

### TotalEnergies and RWE join forces to implement OranjeWind project as blueprint for Dutch energy system of the future

- Synergies leveraged to realise OranjeWind offshore wind farm with an installed capacity of 795 megawatts as first system integration project on Dutch market
- Each partner has 50% stake in OranjeWind offshore wind farm, for which final investment decision has been taken
- Partners are committed to delivering their allocated part of flexible system integration solutions, including electrolysers, battery storage, e-boilers and smart charging solutions to perfectly match intermittent wind power generation with flexible demand

Essen, 24 July 2024

RWE and TotalEnergies have entered into a partnership agreement to jointly deliver the OranjeWind offshore wind project in the Netherlands, with TotalEnergies will acquire a 50% equity stake in the offshore wind farm from RWE. The OranjeWind project will be the first system integration project in the Dutch market. It aims to perfectly match intermittent wind power generation with flexible energy demand and will thus contribute to grid stability. To this end, TotalEnergies and RWE are committed to implementing flexible demand solutions across different locations in the Netherlands.

RWE and TotalEnergies have also taken the investment decision to build the OranjeWind offshore wind farm, which will have an installed capacity of 795 megawatts (MW). Suppliers for the main components have already been selected. OranjeWind is located in the North Sea, approximately 53 kilometres from IJmuiden on the Dutch coast, in the province of Noord-Holland. RWE will lead the development, construction and operation of the wind farm on behalf of the joint venture. Offshore construction is scheduled to start in 2026, with full commissioning expected in early 2028. With an expected annual generation of around 3 terawatt hours OranjeWind will produce enough green electricity to supply the equivalent of more than one million Dutch households.

**Sven Utermöhlen, CEO RWE Offshore Wind:** “The Netherlands is one of our strategic core markets to grow our green portfolio. In TotalEnergies I am delighted to have a strong partner at our side with whom we can realise our first offshore wind project in the Netherlands and at the same time unlock the full system integration of OranjeWind. Together, we will provide a blueprint for the Dutch energy system of the future, designed to tackle the challenges of intermittent wind generation and flexible energy demand. As key players in the Dutch energy market, we are both committed to helping the Netherlands meet its decarbonisation targets.”

# RWE

**Stéphane Michel, President Gas, Renewables & Power, and Bernard Pinatel, President Refining & Chemicals, TotalEnergies:** “We are looking forward to working with RWE, a major player in renewable, on a project that will enable us to develop production of green hydrogen, which we need to decarbonise our refineries in northern Europe. This integrated, innovative project perfectly illustrates our pioneering role in the energy transition in Europe, especially through the emergence of offshore wind power linked to green hydrogen electrolyzers in the Netherlands.”

## **OranjeWind: A perfect match of supply and demand**

In order to address the challenges presented by matching intermittent electricity production from renewables with flexible demand for energy, a key part of the OranjeWind project is its integration into the Dutch energy system. To this end, each partner will deliver their allocated part of system integration solutions, including electrolyzers, smart charging solutions for electric vehicles, e-boilers for heating and battery storage.

## **Paving the way for innovative solutions**

Part of the OranjeWind project is also to accelerate the commercial application of new offshore technologies by supporting a vast amount of innovators and start-ups in demonstrating their innovation in an operational environment. To allow more efficient use of ocean space, an offshore demonstration floating solar farm is currently being developed by RWE in collaboration with SolarDuck, a Dutch-Norwegian company that specialises in offshore floating solar solutions. Furthermore, the partners are looking at using scanning LiDAR (Light Detection and Ranging system), a technology that can accurately measure wind at long ranges. In addition, the OranjeWind project is also to demonstrate a seabed battery system developed in cooperation with Verlume and a pumped hydro-storage system in collaboration with Ocean Grazer.

