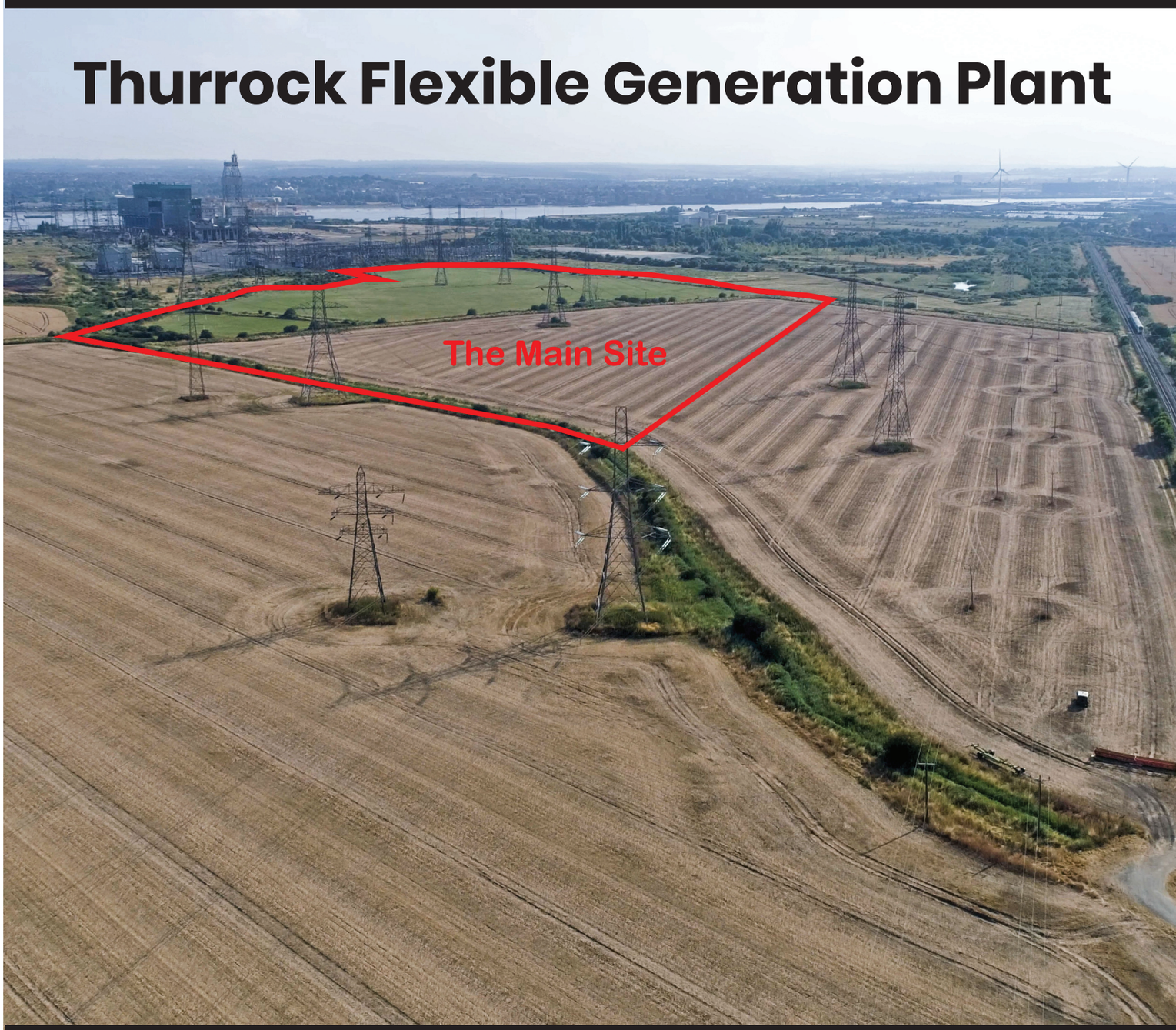
THURROCK POWER LIMITED

A Statera Energy Group Company

Thurrock Flexible Generation Plant



Statutory Public Consultation

Have your Say

16th October 2018 to 14th November 2018

Summary

In this booklet we explain our proposals and the need for the Thurrock Flexible Generation Plant. We also give you details of how you can give us your feedback during the statutory public consultation period.

How to Respond

The consultation about our proposals will help inform the development of the project. Your comments will aid us in understanding the local area and any potential impacts the project may have on the local community.

The consultation will run for thirty days from 16th October 2018 to 14th November 2018, and there are several ways you can tell us your views.

Please respond by 11.59pm on 14th November 2018 using one of the following methods:

- Complete the consultation feedback form online: www.thurrockpower.co.uk
- Attend a public consultation event and complete a feedback form
- Complete a feedback form and send it to us at by Freepost to: Freepost THURROCK POWER

Public Consultation Exhibitions

One of the best ways to find out more about our proposals and have your say is to attend one of our public consultation exhibitions. At the public exhibitions there will be further information about the project and you will be able to speak to members of our project team who will be happy to answer any questions you may have.

