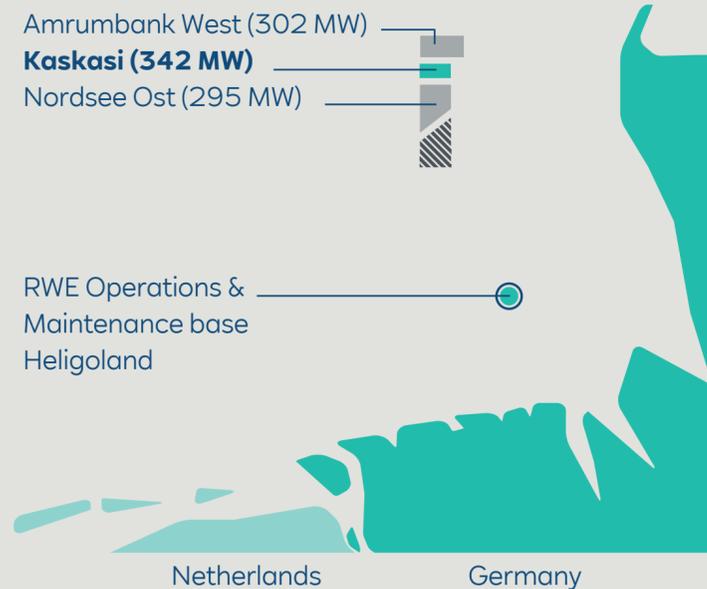


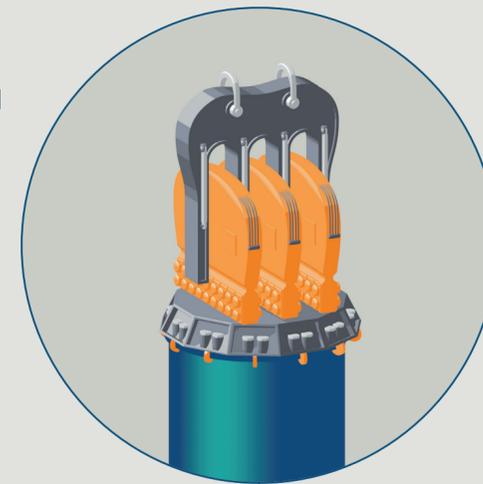
Vibrating instead of hammering: new research project investigates innovative installation technique for offshore foundations

In the research project called “**VISSKA**” the partners want to develop forecast models for installing monopiles using the vibro piling method, the associated noise emissions, and to validate these models through measurements in offshore conditions. In addition, it is planned to carry out comprehensive, accompanying research on the behaviour of porpoises as a result of the innovative installation technique. The first measurements at sea in RWE's offshore wind farm Kaskasi are planned for the summer of this year. The final report is to be completed by early 2023.



Vibratory hammer

The specially manufactured gripper enables the frictional coupling around the flange.



Vibro Pile Driving

The new method, which uses vertical vibrations to drive the foundations into position, has the potential for significantly reducing underwater noise emissions and installation times. With the innovative vibratory pile driving technology it is expected that it will no longer be necessary to use additional noise reducing measures.



“**VISSKA**” is the German acronym for a research project aimed at exploring the use of vibratory pile driving at the Kaskasi II offshore wind farm, in terms of installation, noise emissions and the impact on the behaviour of porpoises.



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