

# Connah's Quay Low Carbon Power

Targeted consultation on changes to our proposals

Thursday 8 May to Friday 6 June 2025

Uniper UK Limited (hereafter referred to as 'Uniper') is exploring the potential development of a new gas-fired power station with carbon capture technology at its Connah's Quay site in Flintshire, the Connah's Quay Low Carbon Power (CQLCP) project. If consented and developed the new power station would be capable of providing up to a likely maximum of 1.38 GW of low carbon power, to help meet the growing need for electricity, whenever it is required.

From Tuesday 8 October to Tuesday 19 November 2024 we held our Statutory Consultation, inviting local communities, local authorities, landowners, environmental organisations and technical stakeholders to share their views on our proposals. We would like to extend our thanks and appreciation to those who participated in the consultation.

We're currently undergoing Front End Engineering Design (FEED) studies for the project. Based on the findings of our ongoing technical and environmental assessments, we have identified a need for a change to the original design that we consulted on during the Statutory Consultation. We would like to give you the opportunity to see what's different, although this proposed change would not result in the project being fundamentally different from what was previously consulted on. As a good neighbour, we wanted to consult you about this proposed change before we submit

our Development Consent Order (DCO) application to the Planning Inspectorate under the Planning Act 2008 covering Nationally Significant Infrastructure Projects (NSIP) later this year.

From **Thursday 8 May to Friday 6 June 2025**, we are therefore conducting a further consultation, specifically about this design change, technically referred to as a 'targeted consultation', and we would welcome your feedback.

In addition to this newsletter, we have produced a Supporting Information Report for this targeted consultation which describes our updated design and any corresponding changes to proposed mitigation measures.



You can find this during the consultation period on our consultation website here: [www.uniperuk.consulting/cqlcp/project-consultation-documents-3/](https://www.uniperuk.consulting/cqlcp/project-consultation-documents-3/) or scan the QR code.

We would also like to inform you about some other non-material design changes that we have made since the Statutory Consultation took place. A summary of these changes is provided within this newsletter.

## About Uniper

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. Uniper's operations include power generation in Europe, global energy trading, and a broad gas portfolio. 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.

Uniper intends to be completely carbon-neutral by 2040 and aims for its installed power generation capacity to be more than 80% zero-carbon by the early 2030s. To achieve this aim, the company is transforming its power plants and facilities and investing in flexible, dispatchable power generating units.

Uniper is gradually adding renewable and low carbon gases 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 CO<sub>2</sub> emissions by high-quality CO<sub>2</sub>-offsets.

# The proposed change

Both the Combined Cycle Gas Turbine (CCGT) and Carbon Capture Plant (CCP) components of the proposed new power station will feature stacks to vent waste gases produced during combustion safely into the atmosphere. Following the completion of technical assessments supporting the Environmental Impact Assessment (EIA), Uniper has identified a requirement to increase the stack heights for the proposed CQLCP project.

There are two potential scenarios for operating the proposed new power station. The normal operating mode will be with the carbon capture technology operational whereby waste gases would pass through two absorber emission stacks, which are part of the proposed CCP.

However, the design needs to accommodate potential abnormal scenarios where the CCGT may need to temporarily operate without the CCP such as during an emergency shut down or if the CO<sub>2</sub> transport and storage infrastructure is not available. This is expected to only be in exceptional circumstances and the transport and storage availability is expected to be at least 95%. In this operational scenario, emissions would instead be emitted through two dedicated stacks above the Heat Recovery Steam Generator (HRSG), which is part of the CCGT.

The modelling we have undertaken has therefore considered the potential atmospheric emissions associated with both operational scenarios to determine a suitable height for the stacks, that would minimise any potential negative effects.

