

OCTOBER 2021

THE HYDROGEN CLIMATE SOLUTION

As a country our energy supply needs to be decarbonised rapidly to help mitigate climate change. Hydrogen alongside clean electricity will be required.

Current total UK energy consumption per year, including power, heat and transport*

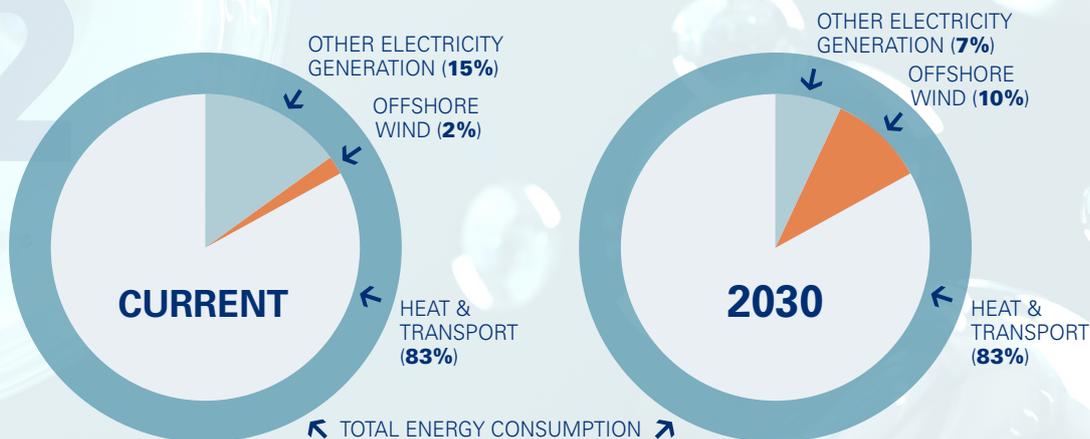
1740TWh



17% of total energy consumption comprises electricity use

2% of total energy consumption is supplied by offshore wind – our largest renewables source

The UK is targeting a four-fold increase in offshore wind by **2030**, which could provide up to **10%** of total energy consumption with efficiency gains, but this falls far short of the total.



We therefore support the Climate Change Committee's assessment that we need low carbon hydrogen produced from all sources as quickly as possible.

This includes 'GREEN' hydrogen produced with clean electricity as well as 'BLUE' hydrogen made from natural gas with carbon capture and storage.

Critically, whatever the source, robust regulation and monitoring systems are needed to ensure that the hydrogen reaching an end user is providing an environmental benefit, i.e., that its production meets the conditions of the UK's low carbon hydrogen standard.

*Digest of UK Energy Statistics (DUKES) 2020

WWW.CIA.ORG.UK



@SEE_CHEM_BUS



RESPONSIBLE CARE

Contact:

Rich Woolley | Head of Energy and Climate Change | WoolleyR@cia.org.uk | 07947 687882

Simon Marsh | Communications Director | MarshS@cia.org.uk | 07951 389197