



Consultation

Grenian Hydrogen, are developing green hydrogen projects across the North West, including Cheshire Green Hydrogen

Cheshire Green Hydrogen will use renewable electricity including locally produced electricity from the Frodsham wind farm, to generate 20 megawatts of low carbon hydrogen to fuel local industry.

Located on the Protos site, low carbon hydrogen will be produced and will travel via a planned underground pipeline to local industry, including glass manufacturer Encirc.



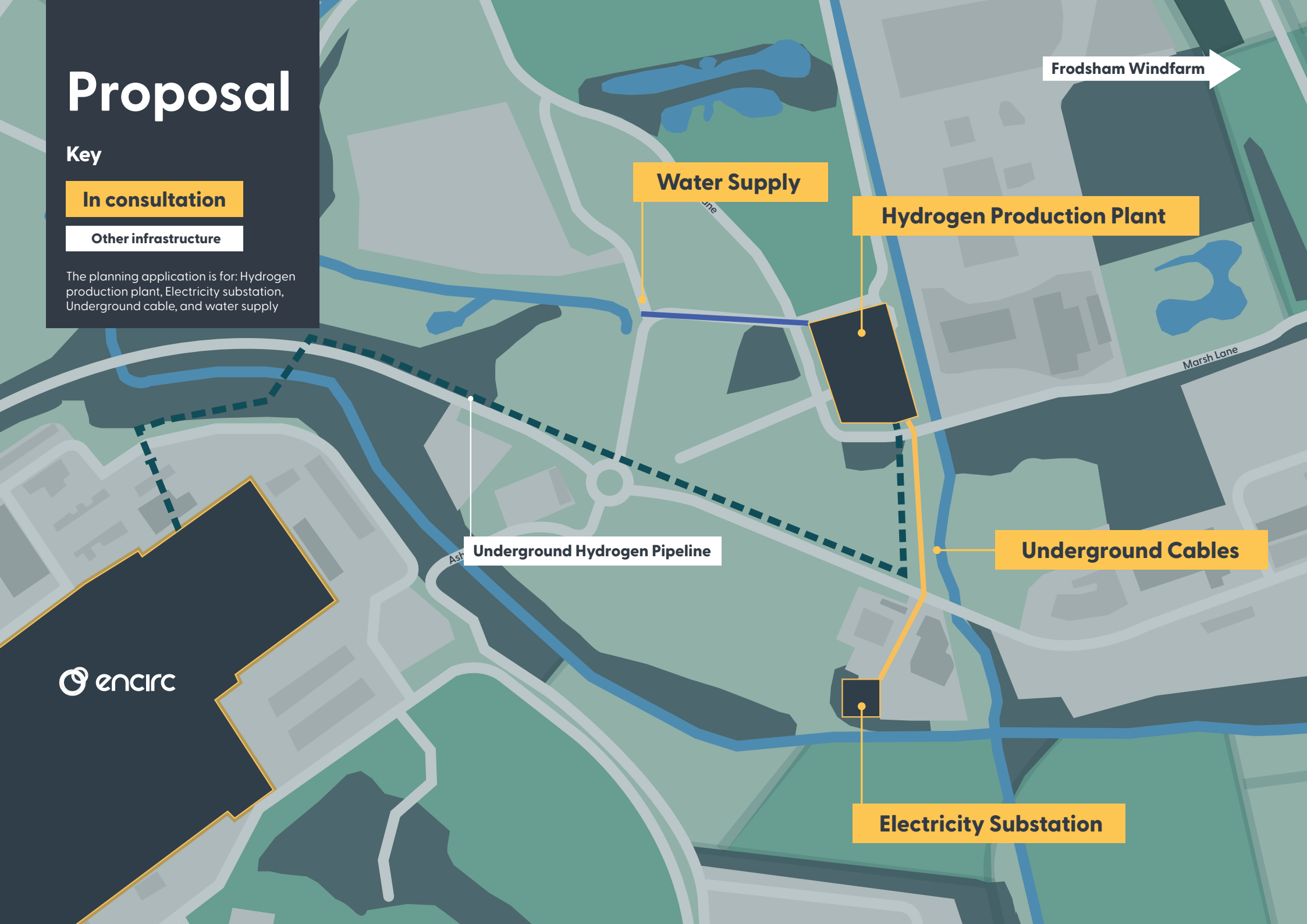
Proposal

Key

In consultation

Other infrastructure

The planning application is for: Hydrogen production plant, Electricity substation, Underground cable, and water supply



