



SIKA AT WORK

DAFENG H3#

300 MW OFFSHORE WIND FARM
SUBSTATION INSTALLATION,
YANCHENG CITY, CHINA

OFFSHORE & MARINE CONSTRUCTION
RENEWABLE ENERGY

BUILDING TRUST



OFFSHORE WIND FARM SUBSTATION JACKET FOUNDATION INSTALLATION



PROJECT DESCRIPTION

In Q2 2018, Sika completed offshore jacket installation grouting at the Dafeng H3# 300 MW Offshore Wind Farm Substation using SikaGrout®-9850, a high-performance cementitious (HPC) grout. This project, located off the coast of Yancheng City, Jiangsu Province, China, is owned by the State Power Investment Corporation (SPIC). It marked Sika's second offshore renewable subsea jacket installation in Chinese waters, following the successful completion of the Binhai North Phase 2 project, also owned by SPIC, in April 2017.

Project name: 300 MW Offshore Wind Farm Substation Installation
Location: Yancheng City, Jiangsu province, China
Year: 2018
Application: Substation foundations
Product: SikaGrout®-9850

PROJECT REQUIREMENTS

The project required a grout with a moderate compressive strength of 80 MPa before subsequent installation of the topside module onto the jacket structure could be carried out. This was achieved within 3 days after grouting at 20°C. The team used a simplified grouting spread, which eliminated the need for a crane by having mixers placed directly on deck to facilitate the loading of the grout bags using a forklift, which were then lifted over the pump by the forklift.



SIKA SOLUTIONS

Sika provided grouting materials, technical expertise, and manpower for the grouting operations. This included qualified and experienced offshore grouting personnel, equipment (i.e. mixers, pumps, downhole camera etc.) for executing the scope of works. 110 tons of SikaGrout®-9850 HPC grout materials for the installation services and completed the grouting operation in 4 accumulated days, with an actual grouting time of 36 hours, notwithstanding delays due to bad weather and leaking seals.

CUSTOMER BENEFITS

- SikaGrout®-9850 HPC grout, part of Sika's proprietary High Performance Cementitious grout product range, has been developed specifically for annulus grouting in offshore structures. The rapid strength development ensures high early-age strength.
- The grouting services were completed ahead of schedule for the installation of the topside module despite some bad weather days and leaking rubber seals.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



SIKA SERVICES AG
Tueffenwies 16
CH-8048 Zurich
Switzerland

Contact
Phone +41 58 436 40 40
www.sika.com

PROJECT PARTICIPANTS

Main Contractor: Zhuhai Ruimiao Company

BUILDING TRUST

