

SSE RENEWABLES AN INTRODUCTION

For a better world
of energy

18 May 2022



ABOUT SSE RENEWABLES

An overview of our business



OUR PURPOSE

To lead the net zero transition through the world-class development, financing, construction, and operation of renewables

- We're **part of the FTSE-listed SSE plc**, the UK and Ireland's clean energy champion, with a growing presence internationally
- We're building **more offshore wind than any other company** in the world right now
- We're a **team of over 1,000** renewable energy professionals

OUR VISION

To be a leading renewables major in a net zero world



OUR RENEWABLE GENERATION



4GW
operational/owned



11GW
secured pipeline



10GW
future prospects

OUR 2030 AMBITION

Addressing climate change at its core

- SSE's **four 2030 business goals** are linked to the UN Sustainable Development Goals
- In SSE Renewables, our ambition is to increase our output to at least **50TWh annually** over the next decade
- As part of its fully-funded **Net Zero Acceleration Programme**, SSE will invest **£12.5bn** in new energy infrastructure **by 2026**
- Through this plan, we will double our 4GW of installed renewable capacity to 8GW over the next four years (and increase it to **13GW by 2031**)
- We will maintain a sustained development **pipeline of over 15GW** and an **annual build rate of 1GW (net)**

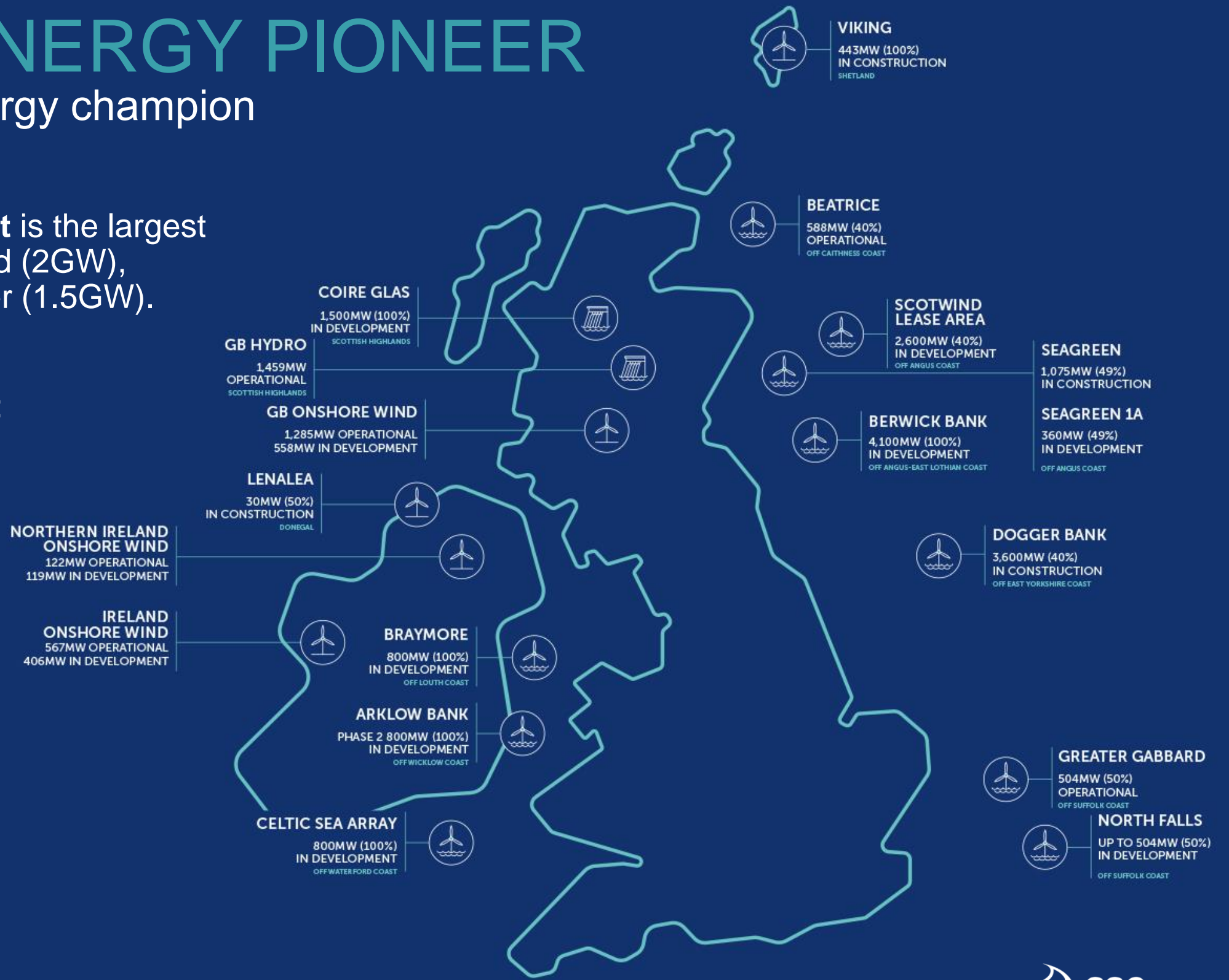
2030 Goals

<p>Cut our carbon intensity by 80%</p> <p>Reduce Scope 1 carbon intensity of electricity generated by 80% by 2030, compared to 2017/18 levels, to 61gCO₂e/kWh.</p> <p>SUSTAINABLE DEVELOPMENT GOALS </p>	<p>Increase renewable energy output fivefold</p> <p>Build a renewable energy portfolio that generates at least 50TWh of renewable electricity a year by 2030.</p> <p>SUSTAINABLE DEVELOPMENT GOALS </p>
<p>Enable low carbon generation and demand</p> <p>Enable at least 20GWh of renewable generation and facilitate around 2 million EVs and 1 million heat pumps on SSEN's electricity networks by 2030.</p> <p>SUSTAINABLE DEVELOPMENT GOALS </p>	<p>Champion a fair and just energy transition</p> <p>Be a global leader for the just transition to net zero, with a guarantee of fair work and commitment to paying fair tax and sharing economic value.</p> <p>SUSTAINABLE DEVELOPMENT GOALS </p>

