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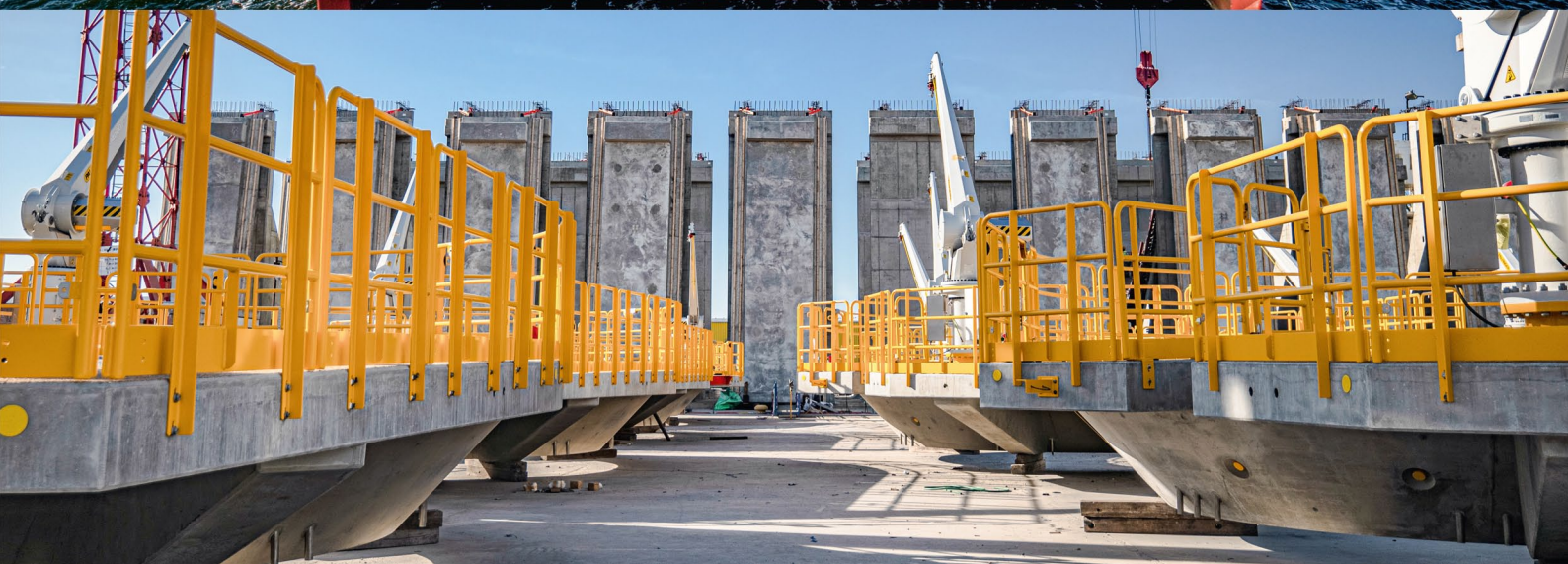
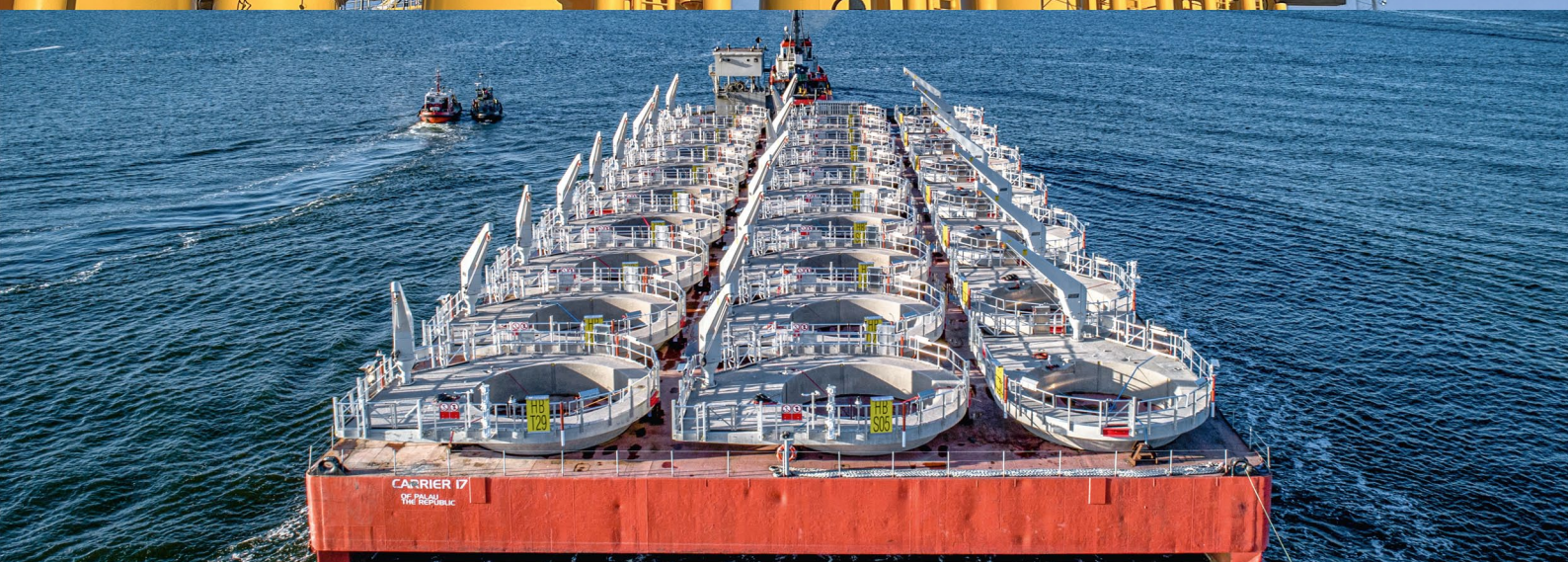
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offshore



AARSLEFF  
BIZ









# Aarsleff BIZ Sp. z o.o. Innovative Prefabrication for Modern Infrastructure

Aarsleff BIZ Sp. z o.o. is a production company operating under Per Aarsleff Holding A/S, Denmark's leading contracting group.

