

HiLo Pile Driving

Publieke samenvatting / Public summary

Aanleiding

Hammering is usually done by brute force, creating fatigue damage in the foundation piles.

Doelstelling

IHC IQIP has developed a High frequency Low impact (HiLo) pile driving technique to limit fatigue damage. The aim of the project is to perform a field experiment to validate the IHC Hydrohammer calculations and back up the theoretical framework in which HiLo Pile Driving was developed.

Korte omschrijving

In this field test, the pile stresses and accelerations are measured at the pile top (PDA-measurement), together with a very accurate measurement of the pile penetration and hammer performance. Secondly a model is developed that determines the consumed life-time during piling based on global piling parameters. This model allows the cost-effective determination of consumed life-time during piling and gives input to envisioned monitoring programmes.

Resultaat

The project results in insight in a new more gentle way of hammering introducing less fatigue and deformation in the foundation of large offshore wind farms and reducing emitted noise.

Projectinformatie / Project information

Projectnummer / Project number

TEW0313004

Subsidiebedrag / Grant amount

€ 135.186,00

Algemene informatie / General information

Penvoerder / Secretariat

IHC Hydrohammer B.V.

Publicaties en materialen / Publications and attachments

- 16.08.2018

Eindrapport TEW0313004

Links

- IHC Hydrohammer

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