Details of the public consultation exhibitions are as follows:

Tuesday 16th October

The Court Room,
Gravesend Old Town Hall, High Street,
Gravesend, DA11 0AZ
11am to 8pm

Tuesday 23rd October

West Tilbury Village Hall, Rectory Road,
West Tilbury, RM18 8UD
11am to 8pm

Friday 2nd November

Tilbury Hub, 16 Civic Square, Tilbury, RM18 8ZZ
11am to 8pm

Wednesday 7th November
Linford Village Hall, Lower Crescent, Linford, SS17 0QP
11am to 5.30p

Introduction

Statera Energy Limited is a British company that develops, builds and operates flexible electricity generating plants in the UK.

These power plants support the national electricity grid when demand for power is high and there is not enough supply. You can find details of the company on the website: www.stateraenergy.co.uk.

We are proposing to develop a gas fired electricity generating power station and battery storage facility on the Tilbury Marshes in Thurrock, north of the existing Tilbury substation. This will be a flexible generation plant able to provide up to 600 megawatts of electricity on a fast response basis. There will also be battery storage of up to 150 megawatts with a capacity of up to 600 megawatt hours (i.e. four hours' worth) where electricity can be stored until it is needed.

The proposed project is a Nationally Significant Infrastructure Project for which we will be making an application to the Planning Inspectorate for a Development Consent Order. We have established a subsidiary company called Thurrock Power Limited for the purpose of this project.

The Need for the Thurrock Flexible Generation Plant

The Thurrock Flexible Generation Plant is needed to provide resilience to the electricity grid network particularly around London and the south-east. The UK grid today requires a flexible electricity supply to meet unplanned outages and intermittent generation of electricity from renewable energy sources principally wind farms and solar. The plant will also be able to help satisfy the baseload demand for electricity at peak times, such as mornings and evenings, particularly in winter.

The Government has highlighted the importance of a diverse range of energy generating technologies to prevent over-dependence on a single fuel type and improve energy security. National Grid state in its Future Energy Scenarios Report that '*...gas will remain critical for both heating and electricity generation in all scenarios for the coming decades*'. It is recognised that this will involve the development of nationally significant energy infrastructure, which is vital to economic prosperity, particularly when a number of existing oil, coal and nuclear power stations close over the next five to ten years and electricity demand is expected to rise as heat and transport systems are increasingly electrified.

In July 2018, an assessment by the National Infrastructure Commission stated that a more flexible energy supply was of critical importance and that this could be provided by energy which can be generated on demand, energy storage and flexible demand.

The proposed development delivers exactly the type of flexible and decentralised power system sought by the National Infrastructure Commission, National Grid and the Government.

It is for these reasons that we consider there to be a clear national need for the development of a new gas-fired flexible electricity generating station and battery storage facility.

The Main Site is adjacent to the former Tilbury Power Station

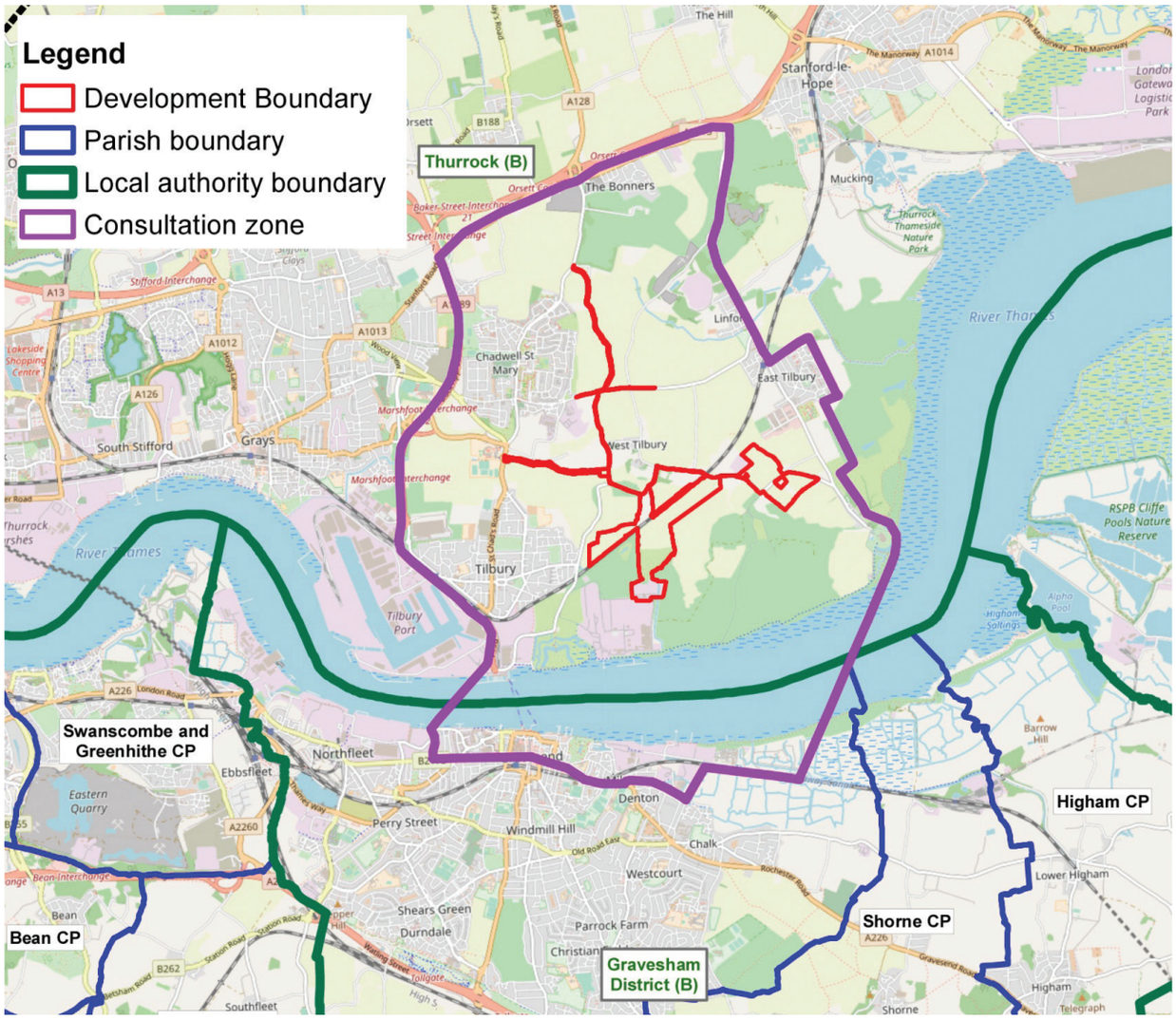
Why Thurrock?

