

CASE STUDY

CADIZ SOLAR POWER PLANT, PHILIPPINES

OVERVIEW:

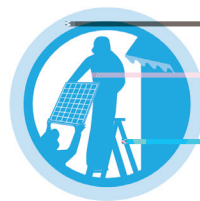
The Cadiz Solar Power Plant was built to withstand the toughest weather conditions in a typhoon-prone area in Cadiz, Philippines and is one of the largest solar power facilities in Southeast Asia.



SIZE: 132.5MW
SYSTEM TYPE:
Ground Mounted



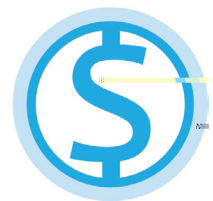
COMMERCIAL
OPERATION DATE:
February, 2016



DEVELOPER:
Helios Solar
Energy Corp



MODULES:
129,100 Trina
Solar Tallmax
TSM-PC14



CO₂ SAVINGS:
94,627 tons/year

SITUATION

The 132.5MW Cadiz Solar Power Plant in the Philippines, a project for Singapore-based Equis Fund Group, is one of the largest solar power facilities in Southeast Asia. Opened in March 2016, the 176-hectare facility was built to withstand the toughest conditions as it is located in a typhoon-prone area in Cadiz, Negros Occidental.

In addition to the typhoon risks, the project is located three kilometres from the coastlines, where strong winds, high humidity and salt air prevail. In selecting solar module manufacturers, solutions which had a reduced installation time, reduced balance of system (BOS) costs, and could withstand these conditions were vital for the customer.

EXECUTION

The environmental conditions call for superior performance solar modules resistant to potential induced degradation (PID), salt spray corrosion and wind pressure, and Trina Solar's Anti-PID solar products were well equipped to meet the requirements.

The power plant started connecting to the grid in February 2016 and significantly contributes to Philippines' national initiative to move towards cleaner energy sources. The solar farm is projected to produce 188,500 MWhs of solar-generated power per year for the utility sector and lower carbon emissions by 94,627 tons. The power plant has been performing beyond our expectations. Craig Marsh, Partner at Equis Fund Group said.

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The Cadiz Project was developed by Helios Solar Energy Corp, a joint venture between Gregorio Araneta Inc and Soleq and Equis Pte. Ltd., Asia's largest independent renewable energy developer and investor.

PRODUCT SOLUTION

Trina Solar Tallma TSM-PC14 series module was chosen because of its solid track record of deployment in many large

scale power plants globally. The high power footprint reduces installation time and BOS costs, making it the preferred choice for many developers. PC14 is PID resistant and able to withstand up to 35mm hailstones at 97km/h. The panel comes with a 10 year workmanship warranty, and a 25 year linear power output warranty.