## **Experienced supply chain partners selected to deliver OranjeWind offshore wind farm**

For the OranjeWind offshore wind farm, a turbine supply agreement was signed with Vestas for 53 of its 15-MW turbines (V236) and a foundation supply agreement was made with SiF for 53 monopiles. The inter-array cables will be supplied by TKF. Jan De Nul was contracted to transport and install the foundations and wind turbines, using its floating heavy lift vessel “Les Alizés” and its jack-up installation vessel “Voltaire”. The offshore grid connection will be implemented by the network operator TenneT. For this purpose, the inter-array cables will be connected to the TenneT-owned offshore substation from where the export cables will run to the high-voltage onshore substation in Wijk aan Zee.

### **For further enquiries:**

Sarah Knauber  
RWE Offshore Wind GmbH  
Press spokesperson  
T +49 (0) 201 5179 5404  
E sarah.knauber@rwe.com

**An OranjeWind project [map](#) and [pictures](#) of RWE’s European offshore wind projects** are available at the RWE Media Centre (Credit: RWE).



## RWE

RWE is leading the way to a green energy world. With its investment and growth strategy Growing Green, RWE is contributing significantly to the success of the energy transition and the decarbonisation of the energy system. Around 20,000 employees work for the company in almost 30 countries worldwide. RWE is already one of the leading companies in the field of renewable energy. Between 2024 and 2030, RWE will invest 55 billion euros worldwide in offshore and onshore wind, solar energy, batteries, flexible generation, and hydrogen projects. By the end of the decade, the company's green portfolio will grow to more than 65 gigawatts of generation capacity, which will be perfectly complemented by global energy trading. RWE is decarbonising its business in line with the 1.5-degree reduction pathway and will phase out coal by 2030. RWE will be net-zero by 2040. Fully in line with the company's purpose - Our energy for a sustainable life.

### RWE and Offshore Wind

RWE is one of the world's leading players in offshore wind with 19 offshore wind farms in operation. Beside OranjeWind the company is currently constructing three large-scale offshore wind farms: the 1.4-GW Sofia project off the UK's east coast, the 1.1-GW Thor wind farm off the Danish coast and the Nordseecluster with a total capacity of 1.6 GW north of the German island of Juist. RWE aims to triple its global offshore wind capacity from 3.3 GW currently to 10 GW by 2030.

### About TotalEnergies

TotalEnergies is a global integrated energy company that produces and markets energies: oil and biofuels, natural gas and green gases, renewables and electricity. Our more than 100,000 employees are committed to provide as many people as possible with energy that is more reliable, more affordable and more sustainable. Active in about 120 countries, TotalEnergies places sustainability at the heart of its strategy, its projects and its operations.

### TotalEnergies and electricity

As part of its ambition to get to net zero by 2050, TotalEnergies is building a world class cost-competitive portfolio combining renewables (solar, onshore and offshore wind) and flexible assets (CCGT, storage) to deliver clean firm power to its customers. At the end of 2023, TotalEnergies' gross renewable electricity generation installed capacity was 22 GW. TotalEnergies will continue to expand this business to reach 35 GW in 2025 and more than 100 TWh of net electricity production by 2030.

### TotalEnergies and offshore wind

TotalEnergies' portfolio in offshore wind has a total capacity of more than 16 GW, with most farms bottom-fixed. These projects are located in the United Kingdom (Seagreen, Outer Dowsing, West of Orkney, Erebus), South Korea (Bada), Taiwan (Yunlin, Haiding 2), France (Eolmed), the United States (Attentive Energy and Carolina Long Bay), and Germany (N-12.1 and O-2.2).

### Forward-looking statements

*This press release contains forward-looking statements. These statements reflect the current views, expectations and assumptions of management, and are based on information currently available to management. Forward-looking statements do not guarantee the occurrence of future results and developments and are subject to known and unknown risks and uncertainties. Actual future results and developments may deviate materially from the expectations and assumptions expressed in this document due to various factors. These factors primarily include changes in the general economic and competitive environment. Furthermore, developments on financial markets and changes in currency exchange rates as well as changes in national and international laws, in particular in respect of fiscal regulation, and other factors influence the company's future results and developments. Neither the company nor any of its affiliates undertakes to update the statements contained in this press release.*

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