



CONSULTATION REPORT

Appendix B The Infrastructure Planning (EIA Regulations 2017 Regulation 8 letter to the Inspectorate and acknowledgement (s46)

Drax Bioenergy with Carbon Capture and Storage

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations, 2009 - Regulation 5(2)(q)

Document Reference Number: 5.1.2

Applicant: Drax Power Limited

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DOCUMENT OWNER: D. Kennedy

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APPROVER: B. Redpath

PUBLIC

B1 - Includes

- Section 46 letter
- Section 42 letter
- Consultation Brochure
- Section 48 Notice



Drax Power Station
Selby
North Yorkshire
YO8 8PH

Paige Hanlon
NSIP Officer
The Planning Inspectorate
Temple Quay House
2 The Square
Temple Quay
Bristol, BS1 6PN

29 October 2021

Dear Paige

**DRAX POWER LIMITED: DRAX BIOENERGY WITH CARBON CAPTURE AND STORAGE
DUTY TO NOTIFY SECRETARY OF STATE OF PROPOSED APPLICATION UNDER
SECTION 46 OF THE PLANNING ACT 2008 (AS AMENDED)**

I write on behalf of Drax Power Limited ('Drax') in relation to our proposals to develop Bioenergy with Carbon Capture and Storage (BECCS) within our existing plant in North Yorkshire. I confirm that Drax intends to submit an application to the Secretary of State for Business, Energy and Industrial Strategy (the 'SoS') for a Development Consent Order ('DCO') under section 37 of the Planning Act 2008 ('PA2008').

This letter is Drax' formal notification to the SoS of the Proposed Application pursuant to section 46 of the PA2008, 'Duty to notify Secretary of State of proposed application'.

Drax is proposing to install carbon capture technology on up to two of the existing biomass power generating units at Drax Power Station. The Proposed Scheme will help to remove more CO₂ from the atmosphere than is produced across Drax' operations, making the company carbon negative.

The Proposed Scheme would involve the installation of post combustion carbon capture technology to capture carbon dioxide from up to two existing 660 megawatt electrical ('MWe') biomass power generating units at Drax Power Station (Unit 1 and Unit 2). This would comprise of:

- Up to two carbon capture plants (one per existing biomass unit), each made up of: a flue gas pre-treatment section (to include up to two gas / gas heat exchangers and one quench column), one absorber column, a solvent regeneration system (to include up to two regenerators), rich solvent / lean solvent heat exchangers, and ancillary systems related to the carbon capture process;

- Common plant elements (used by one or both carbon capture plants) including modification to the existing cooling system and distribution of cooling water to the Proposed Scheme, modification to the existing biomass power generating units (Units 1 and 2) for extraction of steam and new infrastructure to meet required process conditions for distribution of steam to the Proposed Scheme, solvent storage and make-up system, carbon dioxide compression and processing plant, and carbon capture wastewater treatment plant;
- Road modifications;
- An Environmental Mitigation Area; and
- Other works associated with the Proposed Scheme including site drainage, security infrastructure and site lighting infrastructure, as well as an area for temporary construction laydown.

Section 42 of the PA2008 ('Duty to consult') requires Drax to consult on its proposed application with those persons specified by the PA2008 and its associated regulations. Drax will commence consultation with those persons by issuing a letter (accompanied by the consultation brochure and section 48 notice and the address for the website where the consultation documents can be viewed) to such persons prior to the start of the consultation on 1 November 2021. Where prior consent has been given, prescribed consultees will receive the letter and link to the consultation documents by email.

The deadline stated for response to the consultation in the section 42 letter is 11.59pm on 12 December 2021.

Enclosed with this letter are the consultation documents issued to section 42 consultees. These documents are:

- An example copy of the section 42 letter;
- The consultation brochure which provides an overview of the Proposed Scheme; and
- Section 48 Notice which has also been published in local and national newspapers to publicise our proposed application.

You can also find the following consultation documents on our website at:
www.beccs-drax.com/consultationdocuments

- The Preliminary Environmental Information Report ('PEIR') which details the Proposed Scheme and a preliminary assessment of its likely significant environmental effects;
- The Non-Technical Summary ('NTS') of the findings in the PEIR; and
- The Statement of Community Consultation which states how we are consulting the local community in the vicinity of the Proposed Scheme

If you have any issues accessing the documents noted above, if you would like a hard copy or if you would like them on a USB, please contact us using the details below. Hard copies will also be available for inspection at the venues detailed in part 6 of this letter and available on request. The brochure can also be made available in large print format, braille or other languages upon request.

I look forward to receiving the Planning Inspectorate's formal acknowledgement of this notification in compliance with section 46 of the PA2008. In the meantime, should you have any questions, please do not hesitate to contact us on the details below.

Yours sincerely

Jim Doyle

Development Manager

Website: [REDACTED]

Email: info@BECCS-Drax.com

Phone: 01757 618381

Post: FREEPOST CARBON CAPTURE BY DRAX

Enclosures:

- (1) An example copy of the section 42 letter;
- (2) The consultation brochure which provides an overview of the Proposed Scheme; and
- (3) Section 48 Notice which has also been published in local and national newspapers to publicise our proposed application.



Drax Power Station
Selby
North Yorkshire
YO8 8PH

1 November 2021

Dear Sir / Madam

**DRAX POWER LIMITED: DRAX BIOENERGY WITH CARBON CAPTURE AND STORAGE
STATUTORY CONSULTATION UNDER SECTION 42 OF THE PLANNING ACT 2008
PRE-APPLICATION PUBLICITY IN ACCORDANCE WITH SECTION 48 OF THE PLANNING
ACT 2008 AND REGULATION 13 OF THE INFRASTRUCTURE PLANNING (ENVIRONMENTAL
IMPACT ASSESSMENT) REGULATIONS 2017**

I write in relation to our proposals to develop Bioenergy with Carbon Capture and Storage (BECCS) within our existing plant in North Yorkshire. BECCS is a technology that has been successfully trialled and developed to remove carbon dioxide (CO₂) from the atmosphere. Drax Power Ltd ('Drax') is proposing to install carbon capture technology on up to two of the existing biomass power generating units at Drax Power Station. This will help us remove more CO₂ from the atmosphere than is produced across our operations, making the company carbon negative.

As BECCS at Drax is classified as a Nationally Significant Infrastructure Project (NSIP), under the Planning Act 2008 (PA2008), its construction and operation require planning permission known as a Development Consent Order (DCO). As part of this process, we will be holding a statutory public consultation to gather feedback on our proposals before we submit our DCO application.

The public consultation will be held over a 6-week period from Monday 1 November to Sunday 12 December. We have included within this letter more information about the Proposed Scheme, where you can find more information, and how you can provide your feedback. Please note that this consultation will close at 11.59pm on 12 December 2021 and we therefore invite responses on or before this date.

1. The Proposed Scheme

The Proposed Scheme would involve the installation of post combustion carbon capture technology to capture carbon dioxide from up to two existing 660 megawatt electrical ('MWe') biomass power generating units at Drax Power Station (Unit 1 and Unit 2). The Proposed Scheme would comprise:

- Up to two carbon capture plants (one per existing biomass unit), each made up of: a flue gas pre-treatment section (to include up to two gas / gas heat exchangers and one quench column), one absorber column, a solvent regeneration system (to include up to two regenerators), rich solvent / lean solvent heat exchangers, and ancillary systems related to the carbon capture process;

- Common plant elements (used by one or both carbon capture plants) including modification to the existing cooling system and distribution of cooling water to the Proposed Scheme, modification to the existing biomass power generating units (Units 1 and 2) for extraction of steam and new infrastructure to meet required process conditions for distribution of steam to the Proposed Scheme, solvent storage and make-up system, carbon dioxide compression and processing plant, and carbon capture wastewater treatment plant;
- Road modifications;
- An Environmental Mitigation Area; and
- Other works associated with the Proposed Scheme including site drainage, security infrastructure and site lighting infrastructure, as well as an area for temporary construction laydown.

2. Section 42 'Duty to consult'

Section 42 of the PA2008 requires Drax to consult on its proposed application with those persons specified by the PA2008 and its associated regulations. These persons include, for example, local authorities within or near to the Proposed Scheme, prescribed consultation bodies (for example, the Environment Agency), those with an interest in the land to which the application relates (such as landowners, tenants, occupiers, or persons with other interests in land) and those who may be entitled to bring a claim under certain land compensation legislation should the Proposed Scheme be constructed and the land used for the Proposed Scheme.

Drax has identified that you fall into one of the categories of people that it needs to consult under section 42 of the PA2008. As such, you will find attached with this letter the consultation brochure which provides an overview of the Proposed Scheme.

You can also find the following documents on our website at:
www.beccs-drax.com/consultationdocuments

- i. The Preliminary Environmental Information Report ('PEIR') which details the Proposed Scheme and a preliminary assessment of its likely significant environmental effects; and
- ii. The Non-Technical Summary ('NTS') of the findings in the PEIR.
- iii.

Hard copies will also be available for inspection at the venues detailed in part 6 of this letter and available on request. If you would like a hard copy version of the documents, you can contact us using the details below. The brochure can also be made available in large print format, braille or other languages upon request.

