

15.3 MEGAWATT ROOF MOUNT CASE STUDY



Zhejiang, China

Huibao Renewable Energy

This 15.3 megawatt solar system was installed on an island that is used for ship manufacturing.

The investors wanted this large scale roof mount project completed in just 5 months time, and the challenge was accepted and met. It took over 200 laborers to ensure the project got done on schedule, but in the short 5 months all 270 modules were perfectly installed. Not only did time have to be taken into consideration, but the high winds as well that are common in this area of the country, especially on an island. But even with the extremely high winds, this well-designed high quality system does not budge.



System Overview

Using 270 modules, this traditional roof mount system is made up of 260W panels and has a high quality fixed racking system. This sturdy racking system goes with the shape of the roof and helps protect the system against the high winds that gust across the island. This 15.3 megawatt system was designed and supervised by industry experts, and installed by over 200 well experienced laborers in just 5 months.



Financials

- > Financial backing by a state owned company
- > Due to extensive industry background, the whole system had a price of \$0.80 W in 2017, which was about half the cost of the market price in the United States.



Technology Benefits

- > Cost savings on the raw materials by understanding the industry and having a strong relationship with the supplier
- > Price advantage by having installation done by onsite management



Power & Energy Production

- > Annual Energy Production: 18 MWh/year
- > AC Capacity: 13.3 MWac
- > DC Capacity: 15.3 MWdc
- > DC:AC Ratio: 1.15