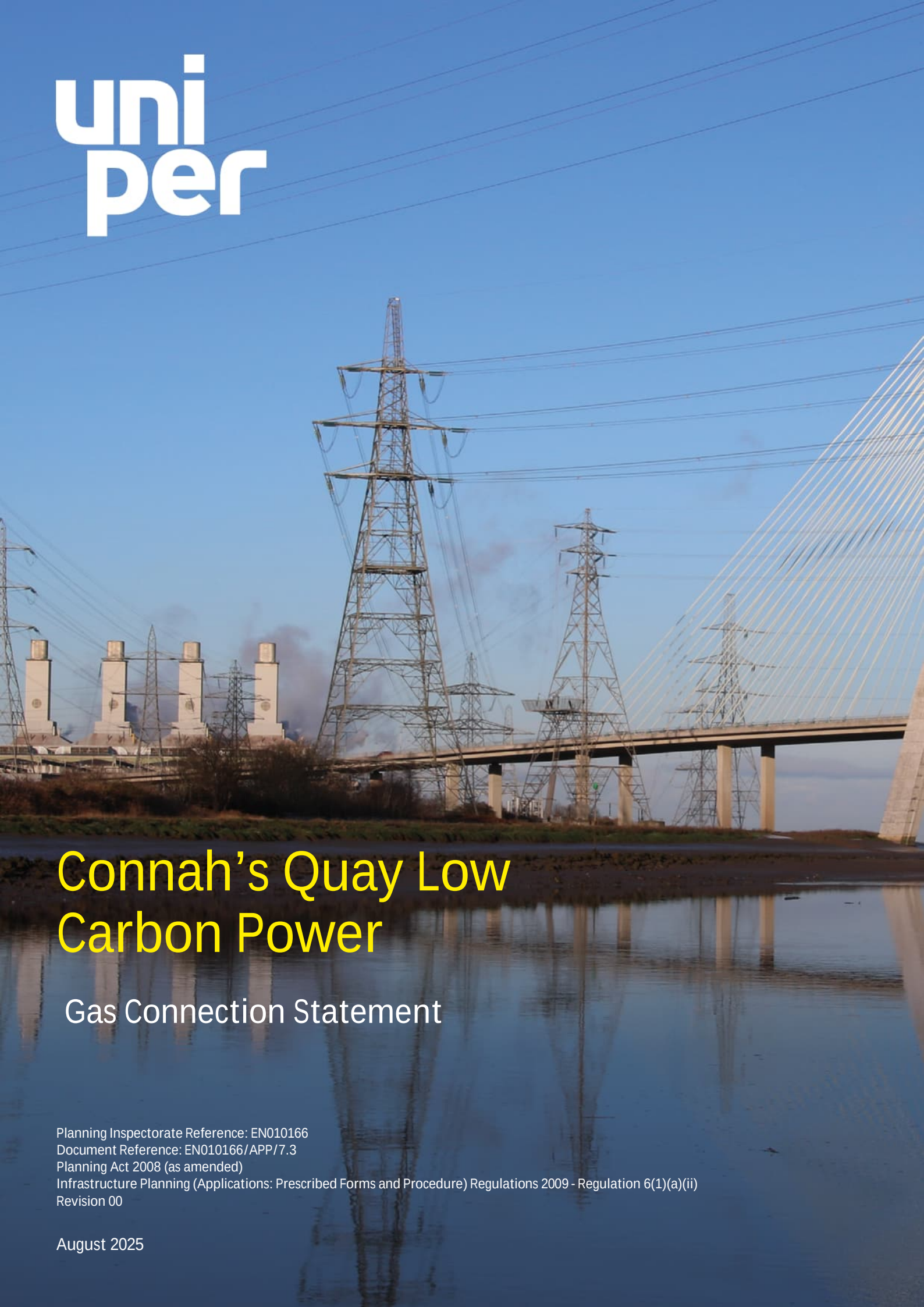

Connah's Quay Low Carbon Power

Gas Connection Statement

Planning Inspectorate Reference: EN010166
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Prepared for:
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Executive Summary

1.1.1 Uniper UK Limited (the Applicant) is seeking a Development Consent Order (DCO) for the construction, operation (including maintenance), and decommissioning of a proposed low carbon Combined Cycle Gas Turbine (CCGT) Generating Station fitted with Carbon Capture Plant (CCP) (the Proposed Connah's Quay Low Carbon Power (CQLCP) Abated Generating Station) and supporting infrastructure (collectively the Proposed Development).

1.1.2 The CQLCP Abated Generating Station would comprise up to two CCGT with CCP units (and supporting infrastructure, including connections for cooling water, electrical, gas and utilities, construction laydown areas and other associated development) achieving a net electrical output capacity of more than 350 megawatts (MW; referred to as MWe for electrical output) and up to a likely maximum of 1,380 MWe (with CCP operational) onto the national electricity transmission network.

1.1.3 Through a carbon dioxide (CO_2) pipeline, comprising existing and new elements, the Proposed Development would make use of CO_2 transport and storage networks owned and operated by Liverpool Bay CCS Limited, currently under development as part of the HyNet Carbon Dioxide Pipeline project (referred to as the HyNet CO_2 Pipeline Project), that will transport CO_2 captured from existing and new industries in North Wales and North West England, for offshore storage. The captured CO_2 will be permanently stored in depleted offshore gas reservoirs in Liverpool Bay. The Proposed Development would therefore make a significant contribution toward the UK reaching its Net Zero greenhouse gas emissions target by 2050.