We have carefully considered alternative sites for the project, particularly bearing in mind that it is in green belt. The proposed site has been selected taking into account technical, green belt, environmental and commercial reasons.

This type of development has to be located near to suitable electricity and gas grid connection points and the proposed location offers a connection to the London 275 kilovolt transmission network at Tilbury Substation. This will allow the plant to respond to the ever-increasing energy demands placed upon the National Grid by the population of London and the South East of England.

The proposed locality has a long history of use for power generation and the site is as close as possible to the existing Tilbury Substation which will minimise the visual impact and effect on green belt openness.

In selecting this location, we have been guided by national policy and consultation with National Grid, green belt policy, as well as by the results of detailed assessment of best available technology and have concluded that there is a compelling need for a flexible generation plant in this location using the technology proposed.



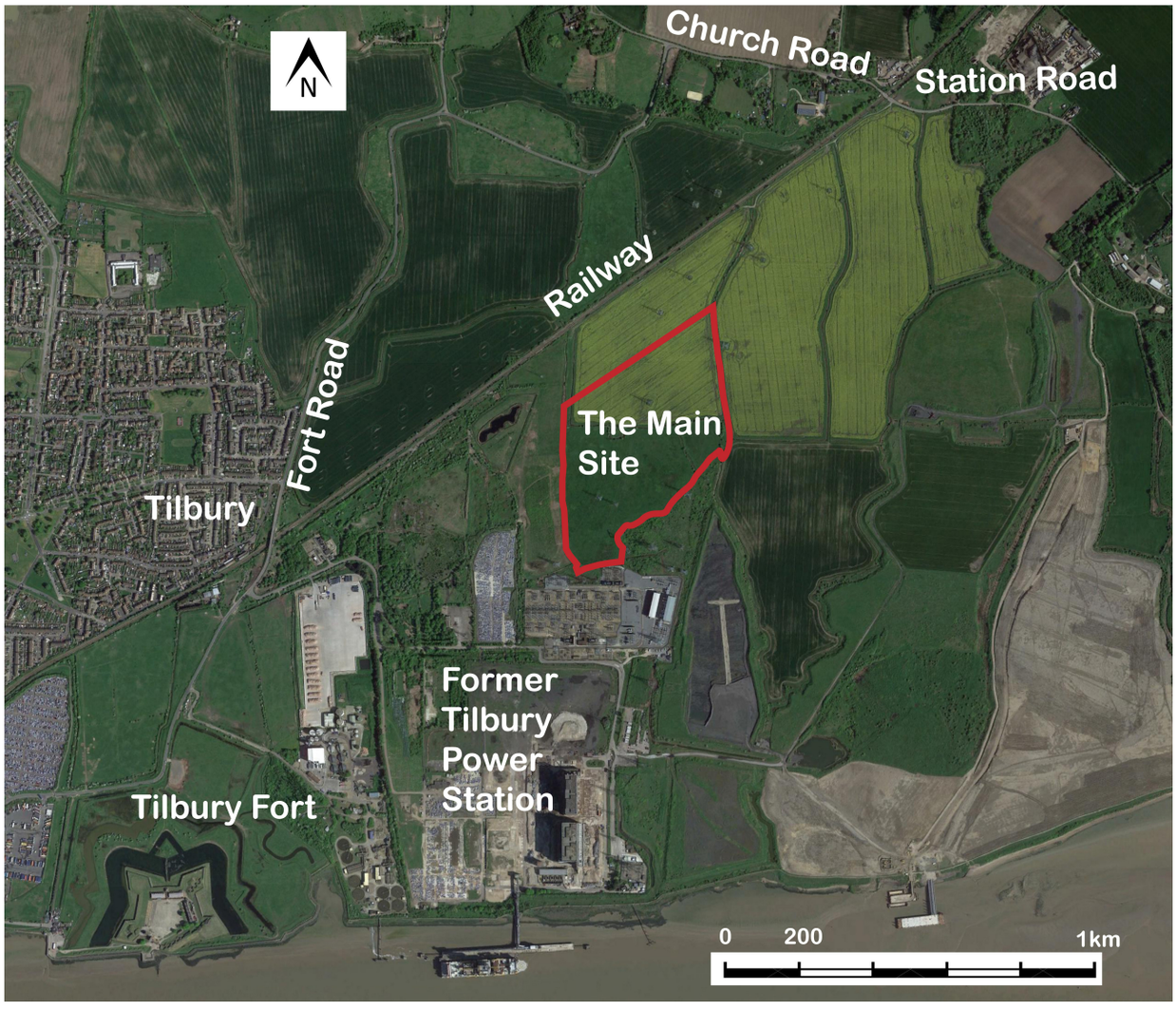
Location of the development boundary and consultation area

