



BRIDLINGTON C.Y.P.



BRIDLINGTON CLUB FOR YOUNG PEOPLE CASE STUDY

PROJECT OVERVIEW

Bridlington Club For Young People is a community organisation based in Bridlington, East Yorkshire. To reduce the running costs of its facilities, it partnered with DES Renewable Energy to install a large-scale rooftop solar PV system with battery storage that generates clean electricity onsite, lowers energy bills, and supports its long-term sustainability goals.

Bridlington Club For Young People commissioned DES Renewable Energy to install a 68.45 kWp solar PV system across its roof. The installation comprised 115 x 595W Astronergy panels connected to a SolaX X3-Mega 60kW inverter, paired with a 50kW/100kWh Solax Aelio battery. The project aimed to reduce electricity costs, lower carbon emissions, and enhance long-term financial sustainability.

PROJECT DETAILS

Company Name: Bridlington Club For Young
People

Location: Gypsy Road, Bridlington, YO16 4AY

Solar System Capacity: 68.45 kWp

Estimated Annual Generation: 65,023 kWh

Installation Type: Trapezoidal roof solar panels
with battery storage

Project Timeline: Delivered July 2025, 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 staff, visitors and the local community



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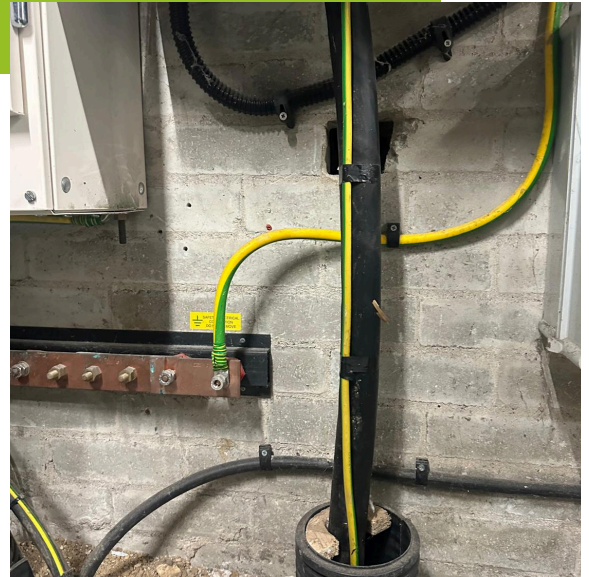
BESPOKE ASSESSMENT AND DESIGN

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 115 x 595W Astronergy panels across the trapezoidal roof. Power conversion is handled by a SolaX X3-Mega 60kW inverter, paired with a 50kW/100kWh Solax Aelio battery to maximise self-consumption. The system integrates with the site's existing electrical infrastructure for efficient energy management.



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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.

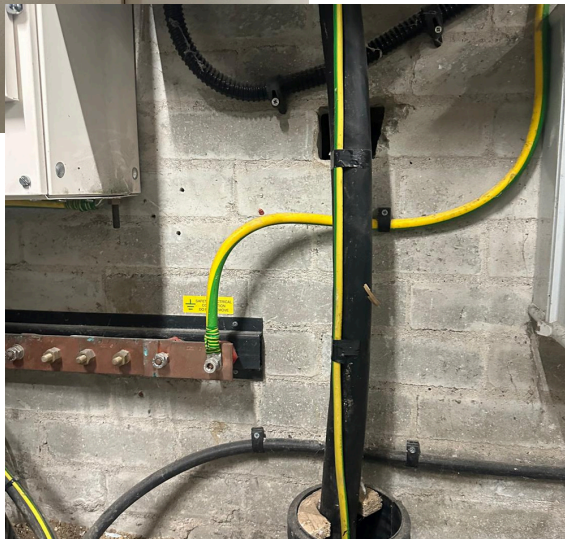
WHERE DES RENEWABLE ENERGY ADDS VALUE:

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



AT A GLANCE

- 115 x 595W Astronergy panels on a trapezoidal roof
- 68.45 kWp total system capacity
- Solax X3-Mega 60kW inverter with 50kW/100kWh Solax Aelio battery
- 65,023 kWh of clean energy generated per year
- Reduced electricity costs and carbon footprint



BENEFITS

Energy Cost Reduction: Lower electricity bills and reduced reliance on grid energy

Environmental Impact: Around 65,023 kWh of clean energy each year, saving an estimated 13.5 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 staff, visitors and the local community



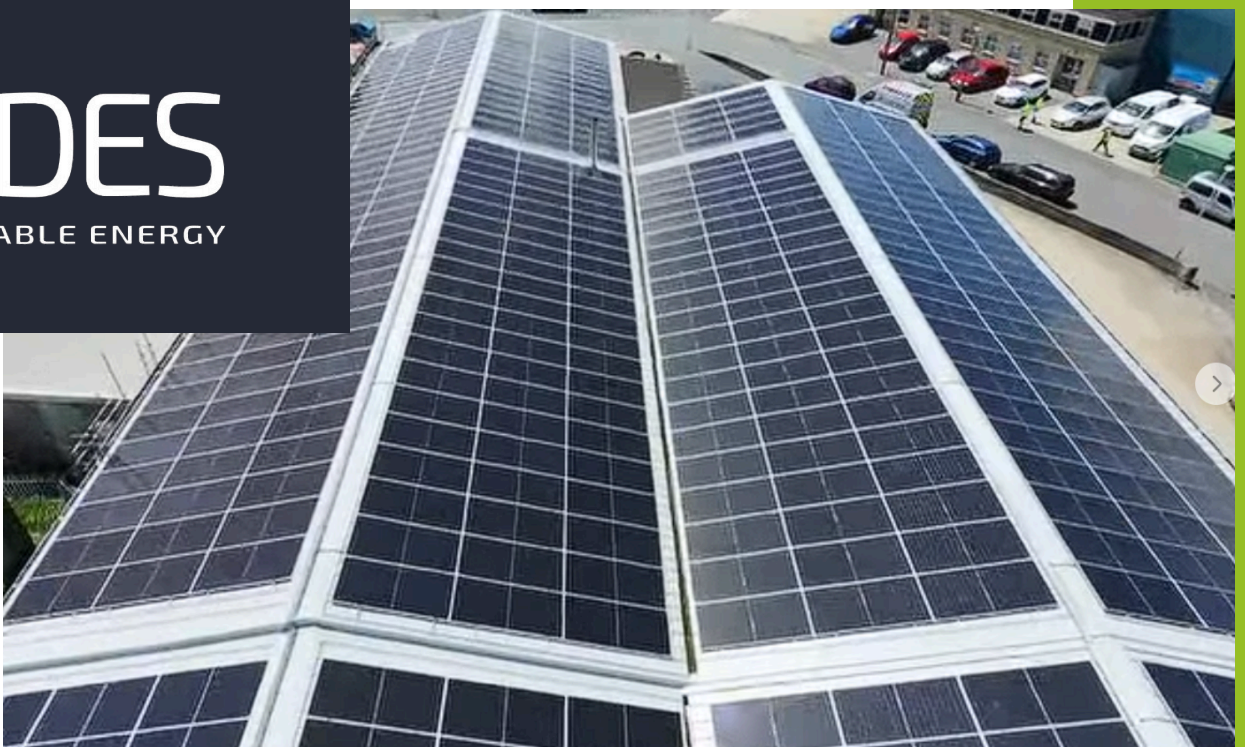
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OUR ACCREDITATIONS

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).



Electrical Safety
Register