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CASE STUDY 6 - SOMERS HEATH SCHOOL

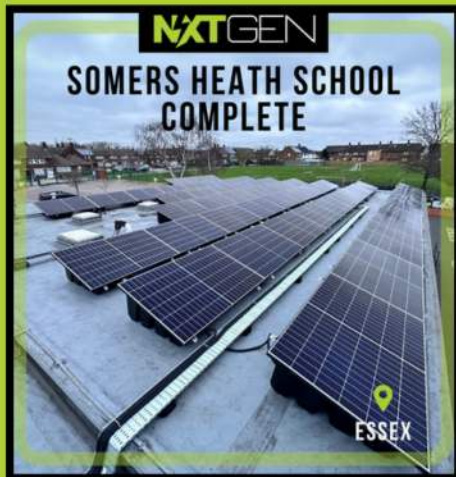
Commercial solar panels case study of an install of a Solar Panel System of 138 Trina Vertex S+ 435W (60kWp) Solar Panels at Somers Heath School in South Ockendon, Essex.

INTRODUCTION

In the midst of February 2024, amidst unending rain and chilly winds, Somers Heath School in South Ockendon, Essex, UK, took a significant step towards environmental sustainability. Partnering with MCS Certified Solar PV (panels) Installer and MCS Certified Battery Storage Installer NXTGEN Energy Ltd., the school chose to embrace clean energy by installing a robust Solar PV System on its premises. This case study delves into the details of this solar project, exploring its benefits, challenges, and the potential it holds for similar educational institutions in Essex and further afield in the UK.



COMMERCIAL PROJECT DETAILS



SOMERS HEATH SCHOOL

- **Installer:** NXTGEN Energy Ltd., 66-72 High Street, Rayleigh, Essex SS6 7EA
Tel: 01268 928 690 - info@nxtgen.ltd
- **Location:** Somers Heath School, Foyle Dr, South Ockendon, Essex RM15 5LX
- **Technology:** 138 TrinaSolar Vertex S+ 435W (60kWp) Solar Panels
- **Installation:** February 2024

PROJECT SCOPE

Site assessment

NXTGEN's team conducted a thorough evaluation of the school's roof space, including size, orientation, and structural integrity, to determine suitability for solar panel installation.

System design

A customized solar PV system was designed, considering the school's electricity consumption patterns, roof characteristics, and budget constraints. Ensuring optimal energy production.

Project management

NXTGEN oversaw the entire project lifecycle, from obtaining permits to coordinating with relevant stakeholders, ensuring a smooth and efficient execution.

Installation

The team from NXTGEN, with safe access provided by Next Generation Scaffolding Ltd., installed the solar panels, inverter and electrical wiring, adhering to strict safety regulations and industry best practices.

Commissioning and testing

Upon completion, the system underwent rigorous testing and commissioning to verify performance and ensure it meets all safety standards.

PROJECT BENEFITS

Financial savings

The solar panels are anticipated to generate a substantial portion of the school's energy requirements, leading to cost reductions on their energy bills over the system's lifespan. This financial benefit can be reinvested in other educational resources or school improvement initiatives.

Reduced carbon footprint

By harnessing clean and renewable solar energy, Somers Heath School is contributing to mitigating climate change. The solar power translates to a lower reliance on fossil fuels and a smaller carbon footprint.

Educational value

The solar panel installation serves as a valuable educational tool, offering students first hand exposure to renewable energy technology and its environmental benefits. This can inspire future generations to embrace sustainability practices.

Increased property value

Studies suggest that buildings with solar panels can command a higher market value. This potential increase in property value is an added benefit for the school.

CONCLUSION

The Somers Heath School and NXTGEN Energy partnership demonstrates the benefits of integrating solar energy into school infrastructure. By harnessing the power of the sun, Somers Heath School is not only saving money and reducing its environmental impact, but also starting a culture of sustainability and environmental awareness among its students. This project paves the way for broader adoption of solar energy in the educational sector, contributing to a green future for generations to come in the UK.

The Somers Heath School is an example of how commercial solar panels can help schools cut energy costs, reduce carbon emissions, and attract eco-conscious parents and students. NXTGEN was able to provide a tailored solar energy solution that met the Somers Heath School's energy needs and expectations.

Are you an Academy, School, College or University that is interested in going green with commercial solar panels? Get in contact on 01268 928 690 or email info@nxtgen.ltd for quote.