

Case Study

SOLAR LOGIC

Solar Power Plant Rhodes



Rhodes, Greece



This installation on the island of Rhodes takes advantage of the high temperature stability of Solar Frontier's CIS thin-film modules. (Image: SOLAR LOGIC)

Site Overview

Location	Rhodes, Greece
Coordinates	36.47° N, 27.94° E
Average global irradiance	1,718.9 kWh/m ² /yr
Average temperature	19.5 °C, 67.1 °F
Average precipitation	588 mm/yr, 23.1 in/yr

Technical Overview

Date onstream	January 2012
System capacity	99.75 kWp
Panel type	SF150-L (150 W)
Number of installed panels	665
Tilt angle, orientation	20°, 0° S
Expected output	195,000 kWh/yr
Total CO₂ reduction	154,700 kg/yr, 340,340 lbs/yr
Inverter	SINVERT PVM17

Financing Bank

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"Solar Frontier provided a superior module to the Rhodes 100 kW installation with outstanding module quality and characteristics. Especially the high temperature stability of the modules has helped to achieve great results even in this hot region. The decades of experience in designing and building top-quality solar products by Solar Frontier secured our company's and client's objectives for long term profitability. In summary, the Rhodes solar plant in Greece is an optimized installation thanks to the quality of the installed products."

Nikos Kouidis, Director of General Operations of SOLAR LOGIC

With SOLAR LOGIC's turnkey solar solutions, customers and partners can reap the benefits of financial, technical and operational security. SOLAR LOGIC specializes in utility-scale PV engineering, procurement, and commissioning (EPC). The team builds on its technical experience, global connections and financing capabilities for customized solar power plant solutions. SOLAR LOGIC honors the three pillars of sustainable project success: time, quality and cost. The company's goal is to develop solid and innovative concepts in order to maximize long term profit.

Based on their strong evaluation criteria, the experienced SOLAR LOGIC project managers managed the full spectrum of planning and construction activities of the Rhodes 100 kW PV installation, while coordinating all tasks and handling hundreds of interfaces. SOLAR LOGIC with their proven expertise achieved successful plant completion at the quoted price, with outstanding quality - in a timely fashion.

This installation takes advantage of the outstanding product features of Solar Frontier's CIS thin-film modules, especially their high temperature stability. Due to the low temperature coefficient of Solar Frontier's modules, their loss of performance stays low with increasing temperatures, meaning higher output levels compared to other technologies. This evidence is shown in the direct comparison between the performance of Solar Frontier's CIS thin-film modules and crystalline modules installed at the same site where Solar Frontier's output levels are up to 10% higher.

About Solar Frontier

Solar Frontier is committed to creating the world's most ecological, economical solar energy solutions. Our proprietary CIS technology (denoting key ingredients copper, indium, and selenium) has the best overall potential to set the world's most enduring standard for solar energy. For more information visit www.solar-frontier.com and www.solar-frontier.eu