

# HyBont Bridgend Green Hydrogen Project

**Marubeni Europower**

## About the project

**Marubeni Europower** is developing plans for a green hydrogen production and refuelling facility at Brynmenyn Industrial Estate, partially powered by a solar farm at Bryncethin.

It is anticipated that the green hydrogen facility will help support Bridgend County Borough Council's (BCBC) net zero strategy by providing low carbon fuel to be used locally, for its fleet refuse collection vehicles and locally operated buses.

The Council is also exploring the potential for an Ynysawdre heat network, which would provide a low carbon way to heat local schools and community facilities.

## Pre-Application Consultation (PAC)

The PAC on the proposals took place November/December 2022, with local residents, businesses and stakeholders able to submit comments until 6 January 2023.

## Next steps

The planning application is due to be submitted in March/April 2023.

There will then be an opportunity to comment on the final proposals during the statutory consultation, which is expected to be carried out by BCBC, as the local planning authority, in April/May 2023.

For more information on the project, visit: [www.hybont.co.uk](http://www.hybont.co.uk)



## PAC and public drop in events<sup>1</sup>

over **1,200** letters/leaflets sent to residential and business addresses

**2** public exhibition drop in events attended by over **130** people

over **700** unique visitors to the project website

over **100** people provided feedback

<sup>1</sup> PAC and public drop in event statistics for the period 18th November 2022 to 6th January 2023.

**Board 1.**



# HyBont Bridgend Green Hydrogen Project

## Site location



**Marubeni Europower** is bringing forward proposals for the development of a green hydrogen production, storage and refuelling facility located on land at Brynmenyn Industrial Estate, Bridgend. The proposals include a solar farm at nearby Bryncethin, which will provide renewable energy to help power the green hydrogen production.

### Site selection

The Brynmenyn site was selected for a number of reasons, including:

- **Close to potential end users** such as refuse collection vehicles and public buses.
- **Opportunities for a district heat network** for local schools and community facilities, which is currently being assessed by BCBC.
- **Proximity to the solar farm**; a key component for green hydrogen production, with a direct connection to the electrolyser required.

Following feedback received from the community, the preferred private wire connection has been identified, as shown on the Aerial site location plan opposite. This was private wire option 2 presented during the PAC, which is the shorter of the two options (shown in the extract below).



Extract from the PAC site location plan  
(18th November 2022 to 6th January 2023)