We specialize in the manufacture of large-scale prefabricated concrete elements for the construction industry. Our products provide efficient, high-performance solutions for a wide range of infrastructure projects, including:

- Offshore wind farms
- Harbours
- Bridges
- Breakwaters and jetties
- Tunnels
- Foundations
- Buildings
- Roads and railways
- And various other structural applications.

Our production facility is located in Świnoujście, Poland, offering excellent access to road, rail, and maritime transport.

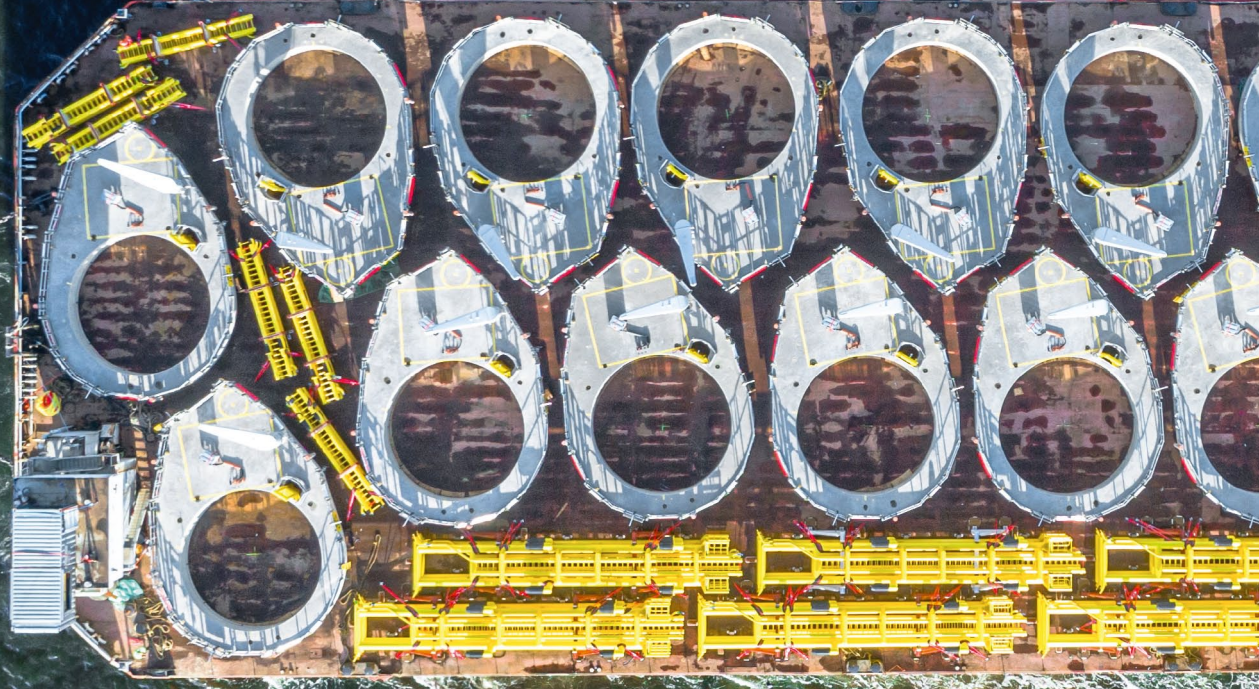
Designed for versatility, our factory is capable of producing small to extremely large components—some weighing several thousand tons. With decades of engineering and project expertise backed by the Per Aarsleff Group, we bring innovation, precision, and value to every project we undertake.

Our prefabricated concrete elements meet the highest technical, environmental, and economic standards. In today's construction landscape — where time, quality, and cost efficiency are crucial — our solutions help clients deliver better results, faster.

Let Aarsleff BIZ be your trusted partner in building the infrastructure of tomorrow.



# Concrete Working Platforms







## Concrete Working Platforms

The Concrete Working Platform (CWP) is a low cost and low maintenance solution for the MP or MP/TP offshore wind foundation. It was designed and developed by AARSLEFF engineers for the Horns Rev 2 project back in 2007 and has since become the preferred solution on Ørsted offshore wind farms.

## Patent Holder

AARSLEFF is a co-owner of the EU patent 02011924 for offshore platforms and the leading manufacturer of concrete offshore platforms with more than 1070 CWP's produced by 2025 for the largest offshore wind farm projects in Europe.

## High Quality and Low Maintenance

The concrete mix used for the CWP's is a result of more than 15 years of experience with design, manufacturing and installation of offshore wind structures. All our CWP's are manufactured at the AARSLEFF BIZ production site in Swinoujscie (Poland). Over the years we have developed a controlled manufacturing process that enable us to achieve a high quality product fulfilling the specifications set by the leading clients in the market.

## Low Cost

The direct cost of a CWP manufactured by AARSLEFF will be significantly less expensive compared to a steel working platform and the manufacturing lead time is also reduced considerably allowing potential Clients with more flexibility in their design and procurement process. AARSLEFF can deliver the CWP's to any European port and has a close cooperation with selected barge owners and towing companies.