Location of the Thurrock Flexible Generation Plant

The site comprises farmland and part common land, in a setting which is a mix of agricultural land uses to the north and east, significant existing grid infrastructure, including the Tilbury Power Station, a Waste Water Treatment Works and Tilbury Port, to the west. The site is mainly flat with fields bounded by drainage ditches and is crossed by several high voltage electricity pylons, which are a visually dominant feature of the area. To the north the site is bounded by Tilbury and the Southend Railway. The project will include designation of replacement common land (exchange land).

The nearest substantial residential area to the proposed site is Tilbury, which is approximately 0.8 kilometres away.

The nearest nationally and/or internationally designated areas of nature conservation to the proposed site (excluding potential access routes and gas pipe corridors) are the banks of the River Thames, which are between two and three kilometres away to the south.



Location of The Main Site

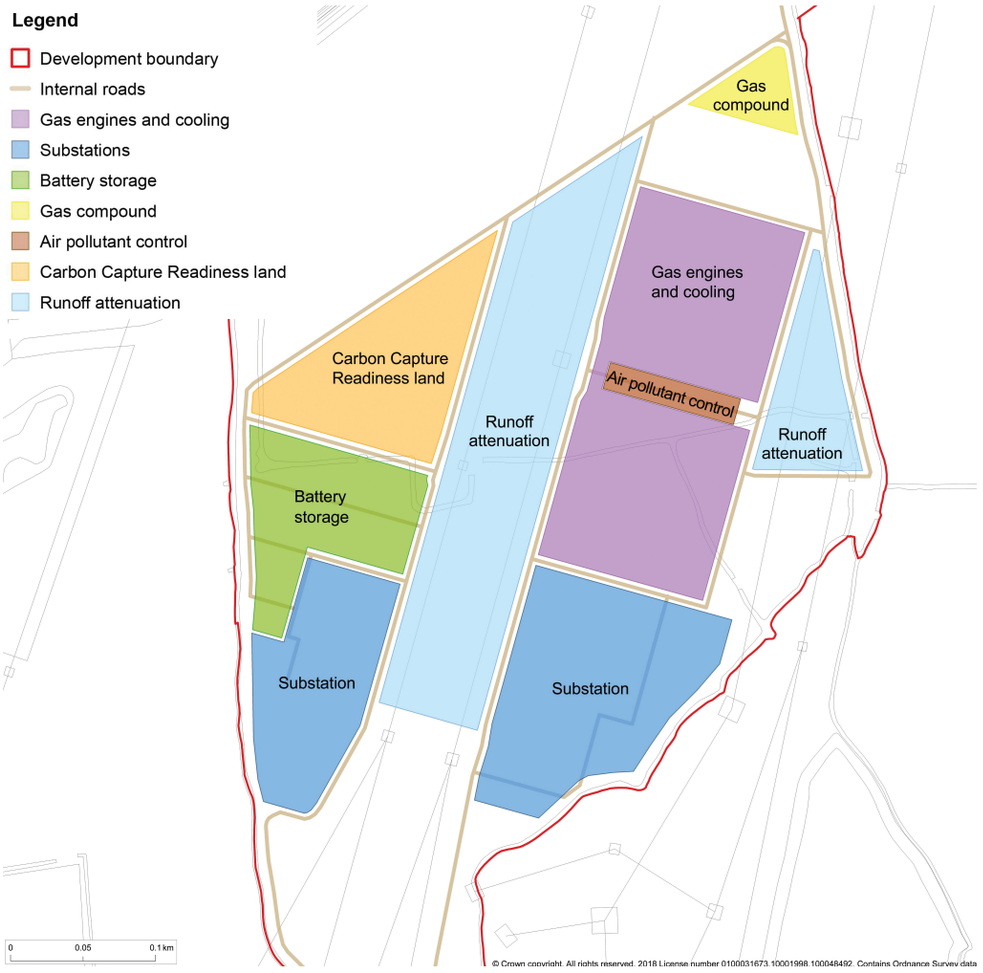
What will be on the Site?

