

QUEEN'S PARK PRIMARY

WESTMINSTER, LONDON

INTRODUCTION

Queen's Park Primary School in Westminster is one of a number of London schools selected to receive government funding through the Mayor's Greener Schools programme - an initiative designed to help schools cut energy costs, lower carbon emissions and strengthen energy resilience.

For Queen's Park, the project represents a smart investment in long-term sustainability. By generating clean electricity on site, the school can take greater control of its energy costs while contributing to London's wider net zero goals.

The solar system was designed to be efficient and durable, delivering meaningful savings for the school while serving as a visible reminder of how local initiatives can help shape a cleaner, more sustainable world.

SYSTEM COMPONENTS

- ✓ **Solar panels:** 44 x 450W (19.80kWp) low carbon, fully traceable JA Solar panels.
- ✓ **Inverter:** Solis 3-phase 20kWp inverter - providing conversion efficiency of up to 98.7 %, and real-time performance tracking and analysis.
- ✓ **Mounting system:** Renusol Hook & Rail mounting system - German-engineered and widely trusted across the UK solar industry for its strength, safety and structural integrity, paired with BBA-certified Genius InterFlash for integrated weatherproofing.
- ✓ **Pigeon-proofing:** Titan Eco's premium pigeon proofing system, SolaSkirt® - preventing nesting birds, to maintain system performance - and hiding rails and wires, preserving the visual appearance of the array.





This investment will help schools reduce their energy costs so they can spend more on vital resources such as books, technology and staff - and cut carbon emissions so schools can play their part in tackling air pollution in the capital.

Mayor of London - on the Greener Schools Programme

IMPLEMENTATION

- Assessment:** A full roof and structural survey was carried out, including an assessment of the existing electrical infrastructure.
- Mounting system:** Renusol Hook & Rail mounting system was installed, with Genius Interflash at each hook position, for a reliable, long-term, watertight seal.
- Installation:** 44 × JA Solar modules were mounted and DC cabling was routed to the inverter.
- Inverter:** The Solis 3-phase 20 kW inverter was installed and the system commissioned, with monitoring enabled to track power generation and performance.
- Pigeon-proofing:** Our flagship pigeon proofing system, SolaSkirt®, was installed around the perimeter of the array to prevent pigeons nesting, and maintaining both the visual quality and the functionality of the solar installation.

OUTCOMES

The completed system provides the school with a 19.8 kWp clean energy installation, directly reducing grid electricity consumption and cutting energy bills.

By producing renewable power on site, the school can redirect savings into teaching resources and facility improvements while helping to reduce its carbon footprint.

The installation is low-maintenance, discreet and built for long-term performance, ensuring ongoing value for years to come. For pupils, it's also a real-world example of climate action in practice, demonstrating how local change can contribute to a wider environmental goal.



ANNUAL OUTPUT



18,941

kWh CLEAN ENERGY

ANNUAL REDUCTION



3.9

TONNES OF CO₂

ANNUAL SAVINGS



£4,700

ELECTRICITY & EXPORT



www.titaneco.co.uk



0333 444 2136



info@titaneco.co.uk