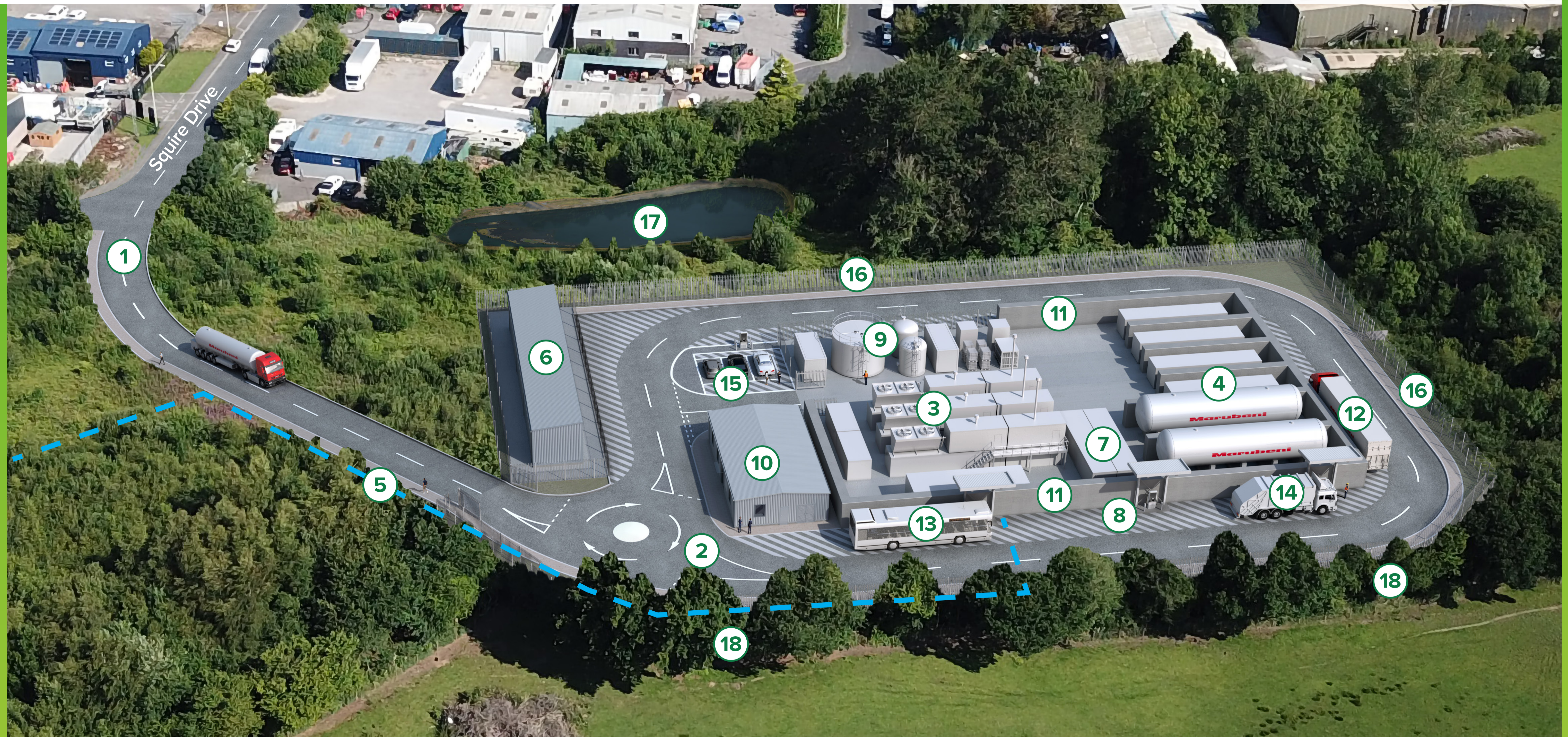


HyBont Bridgend  
Green Hydrogen Project

# Green hydrogen facility

**Marubeni**  
Europower

- ① Access
- ② One-way traffic flow
- ③ Electrolyser and production area
- ④ Hydrogen storage tanks
- ⑤ Hydrogen pipeline (underground)
- ⑥ Substation
- ⑦ Hydrogen refuelling compressor
- ⑧ Refuelling points
- ⑨ Utilities
- ⑩ Site office/control room
- ⑪ Fire walls
- ⑫ Single chassis tube trailer
- ⑬ Hydrogen bus
- ⑭ Hydrogen refuse collection vehicle
- ⑮ Car parking
- ⑯ Boundary fence
- ⑰ Attenuation pond
- ⑱ Landscaping



Aerial view of the proposed green hydrogen production facility

Artists impression for illustrative purposes only



# Access and transport.



## Access and Transport

### During construction:

During the 21-month construction period for the green hydrogen facility at Brynmenyn, 20 HGV trips (10 inbound and 10 outbound) and 50 staff movements (25 inbound and 25 outbound) are anticipated each day.

Access to the site during construction will initially be via Chilcott Avenue, through a simple extension of the existing route, until the site access off Squire Drive is

constructed. Once constructed, Squire Drive will be used to access the site.