A RENEWABLE ENERGY PIONEER

The UK and Ireland's clean energy champion

- Our **4GW operational renewables fleet** is the largest in the UK and Ireland, with onshore wind (2GW), offshore wind (0.5GW), and hydro power (1.5GW).
- Our industry-leading **11GW secured pipeline** in the UK and Ireland includes:
 - **4.1GW Berwick Bank** offshore wind super project
 - **2.6GW ScotWind** floating offshore wind lease site
 - **2GW offshore wind pipeline** at three sites in Ireland
 - **1GW+ onshore wind pipeline** across the UK and Ireland
 - **1.5GW Coire Glas** pumped hydro storage project



Private and Confidential

OFFSHORE WIND: SSER'S LEADERSHIP

>15 year's experience in the most advanced Offshore Wind market in the world



Greater Gabbard
Offshore Winds Limited

504 MW

Operational, 2012
Depth: Up to 34m

Distance from shore: >20 km



NORTH FALLS

Offshore Wind Farm

504 MW

In development
Depth: Up to 34m

Distance from shore: >20 km

- Greater Gabbard development activities commenced pre-2003 and was for many years the world's largest offshore project in development
- **World's largest offshore wind farm** at completion
- Managed **£1.5bn investment** on balance sheet
- Currently developing North Falls as an extension project



588 MW

Operational, 2019
Depth: Up to 55m

Distance from shore: >10 km

- Led Development, Construction & lead Operations of **Scotland's second largest operational offshore wind farm**
- **World's deepest installation of fixed foundations** and largest offshore windfarm to use jacket foundations at completion
- **Multi-contracting strategy to manage £2.5bn investment**, completed £100m under budget



1,075 MW

In construction
Depth: Up to 62m

Distance from shore: c30 km

- Leading Development, Construction & Operations of **Scotland's future largest offshore wind farm**
- **World's largest and deepest deployment** of suction caisson jacket foundations
- **Multi-contracting strategy to manage £3bn investment** across four work packages