1.1.4 This document sets out who would be responsible for designing and building the proposed gas connections (the Natural Gas Connection and The Carbon Dioxide Connection) for the Proposed Development and demonstrates that there is no reason why either connection would not be possible.

1.1.5 The Applicant will continue to be responsible for the operation (including maintenance) of the existing natural gas transmission pipeline (the Natural Gas Connection) immediately upstream of the Proposed Development from the existing Burton Point Above Ground Installation (AGI). There are no modifications proposed to this pipeline as part of the Proposed Development. The Burton Point AGI forms the interface between the National Transmission System (NTS) (owned and operated by National Gas Transmission plc (NGT)) and the assets owned and operated by the Applicant. This lies around 1.5 kilometres (km) north-east of the boundary of the Main Development Area.

1.1.6 The indicative pipe connection route from the existing Connah's Quay AGI, inside the boundary of the Main Development Area to the new Generating Station is shown on the **Indicative Gas Supply Pipeline Connection Plans and Gas Above Ground Installation Plans** (**EN010166/APP/7.18**).

1.1.7 The Applicant has an existing contract with NGT which will continue to be suitable for the supply of natural gas to the Proposed CQLCP Abated Generating Station. All works to be undertaken on the gas connection are within the Main Development Area and under the ownership of the Applicant

and, as such, no change to existing contractual arrangements or requirement for new external agreement to enable works is anticipated.

1.1.8 The Proposed CQLCP Abated Generating Station would also connect with the HyNet CO_2 Pipeline project[1] for the purposes of transporting captured CO_2 from the generating site for permanent sequestration in Liverpool Bay.

1.1.9 The connection from the proposed CQLCP Abated Generating Station to the HyNet CO_2 Pipeline will be made by repurposing the now-redundant gas pipeline which was previously used to supply natural gas to the existing Connah's Quay Power Station from Liverpool Bay.

1.1.10 Liverpool Bay CCS Limited will be responsible for:

- the construction, maintenance, operation and decommissioning of the Proposed CO_2 Connection; the construction, maintenance, operation and decommissioning of the Proposed CO_2 AGI;
- the maintenance and operation of the Repurposed CO_2 Connection; and
- the construction, maintenance, operation and decommissioning of the HyNet CO_2 Pipeline Project (which is already consented under a separate DCO) downstream of the Proposed Development.

[1] https://national-infrastructure-consenting.planninginspectorate.gov.uk/projects/EN070007

1. Introduction

1.1 Overview

1.1.1 This **Gas Connection Statement** (**EN010166/APP/7.3**) has been prepared by AECOM on behalf of the Applicant. It forms part of the application (the Application) for a DCO, that has been submitted to the Secretary of State (SoS), under Section 37 of The Planning Act 2008 (the 2008 Act) (Ref 1).

1.1.2 The Applicant is seeking a DCO for the construction, operation (including maintenance), and decommissioning of a proposed low carbon CCGT Generating Station fitted with CCP (the Proposed CQLCP Abated Generating Station, part of the Proposed Development) on land at, and in the vicinity of, the existing Connah's Quay Power Station (Kelsterton Road, Connah's Quay, Flintshire, CH6 5SJ), North Wales (the Order limits).

1.1.3 The Proposed Development includes the proposed CQLCP Abated Generating Station, which would generate more than 350 MWe (up to a likely maximum of 1,380 MWe) gross electrical output, equipped with CCP and fuelled by natural gas, on land at, and in the vicinity of, the existing Connah's Quay Power Station, including connections for cooling water, electrical, gas and utilities, construction laydown areas and other associated development. It is described in **Chapter 4: The Proposed Development** of the **Environmental Statement** (**ES**) (**EN010166/APP/6.2.4**).

1.1.4 The Proposed Development falls within the definition of a 'Nationally Significant Infrastructure Project' (NSIP) under Section 14(1)(a) and Sections 15(1) and (3A) of the 2008 Act, as it is an onshore generating station in Wales that would have a generating capacity more than 350 MWe. As such, a DCO application is required to authorise the Proposed Development in accordance with Section 31 of the 2008 Act.

1.2 The Applicant

1.2.1 The Applicant is a United Kingdom-based (UK) company, wholly owned by Uniper SE (Uniper) through Uniper Holding GmbH. Uniper is a European energy company with global reach and activities in more than 40 countries. With around 7,500 employees, the company makes an important contribution to security of supply in Europe, particularly in its core markets of Germany, the UK, Sweden, and the Netherlands. In the UK, Uniper owns and operates a flexible generation portfolio of power stations, a fast-cycle gas storage facility and two high pressure gas pipelines, from Theddlethorpe to Killingholme and from Blyborough to Cottam.

1.2.2 Uniper is committed to investing around €8 billion (~£6.9 billion) in growth and transformation projects by the early 2030s and aims to be carbon-neutral by 2040. To achieve this, the company is transforming its power plants and facilities and investing in flexible, dispatchable power generation units. Uniper is one of Europe's largest operators of hydropower plants and is helping further expand solar and wind power, which are essential for a more sustainable and secure future. Uniper is gradually adding renewable and low-carbon gases such as biomethane to its gas portfolio and is developing a

hydrogen portfolio with the aim of a long-term transition. The company plans to offset any remaining CO2 emissions by high-quality CO2-offsets.

