

Case Study: The Swan Sanctuary



Powercor create a solar sanctuary without ruffling residents' feathers

The Swan Sanctuary is a charity dedicated to the care and treatment of swans and waterfowl with a worldwide reputation. The sanctuary was the first national refuge for the protection of mute swans when it opened in Surrey.

As the Sanctuary's workload on the council-owned site grew quickly, it became obvious that a larger location was required and the Sanctuary relocated to Shepperton, Middlesex.

A new solar solution for The Swan Sanctuary site

With the new site's energy infrastructure in need of updating, The Sanctuary was keen to upgrade to a more efficient and environmentally friendly system by installing the latest in solar technology infrastructure.



Benefits of Powercor's project



**Gross savings
(20 years):**
£108,279



**Net savings
(20 years):**
£48,100



**CO2 reduction
(per annum):**
7.13 tonnes



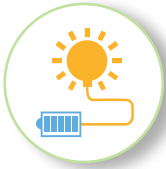
**Trees planted
equivalent (20 years):**
1,428

Project Summary

The Swan Sanctuary was looking to cut costs and be more environmentally friendly by utilising more efficient energy technologies. Powercor was tasked with designing a new and comprehensive energy infrastructure that would convert much of the current power source to solar power and be robust enough to supply electricity to every region of the charity's vast campus.

The task was unique and complex due to the nature of the site and the requirement that the system be installed with minimal disruption to the surrounding ecosystem and the animals that call the site home.

The Solution



Solar

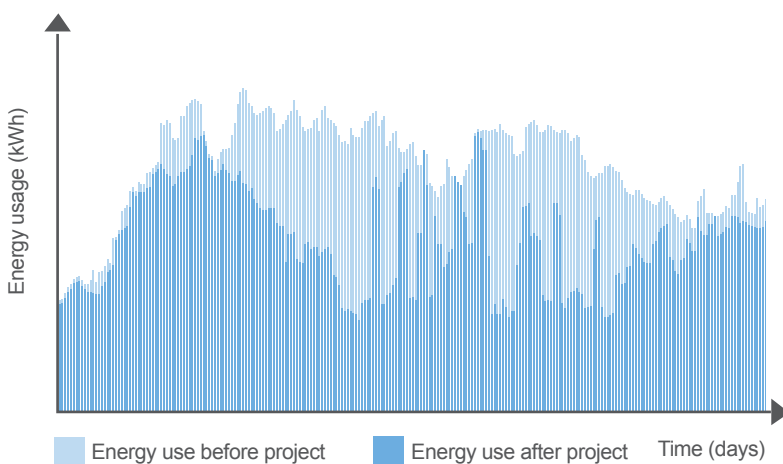
Powercor used a CGI computer generated schematic to construct a comprehensive solar system design that met the unique needs the client's requirements for their site. The schematic gave the Sanctuary an in-depth perspective of the project and showed how it could be carried out with minimal disruption to the Sanctuary and its surroundings. Powercor needed to complete the G99 application – to gain approval to connect the electrical distribution network - carefully to avoid any approval issues.



Lighting & Metering

Following the G99 application approval, the system was installed complete with a lighting infrastructure that saw new state-of-the-art LED lighting across the site. Control and monitoring systems now ensure that lighting costs are minimised. The Sanctuary is also able to understand and track its energy usage, identify any usage issues and compare old and new usage data.

Energy usage before and after installation



“ Our experience with Powercor has been exemplary from the first discussions to the installation of the solar panels at the Swan Sanctuary. We are already seeing savings on our power costs, even with the grey winter we are having at the moment. We have no hesitation in recommending Powercor to anyone interested in going solar. ”

Steve Knight - Trustee, The Swan Sanctuary

Contact us today for compliant and efficient emergency lighting installation.

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