# **CCUS East Coast Cluster Network Optimisation – Projects Market Survey**

Following last year’s contract awards to the Northern Endurance Partnership (NEP) and Net Zero Teesside (NZT), we are launching a short market-sounding exercise to gauge interest in future connections to the East Coast Cluster (ECC) in Teesside.

We continue to explore optimisation of the existing network, and projects are invited to provide up-to-date information on their scale, expected CO₂ volumes and delivery timelines, and to register their interest in accessing the cluster’s Teesside-based transport-and-storage network. This exercise therefore does not relate to projects looking to connect via a future Humber pipeline.

If you are unable to respond to all the questions listed below, we still encourage you to submit a response to the survey. Interested projects are invited to complete and submit a market survey to [ccustrack1clusters@energysecurity.gov.uk](mailto:ccustrack1clusters@energysecurity.gov.uk) by close of play on **Thursday 28 August.**

Please note, participation in this exercise does not constitute entry into a selection process nor is there any guarantee that a selection process will be run in the future or that any subsidy support will be available.

### **Confidentiality and data protection**

If you want the information that you provide to be treated as confidential please tell us, but be aware that, in light of our statutory obligations (such as those set out below), we cannot guarantee confidentiality in all circumstances. An automatic confidentiality disclaimer generated by your IT system will not be regarded by us as a confidentiality request.

Information you provide in response to this market survey, including personal information, may be disclosed in accordance with UK legislation (the Freedom of Information Act 2000, the Data Protection Act 2018 and the Environmental Information Regulations 2004).

We will process your personal data in accordance with all applicable data protection laws and in the same way as information which is provided in response to consultations, as set out in this [privacy notice](https://www.gov.uk/government/publications/desnz-consultations-privacy-notice/privacy-notice-relating-to-consultation-responses-received-by-desnz).

We may share relevant data within government and with external advisors. The market survey team may also contact you directly to clarify responses or for further engagement. Please indicate if you consent to DESNZ disclosing Sections A–D to the Northern Endurance Partnership (NEP), to support their role as the licensed T&Sco in developing the ECC network.

* Yes
* No

For queries related to the below questions, confidentiality and/or data handling, please use the email contact above.

For all questions, please make clear any differences between different phases of project if relevant.