3. Section 48 of the PA2008 and Regulation 13 Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 ('EIA Regulations 2017') 'Duty to publicise'

Section 48 of the PA2008 requires applicants for a DCO to publicise their proposed application via a notice once in a national newspaper and once in the London Gazette. The Section 48 Notice must also be published for two consecutive weeks in a local newspaper circulating in the vicinity of the land to which the development relates.

In addition, Regulation 13 of the EIA Regulations 2017 requires that the prospective applicant for the DCO, at the same time as publishing notice of the proposed application in accordance with section 48 of the PA2008, sends a copy of that notice to the prescribed consultees set out in Schedule 1 of the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009. If you are a local authority or other prescribed consultation body, you will find the Section 48 notice attached with this letter, as required under the EIA Regulations 2017. If

you have an interest in land or may be entitled to make a claim in connection with the Proposed Scheme, we have voluntarily also sent you the Section 48 notice.

4. The DCO process

As the Proposed Scheme constitutes a Nationally Significant Infrastructure Project as outlined above, Drax must make an application under the PA2008 for a permission known as a Development Consent Order ('DCO') to construct and operate the Proposed Scheme. Drax intends to submit the application to the Secretary of State for Business, Energy and Industry Strategy ('SoS') in Spring 2022. The application will include supporting documents including a Consultation Report, which will record the results of this consultation exercise and demonstrate how Drax has had regard to the consultation responses in preparing its application.

The decision maker on whether to grant the DCO for the Proposed Scheme will be the SoS. The application will be examined by an Examining Authority (a single Inspector or panel of Inspectors appointed from the Planning Inspectorate) on behalf of the SoS over a six-month examination period. The Examining Authority will then make a recommendation to the SoS and the SoS will then make the final decision whether or not to grant a DCO. Drax anticipates that the examination period would run from around the fourth quarter 2022 until early 2023, with a decision from the SoS in the third quarter of 2023.

If granted, the DCO would give authorisation for the construction and operation of the Proposed Scheme. The DCO would include powers required to construct and operate the Proposed Scheme including compulsory acquisition powers for the permanent acquisition of land and / or rights over land. The DCO may also include (if required) powers for the temporary occupation of land, the extinguishment or overriding of easements and other rights over or affecting land required for the Proposed Scheme, the application and / or disapplication of legislation relevant to the Proposed Scheme, highway powers and tree and hedgerow removal, amongst other matters.

5. Environmental Impact Assessment

As the Proposed Scheme falls under paragraph 2(1) of Schedule 1 of the EIA Regulations 2017, the DCO application will also be supported by an Environmental Statement ('ES') that will be prepared following the undertaking of an Environmental Impact Assessment ('EIA'). The ES will contain information about the likely significant environmental effects of the Proposed Scheme, and how any adverse effects will be mitigated.

As part of this consultation, you can view the PEIR, which sets out Drax's preliminary view of the likely significant environmental effects. The PEIR does not contain the final findings, as the EIA is ongoing and a full ES will be submitted as part of the DCO application. The Non-Technical Summary of the PEIR provides a non-technical overview of the findings set out in the PEIR.

6. The consultation

The consultation will be held from 1 November to 12 December 2021 and gives you the opportunity to provide your feedback or questions on our proposals for BECCS at Drax. **Please provide your feedback by 11.59pm on 12 December 2021.** More information about BECCS at Drax can be found on our website: www.BECCS-Drax.com

We will be holding a series of online and in-person events as part of this consultation. This will give you the opportunity to find out more about the proposals and discuss your views directly with members of the project team.

Through our online live-chat events, you can speak with the project team using our one-to-one chat function. You don't need to book ahead, you simply need to go to our website during the

event times and register, you will then be able to use the chat function. The online live-chat events will be held on:

- Thursday 11 November 2021 (10am - 2pm)
- Thursday 18 November 2021 (4pm - 8pm)
- Wednesday 24 November 2021 (2pm - 6pm)

We will also be holding in-person exhibition events at the following dates and locations:

- **Tuesday 23 November 2021, 12pm - 6pm**
Drax Sport and Social Club Main Rd, Drax, Selby YO8 8PJ
- **Saturday 27 November 2021, 10am - 4pm**
Junction Goole, Paradise Place, Goole DN14 5DL
- **Wednesday 1 December 2021, 1.30pm - 7.30pm**
Selby Town Hall, York St, Selby YO8 4AJ

All appropriate COVID-19 precautions will be taken and relevant Government guidance at the time of consultation will be followed. If it is not possible to hold in-person events due to COVID-19 restrictions, we would provide three further online events instead. We advise those interested in attending our in-person exhibitions to check our website prior to attending for any updates to the events.

Throughout the consultation period, you can view hard copies of the consultation materials at the following deposit point locations:

Drax Sports and Social Club Main Road, Drax, YO8 8PJ 01757 618041	Monday 12pm-10pm; Tuesday 11am-10pm; Wednesday 12pm-10pm; Thursday 11am-11pm; Friday 12pm-11pm; Saturday 10am-12pm; Sunday 10am-6pm
Selby Library 52 Micklegate, Selby, YO8 4EQ 01609 534521	Monday 9:30am-7:30pm; Tuesday 9:30am-5:30pm; Wednesday 9:30am-5:30pm; Thursday 9:30am-12:30pm; Friday 9:30am-5:30pm; Saturday 9:30am-12pm; Sunday Closed
Snaith Library 27 Market Place, Snaith, Goole, DN14 9HE 01405 860096	Monday Closed; Tuesday 2:00pm-6:00pm; Wednesday Closed; Thursday 10:00am-4:00pm; Friday Closed; Saturday 10:00am-12:00pm; Sunday Closed
Goole Library Carlisle Street, Goole, DN14 5DS 01405 762187	Monday, 9:30am–7pm; Tuesday, 9:30am–5pm; Wednesday, 9:30am–7pm; Thursday, 9:30am–5pm; Friday, 9:30am–5pm; Saturday, 9am–4pm; Sunday, Closed
Beverley Customer Service Centre 7 Cross St, Beverley HU17 6TB 01482 393939	Monday, 9am–5pm; Tuesday, 9am–5pm; Wednesday, 9am–5pm; Thursday, 9am–5pm; Friday, 9am–4:30pm; Saturday, Closed; Sunday, Closed

Subject to COVID-19 restrictions, we advise that members of the public check with the relevant venue regarding any restrictions that may be in place prior to visiting. In the event of needing to cancel the use of deposit points due to COVID-19 restrictions, materials will remain available online at www.BECCS-Drax.com.

Hard copies of the materials will also be made available upon request, regardless of the COVID-19 situation. Copies of the consultation brochure and non-technical summary of the PEIR will be

provided free of charge. Due to the size of the PEIR as a detailed technical document, a charge of £210 will incur for the printing and delivery of the PEIR upon request.

7. How to respond to the consultation

We would welcome your views on the Proposed Scheme. You can respond to the consultation by:

- Completing our questionnaire online at: [REDACTED]
- Emailing us at: info@BECCS-Drax.com
- Writing to us at: FREEPOST CARBON CAPTURE BY DRAX

When making a response or representation, please include your name / the name of the body or organisation, the main contact person and an address where correspondence about your response or representation may be sent.

Your comments will be analysed by the Applicant and any of its appointed agents. Copies may be made available in due course to the Secretary of State, the Planning Inspectorate and other relevant statutory authorities so that your comments can be considered as part of the DCO application process. Responses may therefore be made public however we will request that your personal details are not placed on public record. The Applicant and its appointed agents will hold your personal details securely in accordance with applicable data protection legislation and will use them solely in connection with the consultation process and subsequent DCO application and, except as noted above, they will not be passed to third parties. Please refer to our Privacy Notice for more details: [REDACTED]

Yours sincerely,

Jim Doyle

Development Manager

Email: info@BECCS-Drax.com

Website: [REDACTED]

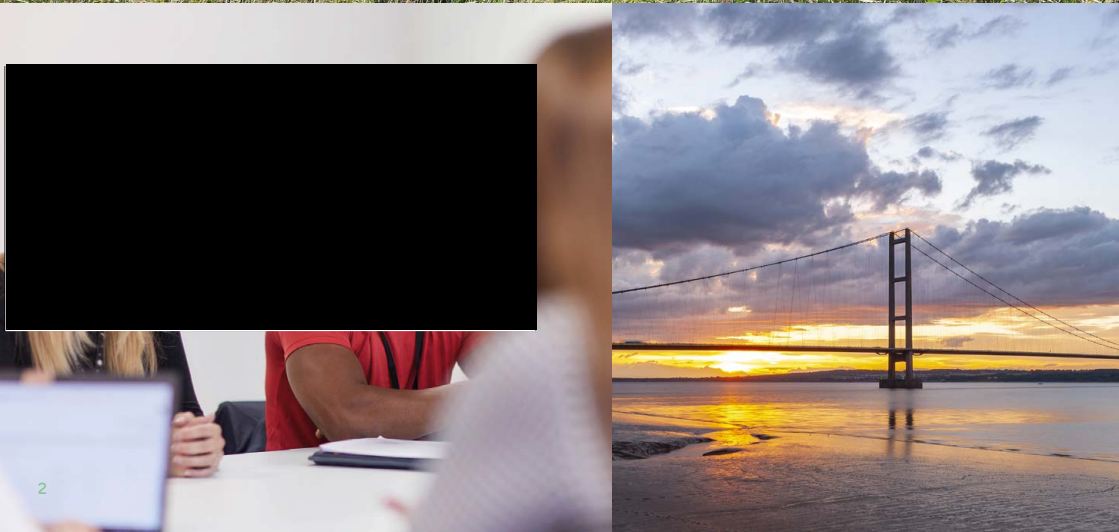
Phone: 01757 618381

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Bioenergy with Carbon Capture and Storage (BECCS) at Drax Power Station

Consultation Brochure November – December 2021



Introduction

Drax Power Limited (Drax) is proposing to develop Bioenergy with Carbon Capture and Storage (BECCS) at the Drax Power Station site in North Yorkshire.

