Case Study
ILIAKO REVMA (SOLARSTROM) Solar Power Plant Corfu

Corfu, Greece

This almost 100 kWp solar power plant on the island of Corfu is only few hundred meters away from the Mediterranean Sea. (Image: Iliako Revma)

Site Overview	
Location	Corfu, Greece
Coordinates	39.78° N, 19.75° E
Average global irradiance	1,592 kWh/m^2/yr
Average temperature	17.7 °C, 63.9 °F
Average precipitation	1,078 mm/yr, 42.4 in/yr

Technical Overview	
Date onstream	April 2013
System capacity	99.96 kWp
Panel type	SF140-L (140 W)
Number of installed panels	714
Tilt angle, orientation	25°, 0° S
Expected output	185,000 kWh/yr
CO_2 reduction	150,000 kg/yr, 330,693 lbs/yr
Inverter	6 x Siemens – Sinvert PVM17

Financing Bank

75 % National Bank of Greece, 25 % Equity

"Iliako Revma is one of the few Greek EPCs – with 15 years of experience in construction of PV systems. Our experience as well as the service and product quality were the main reasons for our customer choosing Iliako Revma and the Solar Frontier modules. We are absolutely convinced of the module quality of the Japanese manufacturer Solar Frontier, and are sure that our customer has made a very good PV investment for the next 20 years."

Michalis Agriogiannos, Managing Director

Iliako Revma (Solarstrom) is a Greek EPC company (Engineering, Procurement, Construction) headquartered in Heraklion with a branch office in Athens. For construction, Iliako Revma only uses high quality modules, inverters and electrical components from well-known manufacturers with extensive experience and worldwide credibility in order to provide the best performance for their customers.

This solar power plant of almost 100 kWp capacity is situated on the island of Corfu, Greece, at a distance of only 300 m from the Mediterranean Sea. It was connected to the grid in April 2013. Solar Frontier's modules' salt mist resistance, along with the anticorrosion protection of the anodized frame makes them an optimal solution for coastal regions. Moreover, CIS technology has advantages in hot climate regions like Corfu where the maximum average temperature during the summer months lies between 28 and 31°C. Solar Frontier's CIS thin-film modules are well suited for hot regions thanks to their high temperature stability. The reason for the good performance even at high temperatures lies in the low temperature coefficient, leading to smaller losses in performance compared to other technologies as temperatures rise.

The installation of 714 CIS modules was constructed with pure aluminum anticorrosion mounting and connected to the grid via six Siemens Sinvert PVM17 inverters. As usual in cases of free-field solar power plants, the modules were installed with an optimal southern tilt angle of 25 degrees. It is expected to produce 185,000 kWh of electricity annually and will additionally offset 150,000 kg of CO_2 emissions.

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