3,600 MW

In construction
Depth: Up to 63m

Distance from shore: >130 km

- Leading development and construction of **world's largest offshore wind farm**
- **World first deployment of the world's largest wind turbine**, GE's 13 MW Haliade-X, with world's largest Jack-Up Installation Vessel
- Awarded **world's largest cabling contract** (650 km)
- **First UK project** to use HVDC grid connection
- **Multi-contracting strategy to manage c£6bn investment** across >20 main construction contracts for phases A&B



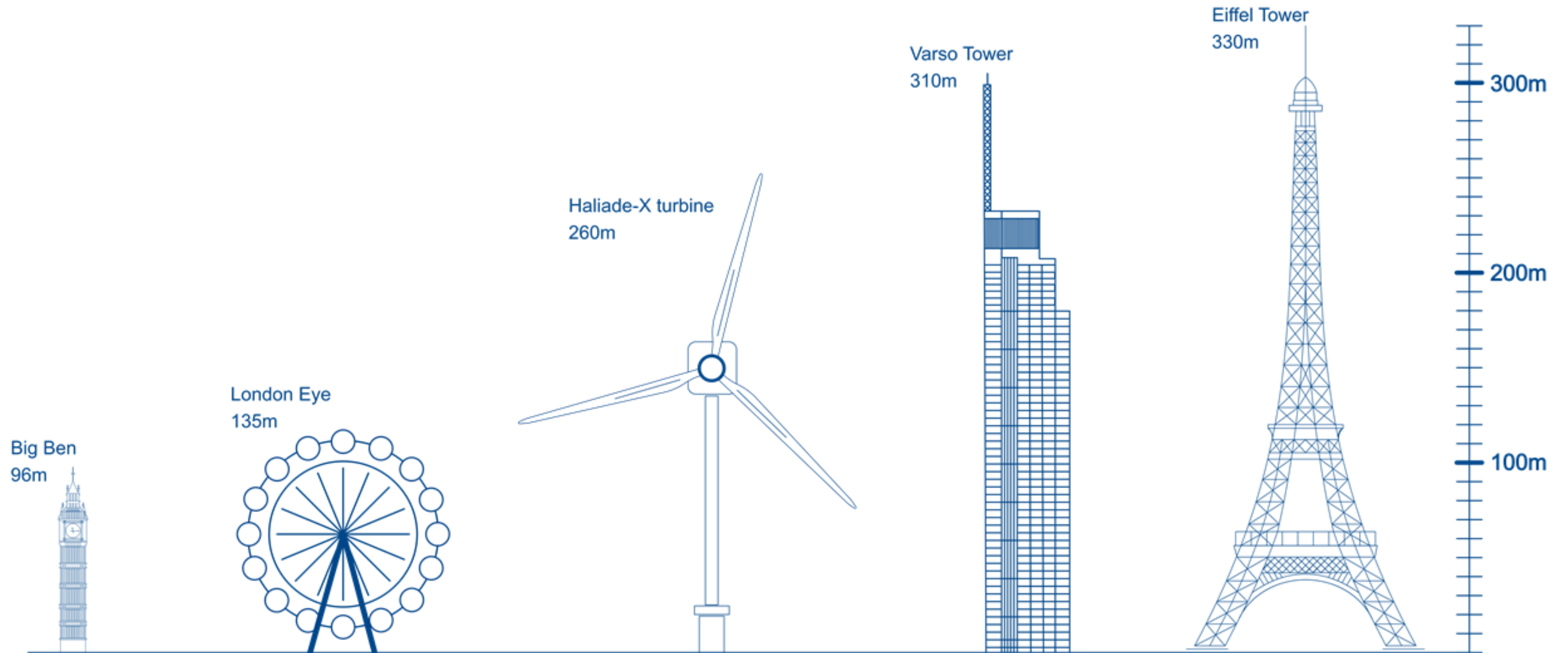
SSER has successfully raised over **£8.2bn** of debt financing for Beatrice, Seagreen and Dogger Bank A&B construction

