

### When Only Both Will Do

*A Retrofit for the Future Project provides an ideal showcase for Viridian Solar's new Clearline PV panels.*



*The only outward indication that the middle house in this terrace uses 20% of the energy of its neighbours is the discreet roof-integrated Clearline solar heating panels (lower three) and Clearline PV panels (upper three).*

Viridian Solar has published the results of a one year energy monitoring study. The performance of a combined installation of Clearline solar thermal and Clearline PV panels was measured over a 12 month period.

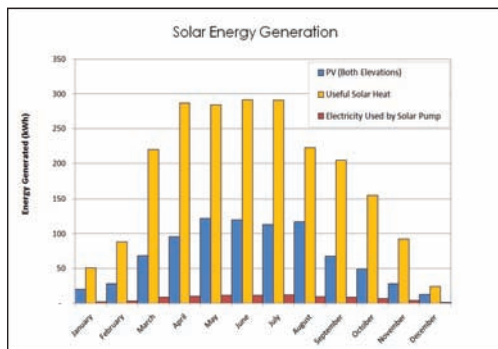
The house in the study has benefited from a low carbon refurbishment as part of the 'Retrofit for the Future' programme funded by the Technology Strategy Board. The challenge was to achieve an 80% reduction in carbon emissions for the property.

Energy efficiency measures included super-insulation, air tightness improvements, low energy lighting, an exhaust air heat pump, solar water heating and solar PV.

Energy monitoring equipment installed by BSRIA has provided the data for the Case Study, which can be downloaded from the web site, or by clicking below.



Click Here to download the Case Study.



*The Case Study illustrates key differences between solar heating technology and solar photovoltaics*

### Support for Solar Thermal Re-starts

The Department of Energy and Climate Change launched its Renewable Heating Premium Payment scheme (the RHPP) in August 2011. The scheme pays £300 towards the cost of a solar heating installation. Installations can also qualify for 20 years of payments under the Renewable Heat Incentive (RHI) phase 2 once that comes into operation in October 2012.

As at the end of September, solar heating accounts for 31% of all vouchers issued.

For more information, visit the [Energy Saving Trust website](#).

### Featured Projects

#### Smoke House Inn, Mildenhall

Persimmon Homes

148 kWth Solar Thermal



*A new development of 86 homes with Clearline solar heating panels. Viridian Solar worked closely with Persimmon's SAP assessors to help the design team achieve a 10% renewable energy planning condition in the most effective way.*

#### Dee Park, Reading

Willmott Dixon Catalyst Housing

98 kWp Solar PV  
90 kWth Solar Thermal



*A mixed development of general needs housing, shared ownership and private sale. Many houses sport a combined installation of solar heating and solar PV panels (examples above). The new Clearline PV photovoltaic panels match perfectly with the Clearline solar heating panels and are installed by the roofing contractors providing a sleek integrated look and peace of mind on roof weathertightness.*

#### Private Residence, Cornwall

Independent Energy

3.2 kWp Solar PV



*Seven roof-integrated Clearline PV30 panels were retrofitted into the slate roof of this private residence in Cornwall for a total installed area of 21 sqm and a peak PV output of 3.2kW.*

#### Nixon Court

Willmott Dixon University of Leicester

162 kWth Solar Thermal



*A new development of five student accommodation blocks, each fitted with a communal Clearline solar heating system. The installations have been accredited under the MCS using Viridian Solar's Solarsure service, and approved heat meters have been pre-fitted to the system to qualify for the Renewable Heat Incentive phase 1.*