

## Case Study

### Yemen Pumping and Irrigation Solar System



#### PROJECT OVERVIEW

Location: Yemen  
Completed: December 2019  
Owner: ACTES For Importing  
Designer and Developer: ACTES For Importing  
System Size: 10MW  
Number of Panels: 24,390 pieces  
Product: STP 410S-78/Vfh

#### BENEFITS

According to the on-the-spot survey, each group of solar pumping and irrigation systems that uses Suntech modules to generate electricity moves 800 tons of water per day, 30 tons for domestic use and 770 tons for the irrigation of about 65 hectares of orchards respectively.

## Suntech Supplies for the Solar Pumping and Irrigation System Construction in Yemen

Since last quarter of 2019, Suntech has supplied 10MW high-power PV modules to Yemen for the construction of PV pumping and irrigation system. In March 2020, the first group of the systems has been built and put into use.

Yemen is a country which agricultural population takes up about 71% of the country's population while the water for domestic use and farm irrigation has to rely entirely on groundwater. In the past, diesel pumps are the most commonly used irrigation system to draw groundwater. In recent years, many farmers cannot afford the diesel pumping due to the shortage of diesel fuel and climbing oil price, which negatively impact the production and operation of the farms. To this end, Yemen begins to use solar power to alleviate the local irrigation water problem and secures the produce yields.

## ***Yemen Pumping and Irrigation Solar System***



At the end of 2019, Suntech signed a supply agreement of 10MW PV modules with local distributors in Yemen. The projects use Suntech mono PERC half-cell modules which is equipped with 78-cell large format design, so that the power output can reach up to 410W. The products greatly saved the installation space and reduced the system's BOS cost due to the unique design of the modules.

After connected to the power supply, the pumps pull up continuous groundwater for the local use. Spring water moisturizes the dry land and brings back the vitality to it. According to the on-the-spot survey, each group of solar pumping and irrigation systems that uses Suntech modules to generate electricity moves 800 tons of water per day, 30 tons for domestic use and 770 tons for the irrigation of about 65 hectares of orchards respectively.



In recent years, Suntech has put more efforts in the Middle East market. In response to the stringent requirements of the Middle East market on PV module power, efficiency, and reliability, Suntech has deployed high-power PV modules in advance. In future, Suntech will also continue to improve its sales and after-sales service system and will be dedicated to using the cleanest and richest solar energy resources in nature to light up every corner of the world.