



CASE STUDY

**Sybil Andrews
Academy, Bury St
Edmunds**

**Working alongside
Bauder,
incorporating a solar
PV system onto their
new flat roof.**

Providing power for a commercial building

Sybil Andrews Academy was opened in autumn 2016 to assist with the growing population in the local area. The academy were keen to get as much renewable energy on the new school to help keep their running costs down, and assist with making some return on investment.

Chelsfield Solar were employed by the electrical contractors and worked closely with the roofing supplier, Bauder, to install a Bauder approved PV system for the two new roofs. The resulting PV installations feed energy into the three phase communal power supply to the academy.

The academy continues to expand. Following the success of the phase 1 works, Chelsfield Solar then worked on the phase 2 connections. Working with Bauder and Bower Fuller again, Chelsfield Solar connected another large solar PV system to the new sports complex on the academy grounds.

Chelsfield Solar Project Role

Specialist PV system contractor employed by the electrical contractor – Bower Fuller. Detailed PV system electrical and mechanical design, supply, installation and commissioning.

Technical Specifications

- Two PV arrays comprising 307 x 50W Axitec AXI PV modules.
- 49.98kWp system connected to 2 x SMA Tripower 20000TL grid-connected inverters.
- 29.84kWp system connected to 1 x SMA Tripower 20000TL & 1 x SMA 12000TL grid connected inverter.
- Both systems face south and are tilted at 12°.
- G59 three phase mains connection into the main fuse board with excess energy exported back to the grid.
- Bauder approved installation, giving the client peace of mind that the roofing warranty is valid with the PV installed.