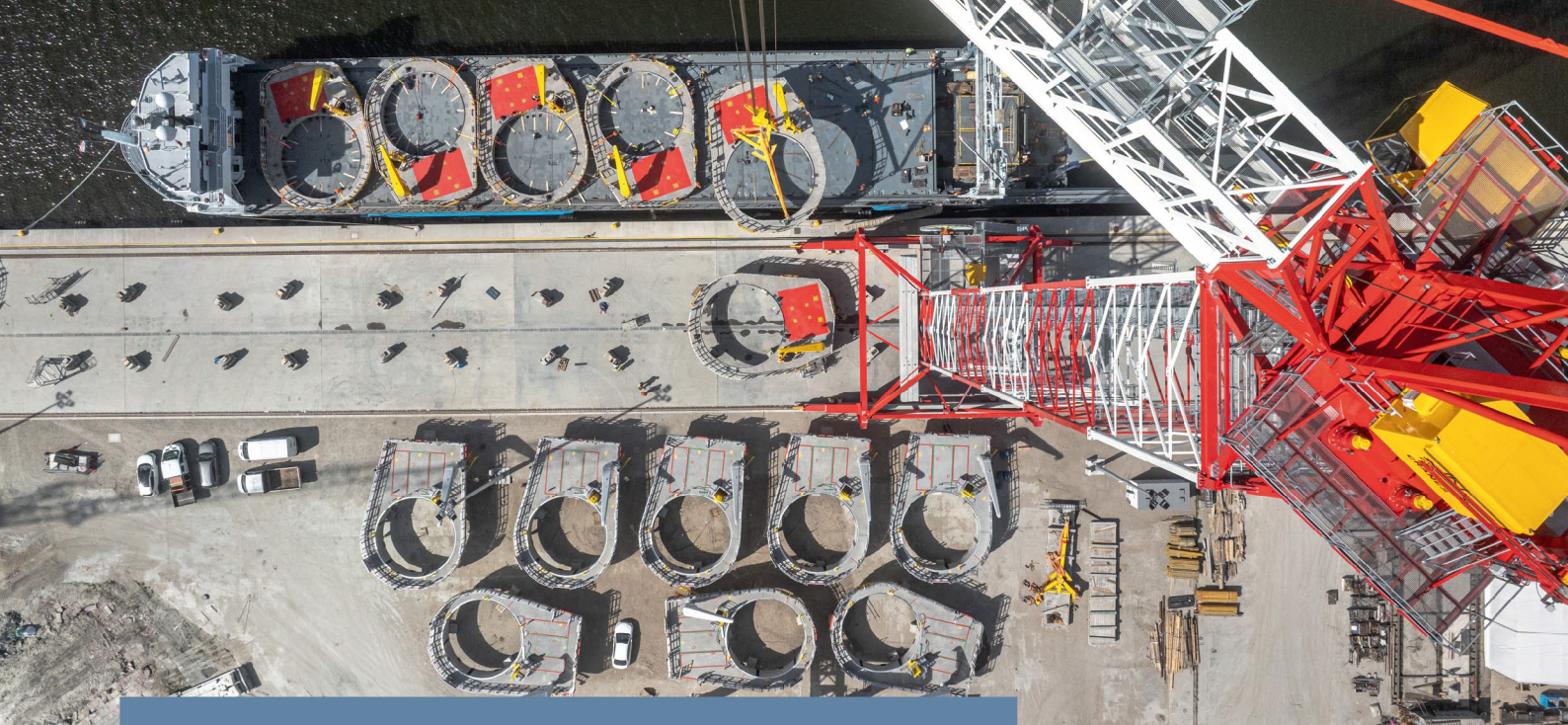


## Hornsea Three Offshore Windfarm – The world's single largest offshore wind farm to date

- Production period: 2025-2026
- Client: Ørsted
- Destination: UK (North Sea)
- Number of platforms: 197
- Scope:
  - 130 tons TP-less concrete platform
  - Aluminium railings
  - Upper ladder with SLRs
  - LV scope
  - Davit crane installation and testing
  - MP-door.

