

The CCS Opportunity at Parc Adfer

30 October 2023



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By installing carbon capture technology at Parc Adfer, we could:

- Decarbonise unrecyclable waste produced across North Wales, both now and in the future.
- Support economic growth, skills and employment in the green economy both during the construction phase and the operational phase of the project.
- Generate carbon negative power that can support the Welsh Government's ambition to have 100% zero carbon power by 2035.
- Produce ~100,000 tonnes of 'carbon removals' or 'negative emissions' per year from our captured biogenic CO₂, offsetting emissions elsewhere in Flintshire.

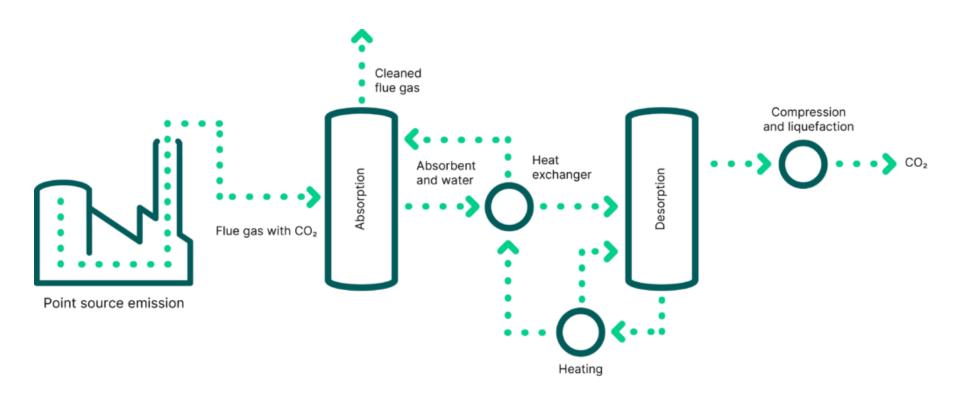
Introduction



- For more than a year, enfinium has been exploring the potential to install carbon capture and storage (CCS) technology at Parc Adfer.
- Installing CCS at Parc Adfer would enable us to capture at least 90% of the carbon dioxide (CO₂) the facility currently produces when transforming unrecyclable waste into energy.
- Once captured, the CO₂ would be safely transported via pipeline to Liverpool Bay for permanent storage under the sea.
- The capital investment and operational costs associated with building and running the carbon capture equipment could be supported by the UK Government.
- The next round for projects to bid into the UK Government's CCS project selection programme is set to open up in November/December 2023 and close in March 2024.
- Based on our work to date we believe a CCS project at Parc Adfer would be very competitive from a bidding perspective, highly deliverable and would transform the waste sector in North Wales.

What is Carbon Capture and Storage?

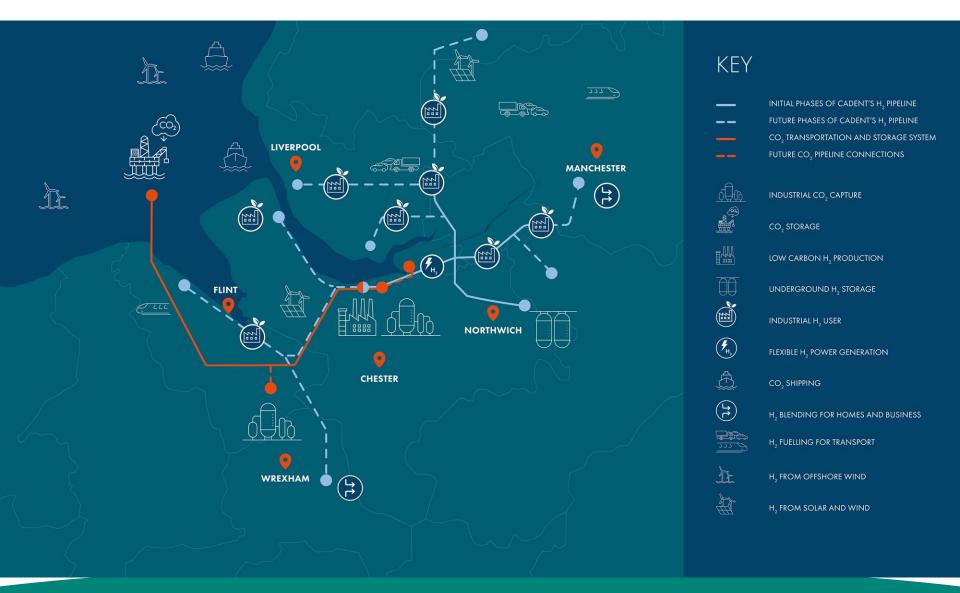




Source: Aker Carbon Capture

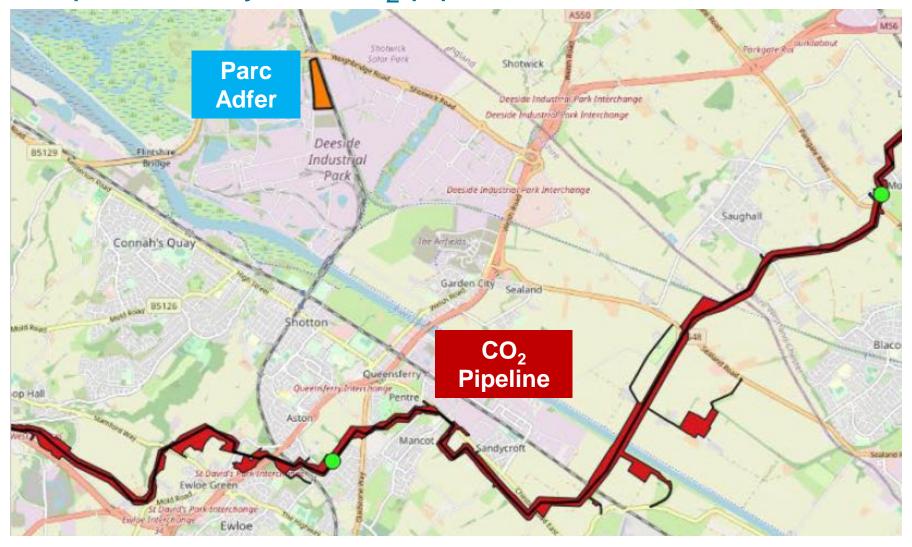
Integrating North Wales into the HyNet CCS cluster





Parc Adfer is located a short distance from the planned HyNet CO₂ pipeline





Pathway for UK Government support for Parc Adfer at CCS



Nov 2023 Mar 2024 UK Government opens up bid window ('Track-1 Expansion) for projects seeking to connect into the HyNet CCS network

Mar – Jun 2024 Review of eligible applications and supporting evidence

Summer 2024

Assurance check and shortlisting

Autumn 2024+ Due diligence and bilateral commercial negotiations

H2 2025 H1 2025 Contract award and Final Investment Decision

2030

CCS facility commissioned and operational

*Timetable based on DESNZ market update on 25 September 2023 and subject to change

In summary



- Installing CCS at Parc Adfer could support the delivery of a number of Welsh Government policy goals on energy, environment and climate change.
- It would also support the joint authorities achieving their own climate change strategies, targets and ambitions.
- It would contribute towards economic growth, skills and employment in the green economy in North Wales.
- The upcoming Track-1 Expansion allocation round represents a significant window of opportunity to secure UK Government support for the project.



THANK YOU