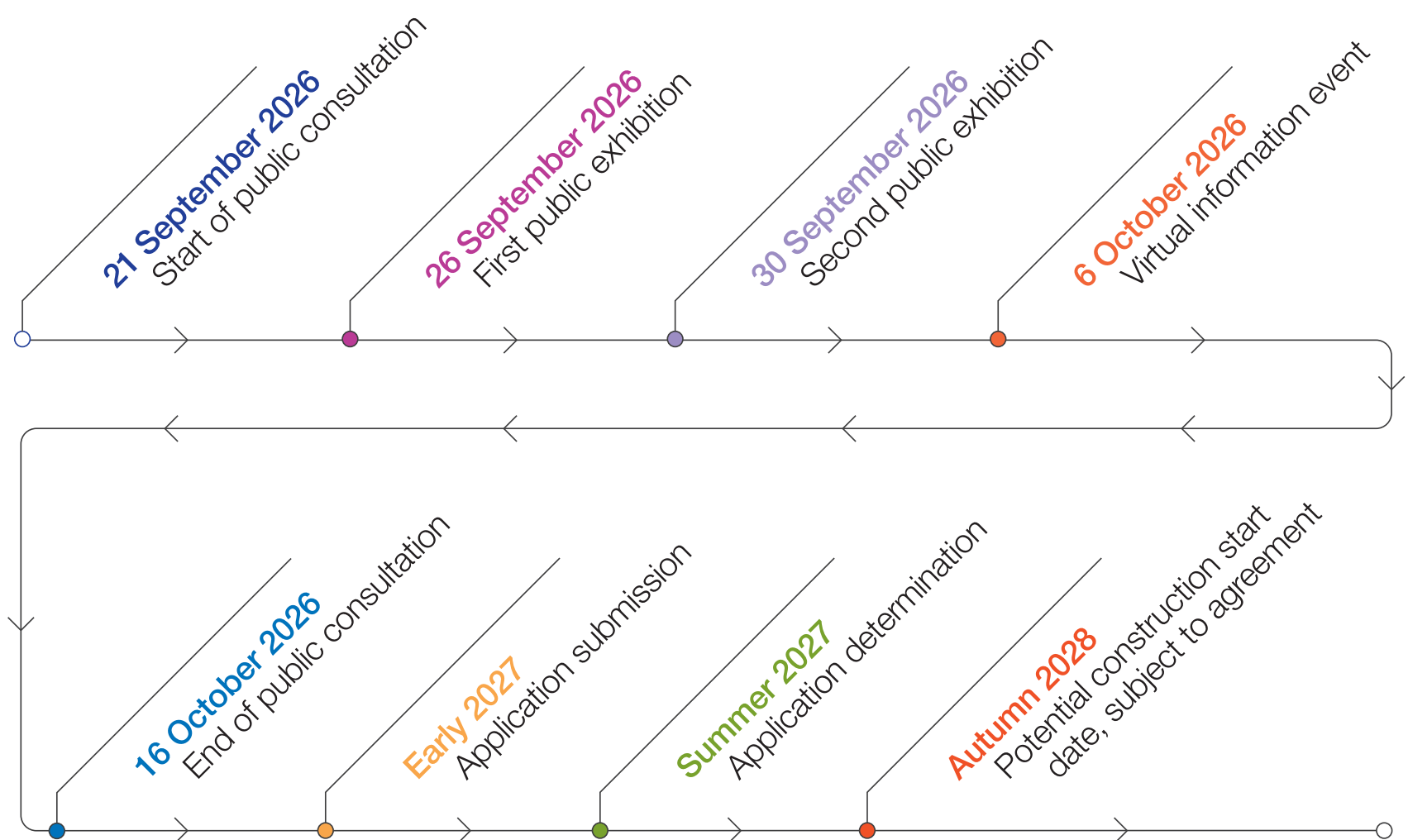
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Feedback and next steps

Project timeline



Have your say

We welcome your views on our plans for the new substation. You can submit feedback in a variety of ways:

- via the **online feedback form** on our website
- by completing a hard copy form at today's event and returning it to us in person or posting it to **Freepost RTBU-HAYY-LCUX, 7 Bayley Street, London WC1B 3HB** (no stamp needed)
- by emailing **warley@nationalgrid.com**
- by calling **0800 138 5539** (between 9am and 6pm, Monday to Friday)
- by meeting our team in person or virtually at one of our consultation events:
 - **Saturday 26 Sept 2026**
11:30am-4:30pm
St Mary Magdalene's Church,
North Ockendon, Upminster, RM14 3QH
 - **Wednesday 30 Sept 2026**
1:00pm-6:00pm
Bulphan Village Hall, Church Road,
Essex, RM14 3RU
 - **Tuesday 6 October 2026**
5:00pm-6:00pm
This will take place via Zoom.
Please email us to register and receive the joining details.

Should you have any questions, please do get in touch with our community relations team – David, Frank and Louis – who are available via the contact details above.

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