1.3 What is Carbon Capture and Storage?

1.3.1 Carbon capture and storage (CCS) is a key part of the process to reduce carbon emissions in energy generation. It involves the removal and capture of CO_2 from power plant emissions, transporting it away to be securely stored underground, often in aquifers or depleted oil and gas fields.

1.3.2 CCUS also refers to carbon capture and storage but with the 'U' referring to utilisation of the captured CO_2. Captured CO_2 can be used for a variety of industrial purposes, such as the production of synthetic fuel and low carbon building materials, or in the food and beverage industry.

1.4 The Proposed Development

1.4.1 The Proposed Development would comprise a new electricity generating station, made up of up to two 'Trains' (whereby a 'Train' refers to each CCGT unit and associated CCP and the supporting development within the Main Development Area required to operate) with combined electrical output of more than 350 MWe (up to a likely maximum of 1,380 MWe), equipped with CO_2 capture equipment and associated buildings, structures and plant and other associated development defined in the Schedule 1 of the **Draft DCO** (**EN010166/APP/3.1**) as Work No. 1 and shown on the **Works Plans** (**EN010166/APP/2.4**).

1.4.2 At this stage, the final technology selection cannot yet be made as it will be determined by various technical and economic considerations and will be influenced by future UK Government policy and regulation. The design of the Proposed Development therefore incorporates a necessary degree of flexibility to allow for the future selection of the preferred technology in the light of prevailing policy, regulatory and market conditions, should the DCO be made.

1.4.3 A description of the Proposed Development, including details of maximum parameters, is set out in **Chapter 4: The Proposed Development** of the **Environmental Statement (ES) (EN010166/APP/6.2.4)**. At this stage in the development, the design of the Proposed Development incorporates a necessary degree of flexibility to allow for ongoing design development.

1.4.4 The Proposed Development is split into 13 Work Nos. and also includes Site Wide Works, which may be carried out in connection with the construction of Work Nos. 1 to 13, as follows:

- **Work No. 1** – A CCGT electricity generating station of more than 350 MW with CCP and ancillary buildings and structures within the Main Development Area. This includes:
  - up to two combined cycle gas turbine plants;
  - up to two carbon dioxide (CO_2) capture plants;
  - plant cooling and utilities infrastructure;
  - natural gas reception facility;

  - carbon dioxide interface facility;
  - administration, control room and stores;
  - demolition of existing buildings and structures including the existing gas treatment plant;
  - demolition of the existing ENI Above Ground Installation (AGI); and
  - various ancillary works.
- **Work No. 2** – Infrastructure connection works, including:
  - works to connect to an existing high pressure gas supply pipeline running within the existing power station site;
  - underground and potentially overground electrical cables and control system cables to connect Work No. 1 to switch disconnectors;
  - new connections and improvements to existing water pipelines between Work No. 1 and the supply point north of Kelsterton Road; and
  - cooling water connections from Work No. 3 to Work No. 1.
- **Work No. 3** – Water supply connection works to provide cooling water to Work No. 1 and discharge of used cooling water and treated process water. This Work comprises works to the existing cooling water supply pipelines between Work No. 1 and the River Dee and the existing intake structures within the River Dee between the existing concrete manifold and existing protection structure.
- **Work No. 4** – Temporary construction and laydown areas.
- **Work No. 5** – Construction of a surface water discharge.
- **Work No. 6** – Electrical connection works for the export and import of electricity, including works within the existing National Grid substation.
- **Work No. 7** – Construction of an underground Carbon Dioxide (CO_2) pipeline approximately 422 metres in length between Work No. 8 and the existing repurposed natural gas pipeline (to be used for CO_2).
- **Work No. 8** – Modification of an AGI at Flint to connect the CO_2 pipeline into the HyNet CO_2 Pipeline.
- **Work No. 9** – The creation and use of a temporary logistics and construction compound for the use during the construction.
- **Work No. 10** – Works to provide site access.
- **Work No. 11** – Temporary accommodation works to facilitate haulage route access between the Port of Mostyn and Work No. 1, including the temporary removal of a gate and fence adjacent to the railway and subsequent reinstatement.
- **Work No. 12** – Re-establishment and use of waterborne transport offloading facilities at Connah's Quay North (known as the Corus Jetty) south of Flintshire Bridge and temporary accommodation works to facilitate the haulage route on existing roads between Connah's Quay North and Work No. 1.

- **Work No. 13** – Landscaping, biodiversity enhancement measures and boundary treatment.
- **Site Wide Works** – Further associated and ancillary development comprising such other works or operations as may be necessary or expedient.

1.4.5 All of the above elements are included in the Application.

1.4.6 A full description of the elements of the Proposed Development and the Works Nos. is set out in Schedule 1 of the **Draft DCO** (**EN010166/APP/3.1**). The further associated and ancillary development required in connection with and subsidiary to the above elements of the Proposed Development is also detailed at Schedule 1 of the **Draft DCO** (**EN010166/APP/3.1**).