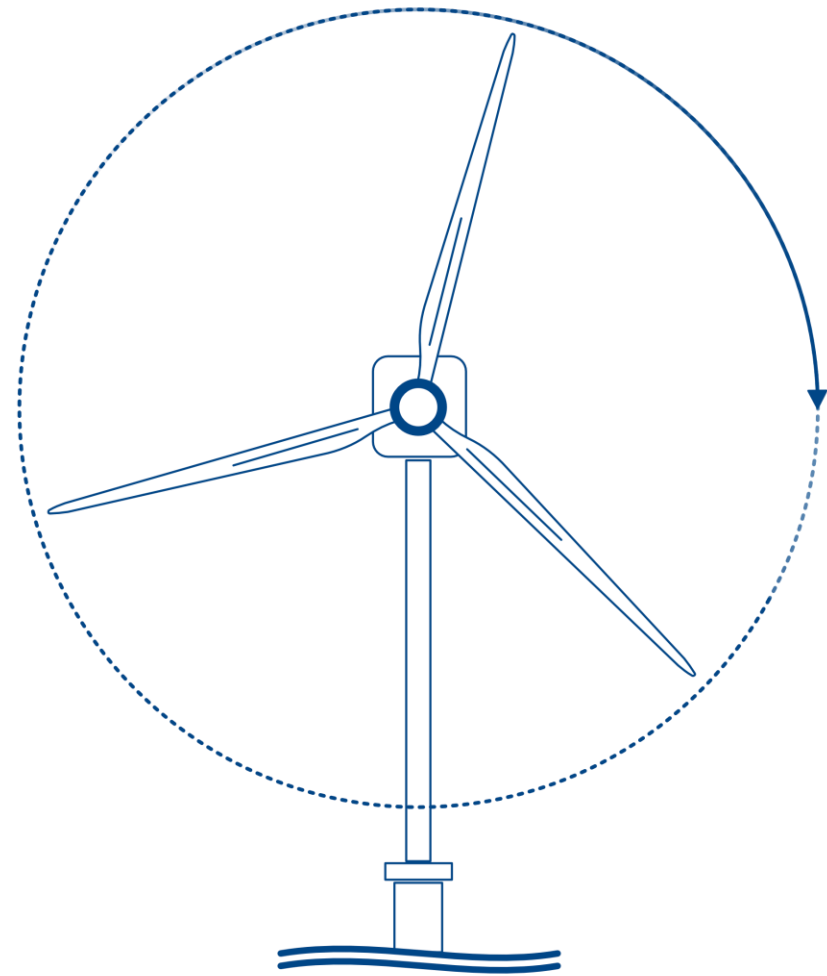
DOGGER BANK WIND FARM



Dogger Bank will be the world's largest offshore wind farm, powering 6m UK homes.

DEPLOYING THE HALIADE-X TURBINE





One turn of one
of Dogger Bank's
277 turbines can
power a UK
home for 2 days

DELIVERING LOCAL SUPPLY CHAIN

SSER is a leader on delivering supply chain and wider socio-economic benefits

Seed order for new GE blade factory in North East England

GE Renewable Energy has unveiled plans to open a new world-class blade manufacturing facility in the North East of England to produce blades for its Haliade-X turbine that will power Dogger Bank, the world's largest offshore wind farm. It will be on the site of a former steel works.



Investing £15m in a new tower factory in Scotland

SSE Renewables is investing in Nigg Offshore Wind, a new offshore wind turbine tower factory in the Scottish Highlands at a total investment cost of over £110m, backed by £15m in debt funding from SSE Renewables to make it happen.

It will be a giant, 450-meter-long, 38,000 m² factory, capable of rolling steel plate to supply towers which will weigh in excess of 1,000 tonnes each, as well as other offshore products.

Once operational in 2023, NOW will employ 400 people on a full-time direct basis manufacturing up to 135 towers each year for the next generation of fixed and floating offshore wind turbines.