BECCS is a technology that has been developed to remove carbon dioxide (CO₂) from the atmosphere. Delivering BECCS will enable us to capture the carbon dioxide emitted during electricity generation, permanently removing more carbon dioxide from the atmosphere than is produced throughout the process – creating what is known as negative emissions.

Reducing emissions will be key to helping fight the global climate crisis as well as helping the UK meet its legally binding 'net zero by 2050' target. Negative emissions are a vital part of a solution that also includes decarbonising all sectors of the economy, deploying more renewables, hydrogen and electric vehicles as well as improving energy efficiency and changing the way we live.

BECCS at Drax is a "Nationally Significant Infrastructure Project" (NSIP) under the Planning Act 2008. As such we will be applying for a Development Consent Order (DCO) which would allow us to install and operate the technology.

We are holding this consultation to get your views on our proposed scheme. The consultation runs from 1 November to 12 December 2021. We have set out in this brochure the vision behind our proposals, the key elements of BECCS at Drax and information on how we will continue to develop our proposals, including early results from our Environmental Impact Assessments.

Your views are important to us and we encourage you to provide your feedback. You can find out more online at www.BECCS-Drax.com and throughout this brochure.



The consultation runs from
1 November to 12 December 2021.

What is BECCS at Drax?

Drax Power Station has four generating units which use biomass to produce renewable electricity. We are proposing to install carbon capture technology on up to two of these units to remove up to 95% of the carbon dioxide from the flue gas emitted from those units.

The proposed scheme will include:

- The installation of new carbon capture technology on up to two of the existing biomass-fired generating units at Drax Power Station,
- An environmental mitigation area, designed to protect and improve habitats for local wildlife and farmland, and
- An area for construction laydown, which will be used for the temporary location of offices, warehouses, workshops, open air storage areas and car parking.

Further detail is provided in this brochure about how carbon capture technology works and the key elements of BECCS at Drax.

The units remove up to 95% of the carbon dioxide emitted from the flue gas.

For BECCS at Drax, the carbon dioxide captured will be transported via the proposed National Grid Ventures pipeline for permanent storage deep under the seabed of the southern North Sea. The transport and storage infrastructure will be developed as a separate project by National Grid Ventures.

You can find out more about this pipeline project on the National Grid Humber Low Carbon website.



The importance of negative emissions

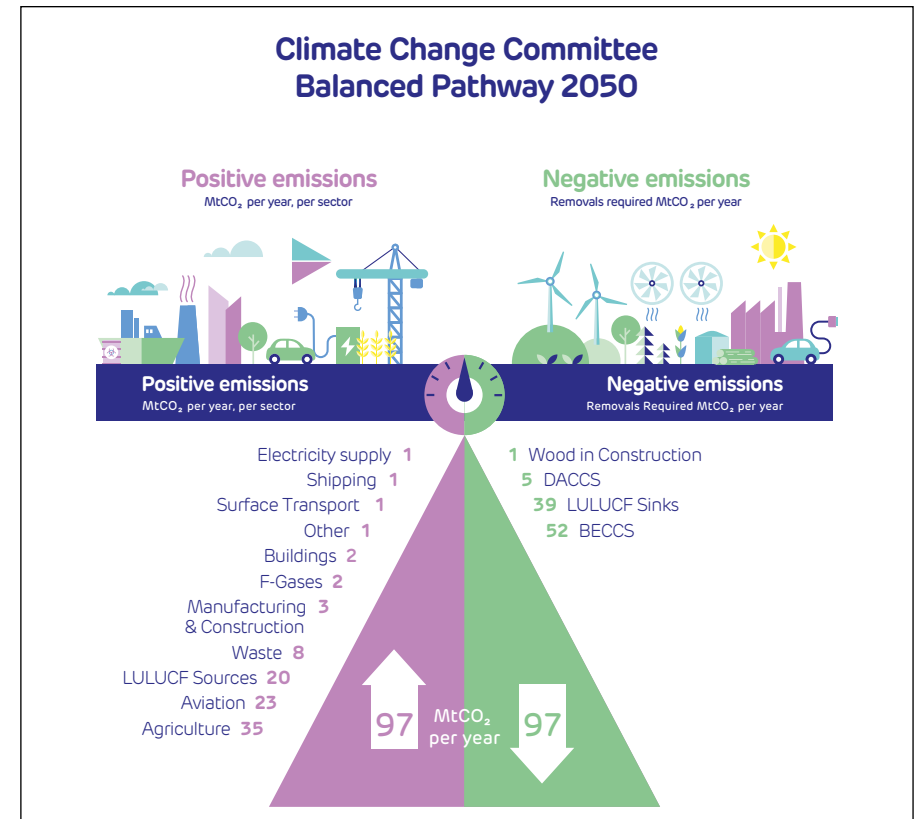
As the Intergovernmental Panel on Climate Change (IPCC) reported recently, human-induced climate change is already affecting weather and climate extremes across the globe.

The report suggests we may have to go beyond net zero by 2050 in order to avoid the worst effects of climate change.

At a global level, as well as reducing emissions, we must also capture carbon dioxide that has already been emitted and remove it from our atmosphere. Experts including the Climate Change Committee agree that negative emissions technologies, including BECCS, are essential to prevent global temperatures from increasing by more than 1.5 degrees.

✓ **8m**

BECCS at Drax Power Station could permanently remove up to 8 million tonnes of carbon per year – around 40% of the BECCS with power needed to meet the Climate Change Committee's Balanced Net Zero pathway*.



How negative emissions can help offset the carbon dioxide emissions across different hard-to-decarbonise sectors (MtCO₂ refers to 'metric tonnes of carbon dioxide')

LULUCF = Land use, land use change, and forestry
DACCS = Direct air carbon capture and storage
F-Gases = Fluorinated greenhouse gases

By 2050, a significant volume of emissions will still be emitted by hard-to-decarbonise sectors such as aviation, agriculture and heavy industry. Negative emissions technologies, like BECCS, can help to offset these residual emissions and help the UK Government reach its legally binding target to bring all greenhouse gas emissions to net zero by 2050.

The next ten years are crucial if we are to reach net zero and generate the negative emissions we need. The UK must be 78% of the way there by 2035, so quickly deploying negative emissions technologies is critical.

By deploying BECCS at Drax as early as 2027, our ambition is to become carbon negative by 2030.

Drax's Vision

Our vision for a carbon negative company by 2030 is based on three core pillars:

1

BECCS at Drax will help the UK reach net zero.



Developing carbon negative technologies, like BECCS, is vital if we are to deliver for the environment and the economy. Installing BECCS technology on our existing biomass power generating units at Drax Power Station will permanently remove 8 million tonnes of carbon dioxide from the atmosphere each year – around 40% of the BECCS with power needed to meet the Climate Change Committee's Balanced Net Zero pathway.

2

BECCS at Drax will support economic growth and create and protect green jobs and skills.



Building BECCS at Drax will accelerate economic growth for the Yorkshire and Humber region, putting the region at the heart of a global green economy. The proposed scheme will also create and support over 10,000 jobs in the Humber and across the UK, through construction and operation of BECCS.

3

BECCS at Drax positions the UK as a global leader in developing innovative carbon capture technologies.



Developing BECCS at Drax would put the UK at the forefront of developing and exporting a vital technology that will be needed around the world to combat climate change.



How does BECCS work?

BECCS generates renewable electricity whilst capturing and permanently storing CO₂, delivering negative emissions.

Drax's biomass units already use biomass sourced from sustainably managed forests to generate electricity.

With BECCS at Drax, the carbon dioxide that is emitted as part of the energy generation from biomass will be captured using carbon capture technology. That carbon dioxide will then be safely stored offshore under the seabed.

✓ **2050**

The UK won't reach its 2050 net zero target without negative emissions from BECCS, according to National Grid's future energy scenarios.

How does the carbon capture technology work?

With BECCS at Drax, carbon capture technology will be installed on up to two of the existing biomass electricity generating units at Drax Power Station. The technology will include 'carbon capture plant' components which would be connected to each of the biomass units, and 'common plant' components which would be required for both carbon capture plants.

1

A flue gas pre-treatment section will remove pollutants from the gas which is emitted from the biomass unit as part of the energy generation process before the carbon dioxide is extracted.

2

An absorber column will then extract the carbon dioxide from the flue gas using an amine solvent.

3

Solvent heat exchangers will then cool the amine solvent so that it can be re-used.

4

A solvent regeneration system will then separate the carbon dioxide from the amine solvent when it is re-heated.

