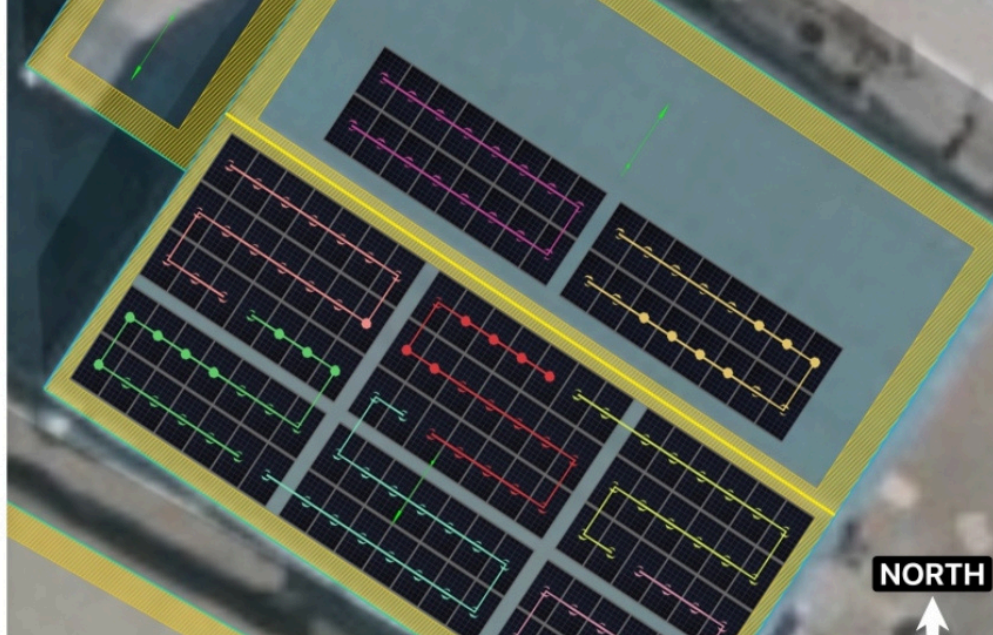




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WILSON GROUP CASE STUDY

PROJECT OVERVIEW

Wilson Group is a commercial group based in Mitcham, Greater London. To reduce its operating costs and strengthen its environmental credentials, it partnered with DES Renewable Energy to install a solar PV system with battery storage that generates clean electricity onsite, lowers energy bills, and supports its long-term sustainability goals.

Wilson Group commissioned DES Renewable Energy to install a 65.5 kWp solar PV system. The installation comprised 131 x 500W DMEGC panels connected to a Sigenergy 50kW inverter, paired with a 20kW Sigenergy battery. The project aimed to reduce electricity costs, lower carbon emissions, and enhance long-term financial sustainability.

PROJECT DETAILS

Company Name: Wilson Group
Location: 51 Willow Lane, Mitcham, CR4 4NA
Solar System Capacity: 65.5 kWp
Estimated Annual Generation: 62,225 kWh
Installation Type: Rooftop solar panels with battery storage
Project Timeline: Delivered 2026, from survey to commissioning



