

MAGOR  
NET ZERO  
PROTIUM



PROTIUM

Magor Net Zero Project Newsletter  
August 2022

*Front page: Aerial image of the Brewery including the land proposed for the electrolyser site*

## Introducing the Magor Net Zero Project

We are developing proposals for a state of the art green hydrogen production facility to support the Magor Brewery. The proposals will save thousands of tonnes of CO<sub>2</sub> per year, reducing reliance on fossil fuels and improving local air quality.

The Project proposes to develop renewable energy locally to create green hydrogen from a new production facility located at the Magor Brewery site, just off junction 23a of the M4.

Energy generated from local renewables and green hydrogen will be used to decarbonise various elements of the brewing process, whilst also providing the means to fuel the Brewery's Heavy Goods Vehicles (HGVs) and forklift trucks.

We are excited to deliver this ground-breaking, 'UK-first' scheme which will illustrate how Wales is leading the way in reducing carbon emissions and tackling climate change.

We are currently undertaking early consultation on the plans and want to invite the local community to share their initial thoughts. This leaflet explains where to find out further information about the proposals, view the detailed plans, and how to contact us to provide feedback.

### About Magor Net Zero

Magor Net Zero is being brought forward by Protium, a UK-based green hydrogen energy services company, and the owners of Magor Brewery, Budweiser Brewing Group UK&I (the trading name of AB InBev UK Limited).

You can find out more on the project website:

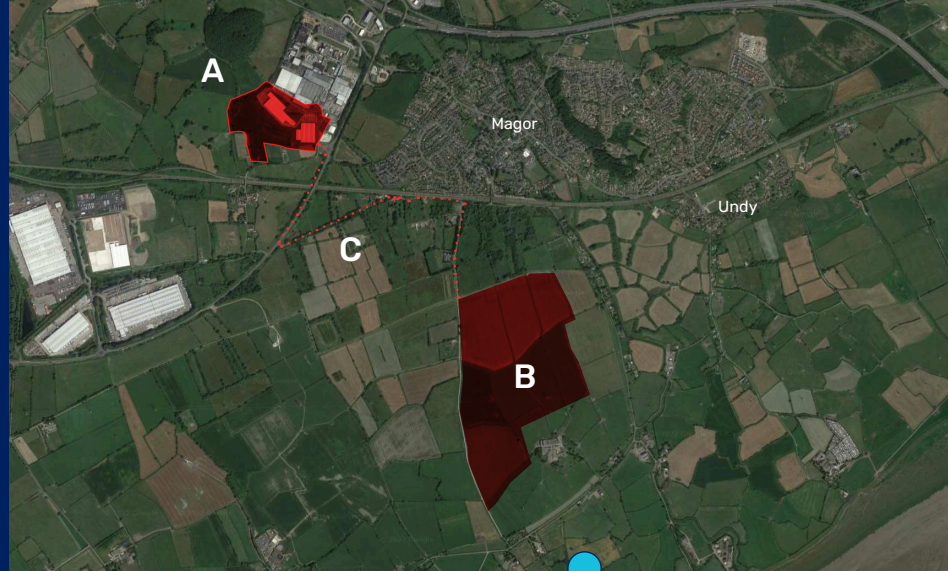
[magornetzero.co.uk](https://magornetzero.co.uk)



# The proposals

The proposed development includes:

- Hydrogen Production Facility (HPF), including 17.5MW Electrolyser
- Hydrogen storage unit
- On-site hydrogen refuelling station
- Photovoltaic (PV) panels and mounting frames – up to 17MW of solar located on land south of Magor
- One 3.45MW wind turbine located alongside the solar panels
- Private wire connection between the renewables site and the Brewery
- Site access for the construction, operational and decommissioning phases



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Indicative image of what the HPF could look like

## Key:

- A:** Site for Hydrogen Production Facility, electrolyser, hydrogen storage unit and hydrogen refuelling station adjacent to Magor Brewery.
- B:** Site for solar panels and wind turbine.
- C:** Indicative route for private wire connection to bring electricity to the Brewery site.

## How does it work?

Renewable energy provided by wind turbines and solar panels will be fed to the site and connect to the Hydrogen Production Facility (HPF). The HPF consists of an electrolyser, which receives the renewable energy necessary to produce hydrogen. Hydrogen is produced by using electricity to break water (H<sub>2</sub>O) down into its component elements – hydrogen (H<sub>2</sub>) and oxygen (O<sub>2</sub>).

