



ST GEORGES CATHOLIC CENTRE CASE STUDY

PROJECT OVERVIEW

St Georges Catholic Centre is a parish centre in the Clifton Diocese, in use by groups and congregations through the week and at weekends. DES Renewables installed a three-phase solar PV system with battery storage, routing cable through the loft spaces of an older building and commissioning the system onto remote monitoring.

St Georges Catholic Centre appointed DES Renewables to install solar PV with battery storage at its parish centre in Taunton. A Solax three-phase hybrid inverter was fitted with a Solax BMS and four Solax batteries, along with a meter box, sub distribution board, generation meter, isolators and three-phase surge protection. The system is monitored through SolaxCloud.

PROJECT DETAILS

Company Name: St Georges Catholic Centre

Location: Taunton, Somerset TA1 3NG

Solar System: Solax three-phase hybrid inverter

Battery Storage: Solax BMS and 4 x Solax
batteries

Installation Type: Roof-mounted solar PV and
battery

Project Timeline: On site Feb-Mar 2025,
completed April 2025





OBJECTIVES

Reduce electricity costs

- Cut electricity costs at a centre used on weekdays and at weekends
- Store daytime generation for use during evening bookings
- Fit a modern three-phase system into an older parish building
- Protect the installation with proper isolation and surge protection
- Give the centre remote visibility of the system through SolaxCloud



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BESPOKE ASSESSMENT AND DESIGN

INITIAL ASSESSMENT

DES surveyed the roof and the route the cabling would have to take through an older building. The design had to suit a parish centre in regular use, with scaffolding planned for safe access to the roof.

PERMITTING AND APPROVALS

Scaffolding was required for the roof works, and the installation was carried out to building regulations and electrical standards throughout, with a three-phase Hager surge protection device fitted to protect the installation.



SYSTEM DESIGN

The system is built around a Solax three-phase hybrid inverter paired with a Solax BMS and four Solax batteries. DES also installed a meter box, a sub distribution board, a generation meter, isolators and a three-phase Hager surge protection device, so the array, the storage and the centre's existing three-phase supply work together safely.



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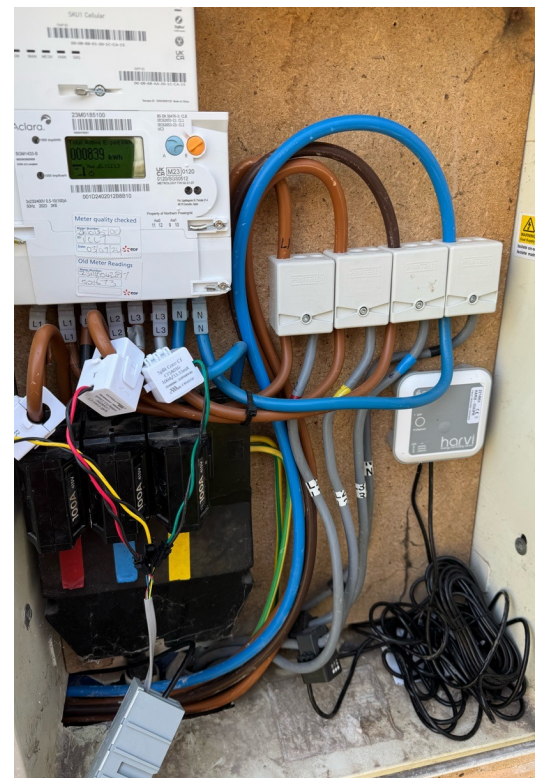
INSTALLATION AND COMPLETION

INSTALLATION AND COMMISSIONING

AC and DC were wired with the DC joined and extended through multiple loft spaces, a demanding route through an old building. At commissioning the batteries would not initially commission, so DES raised a Solax support ticket, had the faulty battery replaced and corrected the CT clamps.

WHERE DES RENEWABLE ENERGY ADDS VALUE:

With the CT clamps corrected the system read correctly and ran as designed. Monitoring is through SolaxCloud, giving the centre a clear view of generation and storage.



AT A GLANCE

- Solax three-phase hybrid inverter
- Solax BMS with 4 x Solax batteries
- Meter box, sub distribution board and generation meter
- Isolators and a three-phase Hager surge protection device
- DC joined and extended through multiple loft spaces
- Monitored through SolaxCloud



BENEFITS

- Energy Cost Reduction: Solar offsets daytime use across weekday and weekend activity
- Storage: Four Solax batteries hold surplus generation for later in the day
- Suited to the Building: Cabling routed through loft spaces in an older parish building
- Protection: Three-phase surge protection and proper isolation
- Visibility: SolaxCloud shows how the system is performing



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OUR ACCREDITATIONS

We are MCS Certified which guarantees that our installations have been designed, installed, and commissioned to the highest standard using only MCS certified products.

We are also NAPIT Certified which confirms that we are certified to install and self-certify all of our electrical installations. We also comply with the Renewable Energy Consumer Code (RECC).



Electrical Safety
Register