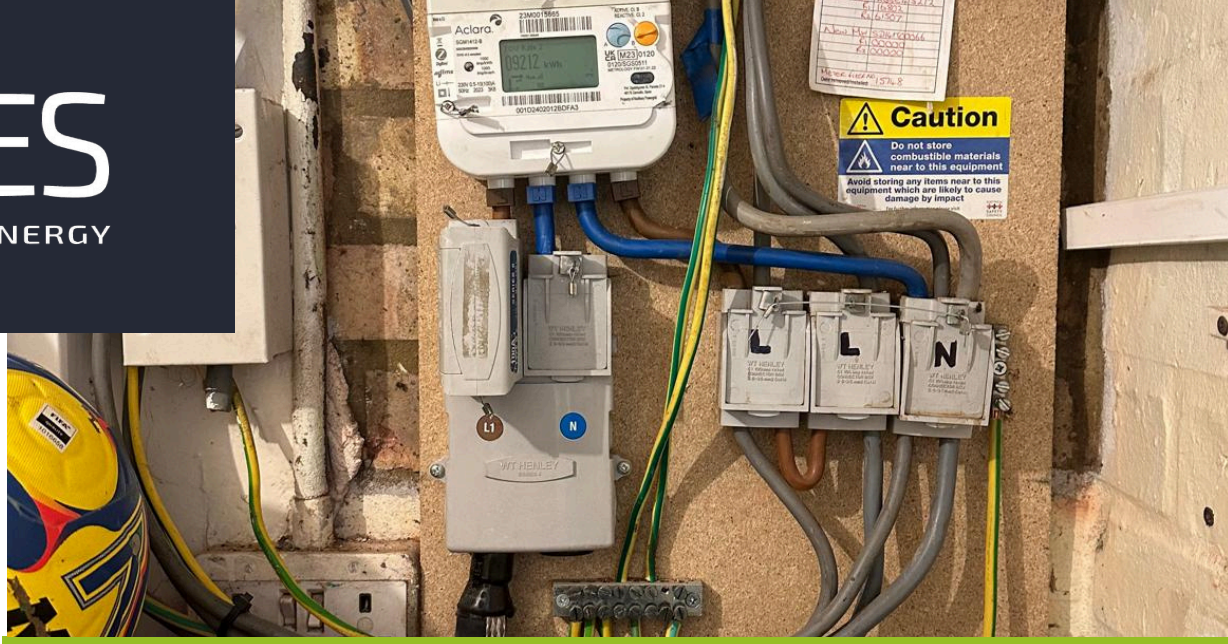
DES
RENEWABLE ENERGY



LEVERSTOCK GREEN FC CASE STUDY

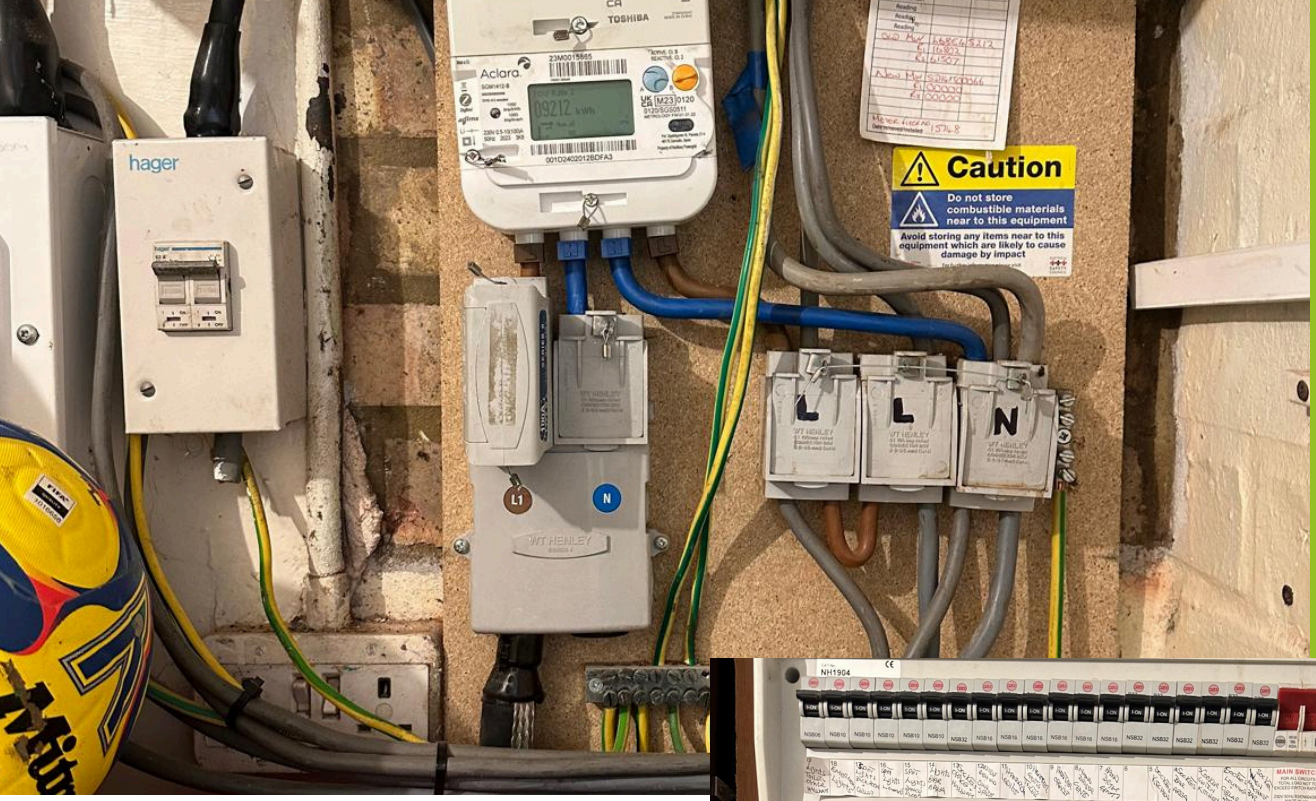
PROJECT OVERVIEW

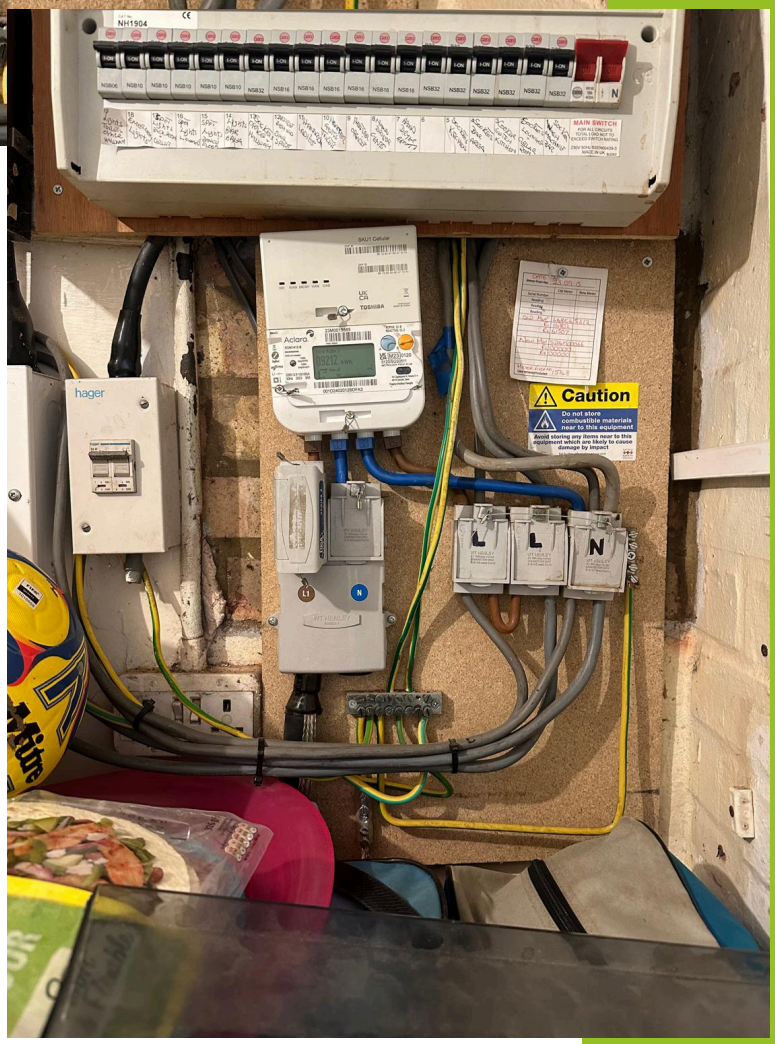
Leverstock Green FC is a community football club in Hemel Hempstead, Hertfordshire. To reduce the running costs of its clubhouse and facilities, the club partnered with DES Renewable Energy to install a rooftop solar PV system with battery storage that generates clean electricity onsite, lowers energy bills, and supports its long-term sustainability goals.

