

# THE MAIN ONSHORE PIPELINE: 24-HOUR TUNNELLING WORKS



liverpool bay ccs

## INTRODUCTION

Liverpool Bay CCS Limited (LBCCS) is leading the development of the Liverpool Bay Carbon Dioxide (CO<sub>2</sub>) Transportation and Storage (T&S) Project to serve the HyNet North West Industrial Decarbonisation Cluster.

HyNet North West is the UK's leading industrial decarbonisation project which aims to unlock a low carbon future in the north west of England and north Wales by tackling CO<sub>2</sub> emissions from industry and supporting economic growth in the region. This factsheet provides information about the 24-hour tunnelling works required to construct the Main Onshore Pipeline.

### THE MAIN ONSHORE PIPELINE

The Main Onshore Pipeline (the Pipeline), previously referred to as the HyNet Carbon Dioxide Pipeline, is a Nationally Significant Infrastructure Project which was granted a Development Consent Order (DCO) by the Secretary of State for Energy Security and Net Zero in March 2024.

The Pipeline will transport CO<sub>2</sub> from industrial sites to the existing Point of Ayr terminal in Talacre, North Wales. From here, it will be stored in safe and permanent storage beneath Liverpool Bay in depleted reservoirs that have held natural gas for millions of years.

### CONSTRUCTING THE PIPELINE - 24-HOUR CONSTRUCTION

Where the Pipeline meets major roads, railway lines and water crossings, it will be installed using trenchless tunnelling techniques.

These techniques bury the Pipeline deep beneath the ground, ensuring minimal disruption to key infrastructure, transport routes and environmentally sensitive areas.

The operations occur underground and will require working 24-hours a day to ensure the safety of the tunnel and the construction team.

LBCCS's Engineering, Procurement and Construction contractor, United Infrastructure (UI) is managing the construction of the Pipeline with its specialist subcontractor Joseph Gallagher Limited (JGL), undertaking the tunnelling works.

### MITIGATION MEASURES

LBCCS, UI and JGL are committed to minimising disruption and protecting local communities throughout their operations and have implemented the following mitigation measures:

#### Noise and vibration

Surface noise and vibration levels have been de-risked through the design process. This process analysed the positioning of the tunnel against the 'zone of influence' which narrows as the tunnel goes deeper into the ground.

The tunnelling works will take place deep beneath the ground, allowing the earth between the tunnel and the surface to absorb potential noise and vibration.

Additional mitigation measures, where required, include:

- Acoustic barriers, screens or covers to limit noise levels.
- Acoustic enclosures around static plant.
- 24-hour noise and vibration monitoring will be in place where a relevant section 61\* agreement has been established with the local authority. This is required where it has been assessed that there is a potential impact of noise and/or vibration on nearby homes. The monitoring will notify the Site Manager if levels increase so immediate action can be taken.

\*Section 61 of the Control of Pollution Act 1974, is an agreement with the local authority which sets controls to manage noise and vibration from construction activities.

### **Temporary on-site lighting**

Temporary on-site lighting will be required throughout the tunnelling works to maintain safe working conditions and ensure the security of the compounds and equipment.

All temporary on-site lighting will be kept to a minimum and carefully positioned to only focus on the construction area and away from sensitive areas such as homes.

### **Traffic and vehicle movements**

Traffic and vehicle movements are limited to core working hours.

These are:

- 8am to 6pm – Monday to Friday
- 8am to 1pm – Saturday
- No work on Sundays or bank holidays

The consent also allows for one hour either side of these times for site set-up and closure. These are 7am to 8am and 6pm to 7pm from Monday to Friday, and 7am to 8am and 1pm to 2pm on Saturdays.

### **HEALTH AND SAFETY**

LBCCS places the highest priority on the health and safety of both project staff and the public during the Pipeline's tunnelling operations. Strict procedures and controls will be in place to ensure all activities are carried out safely, responsibly and in line with the DCO requirements.

In addition to this, the Pipeline will be regulated by the UK Health and Safety Executive (HSE) and the North Sea Transition Authority (NSTA), to ensure compliance with all relevant regulations and associated guidance.

### **WHERE CAN I FIND MORE INFORMATION?**

For more information about the Main Onshore Pipeline and the Liverpool Bay CO<sub>2</sub> T&S Project, please visit our website at [hynethub.co.uk](https://hynethub.co.uk), email our team at [hello@hynethub.co.uk](mailto:hello@hynethub.co.uk) or call our project phone line at **0113 395 4495**.