



Hydrogen Cymru 3rd July 2025

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RWE in the UK

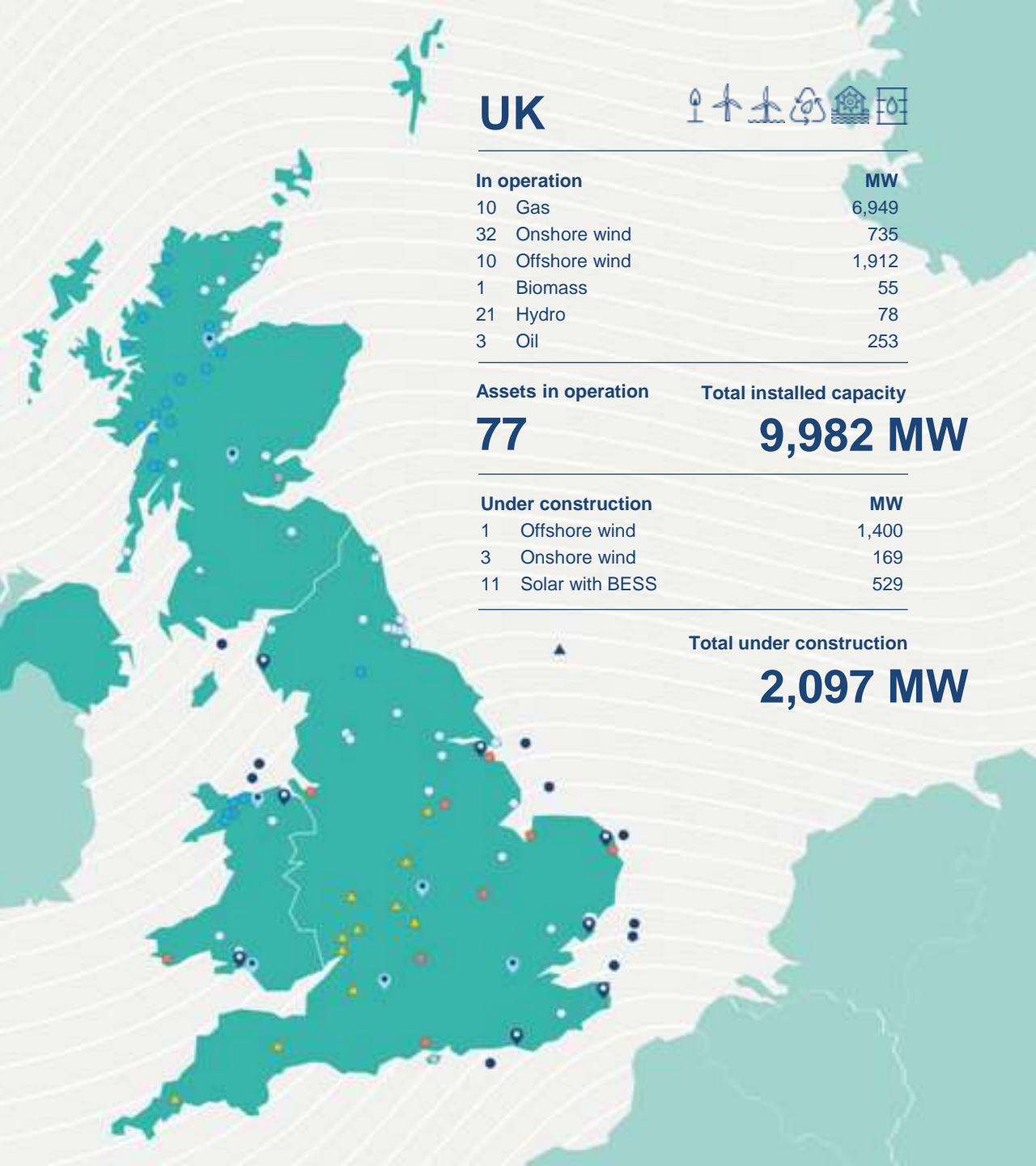
RWE is the **UK’s leading power generator**, supplying the equivalent of around **12 million homes** with power each year.