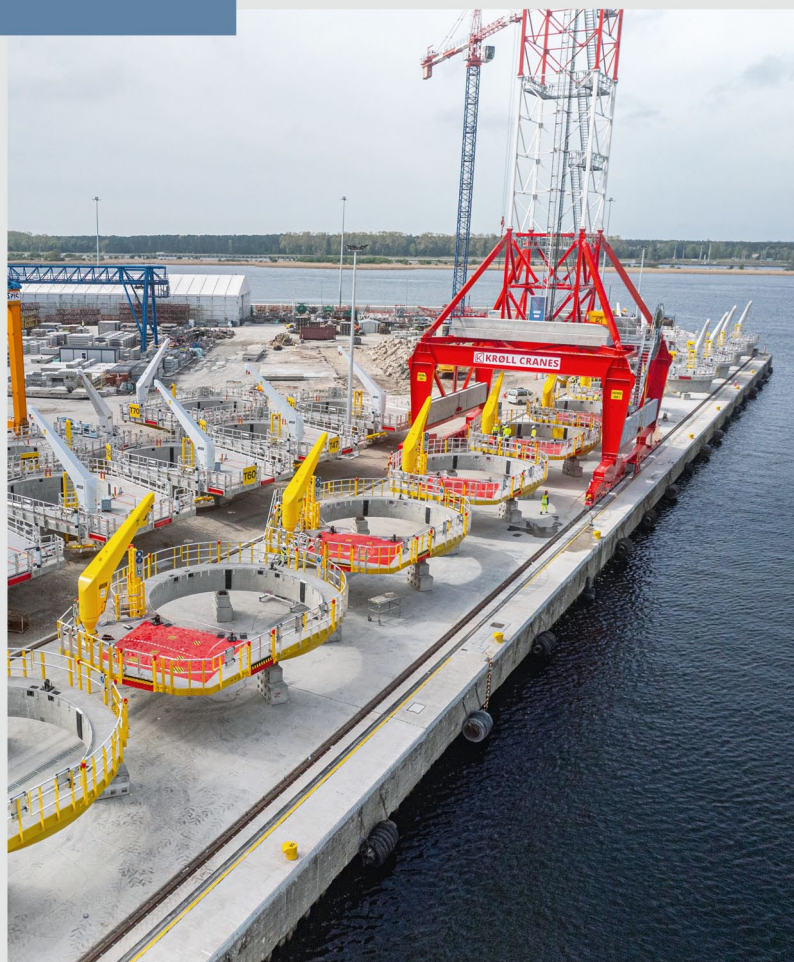






# Windanker Offshore Windfarm

- Production period: 2024-2025
- Client: Windar (Iberdrola)
- Destination: Germany (Baltic Sea)
- Number of platforms: 21
- Scope:
  - o 123 tons concrete platform
  - o Aluminium/steel painted railings
  - o Upper ladder with SLRs
  - o Davit crane installation and testing
  - o Vessel transport to Spain (4 batches).

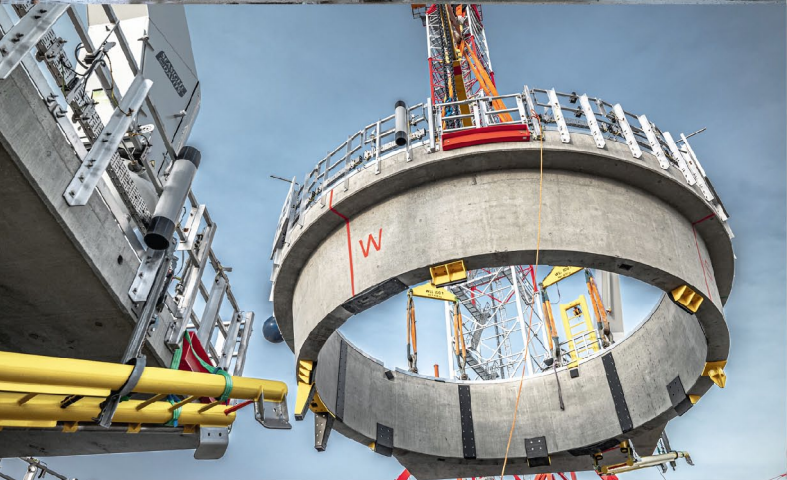






## Thor Offshore Windfarm - Denmark's largest offshore wind farm to date

- Production period: 2024-2025
- Client: Dajin (RWE)
- Destination: Denmark (North Sea)
- Number of platforms: 72
- Scope:
  - 138 tons TP-less concrete platform
  - Aluminium railings
  - LV scope
  - Upper ladder installation
  - Davit crane installation and testing
  - 2 pieces of Military Frames
  - FOB transport to Denmark (9 batches).

