Mayer Steel Pipe Corporation Installs SolarEdge to Meet Taiwan's Green Policy

Case Study

The Taiwanese government requires high electricity power consumption users to install green energy and power saving equipment. Mayer Steel Pipe Corporation, the first specialized manufacturer of steel pipes and tubular products in Taiwan - has installed SolarEdge's innovative commercial PV system to produce a green supply chain and comply with the country's new green policy. In addition to meeting this regulation, SolarEdge's commercial PV system is expected to increase energy production and achieve faster ROI for Mayer Steel Pipe Corporation.

SolarEdge's Commercial PV Solution Key Features

Mayer Steel Pipe Corporation selected New Ray Solar Tech Co, Ltd to lead this massive project. New Ray Solar Tech recommended the SolarEdge DC optimized solution, comprised of optimizers, inverters, and a module-level monitoring system. This system is expected to produce **268,844 kWh** on rooftop 1 (223.2KW) and **887,237 kWh** on rooftop 2 (738.6KW) per year; combined, both systems could annually generate an impressive **1.15 MWh.**

Installation Date: April, 2019

Location: Taoyuan, Taiwan (R.O.C.)

Distributor: New Ray Solar tech., Ltd.

Total AC Peak Power: 961.8 kW

Modules: 3206 x Gingtung 300W

Rooftop 1: Mayer Steel Pipeline Corp. Youth-Shih Factory

Capacity: 223.2kW

Inverter: 2 x SE82.8K

Power Optimizers: 372 x P600

40S1P(40 modules/20 power optimizers/40 strings one parallel)

Rooftop 2: Mayer Steel Pipeline Corp. Pu-Hsin Factory

Capacity: 738.6kW

Inverter: 4 x SE100K & 5 x SE33.3K

Power Optimizers: 1231 x P600

42S1P(42 modules/21 power optimizers/42 strings one parallel)

New Ray Solar Tech Co., Ltd.

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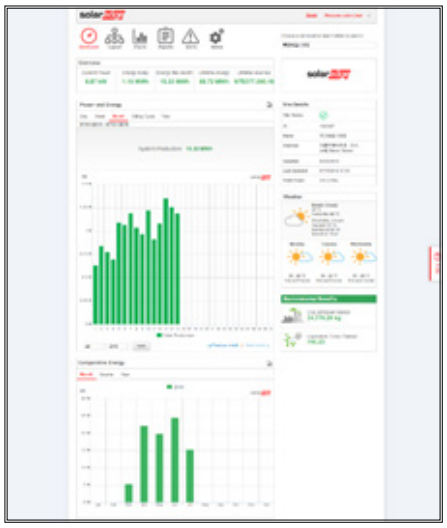
"Transforming into a green enterprise has always been one of our main corporate missions. By installing a PV system with SolarEdge Technology, we can increase power generation, monitor the system's production in detail, and enhance PV safety. Not only are we supporting the company's green policy and strengthening awareness for environmental protection, but we are also successfully building a green supply chain and creating a win-win situation!"
Yung Huan Chen, Factory Manager of Mayer Steel Pipe Corporation.

SolarEdge's DC optimized three phase inverters.

Easy Installation

SolarEdge's three phase inverters with synergy technology, SE82.8kW proved as a perfect match for this project compared to the regular three phase SE27.6kW inverter. The SE82.8kW comes in three individual units and requires less AC and communication wiring, making it easier to install. One inverter has parallel strings that consist of 40 modules (12kW) and 42 modules (12.6kW). Longer strings result in less wiring, fewer combiner boxes, fuses, and other components for reduced BoS and labor costs.



View of Mayer Steel Pipe Corp's monitoring dashboard on one of its optimized PV rooftops.

Advanced Troubleshooting

The monitoring platform enables real-time performance monitoring, automatic pinpointed alerts, and remote troubleshooting. The installer is able to quickly analyze alerts and remotely identify solutions, ultimately leading to fewer on-site visits and less time on-site. A rapid response is vital for improving the PV system's uptime, which means better ROI and decreased energy bills for Mayer Steel Pipe Corporation.

SolarEdge's PV Systems Meet Taiwan's Applicable Safety Conditions

In Taiwan, there are specific safety requirements for PV power plants that prohibit firefighters from directly extinguishing a fire with water when there is a PV system on the building. This is because the DC voltage from the panels may not completely shut down and thereby pose a potential risk of electrocution. To meet these safety requirements, additional safety systems are often included to a PV system at an additional cost. SolarEdge PV systems provide SafeDC™ technology embedded in every inverter solution. This built-in technology reduces the DC voltage to a safe level whenever the inverter or AC power is switched-off. SolarEdge technology designed to provide comprehensive protection to the factory, as well as to firefighters, installers, maintenance personnel, and factory workers.

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