



FELIXSTOWE & WALTON UNITED FC CASE STUDY

PROJECT OVERVIEW

Felixstowe & Walton United FC is a community football club on the Suffolk coast. To reduce the running costs of its clubhouse and facilities, the club partnered with DES Renewable Energy to install a rooftop solar PV system with battery storage and EV charging that generates clean electricity onsite, lowers energy bills, and supports its long-term sustainability goals.

Felixstowe & Walton United FC commissioned DES Renewable Energy to install a 38.61 kWp solar PV system across its clubhouse roof. The installation comprised 66 x 585W Astronergy panels connected to a Solax X3-ULT-30 30kW inverter, paired with 40.9 kWh of AC-coupled battery storage and a 22kW Solax EV charger. The project aimed to reduce electricity costs, lower carbon emissions, and enhance long-term financial sustainability.

PROJECT DETAILS

Company Name: Felixstowe & Walton United FC
Location: Dellwood Avenue, Felixstowe, Suffolk,
IP11 9HT

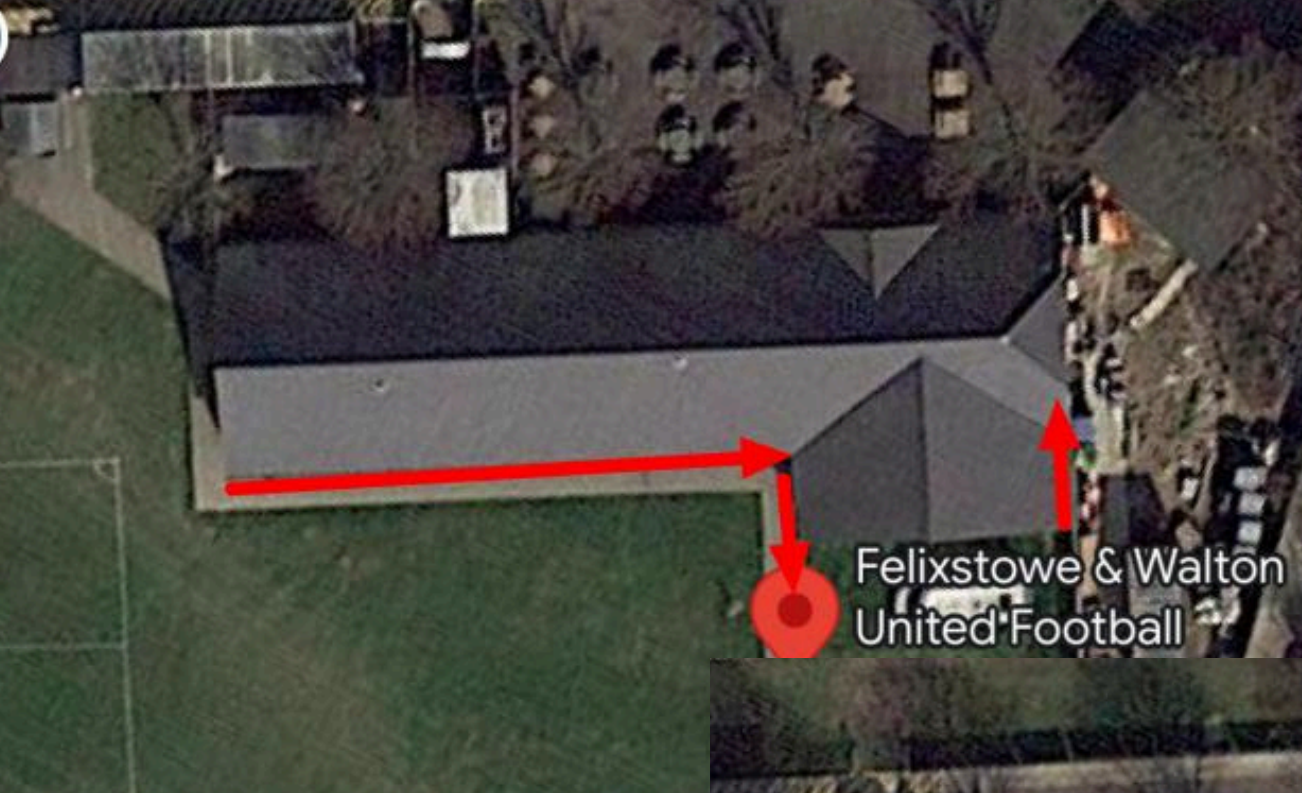
Solar System Capacity: 38.61 kWp

Estimated Annual Generation: 31,343 kWh

Installation Type: Pitched roof solar panels with
battery storage & EV charging

Project Timeline: Delivered February 2025, from
survey to commissioning





OBJECTIVES

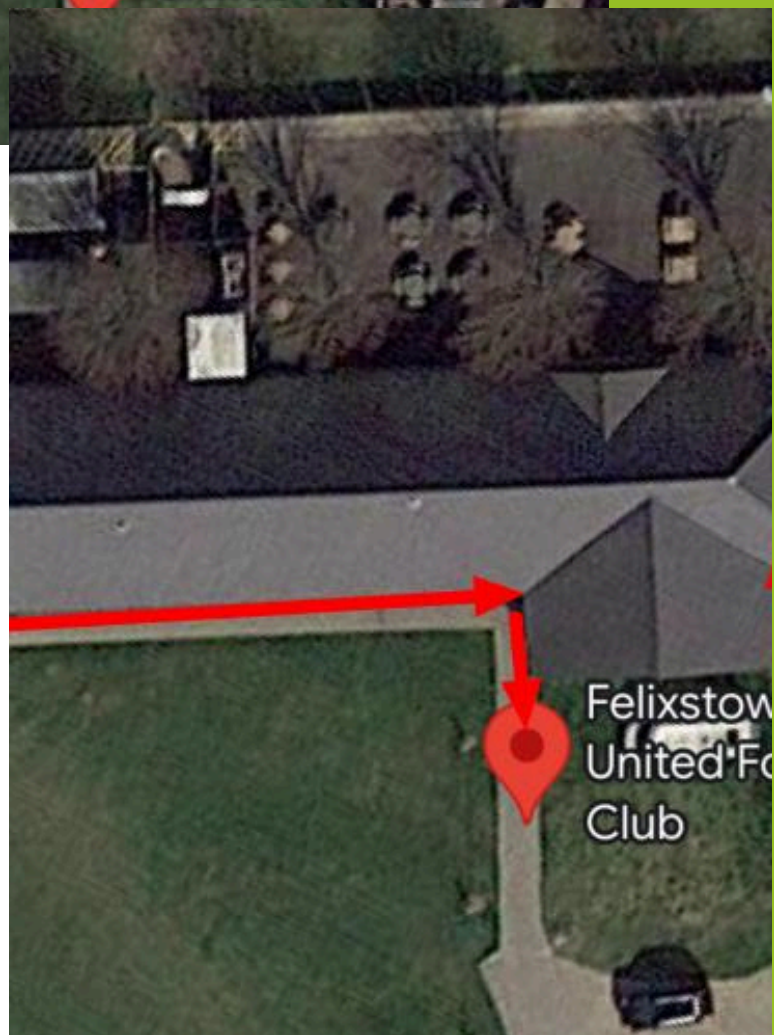
Reduce electricity costs

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 members, visitors and
the local community



+44 1202 985888



www.desrenewables.com



info@desrenewables.com

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.

