

SOLAR PV CASE STUDY **THE ROYAL SOCIETY OF CHEMISTRY**



The Royal Society of Chemistry is the world's leading chemistry community, advancing excellence in the chemical sciences. With over 48,000 members and a knowledge business that spans the globe, they are the UK's professional body for chemical scientists; a not-for-profit organisation with 170 years of history and an international vision for the future. They promote, support and celebrate chemistry. They work to shape the future of the chemical sciences – for the benefit of science and humanity. The Royal Society of Chemistry plays an integral role in advancing research and development in the future of Solar PV technology.

"Our solar panel installation is a symbol of how the work of the chemical sciences community connects to the economy and brings sustainable solutions to global challenges."

- Clare Viney, Director Communications, Policy and Campaigns

Background:

As an organisation, the Royal Society of Chemistry is committed to sustainable energy. Chemistry research and innovation has contributed to new solar energy technologies, better batteries and new fuels. The solar panel installation will deliver around 3.25% of electricity in The Royal Society of Chemistry's offices in Thomas Graham House, Cambridge under standard conditions.

The detail:

A 50kWp Solar PV array situated over six roof areas on the building with the ability to remote monitor the energy production via the internet, with the capability to provide this information in the entrance lobby.

Panel model: Sharp ND-R250A5 Polycrystalline

Number of panels: 200

Inverter: SMA SB3000TLST-21, STP5000TL-20,
STP10000TL10 & 2 x STP10000TL10

Monitoring system: 2 X SMA Sunny Webbox

Annual output: 45,250 kWh



The benefits:

Forecast lifetime performance:

- Reduced energy costs
 - 879,207 kWh = £239,569
- Revenue generated through FiT and export tariff
 - £163,892
- Reduction in CO₂ emissions
 - 470 Tonnes saved



The Royal Society of Chemistry team, Sharp team, Julian Hubbard MP and Ryan O'Connell, of Evogreen.

Client testimonials:

"Solar energy has tremendous potential to play a key role in achieving a more sustainable energy mix and the Royal Society of Chemistry is determined to play its part in achieving that vision."

- **Bob Shimmens, Manager, Facilities and Building Operations**

"It's good to see the Royal Society of Chemistry leading the way on solar energy. It makes absolute sense at a time when energy prices are rising and the future of electricity production is so uncertain. Solar energy is free, sustainable and green. It has much to recommend it and I hope that other organisations will follow this lead." - **Dr Huppert, MP for Cambridge**



"Evogreen were selected from a tender list following site surveys and the creation of proposals for installation. During the site survey and tender process, Evogreen always displayed an eagerness to provide excellent customer service. They were also very knowledgeable and conveyed the process information in such a way that left the customer in no doubt as to what they were undertaking.

During the installation Evogreen provided all the necessary health and safety information, project plan information prior to the works commencing and regularly attended site to ensure the installation was on target and that the customer was happy. Their sub-contractors were professional, friendly and approachable whilst on site.

The installation finished in the agreed timescale, within the agreed budget and their post project assistance was invaluable" – **Chris Keech, Facilities Manager'**

EvoGreen specialises in working with organisations to achieve their sustainable energy ambitions.

Our differentiator is that we provide market leading, Carbon Trust approved, finance options, which organisations are able to embrace with a true neutral cost to entry. This enables the costs to spread over a number of years with no initial capital outlay.



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