

Case Study

SOLAR



Batchelor
ELECTRICAL

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|--------------------|------------------------------------|
| CLIENT | ICB-alwitra Ltd |
| LOCATION | Sandbanks, Poole - Dorset |
| DESCRIPTION | Installation of Solar Roofing (PV) |
| DATE | August 2005 (2 Week Project) |

As electricity prices continue to rise and with more strain being placed on the environment than ever before, many individuals and businesses alike are looking at cost-effective alternatives for electricity solutions.

With the cost of solar panels falling with rising demand and DTI Energy Savings Trust grants of up to 50% of the installation cost there has never been a better time to consider utilising the sun's rays to generate inflation-proof electricity.

As an approved electrical integrator of ICB-alwitra's roofing membrane, Batchelor Electrical Ltd recently completed the installation of the solar panels at a property in Poole, Dorset.

John Fisher, the Project Manager responsible for the installation at Batchelor Electrical Ltd stated:

"The flat roofing gave a huge area to catch the sun's rays at almost all times of the day. The photovoltaic (PV) panels used are extremely effective at catching the sun's rays—which there are plenty of here in Poole!"



FIG 1: The completed installation at Sandbanks, Poole



FIG 2: Roofing membrane being laid down at another project

"Batchelor Electrical Ltd completed the job with total professionalism on this large domestic installation. I have only praise for the whole team!"

alwitra

Michael Steinbach
Managing Director, ICB -alwitra

The totally weatherproof roof liner contains integrated solar panels which provide up to 20% higher output* than similarly rated traditional crystalline panels. In addition, the unique patented membrane does not require any heavy frames, which makes it extremely lightweight meaning it can be mounted to almost any shape structure.

The fully automated system allows surplus electricity produced from the installation to be sold back to the electricity companies automatically, again helping to offset the cost of the initial installation. Likewise, if demand is higher than the PV panels can produce additional electricity is bought back from the national grid automatically.

PV requires only daylight - not direct sunlight - to generate electricity. PV systems generate no greenhouse gases, saving approximately 325kg of carbon dioxide emissions per year - adding up to about 8 tonnes over a system's lifetime** - for each kilowatt peak (kWp - PV cells are referred to in terms of the amount of energy they generate in full sun light).

*SOURCE: ICB-alwitra

**SOURCE: Energy Savings Trust (figure correct at time of publication)

