

## Press Release

# RWE Renewables and Saitec test innovative floating platform solution for offshore wind turbines

- **SATH-Technology promises cost benefits in future floating offshore market**
- **DemoSATH, a concrete platform hosting a 2 MW turbine, is scheduled for commissioning in autumn 2021**

Essen/Bilbao, 24 February, 2020

RWE Renewables and Saitec Offshore Technologies have joined forces to test new ways to affordably install and operate offshore wind farms in deep waters. In a joint pilot project called “DemoSATH”, the RWE subsidiary specialising in renewable energy and the Spanish engineering company Saitec will start testing a floating platform for wind turbines off the Basque Coast in 2021.

SATH technology is based on a twin hull made of modularly prefabricated and subsequently braced concrete elements. The float can align itself around a single point of mooring according to the wind and wave direction. The objective of the project is to collect data and gain real-life knowledge from the construction, operation and maintenance of the unit. The pilot project will last 3.5 years: 18 months for the planning and construction of the plant, followed by a two-year operating phase.

RWE Renewables CEO Anja-Isabel Dotzenrath declares, “We see great potential for floating wind farms worldwide. Especially in countries with deeper coastal waters, this opens up attractive opportunities. With DemoSATH, we are gaining experience with an innovative concrete-based platform technology that will help us to position ourselves in this growth market.”

Saitec Offshore’s COO Luis González-Pinto states: “The potentiality of SATH to reduce the cost of floating wind is immense. Now is time to build and operate this floating wind turbine and widen this exciting market”. Collaboration between both companies is seen as highly beneficial, as he explains: “This is an agreement between a well-established player in offshore wind, and a young innovative company. We are confident that this combination can provide massive gains for both parties”.



RWE Renewables will finance part of the project costs, contribute its many years of offshore experience, and gain access to the resulting findings in return. The focus is on the performance and on the load behaviour of the platform under all possible conditions. In addition, the partners are interested in operational experience, which is essential for the planning of future commercial wind farms. Among the things to be tested are safe and efficient solutions for vessel accessibility to the platform and for the replacement of large components. In order to be able to flexibly adapt offers for offshore wind farms worldwide to local conditions, RWE is testing other technological options for Floating Offshore in addition to SATH.

DemoSATH will be Saitec's second project in open waters. In April 2020 the deployment of a scaled 1:6 model off the Coast of Santander is scheduled. For the DemoSATH project, Saitec provides the design and Project Management during the whole lifecycle of the development. Saitec is also managing the operation, maintenance and data treatment during the testing. This enables Saitec to capture improvement and optimisation opportunities throughout all phases.

For the large prototype, the structure and the 2 MW wind turbine will be assembled in the port of Bilbao. The base of the structure will be approx. 30 metres wide and approx. 64 metres long. The platform including the turbine will be towed to its anchorage point in a test field (BIMEP) 2 miles off the coast. The sea is about 85 metres deep at this point. Hybrid mooring lines, composed by chains and fibre, anchored to the seabed will hold the floating body in position. The plant is expected to go into operation in the third quarter of 2021. The electricity generated during the project will be fed into the Spanish power grid.

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### **RWE Renewables**

*RWE Renewables, the youngest subsidiary of the RWE Group, is one of the world's leading renewable energy companies. The company employs approximately 3,500 people and has at its disposal onshore and offshore wind farms, photovoltaic installations and battery storage facilities with a capacity of over 9 gigawatts. RWE Renewables is spurring the expansion of renewable energy in more than 15 countries on four continents. An annual investment budget of €1.5 billion has been set aside for future growth. The investment budget could grow to as much as €3 billion through the involvement of project partners. The focus rests on the American continent, the key markets in Europe, and the Asia-Pacific region.*

*RWE would like to continue informing you of current affairs at RWE via press releases after the introduction of the German General Data Privacy regulation and contact you for this purpose. We hereby inform you that our data privacy policy has changed. Personal data which we collect, store and process for mailing purposes shall not be passed on to third parties. You have provided your personal data on a voluntary basis. You have the right to forbid the use of this data at any time. You have the right to obtain information on your stored personal data from us and to object to the processing and use of said data at any time. Should you not be interested in continuing to receive press releases from us, please let us know by sending an e-mail to [datenschutz-kommunikation@rwe.com](mailto:datenschutz-kommunikation@rwe.com). We shall then delete your data from our system and you shall no longer receive any press releases from us. Please direct inquiries regarding our data privacy policy to [datenschutz@rwe.com](mailto:datenschutz@rwe.com)*

### **About Saitec**

*Founded in 1988, Saitec is one of the most prestigious engineering firms in Spain. With a strong commitment to innovation, sustainable development and respect for the environment, Saitec Engineering offers a wide range of services throughout the entire engineering value chain (planning, design, construction and operation).*

*The field of activity comprises transport infrastructure projects (railways, roads), water engineering, architecture, town planning, environment, industry and energy services for both public and private companies, as well as joint ventures.*

*Saitec Engineering also provides consultancy services in highly specialised fields such as tunnels and underground works, geology and geotechnical engineering, structural engineering, innovation, construction and computer engineering.*

*Seeking international growth by going global, in 2008, the company decided to expand the business aiming to share its experience and know-how in fastest-growing markets.*

### **About Saitec Offshore Technologies**

*Saitec Offshore Technologies is a spin-off from Saitec. Founded in 2016, created to globalize offshore wind by developing SATH technology, a competitive and cost-efficient concrete floating solution that removes the barriers related to water depth, reduces both CAPEX and OPEX and enhances local content. The outfit also offers associated engineering services related to this field.*