1.4.7 The undertaker (as defined in the **Draft DCO** (**EN010166/APP/3.1**)) would be responsible for the construction, operation (including maintenance) and eventual decommissioning of the Proposed Development.

1.4.8 The Proposed Development includes the equipment required for the capture and compression of CO_2 emissions from the generating station so that it is capable of being transported off-site. The Proposed Development would make use of transport and storage networks owned and operated by Liverpool Bay CCS Limited, currently under development as part of the HyNet CO_2 Pipeline Project, that will transport CO_2 captured from existing and new industries in North Wales and North West England, for offshore storage. The captured CO_2 would be stored in depleted offshore gas reservoirs in an area located within Liverpool Bay.

1.4.9 The Proposed Development is designed to operate with a post-combustion CCP installed and would generally be operated as a dispatchable low carbon generating station. It is anticipated that in the event of CCP maintenance outages, for example, it would be necessary to operate the Proposed Development without carbon capture, with exhaust gases from the CCGT being routed via the Heat Recovery Steam Generator (HRSG) stack.

1.4.10 **Chapter 4: The Proposed Development** of the **ES** (**EN010166/APP/6.2.4**) provides further description of the Proposed Development. The areas within which each numbered Work (component) of the Proposed Development are to be built are defined by the coloured and hatched areas on the **Works Plans** (**EN010166/APP/2.4**).

1.5 The Order limits

1.5.1 The Order limits are located approximately 0.6 km north-west of Connah's Quay in Flintshire, north-east Wales. The Main Development Area is centred approximately at national grid reference 327347, 371374, and, together with the Proposed CO_2 Connection Corridor, Repurposed CO_2 Connection Corridor, Electrical Connection Corridor, Water Connection Corridor, Construction & Indicative Enhancement Area, and ancillary works to access roads and minor assets, is wholly within the administrative area of Flintshire County Council (FCC).

1.5.2 The existing Connah's Quay Power Station is a four-unit combined CCGT plant providing 1,380 MW of dispatchable power exported to the National Grid.

1.5.3 The Order limits encompass a total area of approximately 104.90 hectares (ha).

1.5.4 The Order limits cover areas including:

- Main Development Area;
- Repurposed CO_2 Connection Corridor;
- Proposed CO_2 Connection Corridor;
- Water Connection Corridor;
- Electrical Connection Corridor;
- Construction & Indicative Enhancement Area; and
- Accommodation Work Areas.

1.6 The Development Consent Process

1.6.1 As an NSIP project, the Applicant is required to obtain a DCO to construct, operate and maintain the generating station, under Section 31 of the 2008 Act. Sections 42 to 48 of the 2008 Act govern the consultation that the Applicant must carry out before submitting an application for a DCO and Section 37 of the 2008 Act governs the form, content and accompanying documents that are required as part of a DCO application. These requirements are implemented through the Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 (as amended) ('APFP Regulations') (Ref 2) which state that an application must be accompanied by an ES, where a development is considered to be 'Environmental Impact Assessment (EIA) development' under the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the EIA Regulations) (Ref 3).

1.6.2 An application for development consent for the Proposed Development has been submitted to the Planning Inspectorate (PINS) acting on behalf of the SoS. Subject to the Application being accepted (which will be decided within a period of 28 days following receipt of the Application), PINS will then examine it and make a recommendation to the SoS, who will then decide whether to make (grant) the DCO.

1.7 The Purpose and Structure of this Document

1.7.1 The purpose of this document is to meet the requirements of Regulations 5(2)(p), 6(1)(a)(ii) and 6(4) of the APFP Regulations, which require the Applicant to provide a statement setting out who would be responsible for designing and building the proposed natural gas and CO_2 connections to the Proposed Development and to provide details of the proposed pipeline (name, owner, start and end points, length in km, external diameter in millimetres (mm), what would be conveyed, and whether any rights in land or consents for road or river crossings are required and can be obtained by agreement).

1.7.2 The document is structured as follows:

- Section 2 sets out the proposed gas and CO_2 pipelines, including the name, route, length, points of connection (start and end points) and diameter;
- Section 3 outlines contractual agreements for the proposed Natural Gas Connection and CO_2 Connection;
- Section 4 provides details on the design, build, operation and maintenance responsibilities for the proposed Natural Gas Connection and CO_2 Connection, including ownership of the connections;
- Section 5 outlines land ownership in respect of the land required for the proposed Natural Gas Connection and CO_2 Connection;
- Section 6 provides information on the consents required for the proposed Natural Gas Connection and CO_2 Connection works; and
- Section 7 provides the summary and conclusions to the Statement.

2. Proposed Gas and CO_2 Pipeline Routes and Connections

2.1 Natural Gas Connection

2.1.1 The Applicant has included within this Statement the proposed route and connection point for the Natural Gas Connection to the Proposed CQLCP Abated Generating Station located within the Main Development Area (Work No. 2).