As a result of these assessments, the maximum height parameters presented at the Statutory Consultation for

the absorber emission and HRSG emission stacks need to be increased and these are now proposed at 150m above ground level. For the absorber emission stacks, this is an increase of 30m from the 120m emission stack heights presented at our Statutory Consultation. The HRSG emission stacks will also increase from an initial 85m to 150m, which is an increase of 65m. The increase in the height of the stacks would help to mitigate the human health and ecological effects of the project. In determining the new proposed maximum height parameters, Uniper has also considered the potential landscape and visual impacts as well as impacts on the setting of designated heritage assets such as listed buildings and scheduled monuments.

Uniper considers that the proposed increase to the emission stack heights is a necessary and appropriate revision to the project's design to mitigate the environmental effects of the project as far as possible, in all operating scenarios.

As part of our Statutory Consultation last year, we worked with Flintshire County Council to select a number of viewpoints that cover the projected visual impact of the project. These viewpoints are representative of views of the new facility from publicly accessible locations in the surrounding area.

**Figures 1a-c** on pages 3–5 of this newsletter are computer generated images which provide a comparison between the present day site, the design shared at Statutory Consultation and the proposed changes. These images are a representation of how the new facility might look from nearby locations.



**For more detailed information on this proposed change**, please refer to Section 3 in the Supporting Information Report on our consultation website here: [www.uniperuk.consulting/cqlcp/project-consultation-documents-3/](http://www.uniperuk.consulting/cqlcp/project-consultation-documents-3/) or scan the QR code.



Figure 1a





Figure 1b





Figure 1c





# Additional changes since Statutory Consultation

Since the Statutory Consultation ended in November 2024, we have undertaken a series of technical and environmental assessments that continue to inform the design of the project. We have also taken into account the feedback we received during the consultation, and we want to make you aware of some additional design changes that we are intending to make.

We do not believe that these changes to the project are material, so we are not requesting feedback on them during this targeted consultation. However, should you wish to submit any feedback to us about these changes we will take that feedback into account when finalising the DCO application.

**Table 1** lists these **design changes** and the **reason** for the change. For further information on the terms used within this table, please refer to Section 2 of the Supporting Information Report.

Table 1

- 1. CHANGE:** The project is proposed to be comprised of two CCGT generating plants each fitted with a CCP. These units and the supporting development required to operate them are referred to as 'Trains'. Initially, we were exploring the option to build two CCP per Train but this has now been removed in favour of a single CCP per Train.

**REASON:** Following further technical studies, technology providers have confirmed that each CCGT train can be served by a single CCP, reducing the complexity of the plant required to be provided.

- 2. CHANGE:** We have removed the wide 'blast stacks' from each Train.

**REASON:** Following further technical studies, these are no longer required in the plant design.

- 3. CHANGE:** The Proposed CO<sub>2</sub> Above Ground Installation (AGI) has been relocated within the Main Development Area.

**REASON:** The relocation of the proposed AGI allows simpler integration into the overall site drainage scheme, and improves the efficiency of drainage in that plant area.

- 4. CHANGE:** We have removed the option for new cooling water abstraction and discharge infrastructure and removed the option for intrusive refurbishment of the existing cooling water infrastructure. This has resulted in a reduction of the Water Connection Corridor boundary.

**REASON:** Following further technical studies it has been confirmed that it is possible to retain and reuse the cooling water infrastructure associated with the existing Connah's Quay Power Station with some refurbishment and upgrades.

- 5. CHANGE:** We have increased temporary construction laydown area boundaries within the Main Development Area. This laydown area will include land previously assigned for the location of the proposed CO<sub>2</sub> AGI.

**REASON:** To account for changes to the location of the proposed CO<sub>2</sub> AGI and to maximise available space for temporary laydown within the Main Development Area. Both the simultaneous and phased construction scenarios may require all of the identified laydown areas.

- 6. CHANGE:** We have confirmed the location of the temporary compound within the Proposed CO<sub>2</sub> Connection Corridor.

**REASON:** Following further assessment, the location of the temporary compound has been fixed within the western section of the Proposed CO<sub>2</sub> Connection Corridor.