Once produced this hydrogen can then be stored on the Brewery site ready for use in canisters by the forklift trucks, or fed directly to the hydrogen ready boilers. A direct pipeline will also supply hydrogen ready HGVs.

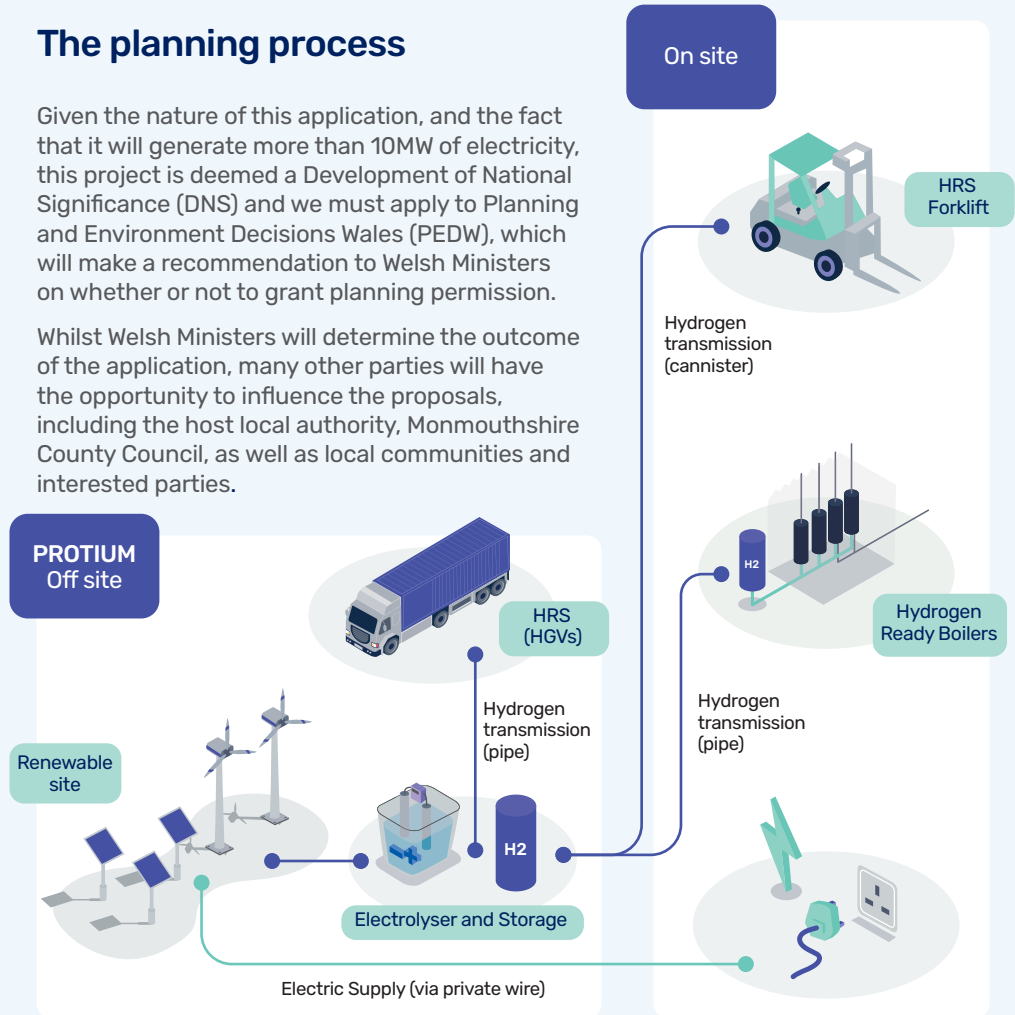
**Want to know more about using hydrogen as a fuel source?**

Visit the project website or get in touch (details on page 5).

## The planning process

Given the nature of this application, and the fact that it will generate more than 10MW of electricity, this project is deemed a Development of National Significance (DNS) and we must apply to Planning and Environment Decisions Wales (PEDW), which will make a recommendation to Welsh Ministers on whether or not to grant planning permission.

Whilst Welsh Ministers will determine the outcome of the application, many other parties will have the opportunity to influence the proposals, including the host local authority, Monmouthshire County Council, as well as local communities and interested parties.