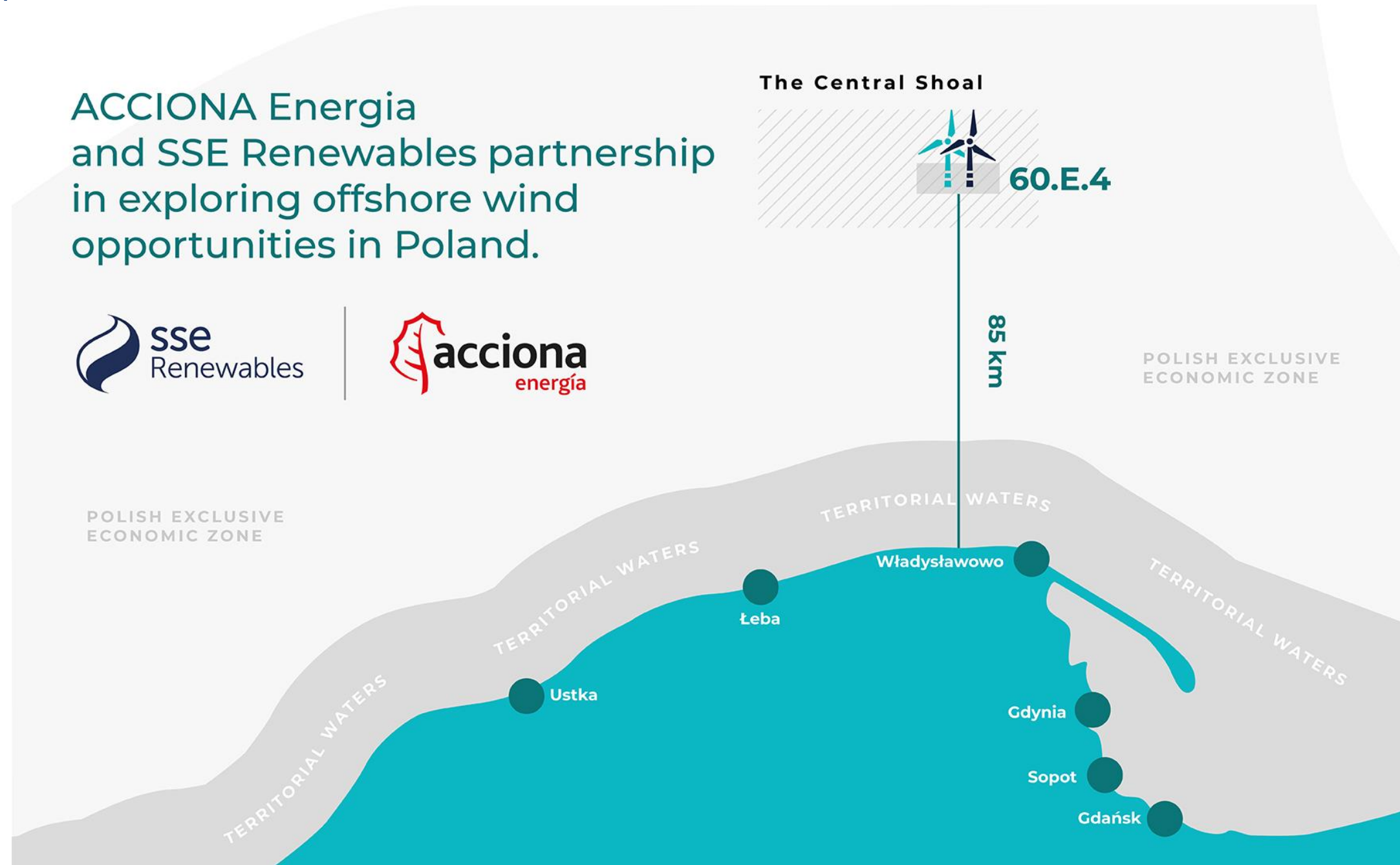
THANK YOU

sserenewables.com



OUR PLANS IN POLAND

ACCIONA Energia and SSE Renewables partnership in exploring offshore wind opportunities in Poland.



- In April 2022 SSER submitted an Offshore Location License application for site 60.E.4 in the Baltic Sea.
- It is a complex site but has fantastic wind conditions. SSER has the expertise and track record to successfully develop the site safely, on time and on budget.
- The secondary application is expected to start soon.
- If successful with the application, SSER will work with Acciona Energia to develop the project.