The Flexible Generation Plant will comprise gas engines, batteries and associated electrical and control equipment. A new permanent access road and temporary access roads will be provided and a gas pipeline connection to the national gas transmission system will be included. The electrical export connection will be via underground cables to the immediately adjacent National Grid Tilbury Substation.

Permanent road access will be provided via an existing farm track to the south of the railway line, joining the public highway at Station Road. There will be limited need for access during operation, as the facility will not typically have an on-site workforce. The permanent road access will be used for maintenance staff and for delivery / removal of materials by HGV, for which around one vehicle per two to three days is estimated to be required. The development would also include up to 30 car parking spaces within the main development site.

A number of construction access routes to be used at different stages of construction are being considered. All options are included within the design envelope and it is expected that one or a combination of these route options may be used in practice. The route options comprise:

- the current existing farm track from Station Road to the north which would be retained as the permanent access (as described above);
- a construction haul road from St Chad's Road Gateway Academy roundabout running east to Gun Hill and connecting to the above route for use primarily by abnormal loads;
- a temporary construction haul road from Cooper's Shaw Road in the east to a proposed construction lay down area alongside the railway line; and
- Improvements to the existing highways to allow safe access for HGV traffic.
- In all cases abnormal loads may need to be lifted over the railway at Parsonage Common



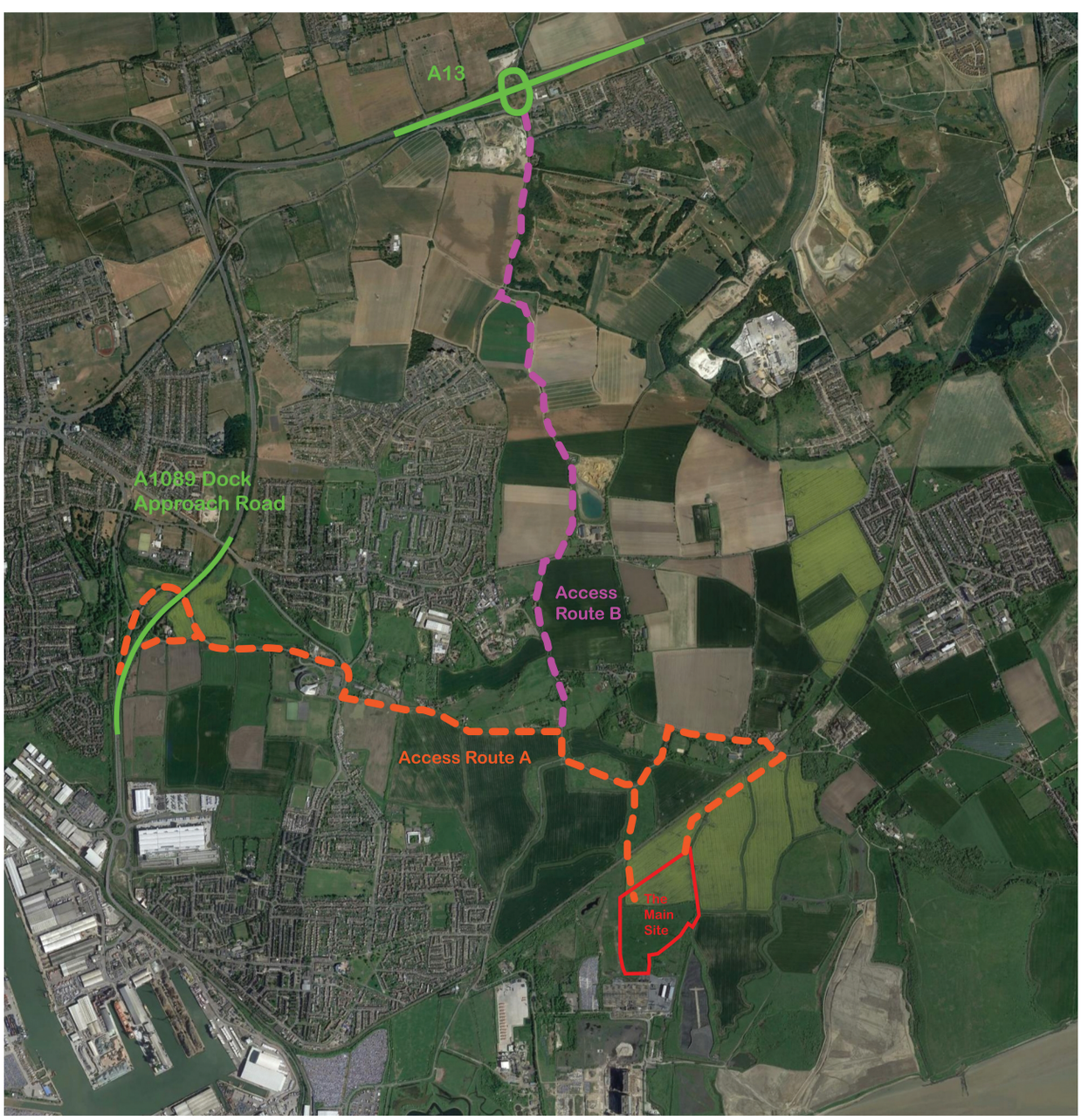
Development zones within The Main Site

What We are Doing Now

We are undertaking a statutory public consultation to allow everyone in the local area to give feedback on our proposals. This will help to ensure that the views of the local community are considered fully when finalising the design of the plant.