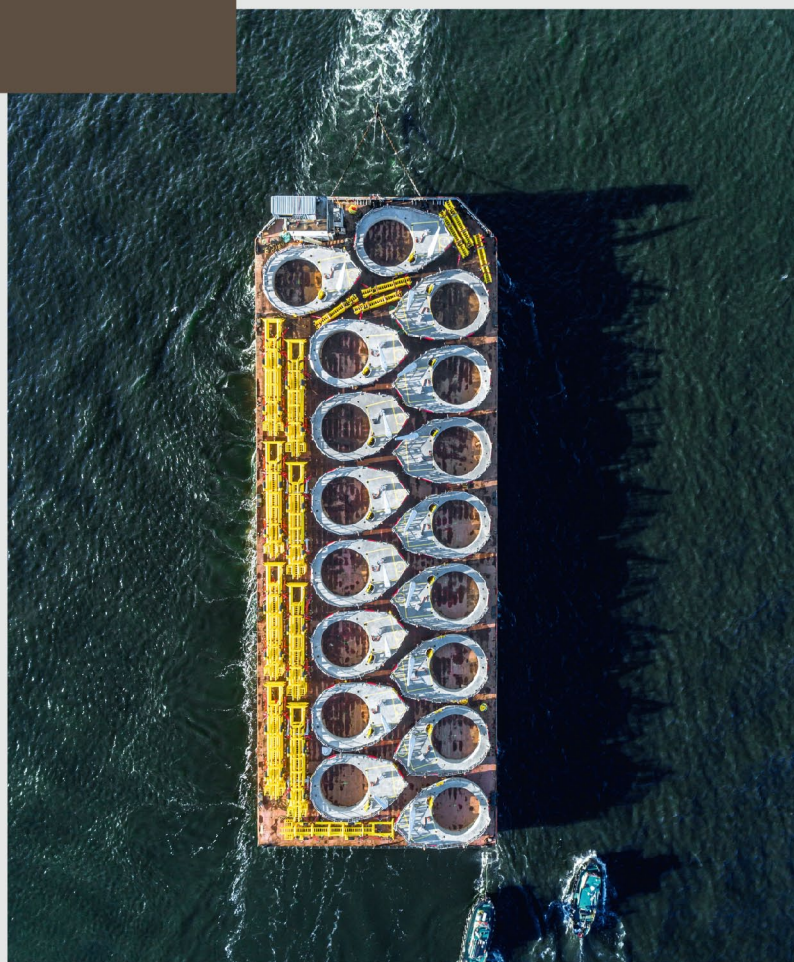
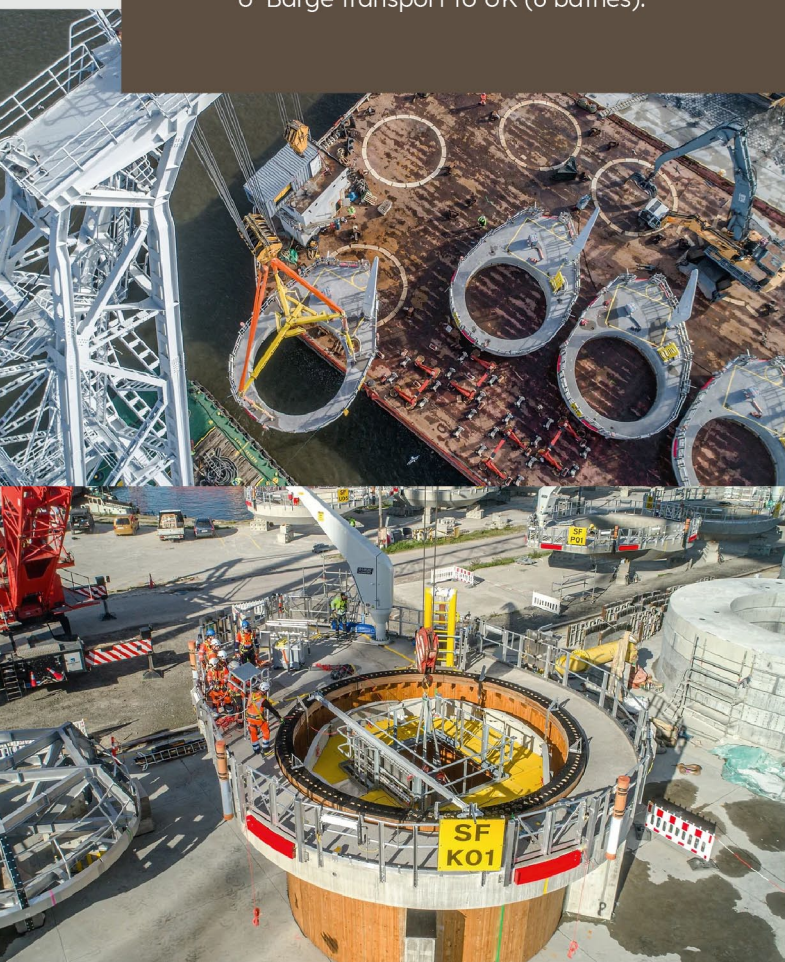






## Sofia Offshore Windfarm – Main Access Platforms

- Production period: 2023-2024
- Client: Van Oord (RWE)
- Destination: UK (North Sea)
- Number of platforms: 100
- Scope:
  - 145 tons TP-less concrete platform
  - Aluminium railings
  - LV scope
  - Upper ladder installation
  - Davit crane installation and testing
  - Barge transport to UK (6 bathes).





# Gravity Based Foundations

## Gravity Based Foundations - Reliable and Cost-Effective Offshore Foundation Solution

Gravity Based Foundations (GBFs) made from reinforced concrete have proven to be durable, low-maintenance, and ideal for offshore wind farms, with over 20 years of successful operation. GBFs are especially suited for the Baltic Sea due to challenging seabed conditions and noise restrictions.

Aarsleff leads the market with over 170 GBFs installed, offering full EPCI services. Our industrialized fabrication methods make GBFs viable for large-scale offshore projects.

Key benefits include:

- Long lifespan and low maintenance
- Cost-effective with local materials
- No piling noise, minimal seabed impact
- Suitable for various seabed types and turbine sizes.

Not least the concrete gravity base foundation emits around 50% less CO<sub>2</sub> compared to traditional steel solutions (Carbon targets for off shore wind foundations: a proposed SCORS-style rating Scheme – the structural engineer 2024).





## Gravity Based Foundation

Aarsleff have fabricated and **installed 170 gravity base** foundation for the Danish wind farms: Nysted (72 pcs), Sprogø (7 pcs) and Rødsand 2 (91 pcs).

The concept is a **robust and cost-effective** solution particularly suitable for sites with seabed conditions dominated by hard clay/boulders or limestone/flint where drilling may be required for other foundation types.

The installation of **GBF's does not generate noise** levels harmful to sea mammals and does not require and noise mitigation measures.

From a sustainability and O&M perspective the concept is superior to steel solutions. **Concrete does not require maintenance and do not rust.** It does not require epoxy zinc rich coating to withstand the elements, and can be fully recycled after decommissioning.

Aarsleff has **continued to develop and optimize the GBF concept** to suit the larger WTGs and we are ready for the to meet the growing demands of the offshore wind market in the coming decade.



