



SCOTT CLOSURES & PLASTICS CASE STUDY

PROJECT OVERVIEW

Scott Closures & Plastics is a Poole-based manufacturer of closures and plastic components. To reduce operating costs and strengthen its environmental credentials, the company partnered with DES Renewable Energy to install a large-scale rooftop solar PV system that generates clean electricity onsite, lowers energy bills, and supports its long-term sustainability goals.

Scott Closures & Plastics commissioned DES Renewable Energy to install a 436.65 kWp solar PV system across its industrial roof. The installation comprised 710 x 615W Astronergy (CHINT Solar) panels connected to a SolaX inverter array delivering 350kW of inverter power. The project aimed to reduce electricity costs, lower carbon emissions, and enhance long-term financial sustainability.

PROJECT DETAILS

Company Name: Scott Closures & Plastics
Location: 57 Balena Close, Poole, BH17 7DY
Solar System Capacity: 436.65 kWp
Estimated Annual Generation: 357,976 kWh
Installation Type: Pitched industrial roof solar panels
Project Timeline: Full project delivered over standard installation phases from survey to commissioning





OBJECTIVES

Reduce electricity costs

- Reduce electricity costs and dependence on grid energy
- Improve environmental sustainability by reducing carbon footprint
- Achieve long-term operational savings and financial returns
- Demonstrate responsible energy practices to customers, staff and stakeholders



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BESPOKE ASSESSMENT AND DESIGN

INITIAL ASSESSMENT

DES Renewable Energy conducted a comprehensive assessment of roof space, structural considerations, sun exposure, and interlocking constraints. This ensured optimal placement and system sizing to maximise energy production and long-term reliability.

PERMITTING AND APPROVALS

DES Renewable Energy ensured compliance with building regulations, electrical standards, and industry best practices. All necessary permits and approvals were obtained to guarantee a fully compliant and safe installation.



SYSTEM DESIGN

The system was designed with 710 x 615W Astronergy (CHINT Solar) panels across the pitched industrial roof. Power conversion is handled by a SolaX inverter array - 2 x X3-FTH-125K-G2 (125kW each) and 1 x X3-FTH-100K (100kW) - providing 350kW of total inverter capacity for efficient energy management and integration with the site's electrical infrastructure.



INSTALLATION AND COMPLETION

INSTALLATION AND COMMISSIONING

The installation was carried out with minimal disruption to the day-to-day site operations. Panels were securely mounted, connected to the inverter, and integrated with the existing electrical system. Comprehensive testing and commissioning verified the system's performance, functionality, and safety.

WHERE DES RENEWABLE ENERGY ADDS VALUE:

From initial assessment to completed commissioning, DES Renewable Energy provides a turnkey solution that ensures optimal energy generation, regulatory compliance, and sustainable operational savings.



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AT A GLANCE

- 710 x 615W Astronergy panels on a pitched industrial roof
- 436.65 kWp total system capacity
- 2 x SolaX X3-FTH-125K-G2 plus 1 x X3-FTH-100K inverters (350kW)
- 357,976 kWh of clean energy generated per year
- Optimised system for maximum energy generation and efficiency
- Reduced electricity costs and carbon footprint



BENEFITS

- **Energy Cost Reduction:** Lower electricity bills and reduced reliance on grid energy
- **Environmental Impact:** Around 357,976 kWh of clean energy each year, saving an estimated 74 tonnes of CO2 annually and supporting sustainability goals
- **Financial Returns:** Savings on energy costs contribute to long-term financial sustainability
- **Public Image:** Demonstrates responsible energy practices to visitors, stakeholders, and the wider community



OUR ACCREDITATIONS

We are MCS Certified which guarantees that our installations have been designed, installed, and commissioned to the highest standard using only MCS certified products.

We are also NAPIT Certified which confirms that we are certified to install and self-certify all of our electrical installations. We also comply with the Renewable Energy Consumer Code (RECC).

