

Offshore Wind

Foundations



Foundations

Ever since the first industrial offshore wind farm Horns Rev was built, Smulders has played an important role in the engineering and fabrication of steel foundations for offshore wind farms. Developing with the industry through the pioneering phase to the large scale serial production, Smulders has always provided full support to its clients and plans to do the same in the future.

For transition pieces, we offer a full in-house supply chain for the secondary steel components giving unique advantages in logistics and flexibility.

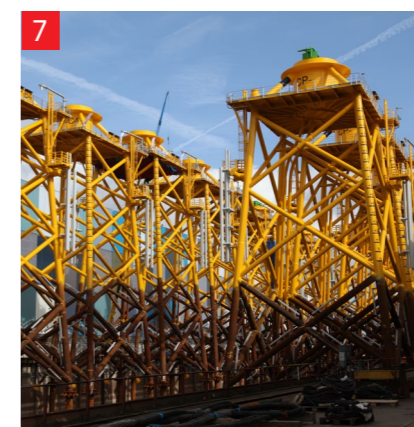
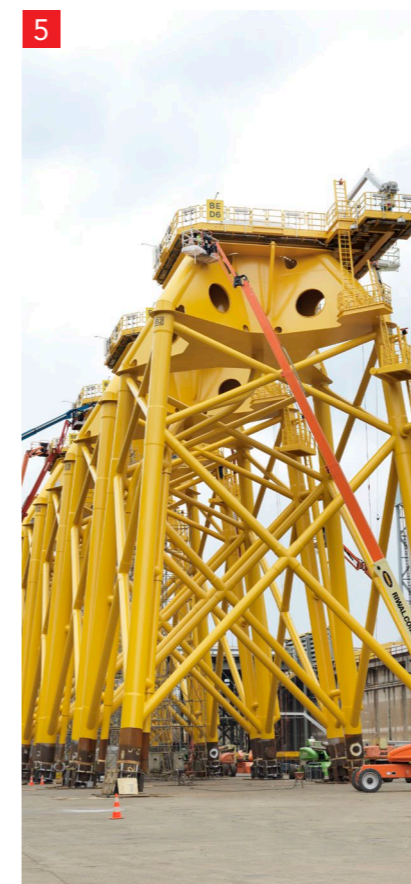
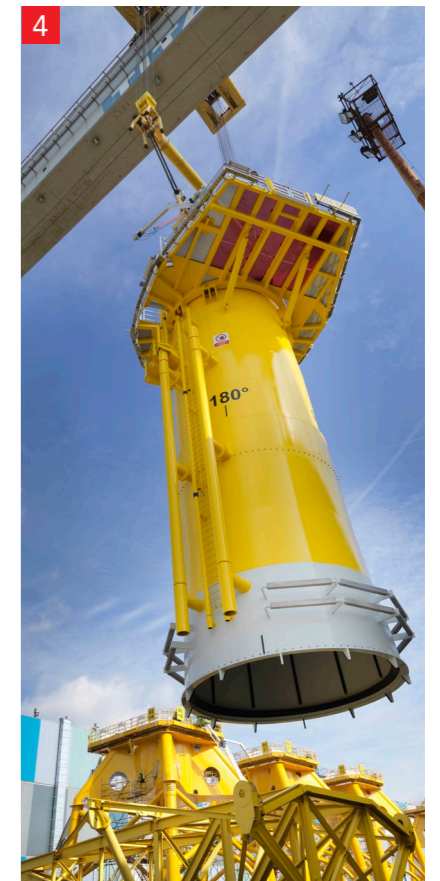
Jacket foundations are completely manufactured and provided with secondary steel components by Smulders. These large and complex structures are built at an incredible rate of more than one jacket per week.

From knowledge developed through years of experience, Smulders knows that the primary steel is important to support the turbine, but understands that secondary components will make the difference for the operations and maintenance. A high-quality and well-thought-out design will reduce operational costs, and improve the safety offshore.



Experience

Smulders has over 15 years of experience in the offshore wind market with a track record of almost 2,000 offshore structures.



