



SIKA AT WORK

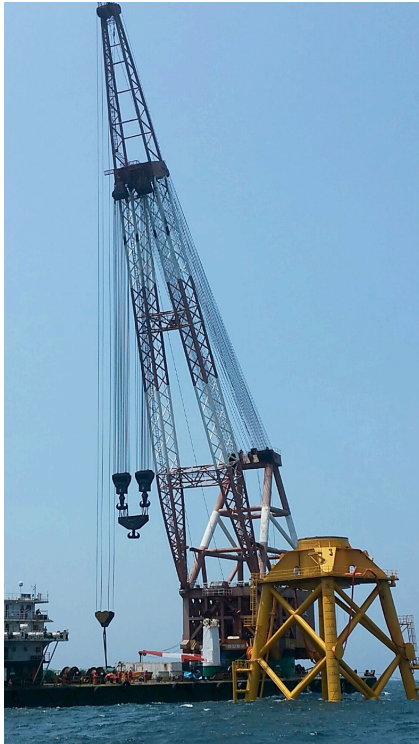
THREE GORGES YANGJIANG SHAPA 300MW OFFSHORE WIND FARM, GUANGDONG PROVINCE, CHINA

OFFSHORE & MARINE CONSTRUCTION
RENEWABLE ENERGY

BUILDING TRUST



THREE GORGES YANGJIANG SHAPA 300MW OFFSHORE WIND FARM



PROJECT DESCRIPTION

The windfarm is owned by China Three Gorges New Energy Co. Ltd. This was Sika's third offshore renewable wind project and first major large-scale windfarm installation project to be carried out in Chinese waters. The first project was the Binhai North Phase 2 (2017) and second project was at Dafeng (2018), both owned by State Power Investment Corporation (SPIC) of China.

This wind farm comprises 55 units of 5.5 MW wind turbines and a 220-kV substation, of which 10 are jacket structures requiring grouting, as well as the substation jacket. The water depth is approximately 30 m and it is currently one of the deepest in China. Other types of foundations in this project are monopiles (36 nos.), suction-bucket (8 nos.) and 1 floating foundation. When fully connected, the wind farm will supply 840 million kWh of renewable energy.

Project name: Three Gorges Yangjiang Shapa 300MW Offshore Wind Farm
Location: Offshore Guangdong Province, China
Year: 2019
Application: Jacket foundations
Product: SikaGrout®-9550 (880 MT)

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 REQUIREMENTS

Sika supplied the grouting materials for a total of 10 turbine jackets and 1 substation jacket installation, as well as the technical expertise and supervision of grouting operations in cooperation with the local Chinese contractor.

SIKA SOLUTIONS

SikaGrout®-9550 UHPC has been developed specifically for grouted structural connections for offshore structures, including wind turbine foundations situated in extreme cold and in hot tropical climates.

CUSTOMER BENEFITS

- The team completed the grouting of the offshore jacket foundation installation on schedule.
- The unique composition of Sika products allow the materials to be pumped through several hundred meters of 2" and 3" hoses. This was verified in the DNV type approval for SikaGrout®-9550, where the hose temperature exceeds 35 °C.

PROJECT PARTICIPANTS

Main Contractor: Zhuhai Ruifeng Offshore Technology Co. Ltd.
Turbine Manufacturer: Mingyang Smart Energy

BUILDING TRUST

