



# The Role of Green Hydrogen

decarbonising industry & heavy transport



At bp, we are taking action through *transformative projects* that will help us achieve our net zero ambitions.

01

We are aiming for a 40% reduction in emissions by 2030, and to reach net zero by 2050 or sooner.

02

We are aiming to develop a net renewable energy capacity of 20 GW by 2025 and 50 GW by 2030.

03

Our hydrogen pipeline covers nearly 2.18 GW of projects.



*We're backing* hydrogen and carbon capture and storage  
to help Teesside and the UK **decarbonise power  
and industry.**

Hydrogen is the number one industrial decarbonisation solution, generating energy intensity that electricity cannot match.

Carbon capture and storage will play a critical role in securely and safely storing the vast majority of CO<sub>2</sub> emissions produced by heavy industry, before they enter the atmosphere.

Both have momentum in public discourse and policy support. Now practical expertise is needed to manage the step-change.



# Spotlight on HyGreen Teesside

Working to decarbonise one of the UK's biggest industrial clusters, anchored by 'green' hydrogen

HyGreen Teesside project targets 80MWe of 'green' hydrogen production by 2025.

The large-scale green hydrogen production facility could deliver up to 5% of the UK government's hydrogen target of 10GW by 2030.

It is expected to fuel the development of Teesside into the UK's first major hydrogen transport hub, leading the way for large-scale decarbonization of heavy transport, airports, ports and rail in the UK.

HyGreen Teesside could provide enough low carbon hydrogen to power the equivalent of over 10,000 Heavy Goods Vehicles.



# The right partner for Teesside & beyond

## Depth of experience

We have deep experience of engineering, building and operating commercial energy projects at scale, in the UK and around the world.

Our extensive energy expertise from across the value chain can offer the right solutions to help decarbonise Teesside.

## Ambition

We are reimagining energy and committed to a net zero future, for Teesside, the UK and for bp.

We believe that our projects on Teesside will protect thousands of jobs, acting as a magnet for further investment in the region and enabling the UK's Ten Point Plan for a green industrial revolution.

## Trusted partners

We are partners for the long-term. We have a long connection to the Teesside area and its industrial roots and are proud to be part of its future.

We believe that we are the right partner for Teesside. As a British company, leading on global decarbonisation efforts, we can sustain UK industry and develop the green skills of tomorrow.

We're developing leading-edge offshore wind farms in the Irish and North Sea, contributing to the UK's 50GW and Scotland's 11GW offshore wind targets for 2030.

## Morgan, Mona, and Morven

### Morgan and Mona

**Location:**  
30km from the coast

**Area:**  
Morgan ~300km<sup>2</sup>  
Mona ~500km<sup>2</sup>  
= half the size of Greater London

**Generating capacity:**  
**~3GW**  
Sufficient to power c.3.4m UK homes

### Morven

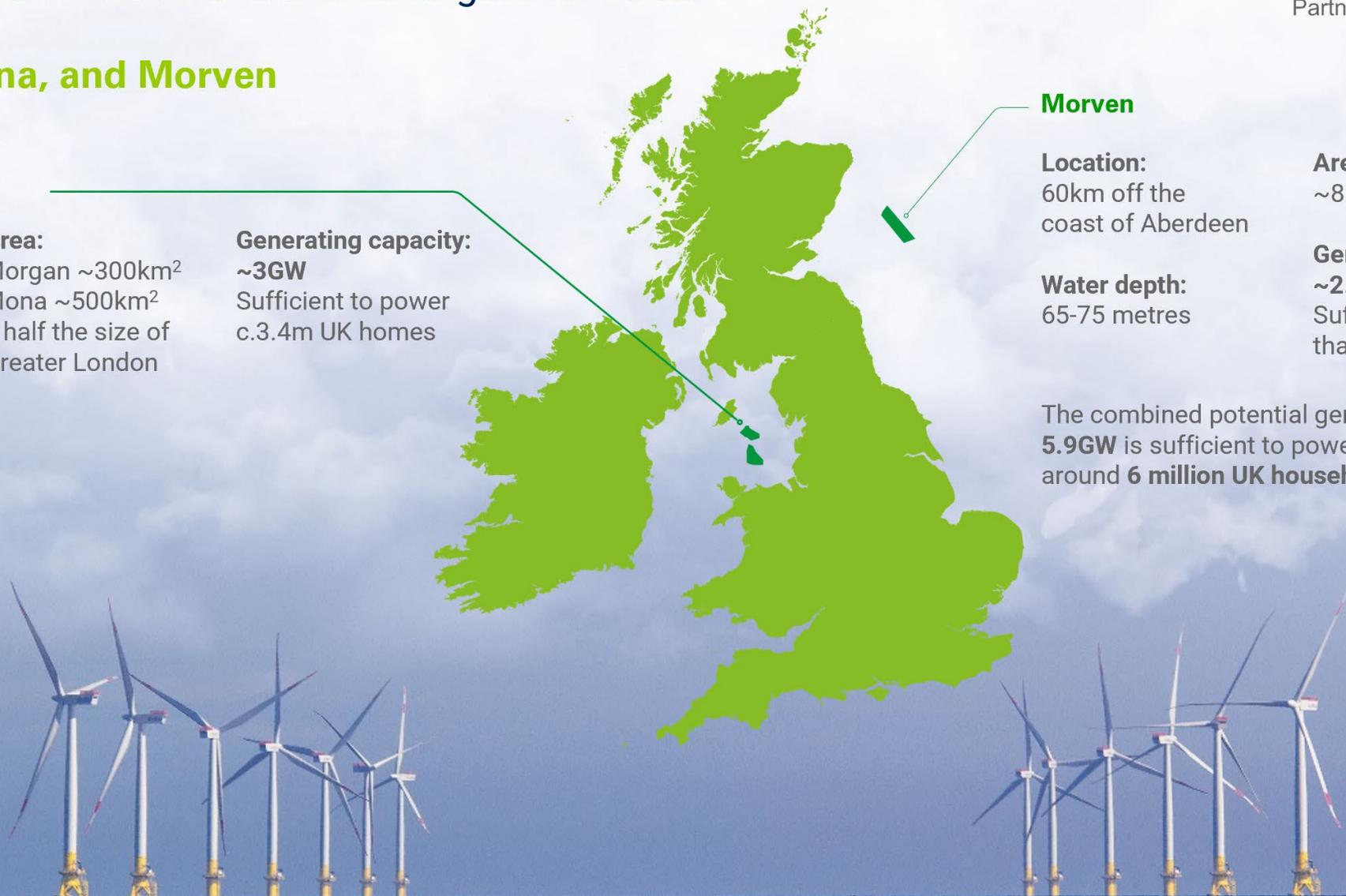
**Location:**  
60km off the coast of Aberdeen

**Area:**  
~860km<sup>2</sup>

**Water depth:**  
65-75 metres

**Generating capacity:**  
**~2.9GW**  
Sufficient to power more than c.3m UK homes

The combined potential generating capacity of **5.9GW** is sufficient to power the equivalent of around **6 million UK households with clean electricity**



# Today we're partnering to *lead the climate transition.*

- There's no single solution; a range of energy options are needed, however,
- Green hydrogen is fundamental to the decarbonisation of industry and heavy duty transport in the UK
- Let's talk!



Thank You

