

20 kWp Solar electric Array

St James United Reform Church, Buckhurst Hill, Essex



In December 2009 Ardenham Energy installed and commissioned a 20.4 kWp system for the St James United Reform Church in Essex.

The electricity generated is synchronised with the grid supply via 4 SMA Inverters and will be used to supply clean energy to the Church, as well as exporting to the grid for use elsewhere when there is more excess energy.

The 20.2 kWp array is almost silent in operation and will generate around 1700 kWh of greenhouse gas free electricity each year.

- 113 no 180 Monocrystalline Modules
- 4 no SMA SB SMC 5000 / SB2500 Inverters
- kWh Meter
- DC and AC switchgear
- G59 Cabinet and relay accepted by EdF Energy Networks
- kWh / kW / CO2 Display

Ardenham Energy Ltd is an engineering contractor certified under the UKMCS Low Carbon Buildings Scheme for grant aided projects (www.lowcarbonbuildings.org.uk). The company has extensive renewable energy engineering project experience and can provide a full service for wind systems, solar PV (electric), solar hot water systems, ground and air source heat pumps and backup power systems. These can be for domestic, governmental and commercial and non commercial buildings in the Home Counties and London region.

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