- 7. CHANGE:** We have included additional Maintenance Laydown Areas within the updated indicative design.

**REASON:** The Maintenance Laydown Areas have been included because maintenance outages and staff requirements had been identified ahead of Statutory Consultation but no specific location for these operational activities and staff to be accommodated within the Main Development Area had been identified.

- 8. CHANGE:** In order to accommodate transportation of AILs, we may need to undertake additional works to widen access across the level crossing at Port of Mostyn.

**REASON:** This change is required following an initial analysis on the movement of AILs from the Port of Mostyn to the Main Development Area along the A548.



Table 1 (cont.)

**9. CHANGE:** We have reduced the width of the Repurposed CO<sub>2</sub> Connection Corridor in the indicative Order limits from a maximum of 100m down to a maximum of 25m.

**REASON:** Following further investigation there is now no need to conduct excavation along the CO<sub>2</sub> connection corridor. Therefore, the Indicative indicative Order limits can be reduced.

**10. CHANGE:** We have removed Abnormal Indivisible Load (AIL) vessel mooring, offloading, and temporary storage areas at Ports of Mostyn and Ellesmere from the indicative Order limits. As a result of the removal of the Port of Ellesmere from the indicative Order limits, the indicative Order limits for the project will no longer be in England.

**REASON:** Whilst Uniper is retaining the potential use of the Port of Mostyn and Ellesmere Port, it has been confirmed that no physical works would be required within the ports themselves beyond routine existing commercial operations for the existing commercial ports.

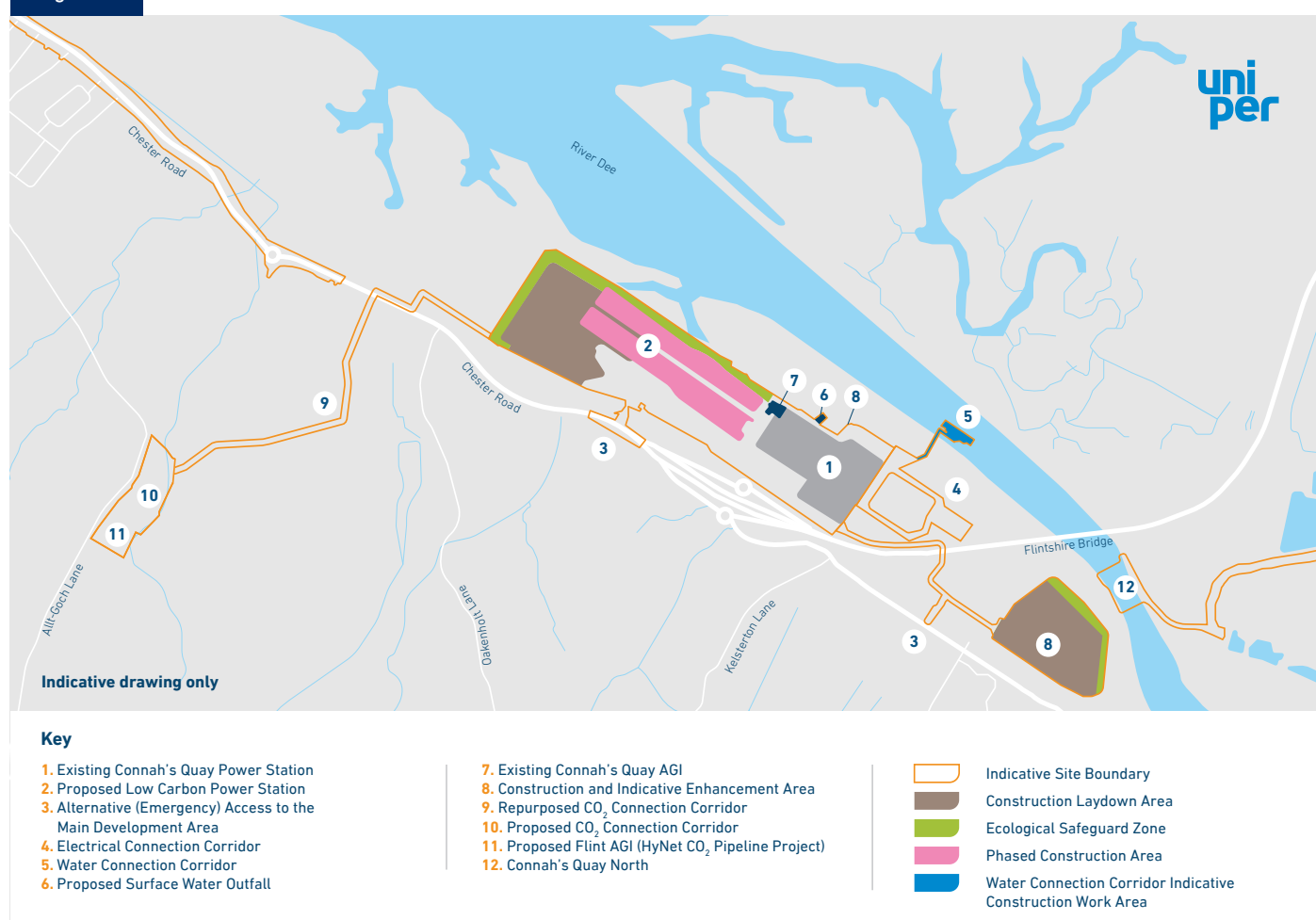
**11. CHANGE:** Works to facilitate access to wildlife hides presented at Statutory Consultation have now been found unnecessary and have therefore been removed from the indicative Site Boundary.