2.1.2 Because there is already an existing pipeline from the Burton Point AGI into the Main Development Area, a new natural gas pipeline is not required. However, connection works (the Natural Gas Connection for the purposes of this Gas Connection Statement) will be needed between the existing pipeline and the CQLCP Abated Generating Station. The connection works from the existing Connah's Quay AGI (natural gas) to the CQLCP Abated Generating Station are described within Work No. 2 of the **Draft DCO** (**EN010166/APP/3.1**). By way of summary:

- the existing pipeline from the Burton Point AGI does not have a defined name and the specific new connection point (the Natural Gas Connection) would not have its own identified name;
- the Natural Gas Connection would be owned and operated by the Applicant;
- the start and end point of the Natural Gas Connection would all be located within the Main Development Area, with the start point for the Natural Gas Connection located within the existing Connah's Quay AGI, but the wider existing pipeline connection starts at the Burton Point AGI and would end at the CQLCP Abated Generating Station;
- the Natural Gas Connection would be less than one kilometre and is anticipated to be up to 250 m;
- the external diameter of the Natural Gas Connection would be 610 mm;
- the new Natural Gas Connection would facilitate the conveyance of natural gas from the existing pipeline to the CQLCP Abated Generating Station; and
- the works for the Natural Gas Connection (Work No. 2) are all on land owned by the Applicant within the Main Development Area and would be undertaken by the Applicant and so no separate consents or agreements would be required to facilitate these works.

2.1.3 Natural gas is supplied to the existing Connah's Quay power station from the NTS via the Burton Point AGI and through the Applicant's pipeline onto the Main Development Area at the Connah's Quay AGI. The current pipeline and connection is capable of providing 275,000 standard cubic m per hour (Sm^3/h) (at standard operating conditions of 15 degrees Celsius (°C) and 1.01325 bar) of natural gas to the site as per the existing contractual arrangements. The Proposed Development is designed to operate within the existing capacity limit and existing contractual arrangements. The AGI is existing, with a new tie-in expected to be provided off the 600 mm pipe

diameter spur to the decommissioned GTP (which currently is in proximity to the proposed site for the Proposed CQLCP Abated Generating Station and is to be demolished). The tie-in is expected to include new natural gas conditioning and pressure reduction equipment.

2.1.4 The pipeline from Burton Point AGI into the Main Development Area is existing and would remain unmodified for the development and operation of the Proposed CQLCP Abated Generating Station so there are no works to this section of the existing natural gas pipeline envisaged as part of Work No. 2.

2.1.5 The proposed Natural Gas Connection, which includes the working areas and space required, is shown on the **Indicative Gas Supply Pipeline Connection Plans and Gas Above Ground Installation Plans** (**EN010166/APP/7.18**).

2.1.6 Environmental effects associated with the construction of the Natural Gas Connection are assessed as part of the EIA, which is reported in the **ES** (**EN010166/APP/6.1** to **EN010166/APP/6.4**).

2.2 CO_2 Connection

2.2.1 The Applicant has included within this Statement the proposed route and connection point for the CO_2 Connection from the Proposed CQLCP Abated Generating Station (located within the Main Development Area) to the HyNet CO_2 Pipeline Project (partially located in the Proposed CO_2 Connection Corridor).

2.2.2 By way of summary:

- the existing pipeline (primarily within the Repurposed CO_2 Connection Corridor but also within the Main Development Area and Proposed CO_2 Connection Corridor at its start and end points, respectively) is called P852 (also referred to as the 'Repurposed CO_2 Connection' within the **ES** (**EN010166/APP/6.1** to **EN010166/APP/6.4**) and for the purposes of this Gas Connection Statement). The proposed pipeline within the Proposed CO_2 Connection Corridor (referred to as the 'Proposed CO_2 Connection' within the **ES** (**EN010166/APP/6.1** to **EN010166/APP/6.4**) and for the purposes of this Gas Connection Statement) would either adopt this name or be provided with a new name upon completion. The overall CO_2 Connection is comprised of both the Repurposed and Proposed CO_2 Connections;
- the Repurposed and Proposed CO_2 Connections would be owned and operated by Liverpool Bay CCS Limited, who are defined as an 'undertaker' in the **Draft DCO** (**EN010166/APP/3.1**) for this purpose;
- the existing pipeline, of which the Repurposed CO_2 Connection forms part, is a cross-country pipeline from Point of Ayr to Connah's Quay. For the purposes of the Proposed Development, the start point would be the proposed CO_2 interface facility described as Work No. 1(e) (referred to as the 'Proposed CO_2 AGI' within the **ES** (**EN010166/APP/6.1** to **EN010166/APP/6.4**)) and the end point would be the Flint AGI;
- the Proposed CO_2 Connection would be less than 1 km and is anticipated to be up to 422 m;

- the external diameter of the Proposed CO_2 Connection would be 610 mm;
- both the Repurposed and Proposed CO_2 Connections would be used for the conveyance of CO_2; and
- the CO_2 Connection would require the negotiation of new land interests and further detail on this is provided in Section 5 below.

2.2.3 The CO_2 interface facility (the Proposed CO_2 AGI) is described within Work No. 1(e) of the **Draft DCO** (**EN010166/APP/3.1**).

2.2.4 Between the Proposed CO_2 AGI and the Proposed CO_2 Connection pipeline, CO_2 is to be transported within the existing Repurposed CO_2 Connection pipeline. As no works to the Repurposed CO_2 Connection pipeline are required there is no associated work number.