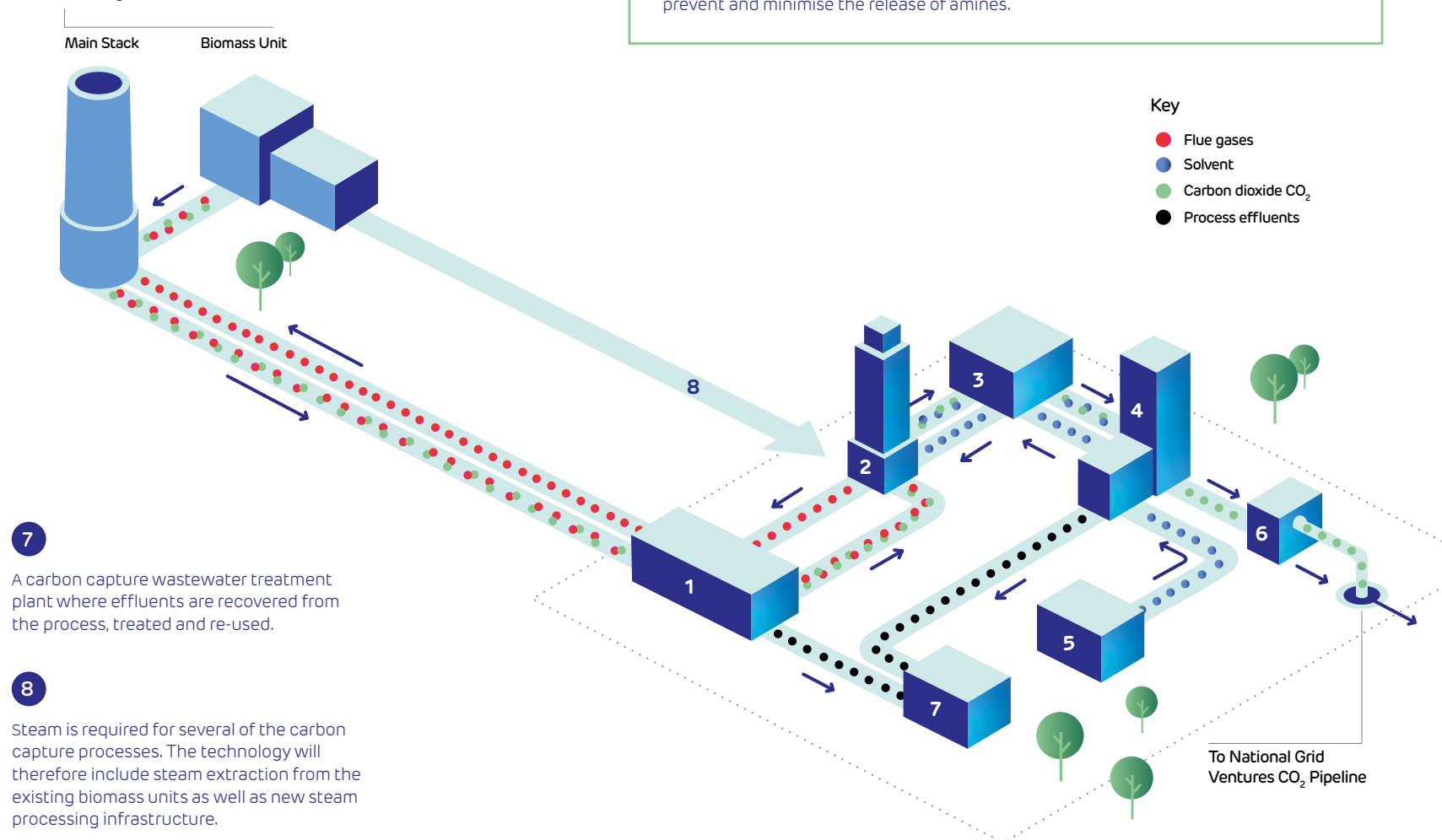
5

Solvent storage and make-up system ensure that the amine solvent remains in a good condition and continues to be available for the process.

6

Carbon dioxide is then transferred to the compression and processing plant where the carbon dioxide is processed for transport by pipeline for storage in safe underground deposits.

Existing Power Plant



What are Amines?

Operating BECCS at Drax will involve the use of amines, which are used as part of the carbon capture systems. Amines are derivatives of ammonia (NH₃) and are used in many different industrial applications (for example the manufacture of dyes or pharmaceuticals). In carbon capture systems, amine-based solvents are used to separate the carbon dioxide from the flue gases through a chemical reaction. This is sometimes referred to as 'amine scrubbing'.

This amine-based carbon capture system is one of the most widely used carbon capture systems and is the only proven technology that is currently commercially available.

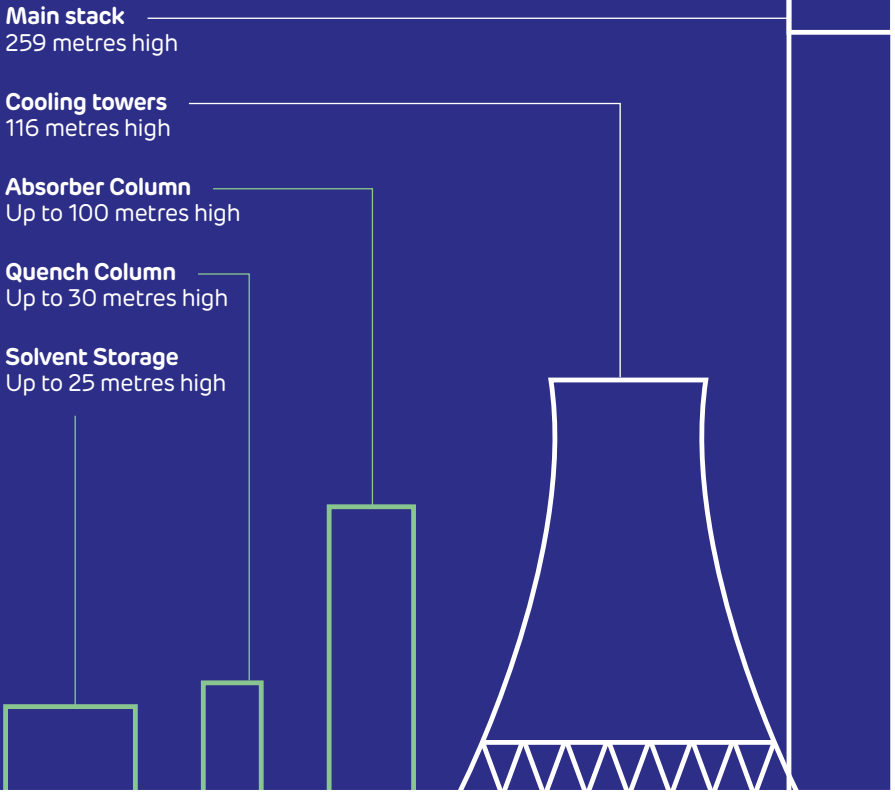
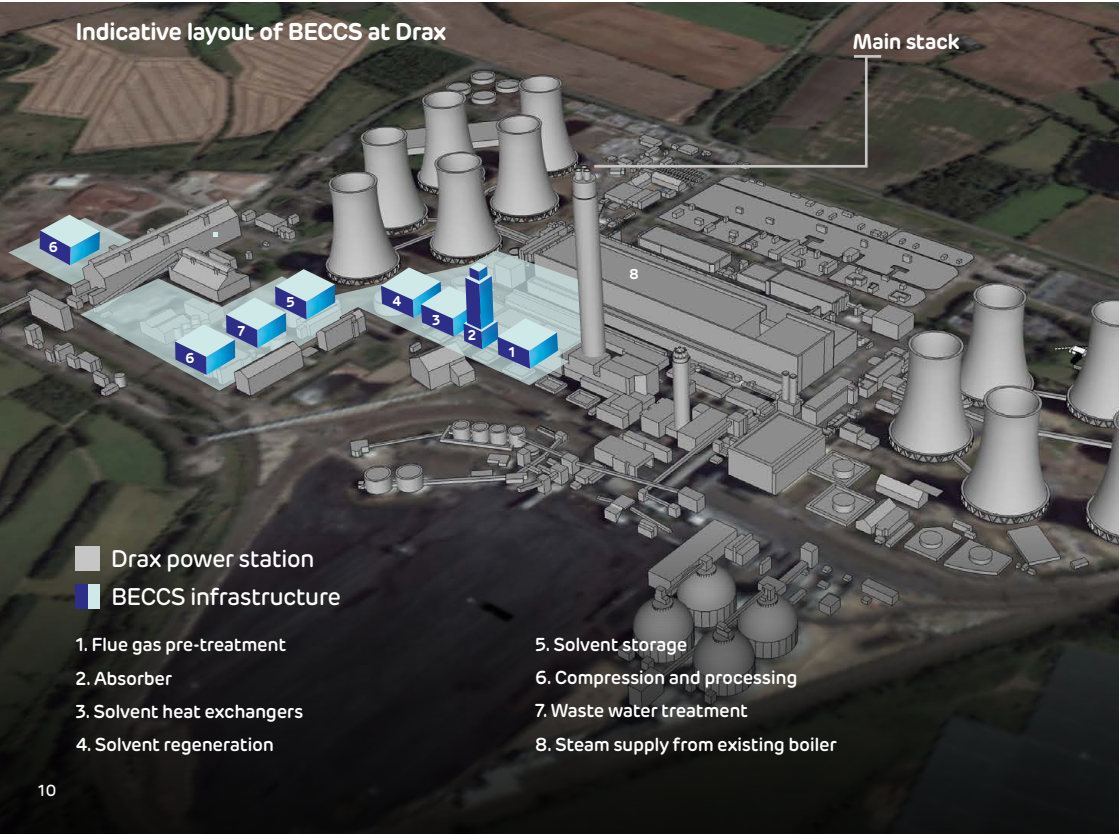
This process is carefully regulated by the Environment Agency through permitting regulations, emissions limits and monitoring requirements to ensure operators prevent and minimise the release of amines.

