

## OFFSHORE WINDMILLS – SMULDERS – ENECO – BELGIUM

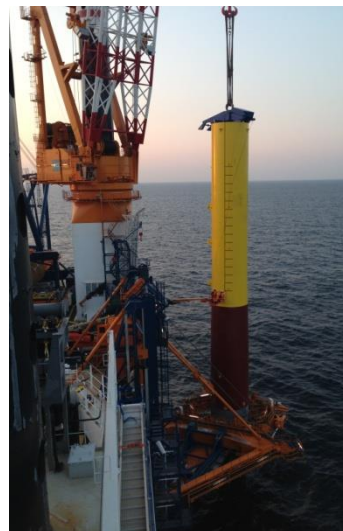
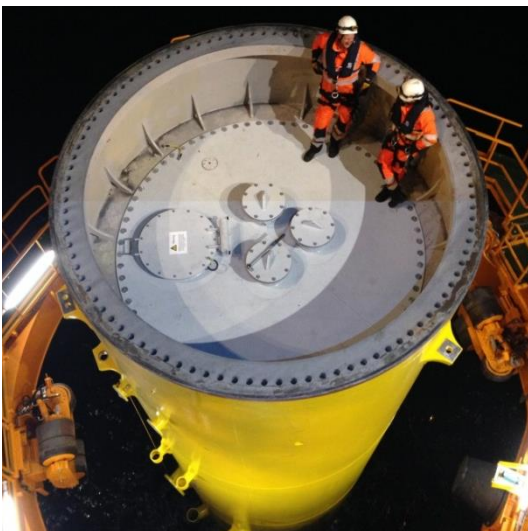
**SMULDERS** Group has its origin in 1966 and has evolved into an international organization with multiple subsidiaries. The core activities of the company - construction, manufacturing, supply and assembly of steel constructions – are sub-divided in two divisions: Smulders Wind Turbine Constructions and Smulders High Grade Constructions.

**SMULDERS** Group started in 1994 with the production of steel towers for land-based windmill farms. Approximately 10 years later, and driven by the turbine suppliers, **SMULDERS** Group started with the construction of steel monopile foundations for offshore wind turbine farms and evolved from pioneer to market leader with an established track record. The next step of producing towers for offshore applications was a logical option to complement the product portfolio for the windmill farm market.



In 2014 **ZINGA** was used on the construction of new windmills for Dutch energy provider **ENECO**. **ZINGA** was chosen to protect the most sensitive parts of the windmills: the monopile's external primary steel, +3m up the mudline to -2m below the mudline. The top of the monopile flange was protected with **ZINGA** (2 x 90 µm DFT).





## System:

ZINGA 2 x 90 µm DFT

The customer has expressed his entire satisfaction with the use of **ZINGA**, which allowed the windmill monopiles to be rolled on a rotator for application of the colored top coatings. (see middle picture on page 1)  
**ZINGA's** incredible abrasion resistance ensured that it did not chip or flake off.