



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 private wire connection to bring electricity to the Brewery site.

Proposals

The Project will involve the construction of a Hydrogen Production Facility (HPF) to support the Brewery site near junction 23a of the M4. The green hydrogen produced will be used to fuel the Brewery's production, as well as its key logistics assets including Heavy Goods Vehicles (HGVs) and forklift trucks.

The HPF will produce green hydrogen via renewable electricity generated by a wind turbine and solar panels close to the site.

The use of green hydrogen technology will help to provide zero-carbon power and fuel for all of the Brewery's operations, bringing emissions close to net zero. The project reaffirms Budweiser Brewing Group's long-term commitment to the site as a significant local employer.

The proposed development is split across two sites to the west and south of Magor. The main components of the hydrogen production and storage facilities are proposed to lie adjacent to the existing Brewery site. A site to the south is proposed to host solar panels and a single 3.45MW wind turbine. A private wire would then connect the two sites and bring the required electricity as it is generated to produce hydrogen and power the Brewery.

Specific application elements



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

Why here?

Protium in partnership with ABInBev has identified the Magor Brewery as the prospective site for a world-leading Hydrogen Production Facility as a means of achieving ABInBev's ambition of reaching net zero across its supply chain by 2040. Magor supplies 8% of the UK's beer supply, meaning that this project could save the UK's biggest beer supplier 15,500 tonnes of carbon emissions annually at the site.

With supporting infrastructure already in place, including road access, the proposals are intended to supplement the workings of the Brewery and shift production towards carbon neutrality.

Many factors are considered by our specialists when evaluating appropriate sites for development. These include considering various planning and environmental constraints.

“South Wales has a heavy industrial heritage and this project could provide a roadmap for other industries in the area and bring new employment opportunities across this emerging green sector.

With hydrogen's potential to transform multiple alternative industries across the country, this project could make Wales a global pioneer in sustainability.”

Chris Jackson – CEO Protium