What will BECCS at Drax look like?

The carbon capture technology will be integrated into the existing biomass units at Drax Power Station.

The majority of the different infrastructure components will be installed to the west of the northern cooling towers, where some of the current infrastructure is planned to be demolished. This demolition is being undertaken as part of a separate project.

Below are some visualisations of BECCS at Drax which highlight what the new carbon capture technology may look like. The new infrastructure is shown in blue and the existing site infrastructure is shown in grey.



This section image highlights the likely scale of new BECCS technology to be installed (in green) in comparison with the existing infrastructure (in white).



“We welcome this ground-breaking project that would remove millions of tonnes of carbon dioxide from the atmosphere, putting the District and Drax at the heart of the government’s plans for a Green Industrial Revolution.”

Selby District Council

Environmental Impact

The proposed scheme is referred to as “Environmental Impact Assessment (EIA) development” under the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. As a result, we are undertaking an EIA to determine the likely significant effects of BECCS at Drax on the environment, and how these impacts can be avoided, reduced or mitigated. The EIA will consider likely significant effects during construction, as well as when BECCS is operational.

The preliminary environmental assessments for BECCS at Drax have considered matters such as impacts on air and water quality, flood risk, traffic and transport, noise, ecology, heritage and landscape/visual amenity. As part of this consultation, we have produced a Preliminary Environmental Information Report (PEIR) which

sets out a preliminary assessment of the likely significant effects of the proposed scheme. You can also find a non-technical summary of the PEIR which summarises the key findings from our preliminary environmental assessments.

The PEIR and its Non-Technical Summary can be found online at: www.BECCS-Drax.com.

Following feedback received from this consultation and ongoing assessment work, we will complete the EIA and produce a detailed Environmental Statement which will report on the assessment outcomes and any proposed mitigation. The Environmental Statement will be submitted to the Planning Inspectorate as part of our DCO Application.

Construction

Construction is anticipated to start in early 2024 and is expected to be complete by the end of 2029. This will involve the construction of the carbon capture plant elements such as the absorber column, as well as the construction of the common plant elements such as the carbon capture wastewater treatment plant.

As part of the construction process, temporary laydown areas will be needed for the location of construction offices, warehouses, workshops, open air storage areas and car parking. As part of our proposals, we have included for a laydown area to the east of the existing Drax Power Station Site, as well as several smaller laydown areas within the Drax Power Station Site.

Once the construction is complete, the laydown area to the east of the Drax Power Station Site will be re-instated to its previous use.

Construction staff

It is anticipated that a peak workforce of approximately 1,000 workers will be required during construction. Car parking spaces for construction workers will be available within the Drax Power Station Site and the proposed laydown area.

✓ 2029

Construction is anticipated to start in early 2024, with the first unit complete by 2027 and the second by the end of 2029.



Core construction working hours

Construction working hours will be from Monday to Friday 7am to 7pm, and Saturdays 7am to 1pm. It is likely that some construction activities and deliveries will be required to be 24 hours at certain times. Where work is required outside of core construction hours this will be agreed in advance with the Local Planning Authority.

Construction impacts

As we develop the proposals, we will consider these construction activities in more detail. As part of our environmental assessments, we will set out any mitigation required during construction to prevent or reduce impacts on the environment. These will be set out in a Register of Commitments which will form part of our DCO Application, and a Construction Environmental Management Plan (CEMP) which will be prepared before construction starts.

✓ 100%

In a world first, we demonstrated post-combustion carbon capture from 100% biomass feedstock.



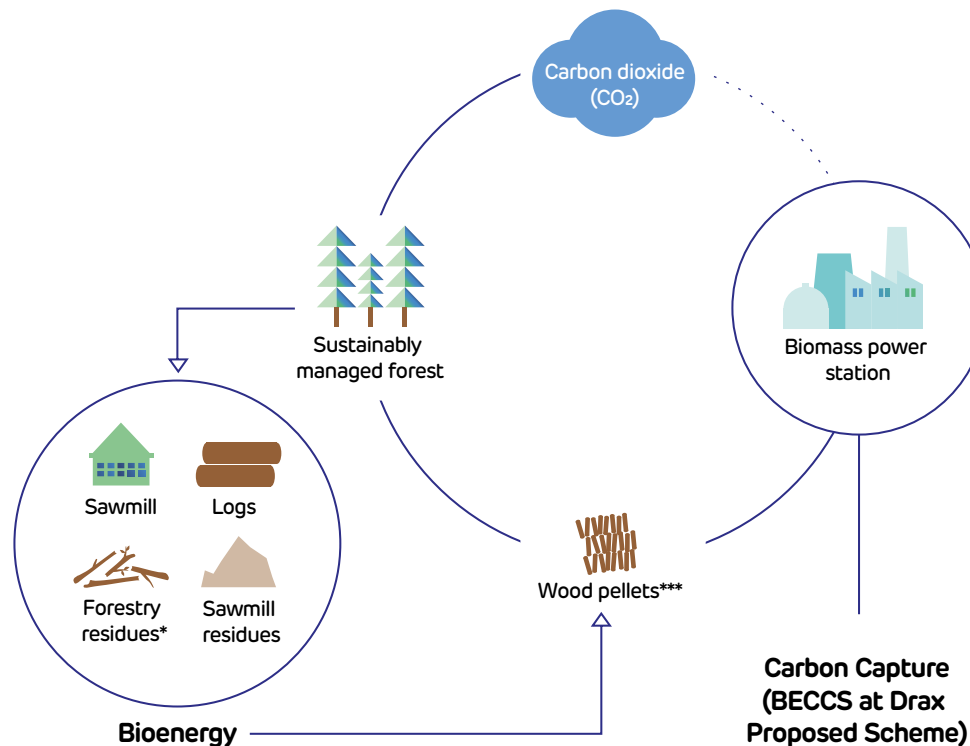
Transport of construction materials

Transport of construction materials will be via the road network. Construction materials will be transported by road from the M62. Larger construction elements, known as Abnormal Indivisible Loads (AILs) will be transported by road along the Goole Bypass, the M62 and then the A645 to Drax Power Station. Road modifications and temporary closures may be required at the roundabout to the south of the Drax Power Station to allow for the transport of AILs.

■ Drax Power Station
■ Laydown Area
■ Environmental Mitigation Area

Where does the bioenergy fit within BECCS at Drax?

Our proposals for the DCO application are focused on the carbon capture elements of BECCS. This is because the biomass units are already operational, and the transport and storage of the carbon dioxide will be delivered and managed as a separate project by National Grid Ventures.



Drax is a world leader in sustainable biomass. Having developed a global sourcing policy, we were able to convert Drax Power Station in Yorkshire from using coal to sustainable biomass. This transformed the business into the largest decarbonisation project in Europe, created a robust and resilient global supply chain for sustainable biomass and laid the groundwork for Drax to pioneer BECCS as an innovative technology.



Sustainability of the biomass

Ensuring that the biomass we use is sustainable is a fundamental part of our business. Our biomass complies with stringent sustainability criteria set out in UK and EU law and meets strict certification standards.

Drax goes beyond legislated sustainability requirements with our own science-based, transparent sustainable sourcing policy. We place strong controls on our biomass, closely monitoring our supply chain and sourcing locations and ensuring close relationships with suppliers.

* Forestry residues includes branch tops and bark, thinnings and low-grade roundwood.