## Project Benefits

Magor Net Zero has the potential to deliver a state of the art facility that could radically change the way industrial processes, such as those required at Magor Brewery, are delivered. This project will future proof the business at Magor Brewery, safeguarding existing jobs, and creating new ones.

The carbon reduction benefits are clear – if we are to meet our climate obligations by 2030, projects like Magor Net Zero will play a vital part in achieving this.

The improvements to the processes involved will mean a much quieter, cleaner facility at Magor, with improved air quality through the removal of emissions from HGVs from local roads and around junction 23a.

### Did you know?

Hydrogen ready HGVs are known as 'Fuel Cell Electric Vehicles', or FCEVs. FCEVs filter air as they move along and only emit water vapours meaning they actually improve air quality as they drive along.



The facility will save approximately 15,500 tonnes of CO<sub>2</sub>e per year from 2027, equating to the removal of roughly 3,300 cars from UK roads or 12,000 long haul flights per year.



Bringing carbon use down in line with the UK and Welsh Government targets.



Utilising renewable energy to create green hydrogen.



Reducing CO<sub>2</sub> emissions from vehicles on local roads.



Safeguarding jobs and investing in new skills to benefit the local community.

## Consulting the community

We would like to hear your views on the draft proposals for the Magor Net Zero Project. Please let us know your initial thoughts by filling out a feedback form online or at the public events. Get in touch with us via the following if you have any queries:

Email: [info@magornetzero.co.uk](mailto:info@magornetzero.co.uk)

Online: [www.magornetzero.co.uk](http://www.magornetzero.co.uk)

Post: **FREEPOST TC CONSULTATION**  
(no further address or stamp required).

If you have any queries about the consultation process you can call **0800 699 0081** (Freephone – Monday to Friday 9am to 5pm excluding public holidays)

### Virtual exhibition

We will be hosting a virtual exhibition on our project website, where you can find all the relevant information. Please visit [www.magornetzero.co.uk](http://www.magornetzero.co.uk)

The virtual exhibition will be live throughout the consultation period from 1st September to 7th October 2022.

## Come along to our public exhibitions

We have arranged two public drop in sessions and an online virtual exhibition to provide you with information about the proposals and seek your feedback.

Find out more and provide your feedback on the early proposals:

- **Redwick Village Hall**, Church Row, Redwick, Caldicot NP26 3DE: Tuesday 20th September 2022 1pm to 7pm
- **Ebenezer Hall**, Magor Baptist Church, The Square, Magor, Caldicot, Gwent NP26 3HY: Saturday 24th September 2022, 10am to 4pm

Autumn  
2021

Project launch

Spring/  
Summer  
2022

Environmental impact assessment scoping process begins to assess environmental considerations for the site

Autumn  
2022

Early informal consultation with the local community

Winter/  
Spring  
2023

Statutory consultation process with local community and consultees

2023

Submission of planning application to Planning and Environment Decisions Wales (PEDW)

# Feedback form

To return your completed feedback form, please tear it off and pop it in the post. The deadline for comments is 7th October 2022.

Name:

Address:

Postcode:

Email:

Telephone:

Age:

**1. What are your early thoughts on the principle of developing Magor Net Zero?**

In favour       Not in favour       Undecided

**2. Please let us know any initial thoughts about the proposed site, the local environment, access considerations or other technical points that you feel we should be taking into account as we develop the proposals.**

**3. We'd like to understand where we may be able to bring local benefit to the communities around the site. Please let us know if you had any thoughts or suggestions on this.**

*By filling-in this form you are agreeing that Protium, ABInBev and the Magor Net Zero project team can hold and process your personal data in relation to this public consultation exercise only. Your data will be stored in line with the GDPR and will not be shared or publicised without your consent. You may seal this form with glue or tape around the edges for additional data security through the post. We will only share your personal data with companies within the Magor Net Zero Project team, and in certain circumstances, specific project consultants for planning evaluation purposes only. Your identifiable, personal data will not be used for any other purposes without your consent.*



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FOLD HERE

## **Instructions:**

To return your feedback form, please remove it from this brochure, fold and put it in the post to us.

If you'd like more space to share your thoughts, send us an email, or just write your comments down and pop them in an envelope with 'FREEPOST TC CONSULTATION' written on the front. You don't need any further address or stamp.

Any queries or problems? Get in touch via  
[info@magornetzero.co.uk](mailto:info@magornetzero.co.uk)