We have a diverse operational portfolio of **onshore wind, offshore wind, hydro, biomass, and gas.**

We have **15 renewable energy projects under construction**, including **11 solar PV & co-located battery projects**, plus much more in development.

- In operation**
 - Offshore wind
 - Onshore wind
 - Hydro
 - Biomass
 - Gas
 - Oil
- Under construction**
 - ▲ Offshore wind
 - △ Onshore wind
 - ▲ Solar & BESS
- Bases**
 - Offices
 - O&M Bases

MW: pro rata, based on equity share. Operational capacity as of 30 September 2024. Site placing is approximate. Some sites have multiple assets. Numbers may not sum due to rounding. BESS: Battery Energy Storage Systems at 4 out of 11 sites. O&M: Operations and Maintenance



UK



In operation		MW
10	Gas	6,949
32	Onshore wind	735
10	Offshore wind	1,912
1	Biomass	55
21	Hydro	78
3	Oil	253

Assets in operation

77

Total installed capacity

9,982 MW

Under construction		MW
1	Offshore wind	1,400
3	Onshore wind	169
11	Solar with BESS	529

Total under construction

2,097 MW

RWE in Wales



~ 3 GW

of power generation, including the UK's first large-scale offshore wind farm North Hoyle*



~ £3 bn

invested in Wales since 2010



~ 350

Wales based employees

In operation



2 Offshore wind farms*



3 Onshore wind farms



5 Hydro power stations



1 Gas fired power station



In operation

●	1 Gas	2,181
●	3 Onshore wind	186
○	2 Offshore wind*	333
●	5 Hydro	45

Assets

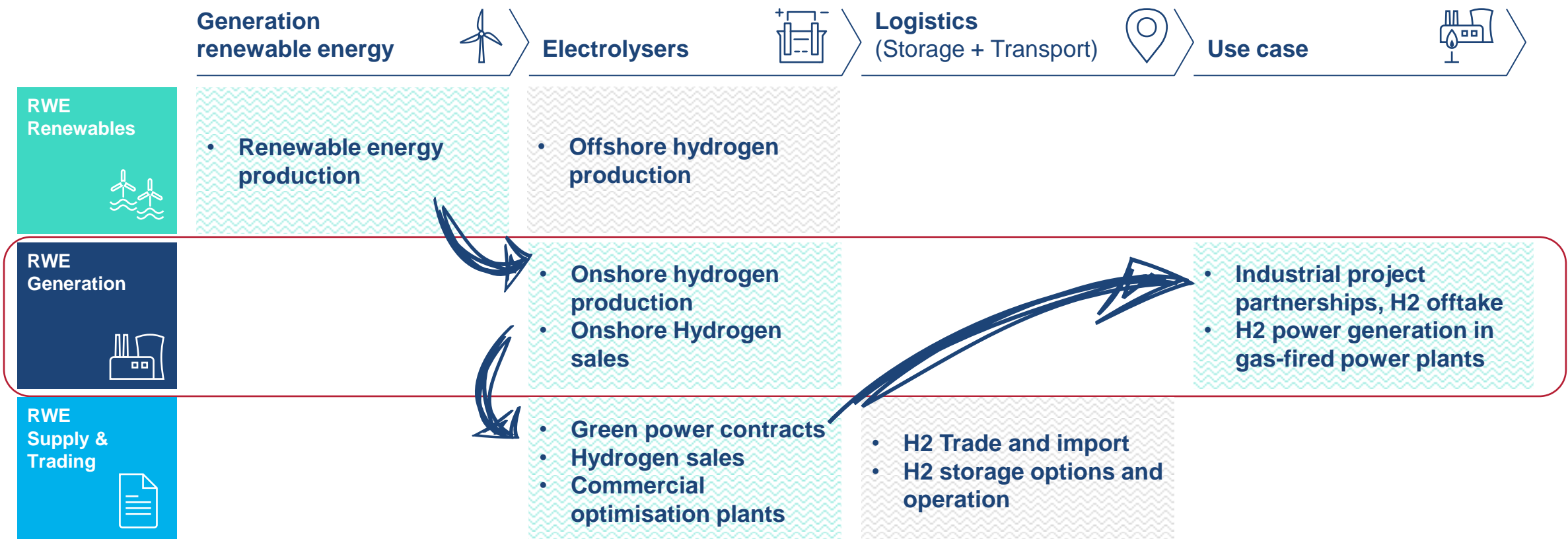
11

Total installed capacity

2,745 MW

RWE covers the entire value chain for green hydrogen

Competencies of RWE companies along the green hydrogen value chain



Lingen is a pivotal hub to build RWE's hydrogen activities in Germany



- 1 TransHyDE**
Construction and operation of a test hydrogen infrastructure, consisting of a “closed-loop system” and test sections
- 2 Pilot plant**
Installation and operation of two different types of electrolyzers (14 MW) to gain operational experience.
- 3 GetH₂**
Development of large-scale electrolysis capacities (300 MW by 2026), a hydrogen network, a hydrogen storage cavern, and large-scale offtake in various industries
- 4 Kawasaki H₂ turbine**
Development of a 30-MW turbine that can run on up to 100% hydrogen during operation
- 5 Further industrial H₂ production**
- 6 Mobility solutions**

2 RWE projects successfully shortlisted by DESNZ in HAR2

More projects in development across the UK targeting future hydrogen allocation rounds and in line with CCC's 7th Carbon Budget hydrogen pathways:

- Ceramics, glass and other minerals
- Refineries
- Chemicals
- Iron & steel
- NRMM
- Food & Drink



Grangemouth Green Hydrogen (100 MW)



Pembroke Green Hydrogen (100 MW)