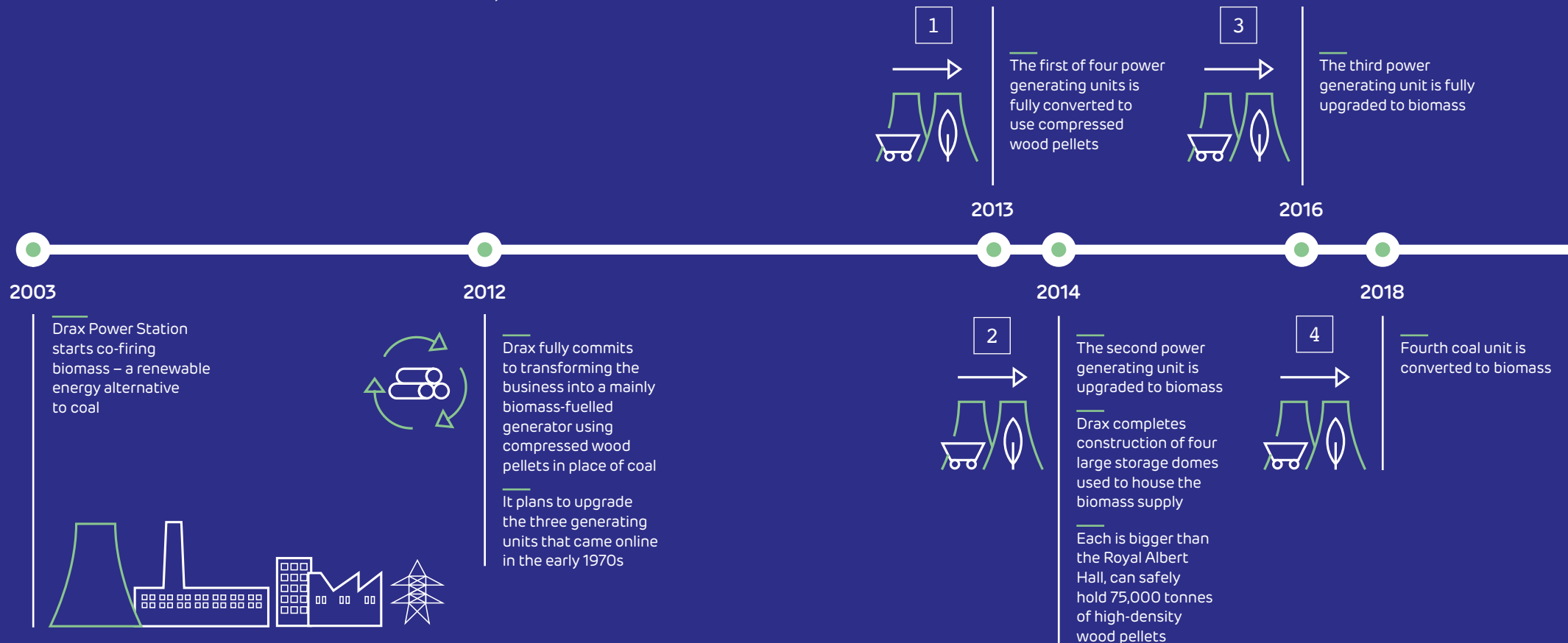
** Transport and stored in a geological storage site under the North Sea. This will be delivered by National Grid Ventures.

*** Wood pellets are generated from forestry and sawmill residues.

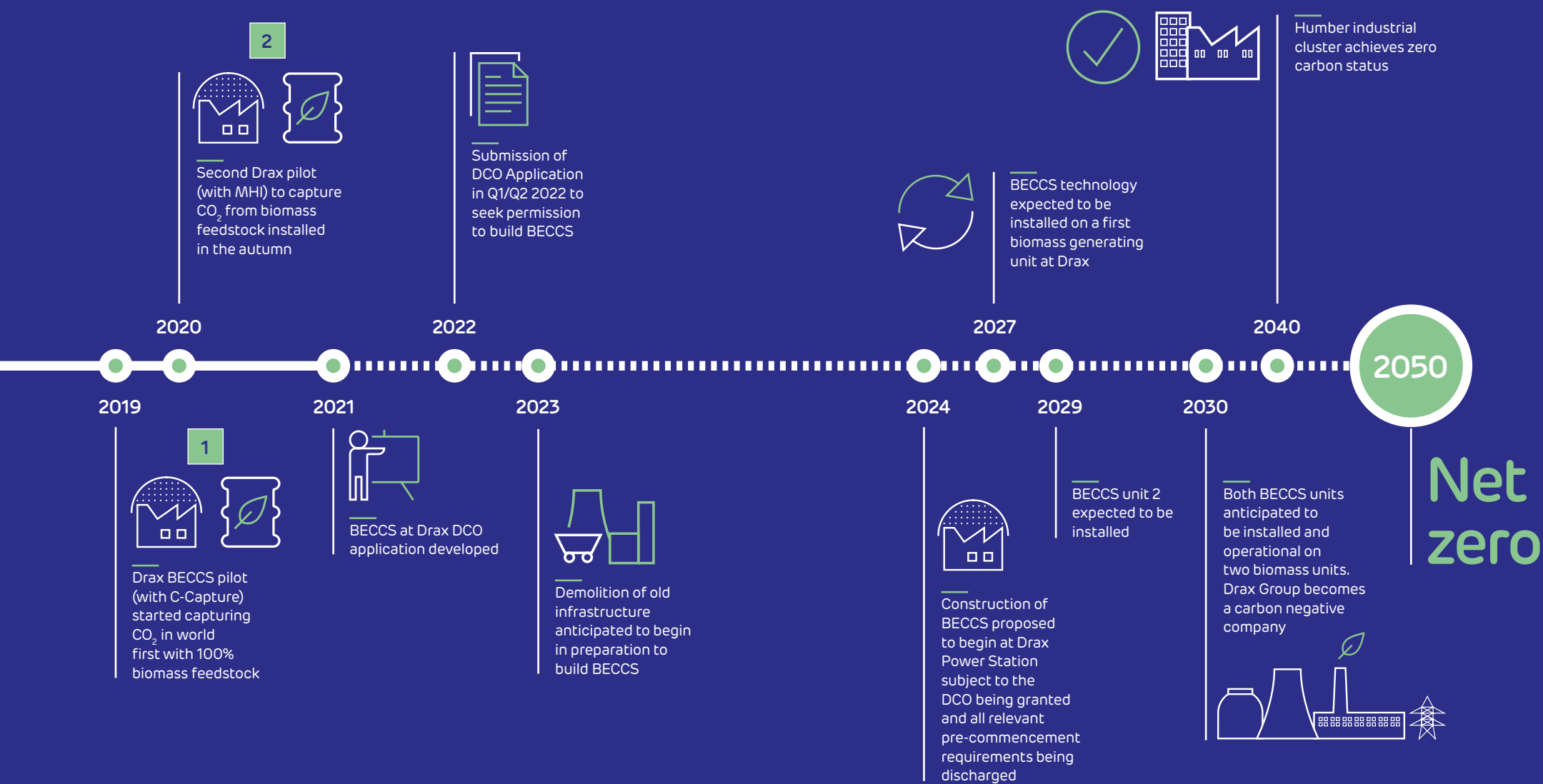
Drax timeline

Drax has led the transition to clean energy for over a decade. We've transformed from the UK's largest coal-fired power station to Western Europe's largest decarbonisation project. Now we're ready to go further. Drax now aims to help build a carbon neutral industrial cluster in the Humber.

By deploying BECCS, Drax will pioneer cutting edge technology. BECCS will produce the reliable and renewable electricity the UK needs to decarbonise the economy, as well as the negative emissions needed to offset those hard to decarbonise sectors. Developing BECCS at Drax will also create and support thousands of jobs, helping to support the region through a post-COVID economic recovery.



Drax timeline



Planning process

We are applying for a Development Consent Order (DCO) as BECCS at Drax is classed as a Nationally Significant Infrastructure Project under the Planning Act 2008, because it is an extension to existing biomass generating stations that have a generation capacity in excess of 50 MW.





The DCO will include powers required to construct and operate the project including compulsory acquisition powers for the permanent acquisition of land and / or rights over land. The DCO may also include (if required) powers for the temporary occupation of land, the extinguishment or overriding of easements and other rights over or affecting land required for the proposed scheme, the application and / or disapplication of legislation relevant to the proposed scheme, highway powers and tree and hedgerow removal, amongst other matters.


This statutory consultation is a key point in the DCO process to gather your feedback. All comments and responses will be taken into consideration as we continue to develop our proposals, before submitting our application in 2022.

You can continue to have your say even after the application has been submitted. Once submitted, you will be able to register as an Interested Party during the pre-examination period to be kept up to date as the project progresses and provide inputs during the Examination.

The Proposed Scheme would be an integral part of the future operation of the biomass generating stations, by capturing a by-product from the generation of electricity and reducing the carbon footprint in the process. In this way, the carbon capture plant is akin to a stack in a generating station; they are both an integral part of the electricity generation process.

The Proposed Scheme is therefore an extension of an existing generating station with capacity of more than 50 MW, so is a nationally significant infrastructure project ('NSIP'), as set out in the Planning Act 2008 (HM Government, 2008), Sections 14(1)(a) and 15(2). As such, the Applicant is required to request a DCO in order to construct and operate the Proposed Scheme.

			
Q4 2021	Q1/Q2 2022	Q2/Q3 2022	Q4 2022 / Q1 2023
Statutory Consultation stage	Application submission	Pre-Examination Period	Examination
Drax seeks views on its plans to install BECCS on up to two biomass units at Drax Power Station.	Drax intends to submit the DCO application in Spring 2022.	Should the DCO application be accepted, an Examining Authority would be appointed, comprised of one or more planning inspectors from the Planning Inspectorate.	A six-month examination of the application would then be undertaken, including hearings on key issues.

		
Q1/Q2 2023	Q3 2023	2024
Recommendation Period	Decision-making	Construction
The Examining Authority would prepare a report within 3 months of the close of examination, presenting their recommendation as to whether the DCO should be granted.	The Secretary of State would then have a further three months to make a final decision as to whether or not to grant the DCO for BECCS at Drax.	Proposed start of construction.



2029

Operation

Commercial operation of both BECCS units at Drax Power Station.

Providing your feedback

The consultation will be held from 1 November to 12 December 2021 and gives you the opportunity to provide your feedback or questions on our proposals for BECCS at Drax.