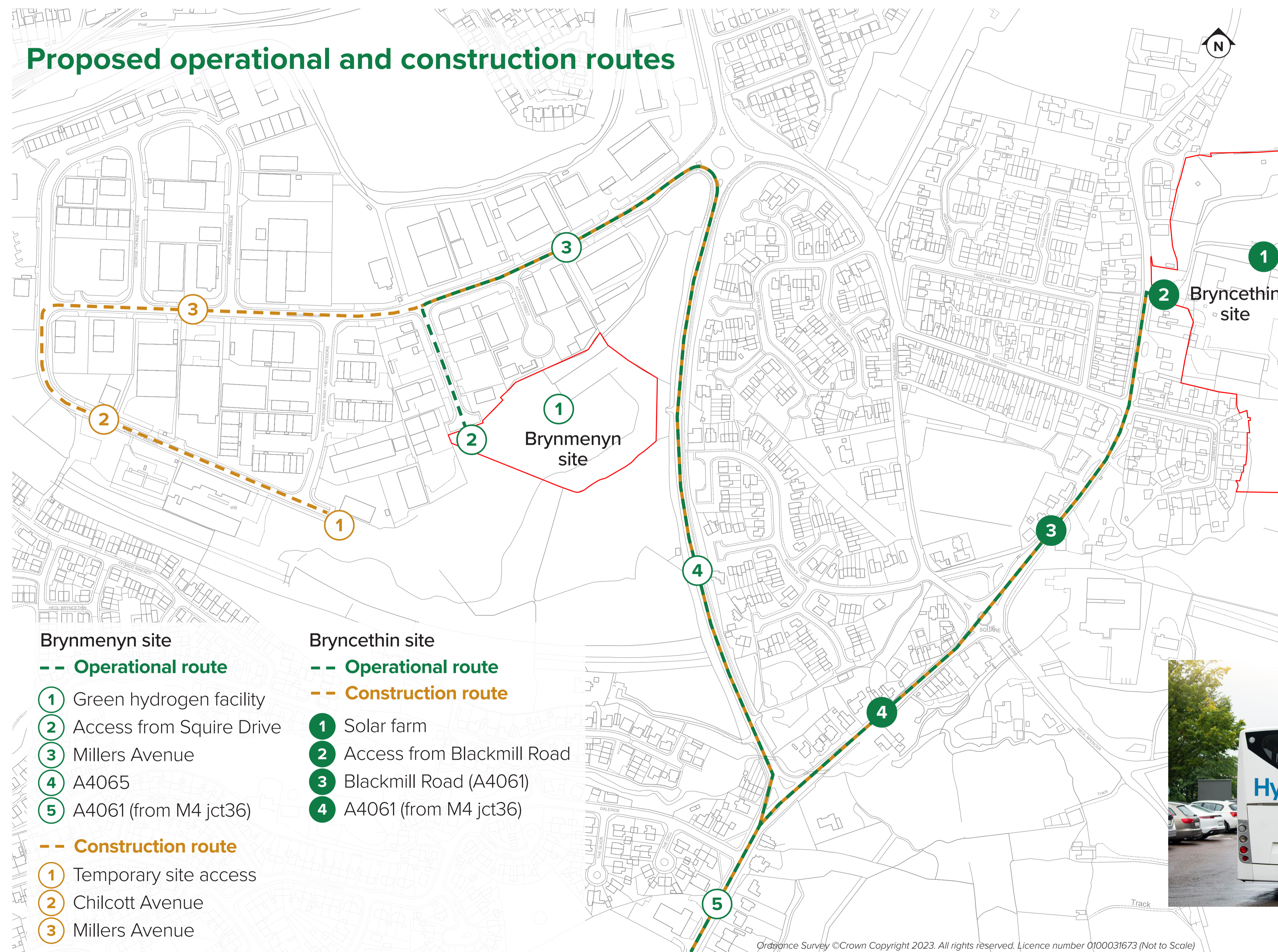
During the 6-month construction phase for the solar farm at Bryncethin, 12 HGV trips (six inbound and six outbound) and 40 staff movements (20 inbound and 20 outbound) are anticipated each day.

### During operation:

Once the green hydrogen facility at Brynmenyn is operational, 56 large vehicle trips (28 inbound and 28 outbound) – comprising single decker buses, refuse collection vehicles and HGVs, including single chassis tube trailers - and 10 staff movements (5 inbound and 5 outbound) are anticipated each day.

Access to the site is proposed from Squire Drive and onsite parking will be provided to meet the needs of staff and visitors. There are currently no proposals to amend the on-street parking available on Squire Drive.

