

Cost effective equipment for lifting and transport of low weight modules (<250 kg) in offshore wind farms

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Identificativo proposta: TRNL20191010002 **RICHIEDI MAGGIORI INFORMAZIONI**

A Dutch company is looking for the joint development of new concepts for equipment lifting and transport in offshore wind farms in order to optimize safety, be more weather independent and save costs. The company is looking for a collaboration with research and engineering partners and envisions a research or technical cooperation agreement. This technology request is part of an open innovation challenge.

This Dutch company is a leading global dredging and offshore contractor and maritime services provider. The company offers a unique combination of experts, vessels and activities. Construction of offshore wind parks is a strongly growing business which asks for continuous process innovation to reduce installation costs and smarter working practices. During the construction of an offshore wind farm there is a lot of equipment and parts that have to be transported from one wind turbine structure to another. The current way of equipment transport and lifting happens either by a small vessel, where a small crane mounted on the windmill does the lifting, or by a big crane vessel. The big crane vessel has the disadvantage of high costs and the small vessel is limited in operation when the weather at sea gets more rough. To save costs, optimize safety and utilize a wider time window the company wants to improve the handling and lifting of low weight modules (<250 kg) New drone and flying technology (balloon/zeppelin) might provide a concept that changes the way of current lifting and logistic operations. But also other concepts, with a wind turbine mounted small crane with 'smart winch' technology, compensating the vertical motions of the small vessel, might offer a solution. For the solution of this challenge the company is looking for research and engineering partners to jointly develop new concepts for transporting and lifting of equipment based on a research cooperation agreement or a technical cooperation agreement. **IMPORTANT:** This technology request refers to an innovation challenge published on an open internet platform. If an organization expresses interest before the closing date, it will be guided towards this open innovation platform. After registration participants can browse free through other submissions and engage in discussions. All submissions will get feedback by the company on this open platform. The challenge closes on December 5th, 2019. Mind that posts on this platform are not confidential. Beside open discussions on the platform, sharing of confidential information will be made possible on demand. After that, the firm will select the organizations with whom they would like to cooperate in the development of a solution. Once the challenge is closed, expressions of interest for this technology request will be treated in the traditional way.

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