Online questionnaire at:
www.BECCS-Drax.com



Email us at:
info@BECCS-Drax.com



Write to us at:
FREEPOST CARBON
CAPTURE BY DRAX

Hard copy feedback forms and a deposit box will be provided at in-person consultation events.

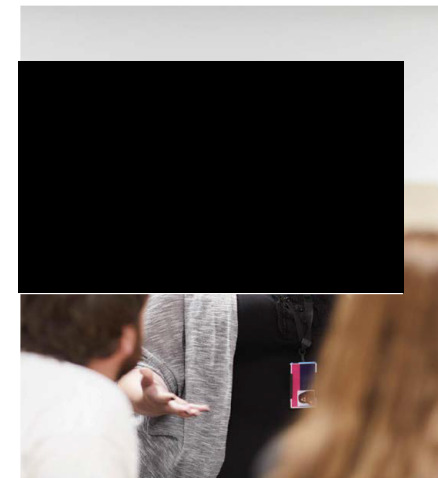
Please provide your feedback by 11.59pm on 12 December 2021.

We will be holding a series of online and in-person events as part of this consultation. This will give you the opportunity to find out more about the proposals and discuss your views directly with members of the project team face to face or on our online one-to-one chat function.

Through our online live-chat events, you can discuss your views and questions directly with members of the project team on our online one-to-one chat function. You don't need to book ahead, you simply need to go to our website during the event times and register, you will then be able to use the chat function.

The online live-chat events will be held on:

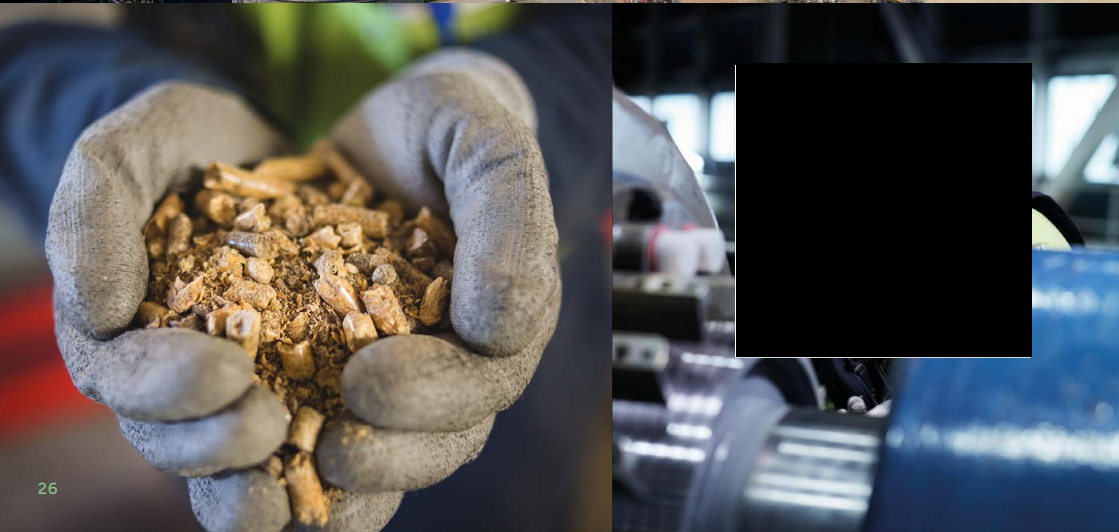
- Thursday 11 November 2021
10am – 2pm
- Thursday 18 November 2021
4pm – 8pm
- Wednesday 24 November 2021
2pm – 6pm



We will also be holding in-person exhibition events at the following dates and locations:

- Tuesday 23 November 2021,
12pm – 6pm (Drax Sport and Social Club Main Rd, Drax, Selby YO8 8PJ)
- Saturday 27 November 2021,
10am – 4pm (Junction Goole, Paradise Place, Goole DN14 5DL)
- Wednesday 1 December 2021,
1.30pm – 7.30pm (Selby Town Hall, York St, Selby YO8 4AJ)

All events will be held in line with COVID-19 restrictions and precautions. If it is not possible to hold in-person events due to restrictions relating to the COVID-19 pandemic, we would provide three further online events. We advise those interested in attending our in-person exhibitions to check our website for any updates to the events.



Throughout the consultation period, you can view hard copies of the consultation materials at the following locations:

Drax Sports and Social Club Main Road, Drax, YO8 8PJ 01757 618041	Monday	12pm – 10pm
	Tuesday	11am – 10pm
	Wednesday	12pm – 10pm
	Thursday	11am – 11pm
	Friday	12pm – 11pm
	Saturday	10am – 12pm
	Sunday	10am – 6pm
Selby Library 52 Micklegate, Selby, YO8 4EQ 01609 534521	Monday	9.30am – 7.30pm
	Tuesday	9.30am – 5.30pm
	Wednesday	9.30am – 5.30pm
	Thursday	9.30am – 12.30pm
	Friday	9.30am – 5.30pm
	Saturday	9.30am – 12pm
	Sunday	Closed
Snaith Library 27 Market Place, Snaith, Goole, DN14 9HE 01405 860096	Monday	Closed
	Tuesday	12pm – 6pm
	Wednesday	Closed
	Thursday	10am – 4pm
	Friday	Closed
	Saturday	10am – 12pm
	Sunday	Closed
Goole Library Carlisle Street, Goole, DN14 5DS 01405 762187	Monday	9.30am – 7pm
	Tuesday	9.30am – 7pm
	Wednesday	9.30am – 7pm
	Thursday	9.30am – 5pm
	Friday	9.30am – 5pm
	Saturday	9am – 4pm
	Sunday	Closed
Beverley Customer Service Centre 7 Cross St, Beverley HU17 6TB 01482 393939	Monday	9am – 5pm
	Tuesday	9am – 5pm
	Wednesday	9am – 5pm
	Thursday	9am – 5pm
	Friday	9am – 4.30pm
	Saturday	Closed
	Sunday	Closed

You can get in touch with
the Drax team on:



Email us at:
info@BECCS-Drax.com



Phone:
01757 618381



Post:
**FREEPOST CARBON CAPTURE
BY DRAX**

Subject to COVID-19 restrictions, we advise that members of the public check with the relevant venue regarding any restrictions that may be in place prior to visiting. In the event of needing to cancel the use of deposit points due to COVID-19 restrictions, materials will remain available online at www.BECCS-Drax.com. Hard copies of the materials will also be made available upon request, regardless of the COVID-19 situation.

If you would like a hard copy version of this brochure or other materials you find online, you can contact us using the details below. This brochure can also be made available in large print format, braille or other languages.

Your comments will be analysed by Drax and any of its appointed agents. Copies may be made available in due course to the Secretary of State, the Planning Inspectorate and other relevant statutory authorities so that your comments can be considered as part of the DCO application process. Responses may therefore be made public however we will request that your personal details are not placed on public record. Drax and its appointed agents will hold your personal details securely in accordance with applicable data protection legislation and will use them solely in connection with the consultation process and subsequent DCO application and, except as noted above, they will not be passed to third parties. Please refer to our Privacy Notice for more details [REDACTED]



Carbon Capture | by drax

beccs-drax.com



SECTION 48 PLANNING ACT 2008 – DRAX BIOENERGY WITH CARBON CAPTURE AND STORAGE

REGULATION 4 THE INFRASTRUCTURE PLANNING (APPLICATIONS: PRESCRIBED FORMS AND PROCEDURE) REGULATIONS 2009

REGULATION 13 THE INFRASTRUCTURE PLANNING (ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2017

NOTICE OF PROPOSED APPLICATION FOR A DEVELOPMENT CONSENT ORDER (DCO) FOR THE DRAX BIOENERGY WITH CARBON CAPTURE AND STORAGE PROJECT

1. Notice is hereby given that Drax Power Limited of Drax Power Station, Drax, Selby YO8 8PH (the "Applicant") proposes to make an application (the "Application") under section 37 of the Planning Act 2008 to the Secretary of State for Business, Energy and Industrial Strategy for a Development Consent Order ("DCO") to authorise the installation and operation of post combustion carbon capture technology to capture carbon dioxide from up to two existing 660 MWe biomass power generating units at the Drax Power Station (Unit 1 and Unit 2).
2. The Proposed Scheme would comprise of:
 - Up to two carbon capture plants (one per existing biomass unit), each made up of: a flue gas pre-treatment section (to include up to two gas / gas heat exchangers and one quench column), one absorber column, a solvent regeneration system (to include up to two regenerators), rich solvent / lean solvent heat exchangers, and ancillary systems related to the carbon capture process;
 - Common plant elements (used by one or both carbon capture plants) including modification to the existing cooling system and distribution of cooling water to the Proposed Scheme, modification to the existing biomass power generating units (Units 1 and 2) for extraction of steam and new infrastructure to meet required process conditions for distribution of steam to the Proposed Scheme, solvent storage and make-up system, carbon dioxide compression and processing plant, and carbon capture wastewater treatment plant;
 - Road modifications;
 - An Environmental Mitigation Area; and
 - Other works associated with the Proposed Scheme including site drainage, security infrastructure and site lighting infrastructure, as well as an area for temporary construction laydown.
3. The Site is approximately 290ha and comprises of the Drax Power Station Site, an Environmental Mitigation Area (the land to the north of Drax Power Station that may be used for environmental mitigation for the Proposed Scheme), and the Laydown Area to the east of Drax Power Station (temporary area required during the construction phase of the Proposed Scheme for the short-term storage of materials and temporary locations of construction offices, warehouses, workshops, open air storage areas, parking and related activities, which will be reinstated to its original state following demobilisation).
4. As an extension to an existing generating station with capacity of more than 50 MW, the Proposed Scheme is classed as a "Nationally Significant Infrastructure Project" under Section 14(1)(a) of the Planning Act 2008. The Applicant must therefore apply to the Secretary of State for a DCO, in order to construct, operate and maintain the Proposed Scheme.
5. The Application will seek the authorisation of the Proposed Scheme through the DCO. The DCO will include powers required to construct and operate the project including compulsory acquisition powers for the permanent acquisition of land and / or rights over land. The DCO may also include (if required) powers for the temporary occupation of land, the extinguishment or overriding of easements and other rights over or affecting land required for the Proposed Scheme, the application and / or disapplication of legislation relevant to the Proposed Scheme, highway powers and tree and hedgerow removal, amongst other matters.



