

Frederikshavn Offshore Demonstrator

Publieke samenvatting / Public summary

Background

The project addresses in particular the industry target of cost reductions up to 40% by 2020 and the need for new technology to move to deeper water (25-55meters), further from shore (+150km) and with bigger turbines (+6MW class), aiming to demonstrate a significant delivery of CAPEX reduction for foundations and a correspondingly significant impact on Levelized Cost of Energy (LCoE).

Objective

The Frederikshavn Offshore Demonstrator is a demo site east of Frederikshavn, Denmark, for which Universal Foundation and partners will demonstrate new technologies for offshore foundations. The offshore foundation to be demonstrated is the Mono Bucket; next generation novel foundation concept for offshore wind farms. The project further seeks to demonstrate the Mono Bucket's unique ability to install a foundation and a turbine in the same installation run and hence have the possibility to generate first power within weeks instead of today's industry standard of approximately 1½ years. Finally, the project will demonstrate new products and solutions aimed at cutting O&M costs in relation to corrosion and scour protection.

Short description

The project will conduct full-scale designs and installations of the Mono Bucket with WTG, including demonstration of the innovative Mono Bucket Design Configurator -and Integrated Design Model prepared by Universal Foundation, bringing the

Projectinformatie / Project information

Projectnummer / Project number

TEHE115999

Subsidiebedrag / Grant amount

€ 1.041.134,00

Algemene informatie / General information

Penvoerder / Secretariat

Sif Netherlands B.V.

Publicaties en materialen / Publications and attachments

- 02.08.2021

Eindrapport TEHE115999

Links

- Project: Frederikshavn Offshore Demonstrator (project page, ERA-Learn)

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Mono Bucket ready for commercialization by
advancing TRL for the Mono Bucket from TRL5 to
TRL7

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samenwerking met de Topsector Energie ontsloten.

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