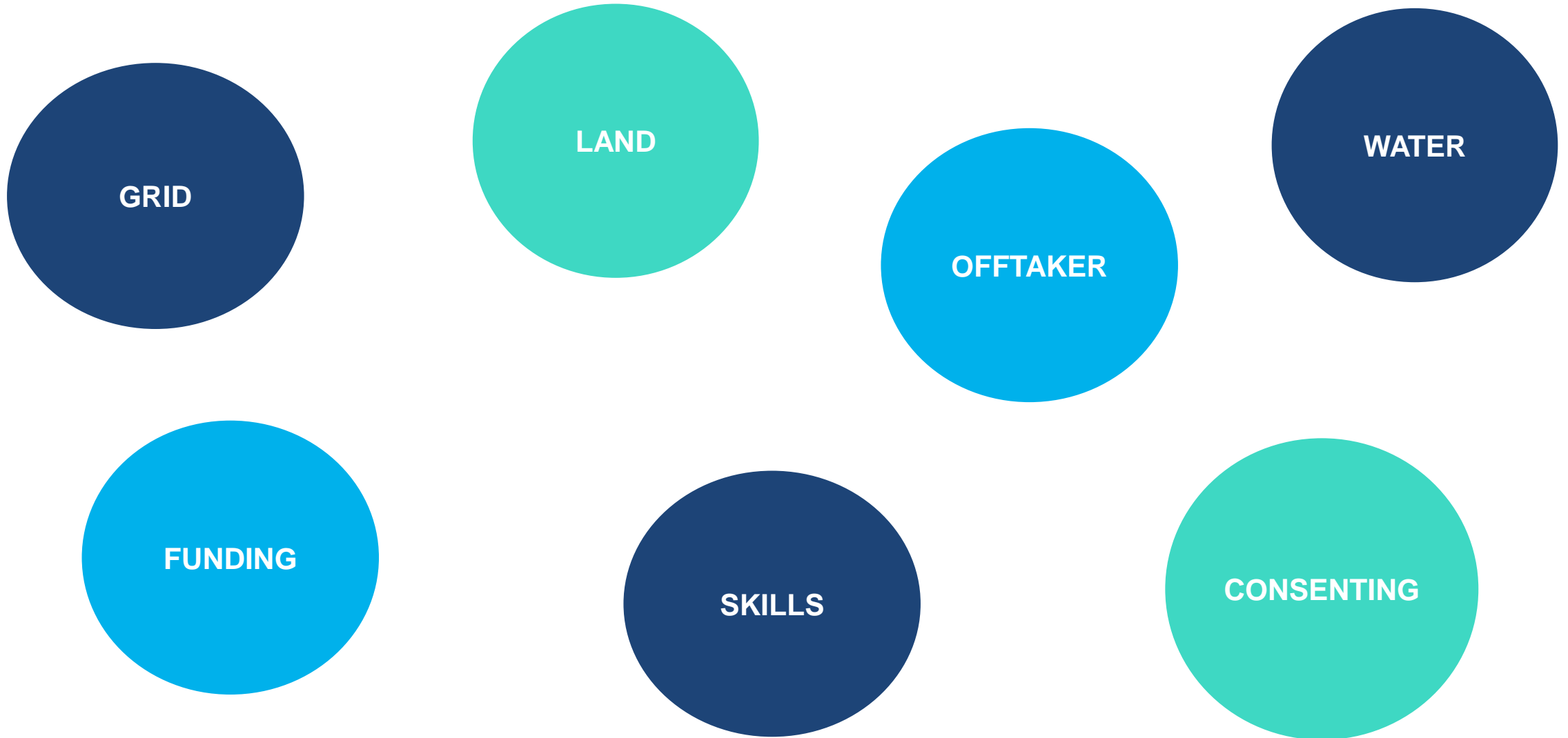
Pembroke Green Hydrogen Phase 1

H₂

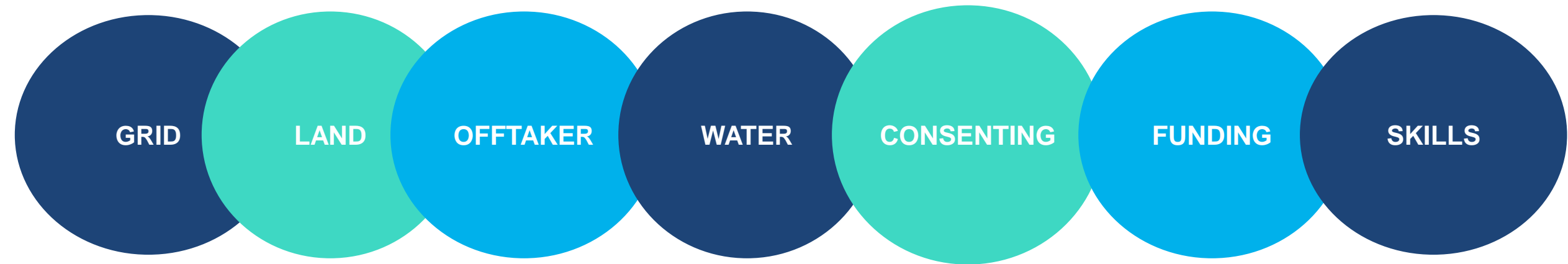


- On land owned by RWE, part of our **Pembroke Net Zero Centre** ambitions
- Up to 2 tonnes/hour of hydrogen supplied to an industrial **offtaker reducing emissions by approximately 93,000 tonnes annually** (equivalent to removing 18,600 cars)
- Project **received planning permission in December 2024**
- Procurement for Front End Engineering Design and the Electrolyser ongoing
- Project was **recently shortlisted** in the UK Government's **Hydrogen Allocation Round 2 (HAR2)** funding scheme. Now in further due diligence phase
- COD planned for 2029

Insights/Challenges for future Welsh hydrogen projects



Insights/Challenges for future Welsh hydrogen projects



Thank you for listening

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