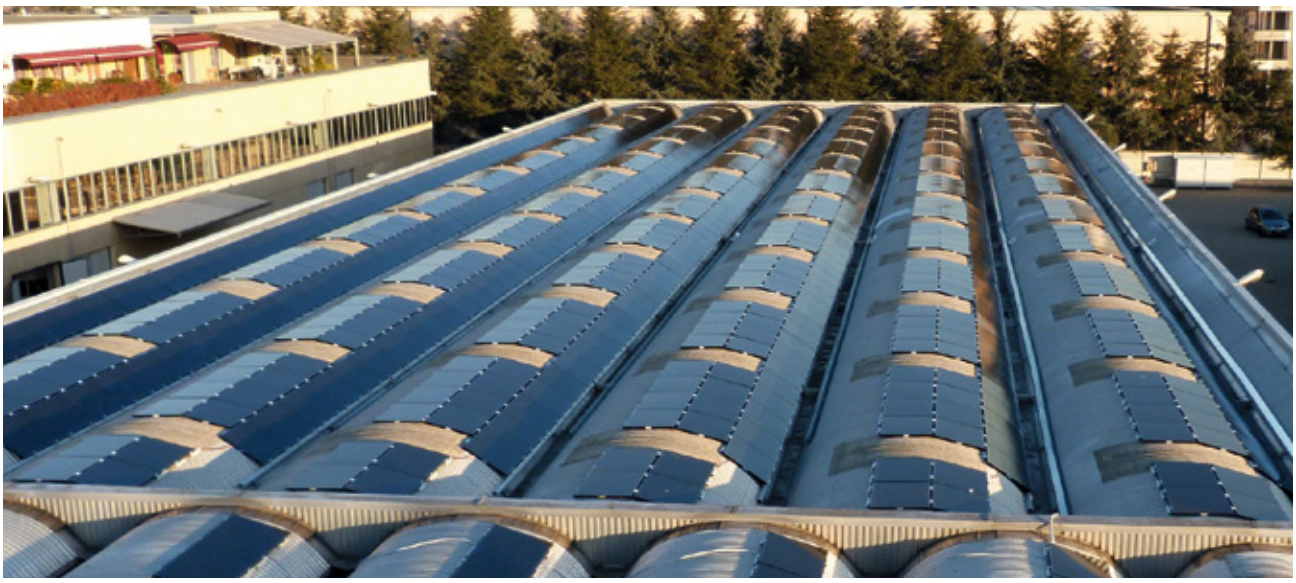
Case Study
LARES ENERGY SRL.
Commercial Rooftop Burago di Molgora

Burago di Molgora, Italy



High output levels are generated on this round rooftop thanks to the good low-light behavior of Solar Frontier's CIS thin-film modules. (Image: Lares Energy Srl.)

Site Overview

Location	Burago di Molgora, Italy (Monza e Brianza)
Coordinates	45.59° N, 9.38° E
Average global irradiance	1,372 kWh/m²/yr
Average temperature	12.5 °C, 54.5 °F
Average precipitation	943 mm/yr, 37.1 in/yr

Technical Overview

Date onstream	February 2012
System capacity	370.4 kWp
Panel type	SF140-L (140 W)
Number of installed panels	2,646
Tilt angle, orientation	2°, 8°, 20°, 35° / 6° S, -174° N
Output	209,904 kWh (01.02.2012 - 30.06.2012)
Total CO_2 reduction	145,181 kg, 320,069 lbs (01.02.2012 - 30.06.2012)
Inverter	AEG

Financing Bank

Mediocreval SpA - Gruppo Credito Valtellinese

"Lares Energy Srl. chose Solar Frontier modules due to their product characteristics that enable them to maximise the profitability of the investment. In addition the decision was in favour of CIS thin-film modules because they are well suited for regions with a high percentage of diffused light, as it is the case in the North of Italy, and generate high output levels. The fact that Shell and Saudi Aramco are both shareholders in Solar Frontier´s parent company also offers an additional security factor for a long-term investment as in the case of a solar installation."

Simone Truzzi, Director of Lares Energy Srl.

The PV Galileo project is located in the Italian city of Burago di Molgora. This installation with 370 kWp installed capacity was constructed by Lares Energy Srl. on the rooftops of an industrial building complex for the owner, Galileo Immobiliare Srl. Although Lares Energy Srl. is a young company, their team members have more than twenty years experience in the renewable energy sector. The company also has a strong background in the financing of such projects.

The round surface of the building's rooftop represented just one major challenge in the case of this installation in opposition to standard sloped roofs with optimum tilt angle. Despite this difficulty, the PV installation works well generating high output levels as Solar Frontier's CIS thin-film modules, due to their unique properties are a suitable solution also for conditions to be considered less than optimal. In this specific high output levels of are mainly due to the good low-light behavior of the 2,646 installed Solar Frontier's CIS thin-film modules. This feature leads to high output generation and even permitted the installation on the moderately north-facing rooftop parts of the adjacent building.

The industrial installation has more than fulfilled the expectations within the first months of operation: from February to June 209,904 kWh of electricity have been generated, which has offset 145 tons of CO_2.

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