2.2.5 The construction of the Proposed CO_2 Connection between the Repurposed CO_2 Connection pipeline and Liverpool Bay CCS Limited's Flint AGI is described within Work No. 7 of the **Draft DCO** (**EN010166/APP/3.1**). Works within Liverpool Bay CCS Limited's Flint AGI to facilitate this connection is described within Work No. 8 of the **Draft DCO** (**EN010166/APP/3.1**). Works within the Proposed CO_2 Connection Corridor to establish and use a temporary logistics compound to facilitate the connection is described within Work No. 9 of the **Draft DCO** (**EN010166/APP/3.1**).

2.2.6 CO_2 captured at the proposed CQLCP Abated Generating Station would be compressed to pipeline pressure (to be agreed with the pipeline operator) within the Main Development Area before being piped via the Proposed CO_2 AGI into the Repurposed CO_2 Connection pipeline, which is operated by Liverpool Bay CCS Limited. Liverpool Bay CCS Limited expect to utilise their existing 24-inch (former natural gas) pipeline, which is currently redundant and follows a route west and north-west of the Main Development Area from the Existing GTP AGI within the Main Development Area (to be demolished) for approximately 27 km to the Point of Ayr Gas Terminal.

2.2.7 Use of this pipeline for supply of natural gas from Liverpool Bay to the existing Connah's Quay GTP ceased in 2023 and, since this time, the pipeline has been maintained at pressure with nitrogen.

2.2.8 Liverpool Bay CCS Limited has confirmed that the Repurposed CO_2 Connection Corridor pipeline infrastructure is in a suitable condition for re-use.

2.2.9 The Proposed CO_2 AGI shall connect to the Repurposed CO_2 Connection at an intermediary point of the existing pipeline within the Main Development Area.

2.2.10 A short section of new pipeline (the Proposed CO_2 Connection) is proposed, of approximately 610 m diameter and 422 m in length, to link the Repurposed CO_2 Connection pipeline to Liverpool Bay CCS Limited's Flint AGI which would be the final connection point for the CO_2 Connection into the HyNet CO_2 Pipeline. This is located adjacent to Liverpool Bay CCS Limited's Flint AGI, within the Proposed CO_2 Connection Corridor.

2.2.11 The design, construction, commissioning and operation of the Proposed CO_2 AGI, the pipeline and any minor works within the Repurposed CO_2 Connection corridor, and the tie-in to the wider HyNet CO_2 Pipeline will be by Liverpool Bay CCS Limited.

2.2.12 The Proposed CO_2 Connection, which includes the working areas and space required, is shown on the **Indicative Gas Supply Pipeline Connection Plans and Gas Above Ground Installation Plans** (**EN010166/APP/7.18**).

2.2.13 Environmental effects associated with the construction of the CO_2 Connection are assessed as part of the EIA, which is reported in the **ES** (**EN010166/APP/6.1** to **EN010166/APP/6.4**).

3. Contractual Agreements

3.1 Natural Gas Connection

3.1.1 The applicant currently has a Network Entry and Exit Agreement with NGT covering the existing Natural Gas Connection point to the NTS at Burton Point AGI for delivery of up to 275,000 Sm^3/h (at standard operating conditions of 15°C and 1.01325 bar) of natural gas into the current generating station.

3.1.2 The Proposed CQLCP Abated Generating Station will be designed within this capacity limit and the other technical parameters within this contract. The design and construction of the existing pipeline and AGI at Burton Point is not expected to require any works to facilitate connection of the Proposed CQLCP Abated Generating Station.

3.1.3 In the event that delivery of the proposed CQLCP Abated Generating Station is completed in phases (each comprising one Train), operation of the first completed Train of the CQLCP Abated Generating Station and part of the existing Connah's Quay Power Station (i.e. one or two trains) may be undertaken, within the constraints of this existing connection agreement.

3.1.4 As the Natural Gas Connection to the proposed CQLCP Abated Generating Station would be completed on the Applicant's owned assets only, there are no contractual implications to the connection works to be undertaken or to commence operation of the CQLCP Abated Generating Station.

3.2 CO_2 Connection

3.2.1 The Applicant and Liverpool Bay CCS Limited have signed a Memorandum of Understanding in relation to CO_2 transportation for the Proposed Development. This includes the works required within the Proposed CO_2 Connection Corridor between the Proposed CO_2 AGI, located within the Main Development Area and Liverpool Bay CCS Limited's Flint AGI.

3.2.2 As the project develops, the Applicant will enter into a binding contract with Liverpool Bay CCS Limited to complete and operate this connection on behalf of the Applicant, for the life of the Proposed Development.

4. Responsibilities for Designing and Building the Connections

4.1 Natural Gas Connection

Design

4.1.1 The chosen Principal contractor(s) would undertake detailed design, engineering and construction (including enabling works and facilitation) of the Natural Gas Connection from the existing AGI within the Main Development Area to the CQLCP Abated Generating Station.

4.1.2 The detailed design of the Natural Gas Connection would be secured by Requirement 3 in Schedule 2 of the **Draft DCO** (**EN010166/APP/3.1**).

Build

4.1.3 The Natural Gas Connection would be constructed by suitably qualified contractors.

4.1.4 The gas pipeline (Work No. 2 (a)) connecting the Connah's Quay AGI to the Proposed CQLCP Abated Generating Station (Work No. 1) would be constructed using an open-cut method or would be installed above-ground. These works would generally be as follows:

- fencing off works area and fit safety signage;
- stripping and storing of topsoil;
- facilitating a working area to allow for temporary trackway, welding and soils storage;
- excavation of a trench (open-cut method only);
- pipe laid (welding pipe sections together at grade level (pipe stringing), within approximately 1.2 m below ground level (m bgl) (open-cut method) or above prepared ground route (above-ground method); and
- testing the pipe integrity, re-instating land drainage, and then backfilling subsoil, reinstating topsoil and re-planting to the original state as required. Appropriate safety measures including warning tape would be used.