How the Scheme is Evolving

We would like your feedback on the project in general and also about potential access routes to be used during the construction phases.



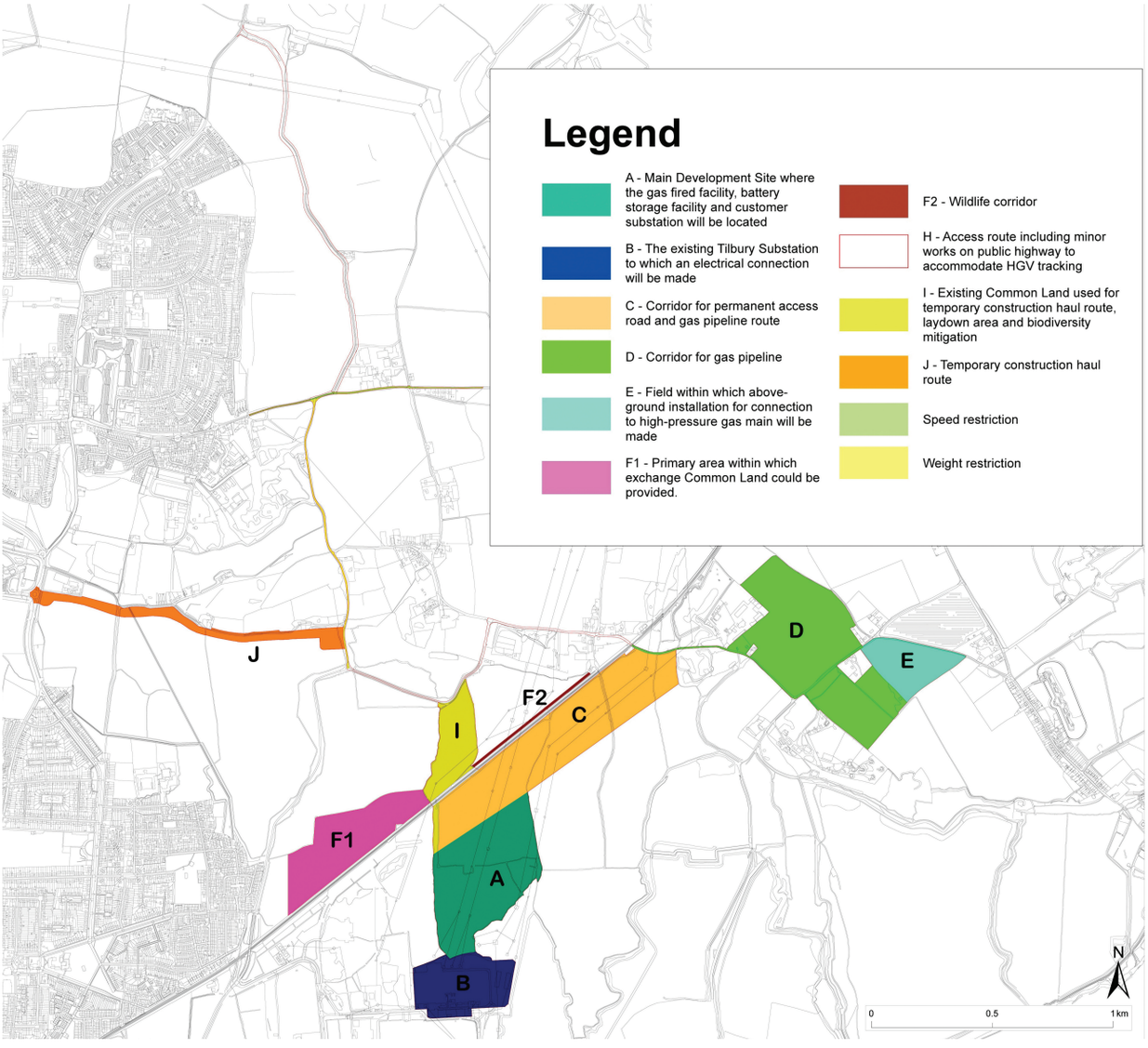
Proposed access to The Main Site

Development Consent Order Boundary

We have established a boundary which shows the limit of all proposed land for both permanent and temporary works for which we are seeking Development Consent. This covers the following areas;

- The proposed development site,
- The areas which may be needed during construction for the site compound and materials storage,
- The areas for environmental mitigation such as landscape planting, exchange common land and drainage,
- Temporary and permanent access routes; and
- Corridor for gas pipeline

We will continue to review this during the final phase of the design development.



Zones within the Development Consent Order Boundary

The Environment

We are working with statutory and non-statutory consultees to enhance our knowledge about the environmental considerations in the area. An Environmental Statement will be submitted with our application for Development Consent. This document will evaluate and assess the significance of any identified environmental effects associated with the building, operation and decommissioning of the proposed development, considering any measures we propose to take to reduce these effects.

We have already undertaken a significant assessment of the potential environmental impacts associated with the proposed project and a Preliminary Environmental Information Report and Non-Technical Summary will be available for review during the formal consultation period.

