

OVERVIEW

PROJECT

SolarLAB2

LOCATION

Bibbiena (AR)

SYSTEM SIZE

2.5 MW

ACTIVATED

December 2010

MODULE

CS6P

MOUNTING TYPE

Totally integrated

ANNUAL OUTPUT

2,900,000 kWh



Canadian Solar Modules Power Baraclit's 2.5 MW SolarLAB2

Canadian Solar, in partnership with Energy Resources, has provided modules used in the creation of SolarLAB2, an open-air solar laboratory intended to study the integration of photovoltaic technology for prefabricated roofing. Built by Baraclit, a leader in industrial and commercial prefabricated roofing, at its headquarters in Bibbiena near Arezzo, SolarLAB2 is now one of Italy's largest and most innovative roof-integrated photovoltaic installations.

Built under Baraclit's b.POWER division, the new solar laboratory is divided into 4 sections with a total peak capacity of 2.5 MWp and is to produce 2,900,000 kWh of energy annually. The system, built on a surface of 31,700 sq. m., the panels cover 17,000 sq. m., with more than 11,000 photovoltaic modules from Canadian Solar. Approximately 58% of the modules are made with polycrystalline cells and 42% with monocrystalline cells. These high-output performing Canadian Solar modules achieved top PVUSA rating (PTC) in California, USA.

INSTALLED BY

ENERGY RESOURCES

+39 0731 616811

www.energyresources.it

“

In tests carried out in our laboratories, the CS6P modules proved to be high-end performers and this was the determining factor for us to choose Canadian Solar. Their excellent quality-price ratio also enable us to deliver the best product and value to our customers in the prefabricated roofing market.”

Luca Bernardini

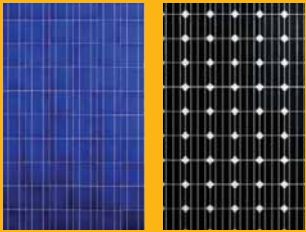
Head of b.POWER Division and Marketing Manager at Baraclit

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TECHNICAL DATA

CS6P is a robust solar module with 60 solar cells. These modules can be used for on-grid solar applications. Our meticulous design and production techniques ensure a high-yield, long term performance for every module produced.



MODEL

CS6P-P
CS6P-M

P_{MAX}

From 225W to 235W

CELL TYPE

Poly-crystalline
Mono-crystalline

DIMENSIONS

1638 x 982 x 40 mm
(64.5 x 38.7 x 1.57 in)

WEIGHT

20 kg



For this project, Baracit b.POWER and Energy Resources, a leading company operating in the field of renewable energies, required the installation of photovoltaic modules on suitable shed roofing and flat roofing (pointing 12° south west) with a pitch of between 10° and 35° (according to the type of construction system) in order to ensure constant elevated exposure to the sun's rays for years to come.

Baracit b.POWER will greatly offset its power requirements selling the surplus to the national energy provider on weekends and in the summer time. The zero emission system has CO₂ savings equivalent to planting 10,000 trees or refueling 800 cars that cover 20,000 km/year with "green" petrol.

Canadian Solar: one of the world's largest solar companies

Canadian Solar Inc. (NASDAQ:CSIQ) is one of the world's largest solar companies. As a leading vertically integrated provider of ingot, wafer, solar cell, solar module and other solar applications, Canadian Solar designs, manufactures and delivers solar products and solar system solutions for on-grid and off-grid use to customers worldwide. With operations in North America, Europe and Asia, Canadian Solar provides premium quality, cost-effective and environmentally- friendly solar solutions to support global, sustainable development.

www.canadiansolar.com
Commitment. Quality. Value.

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