

CASE STUDY









634,017kg
CO₂ saved per year



MHR
Nottingham

Our team designed and installed a PV system using Solfits Innovative ‘in-roof’ PV panels which went on to become the UK’s largest in-roof system. As the system is built straight into the roof, it requires less no traditional roof covering materials making it a more environmentally friendly solution and an aesthetically pleasing product for the building’s owners.

SMART GRID HV/LV SOLAR BATTERY EV O&M

125kWp
System Size

378 x 330W
Panels Used

108,489 kWh
Annual Output



Following on from the first successful installation we did for the end client, our team was appointed by Stepnell to design and install a PV system on their new set of office buildings. In addition to reducing their carbon emissions, the client also required a system that could be embedded into the roof in order to improve its aesthetics.

Our solution to this was to use a Solfit system which embeds straight into the roof itself, removing the need for mounting frames or roof tiles.

This solution not only offers clients a less exposed and aesthetically pleasing PV system, but is also faster to install due to its ingenious interlocking framing system which allows each PV tile to be pushed and clicked into place to form a strong and watertight solar roof. The installers fitted 42 panels in an afternoon after only 2 days of training .

The aluminium system is entirely plastic free making it more environmentally friendly than alternative solutions and is designed to prevent any water to ingress. The 370Wp panels are the highest output roof-integrated panel on the market. Furthermore, the versatile design also allowed us to fill as much of the roof as possible with panels to optimise the potential energy generation.

As the system was to be placed on a new building, our team created the designs on desktop to bring our client's ideas to fruition. In addition to this, we helped the client achieve grid connection for their new buildings.

Now operational, the 125kWp system saves the company 634,017kg of carbon per year whilst generating 108,489kWh (first year). The client was also supplied an EMIG monitoring system to help review and optimise the performance of the system.

Going forward, this will reduce their energy expenditure and dependency on the grid. On top of this, the client also has the option to install EV charging points to support colleagues and site visitors.

Due to the success of this project, the client has opted for two more additional sites to have Solfit panels installed, which will see them support the UK government's carbon net zero targets.

In addition to improving the local air quality, the canopies also provide shade from the sun and shelter from the rain for the carpark users. Furthermore, the carport has been integrated with the existing drainage system on site to help keep rainwater from flooding the carpark.