The following environmental topics will be considered:

Topic	**Features**
Landscape and Visual Resources	The main view of the plant would be from higher ground to the north and from the Kent Downs to the south of the Thames. The plant will be visible from these vantage points although seen amongst existing pylons and substation. If Tilbury 2 and RWE's Energy Centre projects are not developed the stacks on the plant will be the most dominant feature, although these are lower than the existing pylons.
Historic Environment	It is not expected that there will be any impact on Tilbury Fort. There is no obvious material evidence of below ground archaeology other than WWII anti glider defences to the east of the site.
Land Use, Agriculture and Socio-Economics	The land is used for cropping and the Common Land maintained with occasional topping. The loss of the area from the farm holding is not significant.
Ecology	Reptiles and invertebrates on the site will be relocated to new areas on adjacent land. On site attenuation ponds will be designed to maximise their biodiversity interest. Air quality assessments on SSSI and SPA's, which are 2-3km from the site are unlikely to be affected by nitrogen deposition from emissions from the plant.
Traffic and Transport	The principal traffic impact is from construction traffic. Traffic once the plant is operational is minimal. There are two routes that are likely to be used for construction, one using a temporary haul road from the A126 and the other from the A13 Orsett roundabout.
Noise and Vibration	The most noise in generated from the gas engines. If the plant operates in the evening and night there may be a modest increase in the background noise levels on some of the properties to the north of the railway when existing conditions are quiet. There will be no vibration impact from the plant.
Air Quality	The background nitrogen dioxide levels around the site are well within air quality standards, though further away, in some areas of Tilbury and Gravesend with existing heavy road traffic background pollution is higher.
Hydrology and Flood Risk	All run-off from impermeable areas are expected to be held and balanced in the onsite attenuation ponds to moderate and control discharge. The Tilbury Marshes area is protected with existing sea defences.
Geology, Hydrogeology and Land Contamination	The land is farmland and free of contamination.
Human Health	The principal effect is increased nitrogen dioxide. The assessments show that these can be controlled and limited and will not make a significant contribution to air pollution at any location.
Climate change	The plant will displace less efficient and more polluting power plants so will help to lower carbon dioxide levels. The flexibility in the plant will enable the grid to deploy more renewable in the future to help the UK meet its low carbon targets.

