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CASE STUDY 7 - KETTERING

Residential solar panels case study of an install of a Solar Panel System of 33 Jinko Tiger Neo 435W Solar Panels (14.35 kWp) on the roof of a house in Kettering, Northamptonshire, UK.

INTRODUCTION

This case study delves into a residential solar PV installation of a 14.35 kWp solar PV system in Kettering, UK, designed and professionally installed by MCS Certified Solar Panel Installers NXTGEN Energy Ltd. We'll explore all the technical details, financial projections, and the environmental impact of this solar panel system.

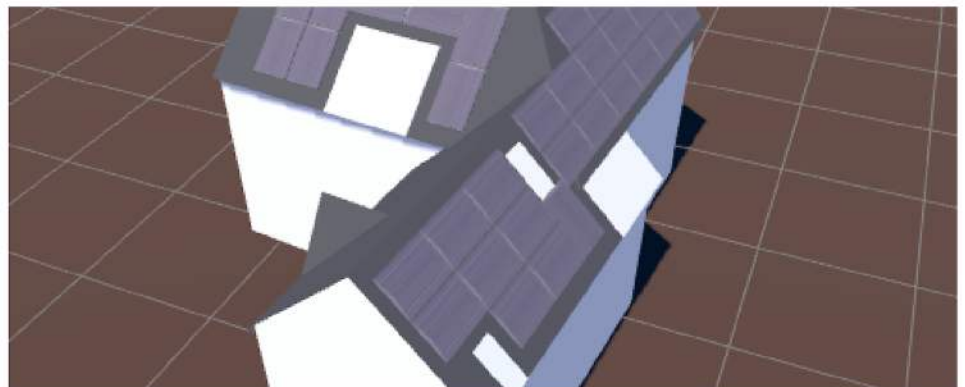
PROJECT DETAILS

Installer: NXTGEN Energy Ltd.

Location: Kettering, UK

Technology: 33 Jinko Tiger Neo 435W N-Type All Black Mono Solar Panels (14.35 kWp)

Installation: February 2024



SOLAR SOLUTION

NXTGEN Energy Ltd Solar Specialist Bobby proposed a 14.35 kWp Solar Panel System tailored to the specific needs and roof characteristics of this customer's home.

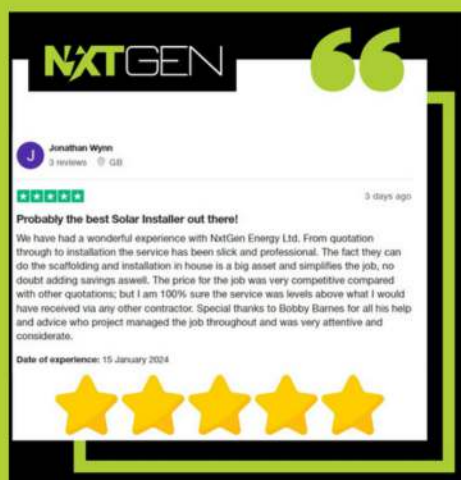
Here's a breakdown of the key components:

SOLAR PV SYSTEM

Solar Panels: 33 Jinko Tiger Neo 435W N-Type All Black Mono solar panels, known for high efficiency & sleek design.

Solar Inverter: Fox G10 10kW Single Phase Solar Inverter (3 MPPT), capable of handling the output and maximizing energy production.

5-STAR CUSTOMER REVIEW



JONATHAN WYNN - DUNSTABLE Probably the best Solar Installer out there!

We have had a wonderful experience with NXTGEN Energy Ltd. From quotation through to installation the service has been slick and professional. The fact they can do the scaffolding and installation in house is a big asset and simplifies the job, no doubt adding savings as well. The price for the job was very competitive compared with other quotations; but I am 100% sure the service was levels above what I would have received via any other contractor. Special thanks to Bobby Barnes for all his help and advice who project managed the job throughout and was very attentive and considerate.

Battery Storage: GivEnergy

All in One AC Coupled System with Gateway Hybrid Inverter, integrating seamlessly with the system and allowing for self-consumption of generated electricity.

Mounting System: Fastensol pitched roof mounting system, specifically designed for slate roofs and ensuring secure panel installation.

Additional Equipment: Bi-directional meter, cables, connectors, isolators, and other components for safe and efficient system operation.

SOLAR RESULTS

Energy Generation: About 10,600 kWh annually, potentially covering a significant portion of the client's energy needs each year.

CO2 Reduction: About 2,250 kg annually, equivalent to offsetting the carbon emissions of driving about 8,000 miles in an average family petrol car.

Financial Savings: About £3,200 in the first year, with a payback period of approx 9 years. Potential for additional income through Smart Export Guarantee (SEG) payments.

Environmental Impact: Reduced reliance on fossil fuels like oil, gas and coal and contribution to a cleaner energy future.

SOLAR IMPACT

Reduced electricity bills: Lower bill costs and increased financial independence from high energy bills in the UK.

Increased energy security: Reduced reliance on the National Grid & potential for energy independence with battery storage expansion.

Positive environmental contribution: Active participation in the transition to renewable energy and combating climate change in the United Kingdom.

CONCLUSION

The Solar PV System installed in Kettering presents a case for harnessing the power of the sun. With its potential for significant financial savings, reduced environmental impact, and energy independence, it's a worthwhile investment for not only the eco-conscious, but for all homeowners in the UK. Consideration of technical specifications, financial projections, and potential challenges helps ensure a successful solar journey with the expert solar energy team at NXTGEN Energy Ltd.

Remember, this case study is just a starting point. Consulting with a qualified solar installer like NXTGEN Energy Ltd. for a personalised assessment and free no-obligation quote on 01268 928 690 or email the solar team at info@nxtgen.ltd for a quote tailored to your property and your needs is crucial before making any final decisions.