



# Novel pile installation method: 'Gentle Driving of Piles'

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## Description:

During past decades, a transition towards green energy has been observed, especially in Europe. Offshore wind energy is one of the most promising alternatives to fossil fuels and major investments have been made for the construction of offshore wind parks.

The majority of offshore wind turbines installed are resting upon large monopile foundations. The Gentle Driving of Piles project aims at aiding contractors by making the monopile installation process as efficient as possible by testing a novel installation method. The goals of the newly proposed method are to reduce driving loads and the emitted underwater installation noise which has a huge environmental impact.

## Goal:

The goal of my research is to investigate the effects of the installation process on the soil and to gain insight into the key variables that affect the soil-structure-interaction in the operational response of the soil-monopile-wind turbine system.

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