4.1.5 The corridor working width required for open cut pipeline construction is generally around 35 m. This is the minimum working width that is required to facilitate ease of construction. This width allows for the width of excavation, topsoil and spoil to be excavated and stored adjacent to the point of generation, stringing and welding of sections of pipe, access along the route and laying of the pipe within the trench prior to backfilling.

4.1.6 Access arrangements during construction of the Natural Gas Connection, located wholly within the Main Development Area, are presented in **Chapter 5: Construction Management and Programme** of the **ES** (**EN010166/APP/6.2.5**) and impacts on local roads are considered in **Chapter 10: Transport and Traffic** of the **ES** (**EN010166/APP/6.2.10**).

4.1.7 The construction of the Natural Gas Connection is anticipated to take around six months. All works would be undertaken in general accordance with the measures outlined in a Construction Environmental Management Plan (CEMP) to be prepared by the contractor in accordance with the **Framework CEMP** (**EN010166/APP/6.5**), which has been submitted as part of the Application.

4.1.8 The route of the gas connection sits entirely within the Main Development Area and, thus, no special crossings are anticipated along the route of the connection.

Operation and Maintenance

4.1.9 The Applicant would own and be responsible for the operation and maintenance of all on-site plant and apparatus (including Natural Gas Connection on the Main Development Area) during operation of the Proposed Development.

4.1.10 Pipeline inspection plans would be prepared and if required, Pipeline Inspection Gauge (PIG) launching and receiving facilities for intelligent pigging operations would be considered.

4.2 CO_2 Connection

Design

4.2.1 Liverpool Bay CCS Limited would undertake detailed design, engineering and construction (including enabling works and facilitation) of the CO_2 Connection including the Proposed CO_2 AGI situated within the Main Development Area, any modifications to the Repurposed CO_2 Connection pipeline, the Proposed CO_2 Connection pipeline and works within the Liverpool Bay CCS Limited Flint AGI.

4.2.2 The detailed design of the CO_2 Connection would be secured by Requirement 3 in Schedule 2 of the **Draft DCO** (**EN010166/APP/3.1**).

Build

4.2.3 The CO_2 Connection would be constructed by suitably qualified contractors.

4.2.4 No physical works are required to the Repurposed CO_2 Connection pipeline, with works only required to construct the new AGI within the Main Development Area, and for the construction of the proposed CO_2 Connection between the Repurposed CO_2 Connection and Liverpool Bay CCS Limited's Flint AGI.

4.2.5 The approximately 422 m of new Proposed CO_2 Connection would be constructed using an open-cut method. These works are likely to be undertaken simultaneously with the works to connect the existing Liverpool Bay CCS Limited's Flint AGI to the existing pipeline to Point of Ayr, which will carry HyNet's CO_2 for sequestration in Liverpool Bay and would generally be carried out as follows:

- fencing off works area and fit safety signage;

- stripping and storing of different soil types, including topsoil, upper subsoil, lower subsoil, and basal material;
- facilitating a working area to allow for temporary trackway, welding and soils storage;
- excavation of a trench (required excavation depth is approximately 2 m);
- pipe laid (welding pipe sections together at grade level, pipe stringing), to a minimum of 1.2 m below ground level at its top; and
- testing the pipe integrity, re-instating land drainage, and then backfilling subsoil, reinstating topsoil and re-planting to the original state as required. Appropriate safety measures including warning tape would be used.

4.2.6 The corridor working width required for open cut pipeline construction is generally around 32 m. This is the minimum working width that is required to facilitate ease of construction. This width allows for the width of excavation, topsoil and spoil to be excavated and stored adjacent to the point of generation, stringing and welding of sections of pipe, access along the route and laying of the pipe within the trench prior to backfilling.

4.2.7 Access arrangements during construction of the pipe connection are presented in **Chapter 5: Construction and Programme Management** of the **ES** (**EN010166/APP/6.2.5**) and impacts on local roads are considered in **Chapter 10: Transport and Traffic** of the **ES** (**EN010166/APP/6.2.10**).

4.2.8 Works to connect the Proposed CO_2 Connection pipeline to Liverpool Bay CCS Limited's Flint AGI would involve installation of new pipework, pig receiver, valves, instruments and other auxiliary components, plus associated foundations, supports, platforms, and other supporting assets. The Proposed CO_2 Connection itself will tie-into a pre-existing (by time of construction) valved tie-in connection in the Liverpool Bay CSS Limited's Flint AGI. These works would be limited to the footprint of the Liverpool Bay CCS Limited's Flint AGI.

4.2.9 The construction of the Proposed CO_2 Connection is anticipated to take approximately nine months. All works would be undertaken in accordance with the measures outlined in a CEMP for that stage of the Proposed Development, to be prepared by Liverpool Bay CCS Limited in accordance with the **Framework CEMP** (**EN010166/APP/6.5**), which has been submitted as part of the Application.