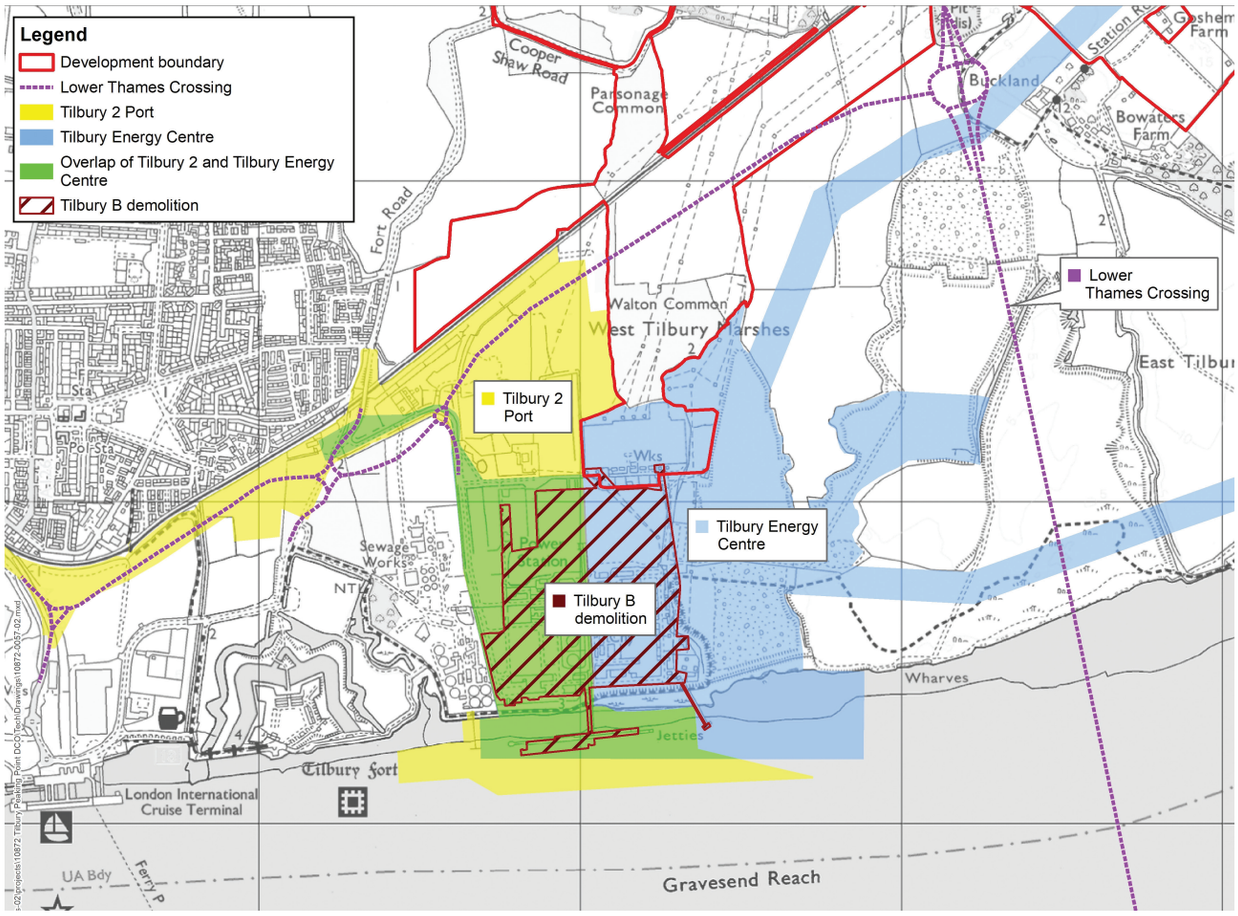
Relationship to Other Local Projects

The proposed development will be considered in relation to other developments in the local area. These may include developments which have been granted planning permission but are not yet constructed, are in the planning process or are at conceptual stages of development. There are five major projects in the immediate surrounding area:

- Tilbury2 Port expansion; (NSIP)
- Tilbury Energy Centre; (NSIP)
- Lower Thames Crossing; (NSIP) and
- Thames Tideway Spoil Deposition (LPA)
- Tilbury B demolition

An additional NSIP project is currently in the planning process at Swanscombe Peninsular on the other side of the Thames. This proposal is for a theme park resort including hotels, bars, restaurants and other business facilities.

Furthermore, outline planning permission has been granted for several residential and mixed-use developments in the surrounding area and additional developments are currently in the planning system. These developments, along with the proposed NSIP projects, will be considered within the Environmental Statement and an assessment will be made on the potential combined effects should the construction/ operation phases overlap.



Plans illustrating proposals by other developers

Where You can Find Documents Relating to this Statutory Public Consultation

The following documents which support our consultation are online at:

www.thurrockpower.co.uk

- Statement of Community Consultation;
- Have your Say Document;
- Feedback Form, and
- Preliminary Environmental Information Report

These documents are also available to view free of charge during the consultation period at the inspection locations listed below (opening hours may vary):

Location	**Address**
Thurrock Council	Civic Offices, New Road, Grays, RM17 6SL
Tilbury Hub	16 Civic Square, Tilbury, RM18 8ZZ
Gravesend Library	Windmill Street, Gravesend, DA12 1BE
Chadwell St Mary Library	Brentwood Road, Chadwell St Mary, Grays, RM16 4JP

How to Provide Your Views

- Complete the feedback form online at: www.thurrockpower.co.uk
- Attend a public consultation event and complete a feedback form
- Complete a feedback form and return it to us by Freepost using the address: Freepost **THURROCK POWER**

To help us shape the final design in preparation for submission of our application for Development Consent it is important that you become involved now.

The closing date for submitting your feedback is 11.59pm on 14th November 2018.

How Your Feedback will be Used

All feedback will help us to:

- Make sure all potential impacts on the community and the environment have been fully considered,
- Ensure the final project design is updated with all relevant responses where applicable,
- Ensure the final Environmental Statement considers impacts or mitigations resulting from the consultation process,
- Record in the Consultation Report submitted with our application how we have considered your feedback to develop the project.

All feedback will be analysed by us and/or our specialist consultants. Your details will only be used in connection with the Thurrock Flexible Generation Plant consultation process and will not be passed to any other third parties. We are unable to respond to each individual comment, but we will take them all into consideration.

What Happens After this Public Consultation?

This project is a Nationally Significant Infrastructure Project which requires a Development Consent Order ('DCO'). We will be making an application to the Planning Inspectorate and that application will include a Consultation Report. That Report must set out details of the consultation process we have undertaken, the responses we have received and the regard we have had to those responses. After examining our application, the Planning Inspectorate will present a recommendation to the Secretary of State for Business, Energy and Industrial Strategy and we will only be able to construct the plant if the Secretary of State grants a Development Consent Order.

For further information about the process, visit the Planning Inspectorate's website:
http://infrastructure.planninginspectorate.gov.uk

or call: **03034 45000**

A video explaining the DCO process is available online at:
https://infrastructure.planninginspectorate.gov.uk/application-process/the-process

Project Milestones

- **January 2019:**
  We submit our planning application for a Development Consent Order to the Planning Inspectorate, which includes the Report detailing the findings from this consultation.

- **February 2019:**
  The Planning Inspectorate will accept our application for Examination (assuming it meets relevant tests) after which there will be a period of formal representations to be submitted (which will be advertised).

- **May 2019:**
  The Planning Inspectorate will conduct a formal Examination into the application, which anyone who has registered and lodged representations, can participate in. This normally lasts 6 months, after which the Inspectors will make a recommendation to the Secretary of State.

- **May 2020:**
  The Secretary State will decide whether to give the project consent, taking into account the recommendation.

- **2021:**
  If planning consent is granted then construction will begin.

If you need help accessing this or any other Thurrock Power Limited document, please call **0207 186 0580** and we will help you.