Frodsham Windfarm

Water Supply

Hydrogen Production Plant

Underground Hydrogen Pipeline

Underground Cables

Electricity Substation

encirc

Site arrangements



How it works

Cheshire Green Hydrogen (CGH) will produce green hydrogen using twelve 2.5MWe electrolyzers located in twenty-four 40ft containers

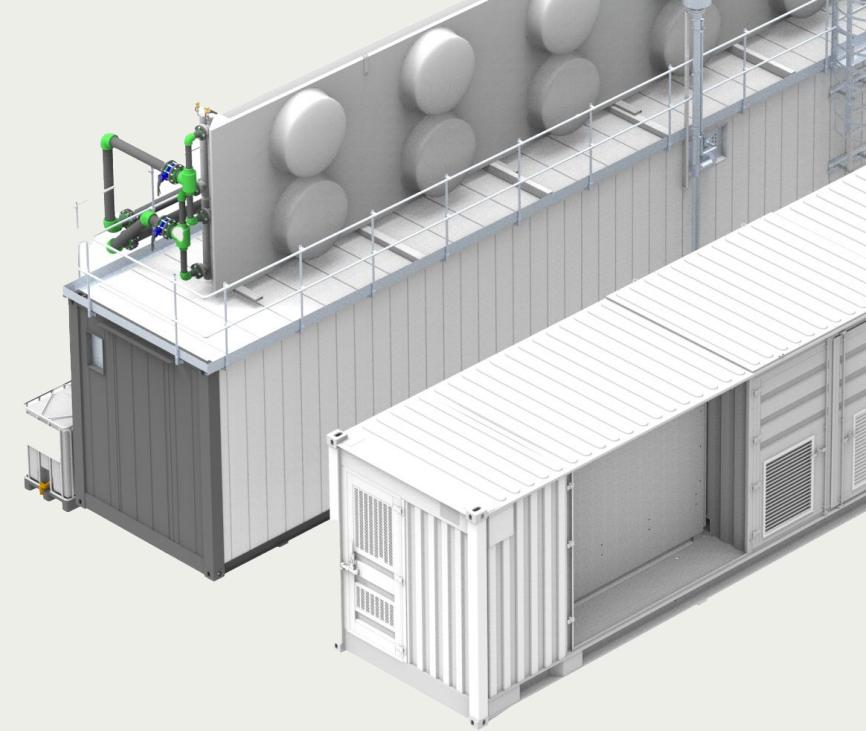
We have been working hard to optimise the design of the Cheshire Green Hydrogen project, including the electricity cable and hydrogen pipeline connections.

We have completed environmental studies at and around our proposed site. These include ecology surveys of plants and animals in the area and assessing if there will be any impact from noise during operation.

We will avoid or minimise impacts on the environment through careful design.

The construction of CGH will last around 18-24 months. During the construction period, traffic movements will be controlled following a Construction Traffic Management Plan (CTMP) that will be prepared by the contractor.

Once CGH is operational there will be very little day-to-day traffic, with hydrogen being exported via a small new pipeline network.



Electrolysers housed in 40ft containers



Proposed electrolyser design

Timeline

We expect to submit a planning application for CGH in autumn 2023

If planning consent is granted, we hope to start construction in late 2024 and will begin decarbonising local industry by 2026

We want to hear your feedback



Please fill in a feedback form or contact us at

info@grenianhydrogen.com
grenianhydrogen.com/cgh

2023
Engineering design
& planning application

Autumn 2023
Public consultation

Winter 2023
Planning process

2024
Detailed engineering
& site preparation

2025
Construction & commissioning

2026
Operation