4.2.10 No special crossings are anticipated along the route of the Proposed CO_2 Connection.

Operation and Maintenance

4.2.11 Liverpool Bay CCS Limited would own and be responsible for the operation and maintenance of the Repurposed CO_2 Pipeline, the new Proposed CO_2 Pipeline and the AGI within the Main Development Area during operation of the Proposed Development.

4.2.12 Pipeline inspection plans would be prepared and if required, PIG launching and receiving facilities for intelligent pigging operations would be considered.

5. Land Requirements

5.1 Natural Gas Connection

5.1.1 The Applicant has agreed the land rights within parts of the Order limits, as described in the **Statement of Reasons** (**EN010166/APP/4.3**).

5.1.2 All works associated with the new Natural Gas Connection would be undertaken within the Main Development Area and the Applicant has the freehold interest in all of the land on which the Natural Gas Connection would be made as shown on the **Land Plans** (**EN010166/APP/2.2**) and **Book of Reference** (**EN010166/APP/4.1**).

5.2 CO_2 Connection

5.2.1 The Applicant has agreed the land rights within parts of the Order limits, as described in the **Statement of Reasons** (**EN010166/APP/4.3**).

5.2.2 No works are anticipated to the Repurposed CO_2 Connection pipeline within the Repurposed CO_2 Connection Corridor, and thus no access to the land associated with this part of the connection is required. Whilst the Repurposed CO_2 Connection pipeline is already built out and in the ground, the Applicant has identified certain potential gaps in the lease interests held over the Repurposed CO_2 Connection pipeline. The Applicant is seeking to regularise this position but, as a matter of last resort, compulsory acquisition powers are sought for the land interests to use the Repurposed CO_2 Connection pipeline so that there is no scope for uncertainty as to land rights.

5.2.3 Works for the construction of the Proposed CO_2 Connection pipeline would take place on third party land. The Applicant is in the process of seeking to acquire the required land interests on a voluntary basis with the relevant landowner. However, as a matter of last resort, compulsory acquisition powers are sought for the land interests to construct, operate and maintain the Proposed CO_2 Connection pipeline. The nature and location of land interests sought is shown on the **Land Plans** (**EN010166/APP/2.2**).

6. Consents Required

6.1.1 The proposed Natural Gas Connection and CO_2 Connection works are included within the DCO Application, and therefore no separate planning permissions are required. The proposed Natural Gas Connection works (Work No. 2) and CO_2 Connection works (Work No. 7 and Work No. 8) in Schedule 1 of the **Draft DCO** (**EN010166/APP/3.1**) cover the construction and operation of the Natural Gas Connection and CO_2 Connection. Environmental impacts associated with the Natural Gas Connection and CO_2 Connection works are assessed in the topic chapters in the **ES** (**EN010166/APP/6.1** to **EN010166/APP/6.4**).

The Natural Gas Connection and CO_2 Connection would not include any crossings of road, rail or river and therefore no special consents would be required for these items.

7. Conclusions

7.1.1 This Statement has been prepared to satisfy the requirements of the APFP Regulations 5(2)(p), 6(1)(a)(ii) and 6(4) and to demonstrate that there is no reason why both Natural Gas Connection and CO_2 Connection would not be possible for the Proposed Development.

7.1.2 The Statement has demonstrated that the proposed Natural Gas Connection and CO_2 Connection and associated repurposed and new pipeline included within the Application (and assessed as part of the associated EIA reported in the **ES** (**EN010166/APP/6.1** to **EN010166/APP/6.4**)) are feasible, that the necessary agreements are, or would be, secured, and appropriate powers are, or would be, secured and appropriate powers are included in the **Draft DCO** (**EN010166/APP/3.1**) to facilitate the delivery of these connections.

References

Ref 1. His Majesty's Stationary Office (HMSO) (2008). The Planning Act 2008 [online]. Available at: https://www.legislation.gov.uk/ukpga/2008/29/contents (Accessed 28/07/2025).

Ref 2. HMSO (2009). Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009 [online]. Available at: https://www.legislation.gov.uk/uksi/2009/2264/contents/made (Accessed 28/07/2025).

Ref 3. HMSO (2017). Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 [online]. Available at: https://www.legislation.gov.uk/uksi/2017/572/contents (Accessed 28/07/2025).

Abbreviations

Abbreviation	Term
°C	degrees Celsius
AGI	Above Ground Installation
APFP	Applications: Prescribed Forms and Procedure
CCGT	Combined Cycle Gas Turbine
CCP	Carbon Capture Plant
CCS	Carbon capture and storage
CEMP	Construction Environmental Management Plan
CO_2	Carbon Dioxide
CQLCP	Connah's Quay Low Carbon Power
DCO	Development Consent Order
EIA	Environmental Impact Assessment
ES	Environmental Statement
FCC	Flintshire County Council
ha	Hectares
HRSG	Heat Recovery Steam Generator
km	Kilometres
m	metres
m bgl	m below ground level
mm	millimetres
MW	Megawatts
NGT	National Gas Transmission
NSIP	Nationally Significant Infrastructure Project
NTS	National Transmission System
PIG	Pipeline Inspection Gauge
PINS	Planning Inspectorate
Sm^3/h	standard cubic metres per hour
SoS	Secretary of State
UK	United Kingdom