Leverstock Green FC commissioned DES Renewable Energy to install a 19.22 kWp solar PV system across its clubhouse roof. The installation comprised 31 x 620W ASTROnergy (Chint) panels connected to a Solax X1-VAST-10K hybrid inverter with 20.7 kWh of Solax battery storage. The project aimed to reduce electricity costs, lower carbon emissions, and enhance long-term financial sustainability.

PROJECT DETAILS

Company Name: Leverstock Green FC
Location: 40 Pancake Lane, Hemel Hempstead, HP2 4NQ
Solar System Capacity: 19.22 kWp
Estimated Annual Generation: 7,713 kWh
Installation Type: Pitched (concrete tile) roof solar panels with battery storage
Project Timeline: Delivered June 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

BESPOKE ASSESSMENT AND DESIGN

INITIAL ASSESSMENT

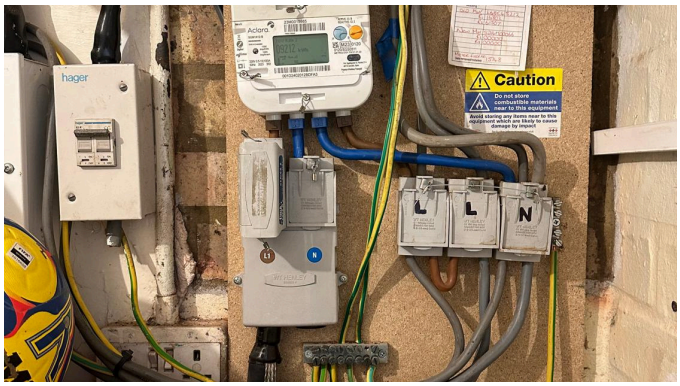
DES Renewable Energy conducted a comprehensive assessment of roof space, structural considerations, sun exposure, and interlocking constraints. This ensured optimal placement and system sizing to maximise energy production and long-term reliability.

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 31 x 620W ASTROnergy (Chint) panels across the concrete tile roof. Power conversion is handled by a Solax X1-VAST-10K hybrid inverter with 20.7 kWh of Solax battery storage to maximise self-consumption. The system integrates with the site's existing electrical infrastructure for efficient energy management.



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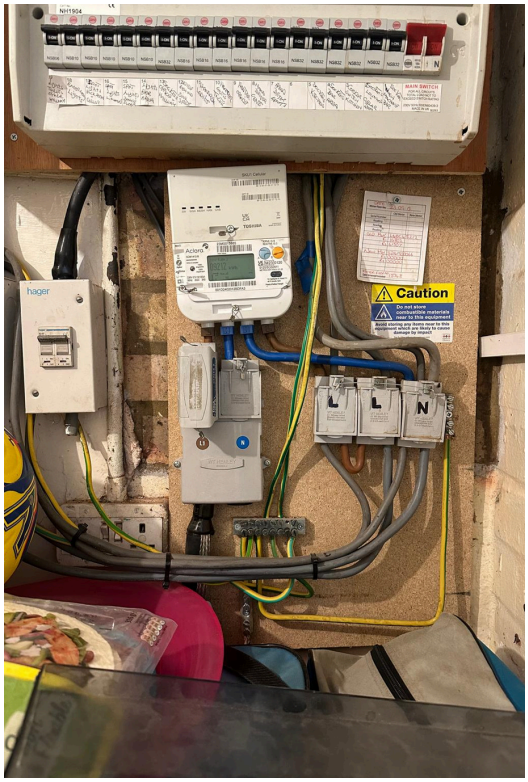
INSTALLATION AND COMPLETION

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.