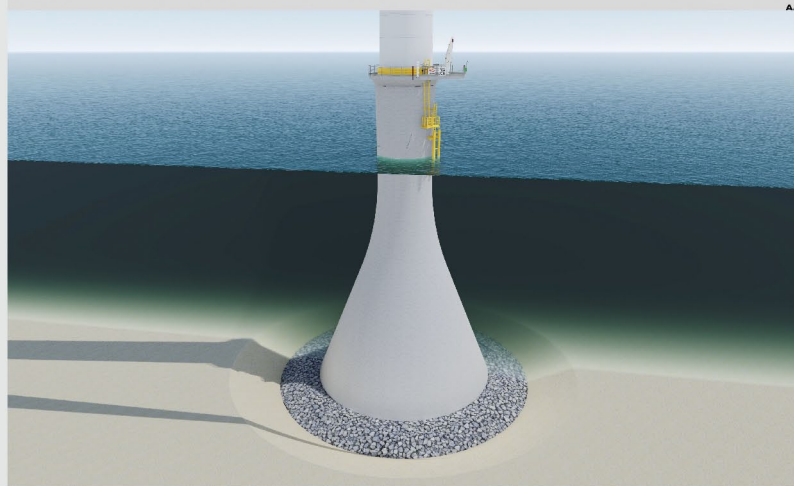
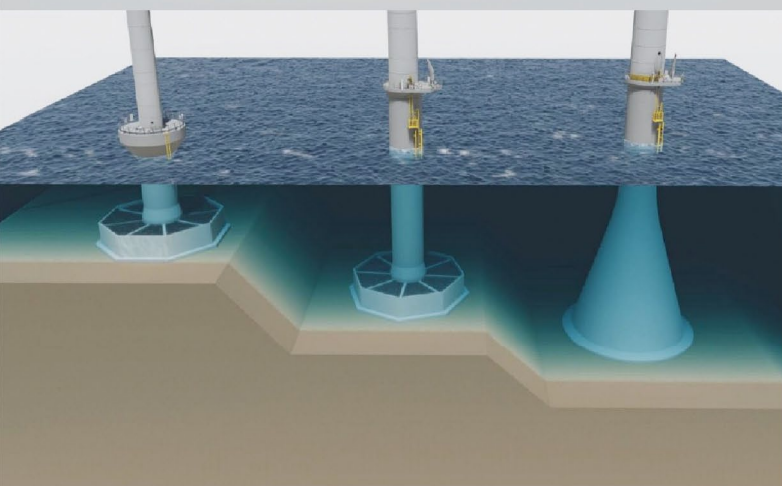
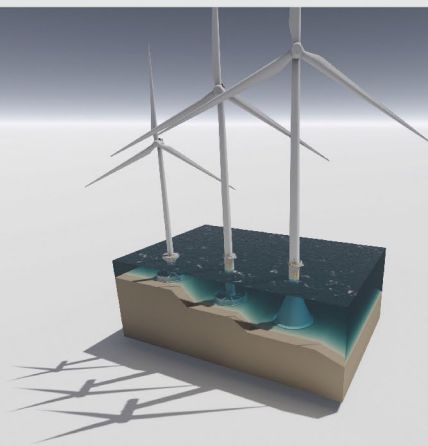
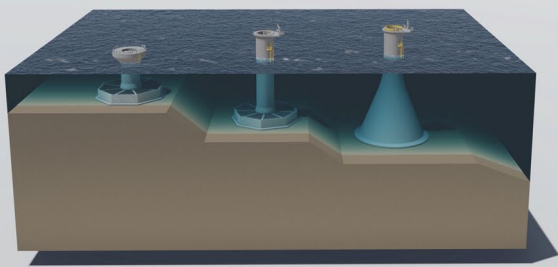




## Next Generation GBFs

**The GBF is suitable for offshore sites and large WTG's**

- +10 MW WTG
- Traditional secondary structures layout:
  - Interface above waves
  - External (dry) platform
  - Boat landing
- With or without ice cone
- Design waves,  $H_{\max}=10-12\text{m}$
- Geotechnical conditions:
  - $c_u > 200 \text{ kPa}$
  - $\phi > 30^\circ$



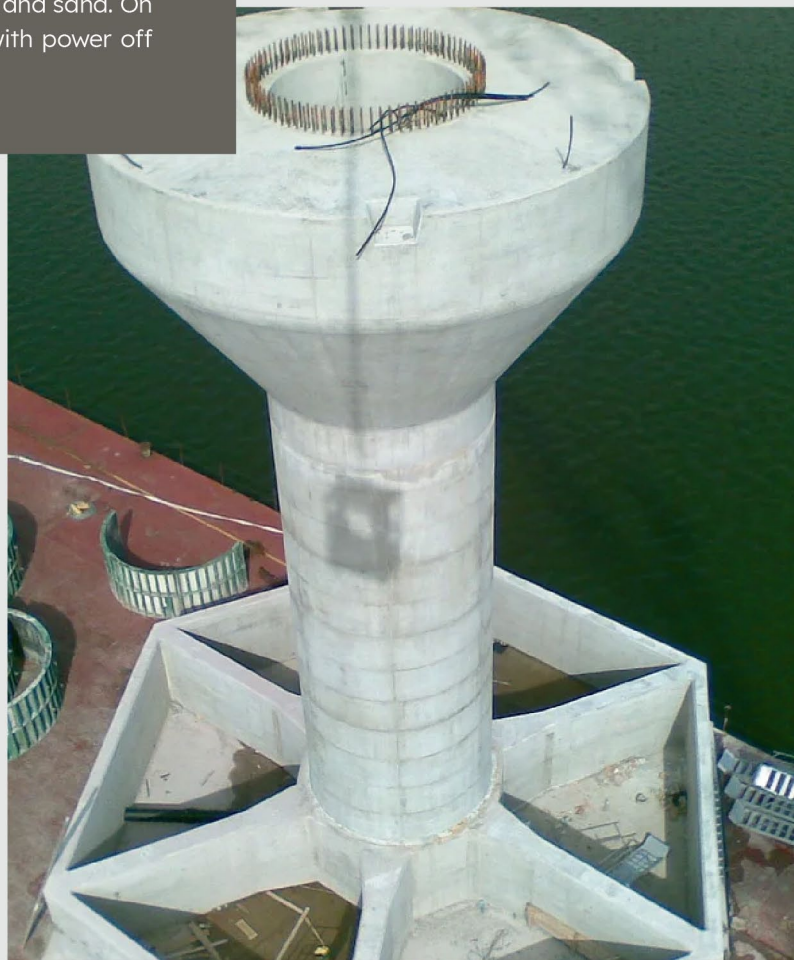




## Rødsand 2

The Rødsand Bay offshore wind farm, situated off Denmark's southern coast, was developed between 2008 and 2010 and, at the time of its commissioning, ranked among the world's largest offshore installations. Commissioned by the Danish Ministry of Climate and operated by E.ON, the project comprises 90 wind turbines, a central transformer station and a range of supporting structures essential for its operation.