1. Gemini (the Netherlands)
150 transition pieces
2. Kentish Flats ext. (UK)
15 transition pieces
3. Dudgeon (UK)
67 transition pieces
4. Galloper (UK)
56 transition pieces
5. Beatrice (UK)
28 jacket foundations
6. Blyth (UK)
5 gravity based foundations
7. Thornton Bank (BE)
48 jacket foundations



Facilities

All aspects of the production process are managed in-house and divided amongst different subsidiaries within Smulders. This ensures a time and cost-efficient process under safe working conditions and guarantees that the high quality and environmental standards are being met.

A flexible production process has been created with large capacity, quick response and delivery time of high quality products within the division.

By spreading the load between our facilities in Belgium, the Netherlands, Poland and the United Kingdom, we can provide excellent service to our clients.

- » **Arendonk (Belgium):** sales, project management, design, engineering and fabrication of steel structures for substations and foundations;
- » **Balen (Belgium):** design, engineering and fabrication of steel structures for substations and foundations;
- » **Zary (Poland):** production of secondary steel components;
- » **Hoboken (Belgium):** production and assembly of foundations, substations and large offshore structures;
- » **Vlissingen (the Netherlands):** production and assembly of foundations and substations;
- » **Newcastle upon Tyne (United Kingdom):** production and assembly of foundations and substations and large offshore structures.

Smulders

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Offshore Wind

Substations



Substations

Your project from design to installation

With more than 15 years Offshore Wind experience, Smulders offers a full range of services from fabrication to complete turnkey solutions (EPCI) of Offshore High-Voltage Substations.

Over the years, we have gained valuable experience which we offer our clients in each new project. Complete substations including their foundation, being jackets or TPs, are in safe hands with us.

We understand and comply with all industry requirements when it comes to strict project management, stringent planning and correctly certified employees. All substations are delivered on time and fulfill the highest quality requirements, rules and regulations.

By internally sharing and maintaining our acquired knowledge, our extensive engineering -and project management team has all the required know-how at their disposal. This knowledge is not solely restricted to steel constructions, but complemented with disciplines such as electrical (LV, MV & HV), HVAC and utilities design.

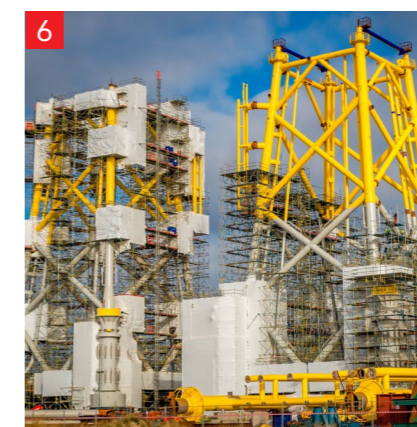
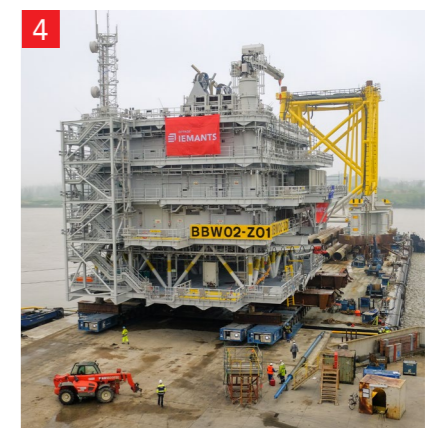
Smulders' first complete substation was made for the Belwind Wind Farm, and since then many have followed. To date, we have 20 completed substations and another 4 under construction.

20
completed
substations

EPCI
contractor



Experience



1. Gemini (the Netherlands)
2 topsides & jackets
2. Gode Wind (Germany)
2 topsides & jackets
3. Walney 03 & 04 (UK)
2 topsides & jackets
4. Burbo Bank (UK)
1 topside & jacket
5. Production of topsides at
the Hoboken yard
6. Production of jackets at
the Vlissingen yard



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