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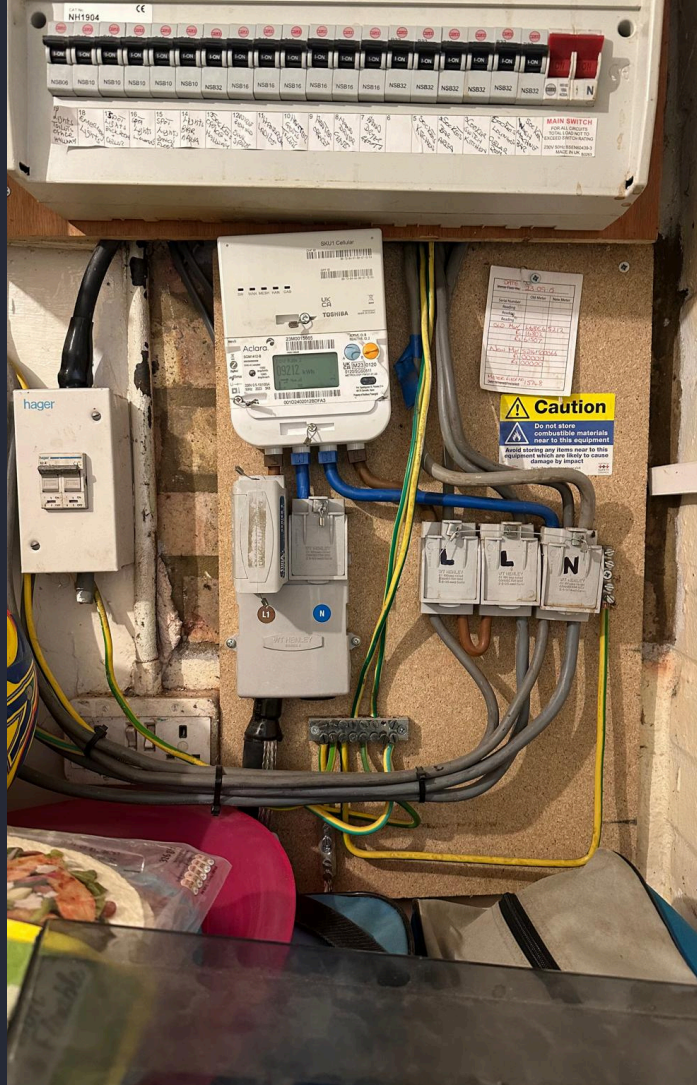
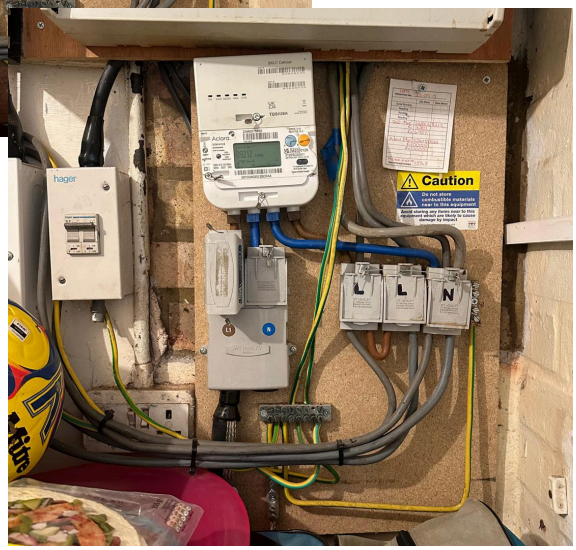
AT A GLANCE

- 31 x 620W ASTROnergy (Chint) panels on a pitched concrete tile roof
- 19.22 kWp total system capacity
- Solax X1-VAST-10K hybrid inverter with 20.7 kWh Solax battery storage
- 7,713 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 7,713 kWh of clean energy each year, saving an estimated 1.6 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 local community

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DES
RENEWABLE ENERGY

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).

MCS

RECC
RENEWABLE ENERGY CONSUMER CODE

NAPIT

iwa
DEPOSIT & GUARANTEE PROTECTION

City & Guilds

Electrical Safety Register

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