

KING'S CHURCH

KING'S CENTRE, CHESSINGTON



INTRODUCTION

Completed in January 2024, the solar installation at The King's Centre in Chessington reflects a clear commitment to environmental stewardship and financial sustainability.

As a busy venue for community activity, conferences and events, the Centre needed a solution that could reduce energy costs and carbon emissions without disrupting existing operations. Careful planning and close coordination were essential to ensure the installation was delivered smoothly, with minimal impact on day-to-day events.

This case study outlines the system design and its benefits, demonstrating how solar can support economic and environmental goals in community-led spaces.

SYSTEM COMPONENTS

- ✓ **Solar panels:** 96 x JA Solar 420W panels (40.32kWp) – offering efficient and reliable energy generation.
- ✓ **Inverters:** Solis S5-GC36K-DC (36kW) – ensuring consistent and effective energy conversion.
- ✓ **Mounting system:** K2 Solid Rail – providing a robust and durable installation on the existing roof structure.
- ✓ **Pigeon-proofing:** SolaSkirt® premium pigeon-proofing – protecting against nesting birds while enhancing system aesthetics.









Fantastic installation by Titan Eco at King's Church Chessington. Superb team of installers and first rate electricians. Aesthetically you couldn't wish for a better finish, and we are already seeing the real time benefits. Thank you everyone.

Tony Sage - Building Supervisor, King's Centre



IMPLEMENTATION

- 
Assessment: A detailed technical survey was carried out to assess roof suitability and system design.
- 
Preparation: Mounting equipment was installed using the K2 Solid Rail system to ensure long-term stability.
- 
Installation: Panels were lifted into place and 6 x DC strings were routed back to the inverter location. SolaSkirt® was fitted around the array to pigeon-proof and deliver a clean, architectural finish.
- 
Integration: The Solis inverter was connected to the building's electrical system for seamless solar integration.

LOGISTICS

As an active community venue hosting regular events, it was essential that the installation did not interfere with the Centre's day-to-day operations. Careful coordination was therefore required to minimise disruption, with all work delivered efficiently and in full compliance with health and safety regulations.

OUTCOMES

The solar installation at The King's Centre is projected to generate approximately 38,586 kWh annually—helping to lower the facility's carbon footprint while delivering meaningful savings.

With projected annual savings of around £14,500, the system strengthens the long-term financial position of the Centre and Church. By combining clean energy with SolaSkirt's protective and aesthetic benefits, the installation reflects a practical and forward-thinking approach to sustainability.

ANNUAL OUTPUT



38,586

kWh CLEAN ENERGY

ANNUAL REDUCTION



10

TONNES OF CO₂

ANNUAL SAVINGS



£14,500

ELECTRICITY & EXPORT



www.titaneco.co.uk



0333 444 2136



info@titaneco.co.uk