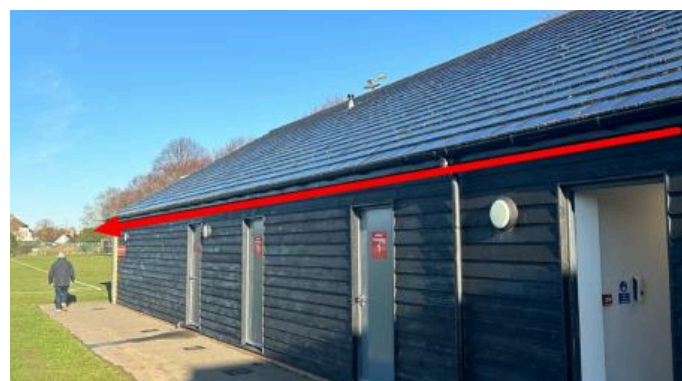
PERMITTING AND APPROVALS

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 66 x 585W Astronergy panels across the clubhouse roof. Power conversion is handled by a Solax X3-ULT-30 30kW inverter, paired with 40.9 kWh of AC-coupled battery storage to maximise self-consumption and a 22kW Solax EV charger. The system integrates with the club's existing electrical infrastructure for efficient energy management.



+44 1202 985888



www.desrenewables.com



info@desrenewables.com

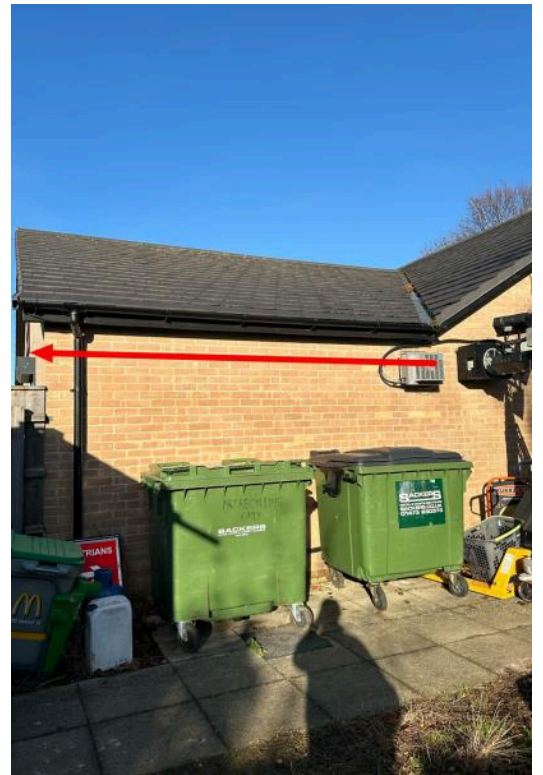
INSTALLATION AND COMPLETION

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.



+44 1202 985888



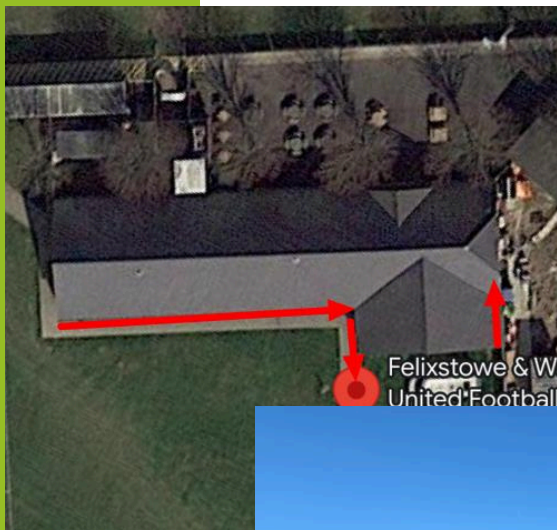
www.desrenewables.com



info@desrenewables.com

AT A GLANCE

- 66 x 585W Astronergy panels on a pitched clubhouse roof
- 38.61 kWp total system capacity
- Solax X3-ULT-30 30kW inverter with 40.9 kWh AC-coupled battery storage
- 22kW Solax EV charger installed on site
- Estimated 31,343 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 31,343 kWh of clean energy each year, saving an estimated 6.5 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 members, visitors 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).



Electrical Safety
Register



+44 1202 985888



www.desrenewables.com



info@desrenewables.com