

Addressing the climate emergency

We all know the importance of reducing our carbon footprint drastically if we are to stand a chance of addressing global warming and halting the changes to our planet.



Welsh Government targets

The Welsh Government has acknowledged that there is a climate emergency and has committed to decarbonising to tackle the causes of climate change over the coming years. Generating renewable energy is a key part of that commitment and the Welsh Government has set ambitious targets for the generation of renewable energy, including for **70% of electricity consumption to be generated from renewable energy by 2030.**

In the recently published Energy Security Strategy, the UK Government set a target to reach 10GW of hydrogen production by 2030, with the ambition to have 1GW in construction or operational by 2025, 50% of which will be green hydrogen.

The Magor Net Zero proposals will make a significant contribution towards these goals.

Security of supply

Renewable energy generated in the UK reduces the need to import electricity from abroad. This not only creates energy industry jobs in the UK, but makes our energy supply and prices more secure, since foreign energy can vary in price as supply and demand changes. The deployment of green hydrogen production and storage allows for further specific management of supply to meet demand and helps control the delivery of electricity to the Grid or industrial processes in a way that assists the National Grid to balance power across the network.



Benefits summary:



Improving local air quality through use of Fuel Cell Electrical Vehicles (FCEVs) – our vehicles only emit water vapour whilst filtering particulates out of the air as they move



Reducing sound pollution – FCEVs make little noise when operating



Reducing greenhouse gas emissions – improving the environment and safeguarding a future for our children



New skills and training for local workforce in Monmouthshire and across the supply chain



Increased job security – providing employment in highly skilled local jobs in an emerging green technology sector



Exploring the opportunity for local benefits in consultation with the community



Bringing hydrogen sustainability education to local schools with exciting opportunities for learning how clean energy is created to inspire future STEM careers



This pioneering project will help situate Wales at the forefront of the green industrial revolution by supporting new and emerging green technologies which will provide a blueprint for climate action across the UK and the wider world