**REASON:** Following further investigation there is now no need to conduct work in that area.

**Figure 2** shows the updated indicative locations of key infrastructure for the proposed CQLCP project. Please note that these plans are still in an early stage of development and are subject to change following ongoing engagement with statutory bodies, local authorities and the local community. The final design will be determined during the FEED process, which commenced at the end of December 2024 and is expected to take around a year to complete.

The full updated indicative Order limits upon which Figure 2 is based can be found in Section 2 of the Supporting Information Report.

Figure 2





# Providing your feedback

Our targeted consultation runs from **Thursday 8 May to 11:59pm on Friday 6 June 2025**. To guarantee that your feedback is captured, we kindly ask that all responses are sent prior to this deadline on 6 June.

## Feedback can be provided by:



Sending us an email at  
**info@connahsquaylcp.co.uk**



Writing to us at **FREEPOST CQLCP**  
(no stamp required)

Following our targeted consultation, we will report on the outcomes of this process in our Consultation Report, which we will submit as part of our DCO application later this year.

We will consider all comments received during the consultation, as well as from our ongoing engagement with our local communities and stakeholders. We value all your feedback and will continue to use it to influence the design of the project, where possible.

This document has been produced by Uniper, and every effort has been made to ensure that the information contained within is accurate as of the date of publication. The project is still at an early stage, and therefore future updates or changes may affect the accuracy or relevance of this information.

## We will be hosting consultation materials at the following information points near to the site:

Buckley Library, The Precinct, Brunswick Rd, Buckley, CH7 2EF • Flint Library, Church St, Flint, CH6 5AP  
Connah's Quay Library, Wepre Dr, Connah's Quay, CH5 4HA • Neston Library, Parkgate Rd, Neston, CH64 6QE



Mae'r ddogfen yma hefyd  
ar gael yn Gymraeg ar ein  
gwefan yma.

## Contact us

If you would like to talk to us about the project, you can contact our Community Relations Team using the following contact information:

Email us at **info@connahsquaylcp.co.uk** | Call us on **0800 0129156** | Write to us at **FREEPOST CQLCP**

You can also visit our website at **www.uniperuk.consulting/cqlcp** for more information about the project.