



# SIKA AT WORK

## THREE GORGES YANGJIANG SHAPA 300MW OFFSHORE WINDFARM, GUANGDONG PROVINCE, CHINA

OFFSHORE CONTRACTING SERVICES  
SUPPLY OF GROUT MATERIALS  
SUBSEA JACKET INSTALLATION

BUILDING TRUST



# THREE GORGES YANGJIANG SHAPA 300MW OFFSHORE WINDFARM



## 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 windfarm  
Location: Guangdong province, China  
Year: 2019  
Key market: Offshore Wind

## 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.



# THREE GORGES YANGJIANG SHAPA 300MW OFFSHORE WINDFARM



## 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.

## HIGHLIGHTS

- The team completed the grouting of the offshore jacket foundation installation on schedule.
- The unique composition of our products allow us to pump the materials 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

Project owner: China Three Gorges New Energy Co. Ltd.  
Contractor: Zhuhai Ruifeng Offshore Technology Co. Ltd.

## QUICK FACTS

<b>Type of work:</b>	Offshore Windfarm Installation
<b>Location:</b>	Off the coast of Shapa town, Yangxi County, Yangjiang City, Guangdong province, China
<b>Turbine manufacturer:</b>	Mingyang Smart Energy
<b>Materials used:</b>	880 MT SikaGrout®-9550
<b>Project date:</b>	May – June 2019

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

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