### Proposed operational and construction routes



Typical examples of vehicles/HGVs



# HyBont Bridgend Green Hydrogen Project

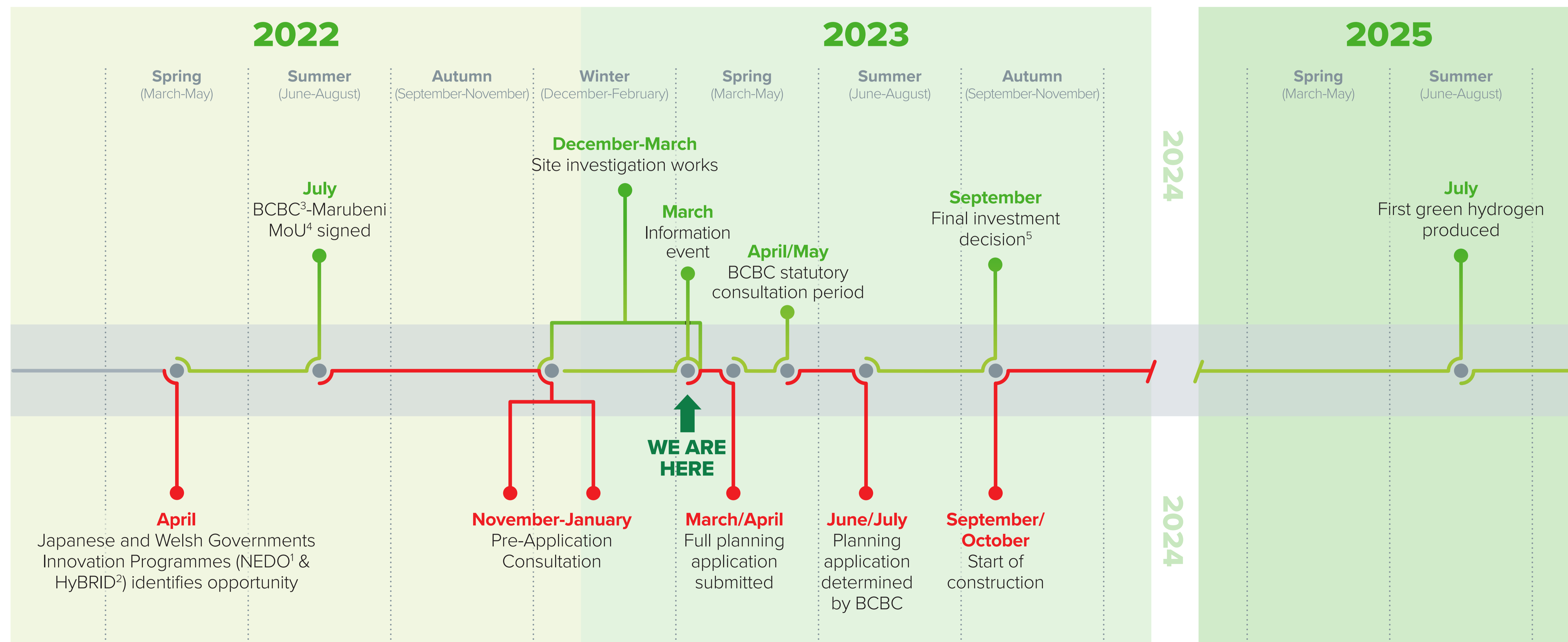
## Indicative project timeline



Following PAC, and with site investigation works nearing completion, the project team is finalising the proposals for **HyBont Bridgend Green Hydrogen Project** before submitting a planning application to BCBC. The Council will carry out statutory consultation before determining the planning application.

On the current timeline, and subject to planning permission being granted and a final investment decision on the project, works could start onsite in September/October 2023, with the first green hydrogen produced in July 2025.

### Indicative project timeline (2022 - 2025)



<sup>1</sup> New Energy and Industrial Technology Development Organization (NEDO)  
<sup>2</sup> Hydrogen Business Research & Innovation for Decarbonisation (HyBRID)  
<sup>3</sup> Bridgend County Borough Council (BCBC)

<sup>4</sup> Memorandum of Understanding (MoU)  
<sup>5</sup> Subject to planning permission being granted