



# DENMARK

## KRIEGER'S FLAK

TIGHT, STRICT AND PRECISE

The Danish offshore wind park Kriegers Flak, which will provide 600,000 families with green electricity, consists of two parts, each with a substation. Jan De Nul Group took care of the design and construction in joint venture with Lemants, the transport from Ostend (Belgium) to the Baltic Sea as well as the installation of these two foundations, known as Gravity Based Foundations (GBFs)... all in a very tight schedule.

The largest GBF foundations ever built by Jan De Nul Group. Designed entirely in-house and against short timescales.

After formwork, reinforcement and concrete pouring on a floating barge in the port of Ostend, the steel part was placed on top of the foundation. A tugboat brought both steel and concrete structures to Denmark. All this was done in the height of winter, a severe winter. Nevertheless, it was possible to install both structures, which each weigh as much as the Eiffel Tower, at a depth of 18 and 22 metres with a very high degree of accuracy. No sinécure, but it fits Jan De Nul Group like a glove.

After the installation of both structures, it was time to deploy our multipurpose vessel *Adhémar de Saint Venant*. On the one hand, the structures were ballasted with gravel and, on the other hand, by means of a combination of concrete mattresses and rocks provided lifelong protection against erosion.

Jan De Nul Group offers its clients a total package tailored to their needs: from design to construction and offshore installation. Unique!

<b>Country</b>	<b>Denmark</b>
<b>Scope</b>	<b>Design, construction, transport &amp; installation of 2 GBS foundations (foundations with structures based on the principle of gravity) for the Kriegers Flak Offshore Sub-Stations (OSS)</b>
<b>Client</b>	<b>Energinet.dk and 50Hertz Transmission GmbH</b>
<b>Contractor's role</b>	<b>Lead JV Partner</b>
<b>Period</b>	<b>28.10.2016 - 30.04.2018</b>



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