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| **Question** | **Response** | |
| **A - Project Overview**  This section captures key details of the project, including its name, type (e.g. new build, retrofit), location and size, as well as the lead and partner organisations involved and their respective roles. It also records the relevant sector and the most applicable Business Model, noting that this information will inform—but does not constitute—any formal application for Business Model support. | | |
| 1. **Capture project name**     *(Including acronym if used)* |  | |
| 1. **Capture project type**   *(New build, retrofit, rebuild and/or other)* |  | |
| 1. **Capture project location or** **proposed location**   If known, please indicate longitude/latitude in Coordinate Reference System (CRS) or World Geodetic System1984 (WGS84) (e.g. from Google Maps) and plant size estimated in hectares (ha). If flexible, please indicate "flexible". |  | |
| 1. **Lead company and/or organisation name** |  | |
| 1. **Partner organisations**   Please outline the role played by partner organisations to project. | **Partner**  **Organisation** |  |
|  | **Role** |  |
| 1. **Sector application and associated Business Model**   Please select in which sector you are applying carbon capture, and which Business Model (BM) is most appropriate to your project (if applicable).  Please note that (a) this doesn’t constitute an application for a specific Business Model (BM) and (b) we are considering how to enable users that do not require BM support, and as such, those projects should still indicate the sector in which they are applying carbon capture. | Please select your sector:   * Industry * Waste Management * Dispatchable Power * Greenhouse Gas Removals (GGRs) (excluding Power BECCS) * Power BECCS * Hydrogen Production | Please select which BM is most appropriate:   * [Industrial Carbon Capture (ICC)](https://www.gov.uk/government/publications/carbon-capture-usage-and-storage-ccus-business-models) * [Waste ICC](https://www.gov.uk/government/publications/carbon-capture-usage-and-storage-ccus-business-models) * Dispatchable [Power](https://www.gov.uk/government/publications/carbon-capture-usage-and-storage-ccus-business-models) Agreement * [GGRs](https://www.gov.uk/government/publications/greenhouse-gas-removals-ggr-business-model) Business Model * [Power BECCS](https://www.gov.uk/government/publications/greenhouse-gas-removals-ggr-business-model) * [Hydrogen Production Business1 Model](https://www.gov.uk/government/publications/hydrogen-production-business-model%22%20/h%20HYPERLINK%20%22https://www.gov.uk/government/publications/hydrogen-production-business-model) * Not seeking BM support |
| 1. **Opportunity to provide any further relevant information of your projects headline benefits**   Please provide information e.g. social benefits: job creation |  | |
| **B - Schedule**  This section captures the expected timeline for each project development stage—feasibility, Pre-FEED, FEED, FID, and COD—along with any key planning, permitting, or scheduling dependencies. It also requests the anticipated lifespan of the facility and, if different, the capture plant. | | |
| 1. **Proposed dates**   If available, please provide expected start and end dates for project feasibility, Pre-FEED, FEED, FID and COD. This can be in estimates if you are a low maturity project.  If applicable, please attach or provide any further information on project plans & schedules; planning consent process dates & permits and key timeline dependencies. | |  |  |  | | --- | --- | --- | | **Stage** | **Expected Start** | **End** | | *Feasibility* |  |  | | *Pre-FEED* |  |  | | *FEED* |  |  | | *FID* |  |  | | *COD* |  |  |   *Further Information:* | |
| 1. **Project lifespan**   Please provide expected lifespan of the underlying facility (and, if different, the capture plant). |  | |
| 1. **Please provide any further relevant information to your project schedule**   Such as key dependencies or assumptions to make the above timeline work |  | |
| **C - Capture Project Overview**  This section covers the CO₂ capture project’s technology, feedstocks, and outputs, along with expected volumes, capture rate, and carbon abatement. | | |
| 1. **Capture project overview**   Please outline the proposed CO2 technology approach, key project feedstocks and outputs (including co-products and products of any underlying facility). |  | |
| 1. **Capture volumes**   Please outline the volume of CO2 expected to be captured each year of operations. | **Peak instantaneous flow (tph)** | **Typical annual flow (Mtpa)** |
|  |  |
| 1. **Future capture and project phases**   Please indicate if your expected capture volumes may change over the lifetime of the project, including any future phases planned. |  | |
| 1. **Capture rate**   Please outline the expected % capture rate (ratio of pure CO2 sent to T&S relative to pure CO2 in the specific source/exhaust stream sent to capture plant). |  | |
| 1. **Carbon abated**   Please outline the expected CO2 emission to be avoided, relative to the current operations baseline, by the proposed CCUS development (Mtpa). |  | |
| 1. **Capture profile**   Please outline the expected capture profile and indicate any variations e.g. dispatchable operation, or if profile is likely to vary by time, day, seasonally etc. |  | |
| 1. **Specific capture profiles**   Please outline what net removals\* (if any) the project anticipates?  If a GGR or pBECCS project, please indicate specific capture profiles.  \* Removal quantification must follow BSI FLEX 2006 for BECCS and BSI Flex 2007 for DACCS [to be published in July 2025]. Quantification for some variants of BECCS, such as Energy from Waste, are not fully detailed in the BSI documents. These projects should follow the BSI BECCS Flex 2006 as closely as possible, adapting where needed to the specificities of their feedstocks, process and products. |  | |
| 1. **Flexible capacity access to the network**   In the future connections based on ‘flexible capacity’ may be considered.  These could see right-to-flow onto the network being interruptible, to help balance the network and lead to lower fees, and more projects being able to access T&S over-all.  Would you be interested in flexible capacity?  If yes, please describe any minimum requirements and any further comments you may have. |  | |
| 1. **Utilisation**   Some projects may seek to offer the facility for captured CO2 off-take by 3rd parties, for utilisation not storage.  If your project intends to offer this facility, please explain and set out quantity and predictability |  | |
| **D - Network Interface**  This section covers the relationship with the Northern Endurance Partnership (NEP) and outlines the proposed connection to the Transport and Storage System, noting whether a spur line is required. | | |
| 1. **T&SCo relationship**   If held, a summary of the relationship with NEP (e.g. MoU or Collaboration agreement). |  | |
| 1. **Proposed connection to Transport and Storage System**   If known, please specify the type of connection to the network and if a spurline/pipeline is planned.  Where relevant please outline work completed and any build assumptions  Please indicate if you have a preferred connection point (AGI) based on NEP's current network design. |  | |
| **E- Costs and Financing**  This section captures the project’s commercial and funding context, including interaction with other government schemes, reliance on CCUS funding for delivery timelines, and the overall commercial plan. It also asks whether the project has received or anticipates needing CCUS subsidy support, including for cross-chain risks. | | |
| 1. **CCUS funding requirement**   Does the project anticipate applying for CCUS subsidy support to access and operate their carbon capture facility and/or cover for transport and storage network fees? | * Yes * No | |
| 1. **CCUS Cross Chain risk support**   What cross-chain risks does the project anticipate and what levels of protection would be required to resolve these risks? |  | |
| 1. **Participation with other Government Schemes**   Outline whether the project anticipates interaction and/or participation with any other Government Schemes, or has previously, including previously being in receipt of government subsidy.  If yes, please outline which government scheme and what the level of interaction is (e.g. receiving subsidy support from X department for X scheme) |  | |
| 1. **Commercial Plan**   Outline briefly the potential commercial plan for the project. This should briefly cover funding routes (established funding, debt, equity, future funding rounds), expected revenue streams (with estimated values) and progress on relevant agreements to date (e.g. heads of terms). |  | |
| 1. **Costs**   Please provide, where possible, best estimates of costs of capture project development, construction, operation, connection and integration into T&S network over a potential 15-year operational period. | |  |  | | --- | --- | | **Cost** | **Costs (£millions, 2025 prices)** | | *Devex* |  | | *Capex* |  | | *Opex (pa)* |  | | *T&S Capex* |  | | *Total* |  |     *Further Information:* | |
| **F - Contact Information** | | |
| **Contact details**  If possible, please provide lead contact(s) for this project and any website links to relevant organisations and/or projects. | Name(s):  Email(s):  Links: | |