Preparatory works were performed on land, and the main production (concrete casting) took place directly on barges. The ready foundations have been transported on barges to the final destination in Denmark, placed on gravel bedding prepared on sea bottom, and ballasted with extra 1500 Ton of stones and sand. On top of each foundation came a Siemens windmill with power off 2,3 MW. Total power of windfarm is 207 MW.

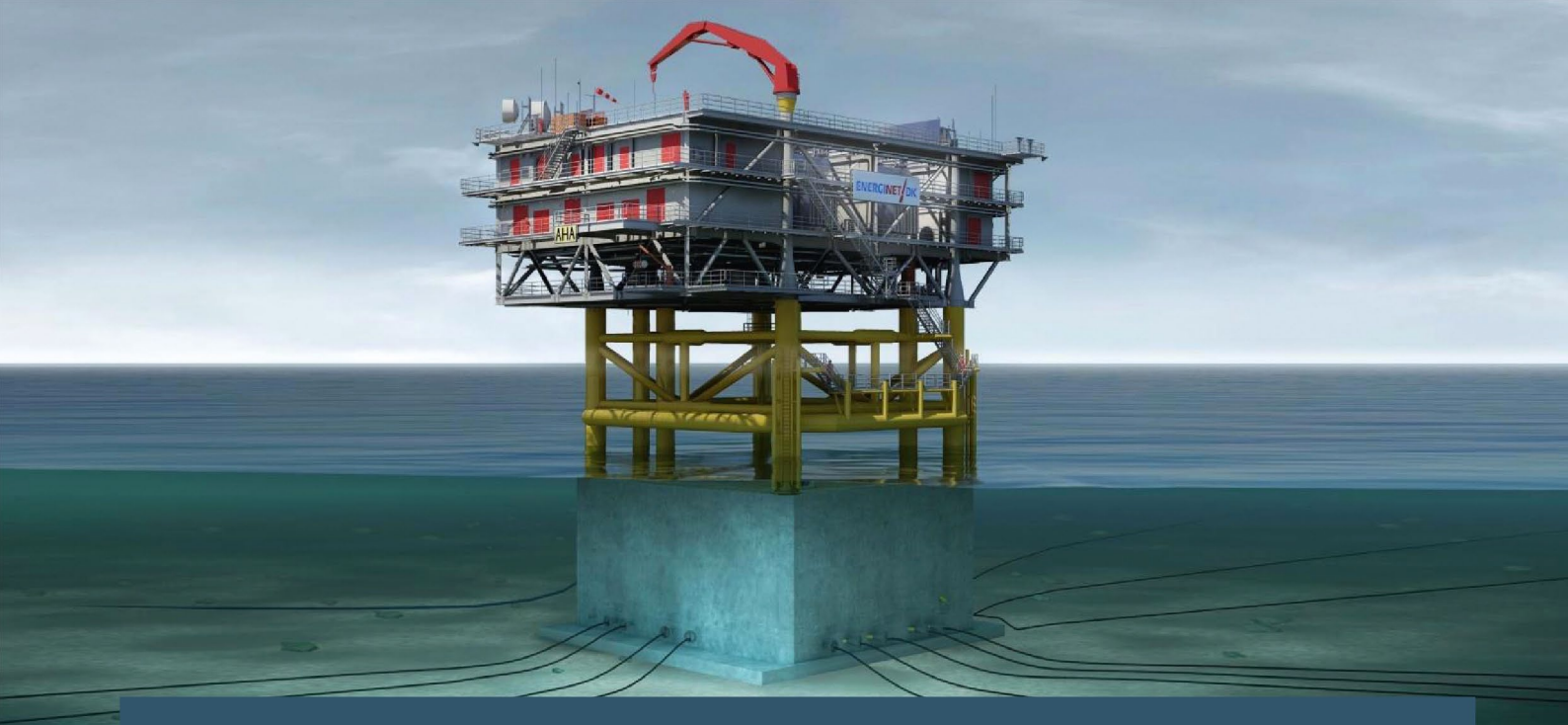




# Hybrid OSS Foundations

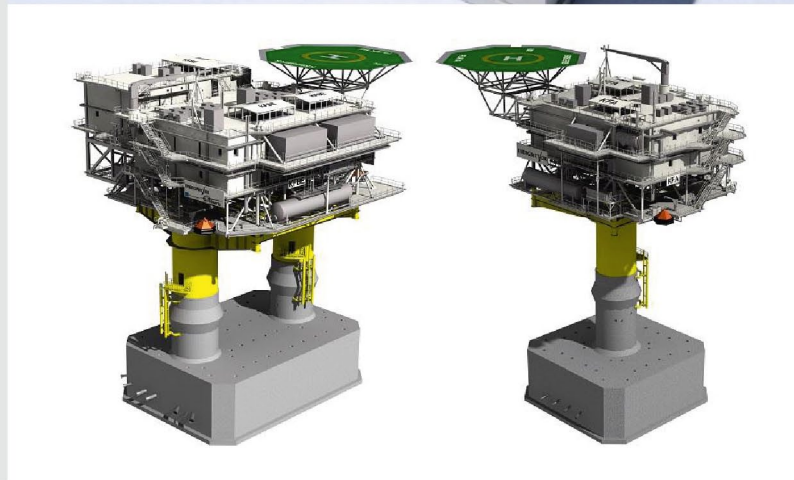
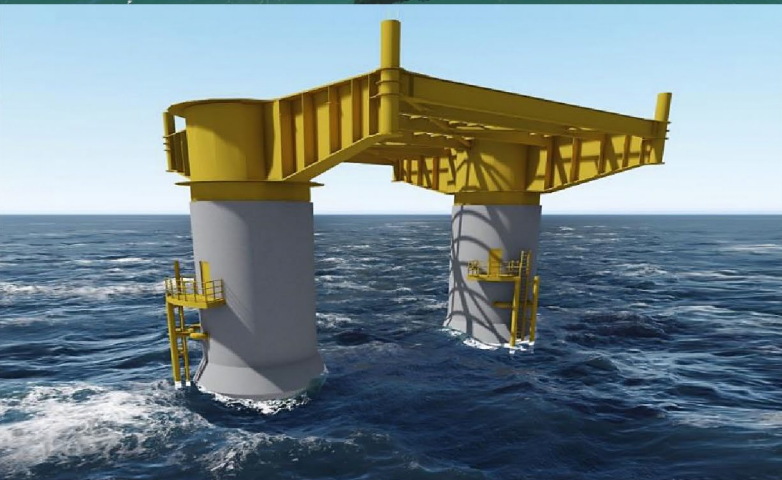
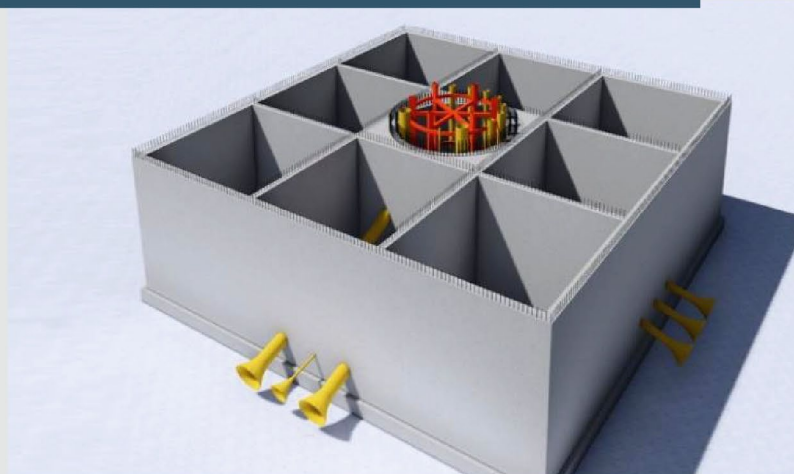
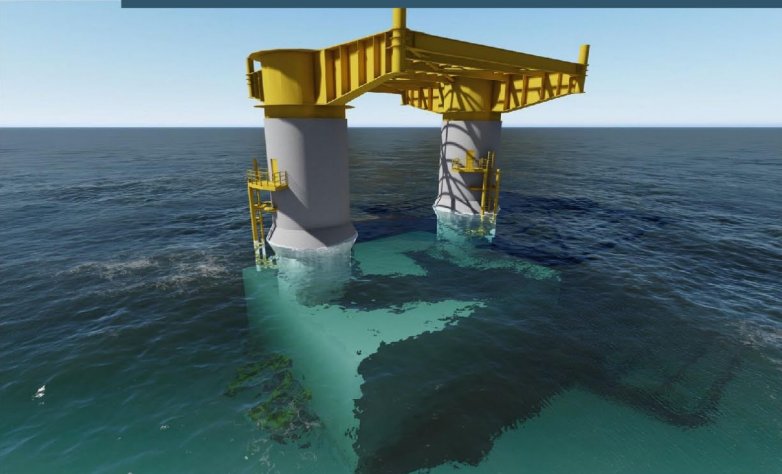






## Gravity Based Foundations – A Smart Choice for Offshore Substations

Gravity Based Foundations (GBFs) offer a reliable, cost-effective, and environmentally sound solution for offshore substations. With a proven track record, including their successful use at the Kriegers Flak substation, GBFs demonstrate exceptional durability and performance in challenging marine environments. Their construction from locally sourced concrete not only reduces costs but also supports local economies and minimizes supply chain risks. Unlike traditional steel foundations, GBFs require no piling, eliminating underwater noise and reducing environmental impact—an increasingly important factor in offshore development. Aarsleff's extensive experience with GBFs, a high level of technical expertise and project reliability. Our integrated approach—from design and fabrication to transport and installation—makes GBFs a practical and scalable solution for substations across a wide range of seabed conditions and water depths.





# Supportive elements for offshore structures







## Supportive elements for offshore structures

Aarsleff also supplies a wide range of smaller elements in various types and shapes, designed to support secondary steel components as well as modern wind turbine nacelles manufactured by the world's leading producers.





# Marine Industry Heavy Structures







## Marine Industry Heavy Structures

Aarsleff is a trusted leader in the production of large-scale, heavy marine structures, including caissons, L-walls, pile deck elements, Ro-Ro ramps, concrete hulls, and bridge components.

With the capability to manufacture and transport these massive elements on submersible barges, we also provide expert support during their installation. One of our most notable achievements is the 6,900-ton Hanstholm caisson, currently serving as a pier head – the heaviest structure we have produced to date.

Our prefabricated heavy L-walls offer a highly competitive and time-efficient solution for constructing new quay walls, especially in challenging geotechnical conditions.





GREENLAND



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