

Case Study

SAVE ENERGY GROUP

Commercial Rooftop Blandford



Blandford, United Kingdom



Solar Frontier modules feature ammonia resistance in agricultural settings, such as here on this barn roof. (Image: Save Energy Group)

Site Overview

Location	Blandford, UK
Coordinates	50.86° N, 2.16° W
Average global irradiance	1,091 kWh/m ² /yr
Average temperature	10.7 °C, 51.3 °F
Average precipitation	786.6 mm/yr, 30.97 in/yr

Technical Overview

Date onstream	March 2012
System capacity	41.4 kWp
Panel type	SF150-L (150 W)
Number of installed panels	276
Tilt angle, orientation	15°, 65° SW
Expected output	40,369 kWh/yr
Total CO₂ reduction	21,275 kg/yr, 46,903 lbs/yr
Inverter	4 x Power One PVI110.0-OUTD

Financing Bank

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"We are extremely excited about this project, which is part of a series of Solar Frontier based PV systems we are installing and managing for The Crown Estate. We feel that Solar Frontier's CIS technology provides a range of customer benefits and improvements over conventional crystalline modules, and the initial performance figures have exceeded our expectations, despite difficult operating conditions."

*Wolf Dietrich
Commercial Business Manager Save Energy Group*

The Save Energy Group (SEG) specialises in renewable energy solutions, providing a first class design, consultancy and installation service to residential sectors in Dorset, Hampshire, Wiltshire, Devon and across the South of England, and a nationwide service to commercial clients. SEG are not only dedicated to providing an exceptional, reliable and friendly service, but also aim to introduce leading innovative technologies to their client base, and provide independent advice while working very closely with leading manufacturers of renewable energy systems – all to ensure customers get the most efficient systems and best value for money.

This 41.4 kWp system was installed during February on a barn roof near Blandford, on behalf of The Crown Estate. Being installed in a farm environment, the ammonia resistance of the Solar Frontier modules was a helpful additional feature. And although the roof size was a limiting factor to the overall capacity in this installation, the return on investment for the 41.4 kWp Solar Frontier based system proved more than competitive with conventional modules.

During the first two months of operation, the system achieved very strong yields despite a fault in the local grid that limited the system's peak performance and the wettest April in England since records began. The performance confirms the excellent suitability of Solar Frontier modules for challenging environmental conditions. The owners and local tenants are very pleased not only with the performance, but also the beautiful appearance of the system.

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