Environmental Impact Assessment

6. The Applicant has notified the Secretary of State in writing under Regulation 8(1)(b) of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Regulations') that it proposes to provide an Environmental Statement ("ES") in respect of the Proposed Scheme. The Proposed Scheme is therefore 'EIA development' for the purposes of the EIA Regulations and an ES will form part of the Application for the Proposed Scheme.
7. The ES will provide a detailed description of the Proposed Scheme and its environmental effects, as well as other matters required by the EIA Regulations. The Applicant has prepared a Preliminary Environmental Information Report ("PEIR"), which sets out the Applicant's preliminary view of the likely significant effects of the Proposed Scheme based on the assessment undertaken to date as well as a non-technical summary of the PEIR. You can view the PEIR and the non-technical summary at:

[REDACTED]

Consultation Documents

8. The above documents and other information including a consultation brochure and plans showing the nature and location of the Proposed Scheme (together "the consultation documents") are available to view and comment on from **1 November to 12 December 2021** on the project website: [REDACTED] within the Consultation Documents page. They will also be available for inspection free of charge at the following locations and times (subject to COVID-19 restrictions, we advise that members of the public check with the relevant venue regarding any restrictions that may be in place prior to visiting):

Drax Sports and Social Club Main Road, Drax, YO8 8PJ 01757 618041	Monday 12pm-10pm; Tuesday 11am-10pm; Wednesday 12pm-10pm; Thursday 11am-11pm; Friday 12pm-11pm; Saturday 10am-12pm; Sunday 10am-6pm
Selby Library 52 Micklegate, Selby, YO8 4EQ 01609 534521	Monday 9:30am-7:30pm; Tuesday 9:30am-5:30pm; Wednesday 9:30am-5:30pm; Thursday 9:30am- 12:30pm; Friday 9:30am-5:30pm; Saturday 9:30am-12pm; Sunday Closed
Snaith Library 27 Market Place, Snaith, Goole, DN14 9HE 01405 860096	Monday Closed; Tuesday 2:00pm-6:00pm; Wednesday Closed; Thursday 10:00am-4:00pm; Friday Closed; Saturday 10:00am-12:00pm; Sunday Closed
Goole Library Carlisle Street, Goole, DN14 5DS 01405 762187	Monday, 9:30am-7pm; Tuesday, 9:30am-5pm; Wednesday, 9:30am-7pm; Thursday, 9:30am- 5pm; Friday, 9:30am-5pm; Saturday, 9am-4pm; Sunday, Closed
Beverley Customer Service Centre 7 Cross St, Beverley HU17 6TB 01482 393939	Monday, 9am-5pm; Tuesday, 9am-5pm; Wednesday, 9am-5pm; Thursday, 9am-5pm; Friday, 9am-4:30pm; Saturday, Closed; Sunday, Closed

9. If you have any enquiries in relation to the consultation documents, please contact us on 01757 618381.
10. The Applicant also plans to hold online and in-person events in the vicinity of the Proposed Scheme to provide an opportunity for the local community and stakeholders to view the proposals and speak to the project team. The events will be held on:

Tuesday 23 November 2021	Drax Sport and Social Club Main Rd, Drax, Selby YO8 8PJ	12pm – 6pm
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Saturday 27 November 2021	Junction Goole Paradise Place, Goole DN14 5DL	10am – 4pm
Wednesday 1 December 2021	Selby Town Hall York St, Selby YO8 4AJ	1.30pm – 7.30pm
Thursday 11 November 2021	Online event [REDACTED]	10am - 2pm
Thursday 18 November 2021	Online event [REDACTED]	4pm - 8pm
Wednesday 24 November 2021	Online event [REDACTED]	2pm - 6pm

11. If it is not possible to hold in-person events due to restrictions relating to the COVID-19 pandemic, the Applicant would provide three further online events in lieu of the exhibition events. In the event of needing to cancel the use of deposit points due to COVID-19 restrictions, materials will remain available online at www.BECCS-Drax.com. Hard copies of the materials will also be made available upon request, regardless of the COVID-19 situation.
12. Hard copies of the consultation documents are available on request. Copies of the consultation brochure and non-technical summary of the PEIR will be provided free of charge. Due to the size of the PEIR as a detailed technical document, a charge of £210 will incur for the printing and delivery of the PEIR upon request.
- Responding to this Notice**
13. If you wish to respond to this notice in respect of the Proposed Scheme, responses and representations may be submitted in the following ways:
- Website: www.BECCS-Drax.com
 - Email: info@BECCS-Drax.com
 - Mail: FREEPOST CARBON CAPTURE BY DRAX
14. When making a response or representation, please include your name, the organisation you are representing if applicable, and the address where correspondence relating to the Proposed Scheme can be sent.
15. All responses and representations must be received by the Applicant, Drax Power Ltd, no later than **11.59pm on 12 December 2021**. If you have any questions about the Proposed Scheme, you can contact us on the above details or by telephone at: 01757 618381.
16. Your comments will be analysed by the Applicant and any of its appointed agents. Copies may be made available in due course to the Secretary of State, the Planning Inspectorate and other relevant statutory authorities so that your comments can be considered as part of the DCO application process. Responses may therefore be made public however we will request that your personal details are not placed on public record. The Applicant and its appointed agents will hold your personal details securely by in accordance with applicable data protection legislation and will use them solely in connection with the consultation process and subsequent DCO application and, except as noted above, they will not be passed to third parties. Please refer to our Privacy Notice for more details: [REDACTED]

Drax Power Ltd
November 2021

B2 - The Planning Inspectorate acknowledgement
(letter by email) of the section 46 letter



National Infrastructure Planning
Temple Quay House
2 The Square
Bristol, BS1 6PN

Customer: 0303 444 5000
e-mail: DraxBECCS@planninginspectorate.gov.uk

By email only

Your Ref:

Our Ref: EN010120

Date: 29 November 2021

Dear Mr Doyle

Planning Act 2008 (PA2008) – Section 46 and The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 – Regulation 8

Proposed application by Drax Power Limited for an Order Granting Development Consent for the Drax Bioenergy with Carbon Capture and Storage Project

Acknowledgement of receipt of information concerning proposed application

Thank you for your letter of 29 October 2021 and the following documentation:

- Drax BECCS Section 46 Letter
- Enclosure i – Copy of the Section 42 letter
- Enclosure ii – Consultation Brochure
- Enclosure iii – Section 48 Notice published in newspapers

I acknowledge that you have notified the Planning Inspectorate of the proposed application for an order granting development consent for the purposes of section 46 of the PA2008 and supplied the information for consultation under section 42. The following reference number has been given to the proposed application, which I would be grateful if you would use in subsequent communications:

EN010120

I also acknowledge notification in accordance with Regulation 8(1)(b) of The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 that you propose to provide an Environmental Statement in respect of the proposed development.

I will be your point of contact for this application – my contact details are at the end of this letter.

The role of the Planning Inspectorate in the application process is to provide independent and impartial advice about the procedures involved and to have open discussions with potential applicants, statutory bodies and others about the processes and requirements of the new regime. It is important that you keep us accurately informed of your timetable and any changes that occur.

We will publish advice we give to you or other parties on our website and, if relevant, direct parties to you as the Applicant. We are happy to meet at key milestones and/or provide advice as the case progresses through the Pre-application stage.

Once you have prepared draft documents we are able to provide technical advice, in particular on the draft Development Consent Order, draft Explanatory Memorandum, the draft Consultation Report and any draft Habitats Regulations Assessment. You may therefore wish to build this into your timetables.

In the meantime, you may wish to have regard to the guidance and legislation material provided on our website including The Infrastructure Planning (Fees) Regulations 2010 (as amended) and associated guidance, which you will need to observe closely in establishing the correct fee to be submitted at the successive stages of the application process.

When seeking to meet your Pre-application obligations you should also be aware of your obligation under the current data protection legislation to process personal data fairly and lawfully.

If you have any further queries, please do not hesitate to contact me.

Yours sincerely,

Sian Evans

Sian Evans
Case Manager

Tel. 0303 444 5671

Email. SIAN.EVANS@planninginspectorate.gov.uk

This communication does not constitute legal advice.

Please view our [Privacy Notice](#) before sending information to the Planning Inspectorate.

<https://infrastructure.planninginspectorate.gov.uk>

