



Redland Park United Reformed Church, Bristol

System Size: 8.16kWp

Commissioned: February 2009

Client: Redland Park URC

Modules: Sharp 170Wp x 48

Inverters: Fronius IG30 x 3

Roof type: Existing standard biscuit tiles

Module support system: Module support rails fixed to rafters with M8 60mm roof bolts. Modules fixed with Schletter clamps.

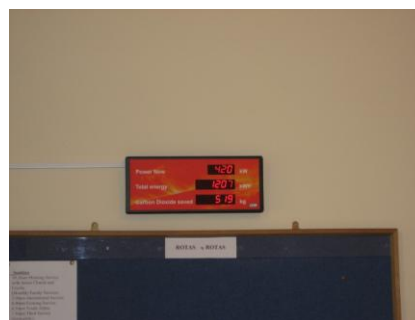
Estimated annual output: 6,936 kWh

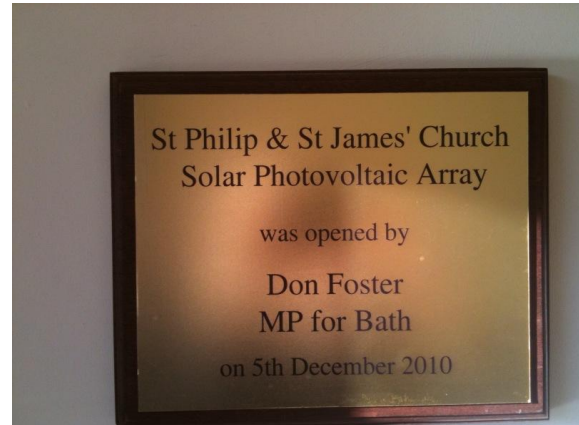
Annual CO2 emissions savings: 4.2 tonnes

Notable features: The church roof has received a number of visits from local and national political figures including Ed Miliband since the solar installation was completed.

Funding: The solar installation was funded jointly by grants from the Department of Energy and Climate Change's Low Carbon Buildings Programme and by matched funding from EDF.

Client's quote: *We only paid the scaffolding cost for the installation – and the church has made £850 from the first year of generating electricity!*





St Philip & St James Church, Bath

System Size: 18.13kWp

Commissioned: November 2010

Client: St Philip & St James Church

Modules: 98 x Solarcentury SC185Wp

Inverters: Fronius IG+120 & Fronius IG+70

Roof type: Concrete pan tiles on steel purlins and timber rafters on trussed steel frame.

Module support system: Unistrut module support rails coach screwed to rafters. Modules fixed to rails with specialist aluminium Sanyo clamps

Estimated annual output: 16,065kWh

Annual CO2 emissions savings: 9.37 tonnes

Notable features: Monitoring via a Rico GA300 Digital Display panel shows real time system output and live web feed into five local schools gives hundreds of local pupils access to generation data.

Solarsense and St Philip & St James Church came together through joint charity project work: installing solar power for lighting and water pump at schools in Uganda and India.

Funding: The 98 solar panels costing £64,000 were installed with £30,000 from the EDF Energy Green Fund, £15,430 from the Big Lottery Fund's Community Sustainable Energy Programme managed by BRE, a Carbon Trust Interest Free loan of £16,440 including energy efficiency measures and £2,130 from church funds.

Client's quote: *We could not recommend them (Solarsense) highly enough!*





St Michael and All Angels Church, Bedminster

System Size: 4.212kWp

Commissioned: January 2009

Client: Malago Play Association

Modules: 26 x Sharp 162Wp

Inverters: Fronius IG+40

Roof type: Slate tiles

Module support system: Unistrut module support rails bolted with M6 fixings. Modules fixed to rails with specialist aluminium Sanyo clamps

Estimated annual output: 3580.2kWh

Annual CO2 emissions savings: 2.17 tonnes

Notable features: One of the first churches in the UK to install solar. Output monitoring and visual displays display accrued and real-time data, demonstrating real time performance of the system to the people using the centre.

Funding: The £20,700 installation was funded in equal parts by grants from the Department of Energy and Climate Change's Low Carbon Buildings Programme and by matched funding from the E-on Source Fund.

Client's quote: *As a church we wanted to be a beacon to the community and inspire others to take steps towards low carbon living, and with Solarsense's help we have done that. Lots of people have come to us for advice due to us being one of the first to have such an installation, and we can now look around Bristol and see so many people's homes & community buildings that now have solar installed as a result.*