# Tables

**Table 1 - Acronyms**

**Table 2 - Definitions**

## Acronyms

**Table 1 - Acronyms**

|  |  |
| --- | --- |
| Acronym | Definition |
| BECCS | Bioenergy with Carbon Capture & Storage |
| CapEx | Capital Expenditure |
| CfD | Contract for Difference |
| CO₂ | Carbon Dioxide |
| COD | Commercial Operation Date |
| DACCS | Direct Air Carbon Capture & Storage |
| DevEx | Development Expenditure |
| DESNZ | Department for Energy Security and Net Zero (formerly a part of BEIS) |
| DfT | Department for Transport |
| DPA | Dispatchable Power Agreement |
| DPA 2018 | Data Protection Act 2018 |
| EA | Environment Agency |
| ECC | East Coast Cluster |
| EfW | Energy from Waste |
| EIR | The Environmental Information Regulations 2004 |
| EOI | Expression of Interest |
| FEED | Front-End Engineering Design |
| FID | Final Investment Decision |
| GDPR | UK General Data Protection Regulation |
| GGR | Greenhouse Gas Removal |
| GHG | Greenhouse Gases |
| HMG | His Majesty’s Government |
| ICC | Industrial Carbon Capture |
| LCCC | Low Carbon Contracts Company |
| LCHS | Low Carbon Hydrogen Standard |
| MtCO₂ | Megatonnes of CO₂ |
| Mtpa | Megatonnes (of CO2) per annum |
| NEP | Northern Endurance Partnership |
| NPT | Non-Pipeline Transportation |
| OpEx | Operating Expenditure |
| pa | Per annum |
| pBECCS | Power Bioenergy with Carbon Capture and Storage |
| SAF | Sustainable Aviation Fuel |
| T1 | Track-1 |
| T1x | Track-1 Expansion |
| T&S | Transport and Storage Network |
| T&S Co | Transport and Storage Company is a licensed company operating and maintaining a T&S Network (T&S Operator) |

## Definitions

**Table 2 - Definitions**

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| Term | Definition |
| Applicant | Legal entity that intends to apply for support, and will be taken through to negotiations if successful (see also Project Representative). |
| Business Model(s) | Contract mechanisms to support the implementation and operation of CCUS Clusters. |
| CCS or CCUS | Carbon Capture and Storage or Carbon Capture, Usage and Storage |
| Cluster | T&S Network (incorporating the onshore and offshore network and offshore storage facility) and associated capture Projects. |
| Commercial Operation Date (COD) | The date the plant is confirmed to meet the Operational Conditions Precedent (OCPs) and the Project begins operating and transporting captured CO₂ emissions to permanent storage. |
| Cross Chain | All elements of the cluster including development, delivery and operation of all emitters as well as Onshore, Offshore and storage infrastructure. |
| Engineered Greenhouse Gas Removal (GGR) | Projects that ultimately achieve atmospheric CO₂ removal and require geological storage (CCS) to do so (achieving ‘negative emissions’). For the purpose of the Application Guidance, this includes Projects such as DACCS and BECCS, and excludes engineered GGR Projects that do not require CCS access, such as enhanced weathering. |
| Final Investment Decision (FID) | FID is the point in the project planning process when the decision to make major financial commitments is taken and contracts are signed for engineering, procurement, and construction. |
| Hydrogen Production | CCUS-enabled hydrogen production. |
| Offtaker (hydrogen) | In the context of the Track-1 Expansion process, an offtaker is both the end user of low carbon hydrogen and, where relevant, any intermediary party who may purchase and resell hydrogen to end users. Where there is an intermediary party or where end users do not purchase hydrogen directly from producers, information and evidence of both end users and the intermediary need to be included in the submission form and templates. |
| Onshore | The onshore element of the CO₂ transportation network which may include intermediate CO₂ storage for T&S operational purposes. Note this excludes non-pipeline transportation, road, rail, and inland waterway transportation. |
| Project | Power CCUS, ICC including Waste ICC, Hydrogen, GGRs or pBECCS production facility – including carbon dioxide emission source(s) targeted for abatement – development and its associated CO₂ capture facilities, that will be assessed in the Track-1 Expansion process. |
| Storage | Geological store for the captured CO₂ from the end of the injection well. |
| Transport & Storage Network (T&S Network) | The network consisting (wholly or mainly) of:  • pipelines used for the transportation of captured carbon dioxide from one capture plant to a storage facility or to or from any T&S Network; or  • pipeline routes used for the transportation of captured carbon dioxide from one capture plant to a storage site or to or from any T&S Network; and  • storage site for the geological storage of carbon dioxide. |