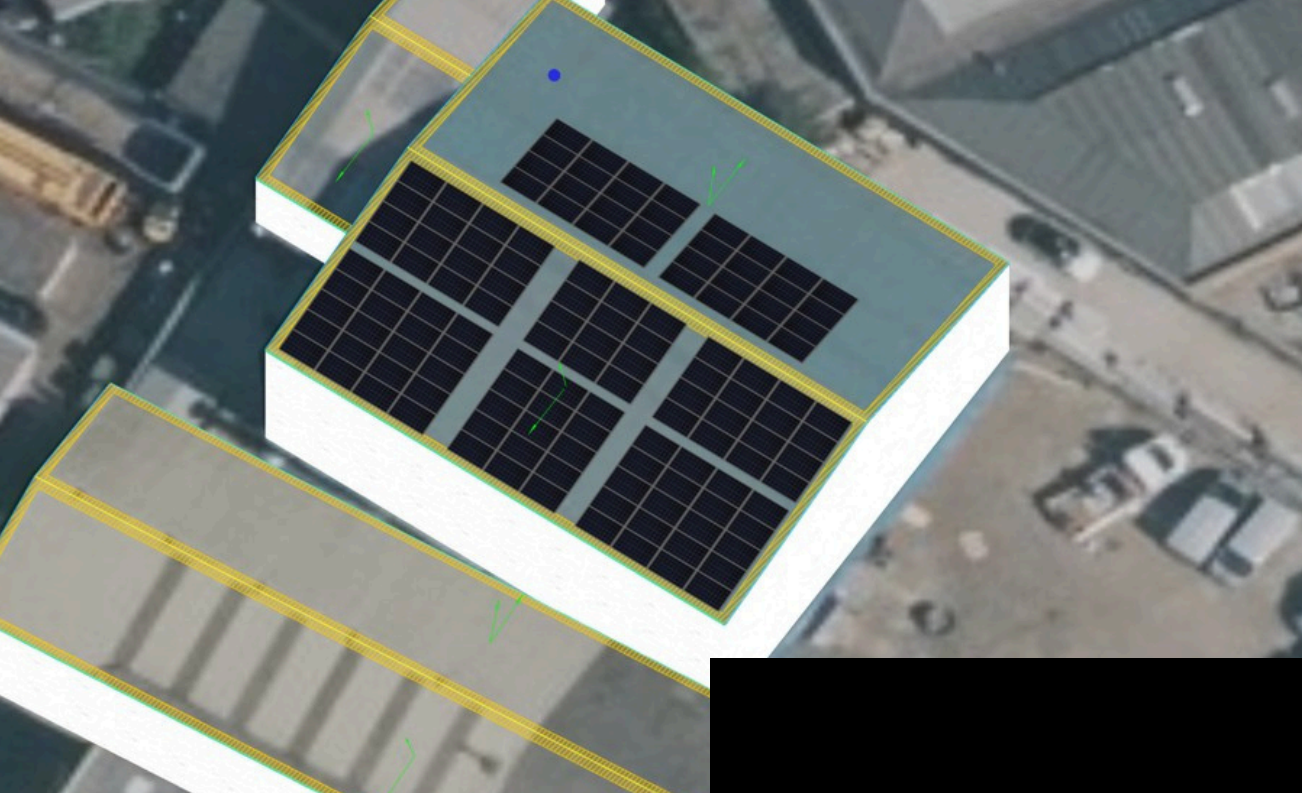
+44 1202 985888



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OBJECTIVES

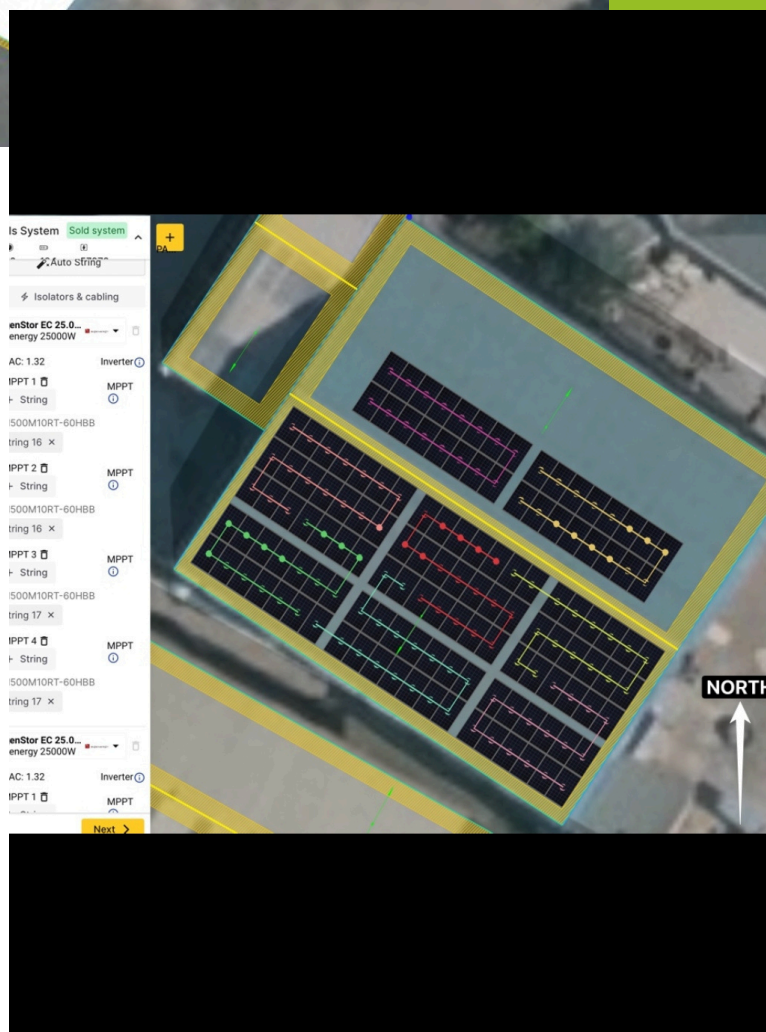
Reduce electricity costs

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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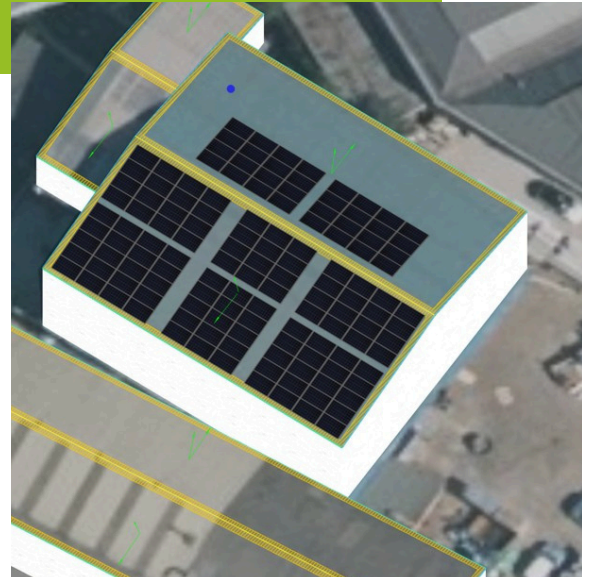
BESPOKE ASSESSMENT AND DESIGN

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.

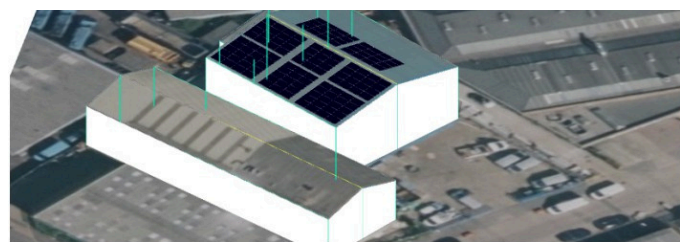
PERMITTING AND APPROVALS

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 131 x 500W DMEGC panels. Power conversion is handled by a Sigenergy 50kW inverter, paired with a 20kW Sigenergy battery to maximise self-consumption. The system integrates with the site's existing electrical infrastructure for efficient energy management.



Your Solution

Solar Panels
Hengdian Group DMEGC Magnetics
65.5 kW Total Module Power
131 x 500 Watt Panels (DM500M10BT404RR)

Sigen Energy Controller Three
Phase
50 kW of Inverter Power



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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.

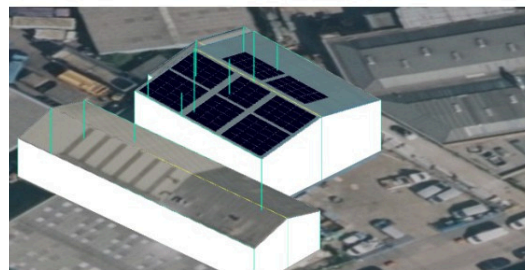
Recommended System Option

1.5 kW
em Size

£82,300
Total System Price
excluding VAT

£350,850
Estimated net savings
over system lifetime

58
Grid Index



Your Solution

inels
roup DMEGC Magnetics
al Module Power
latt Panels (DM500M10RT-60HBB)
per year

attery 6.0 and 10
f Battery Storage

or BAT 10.0
arranty



ENERGY

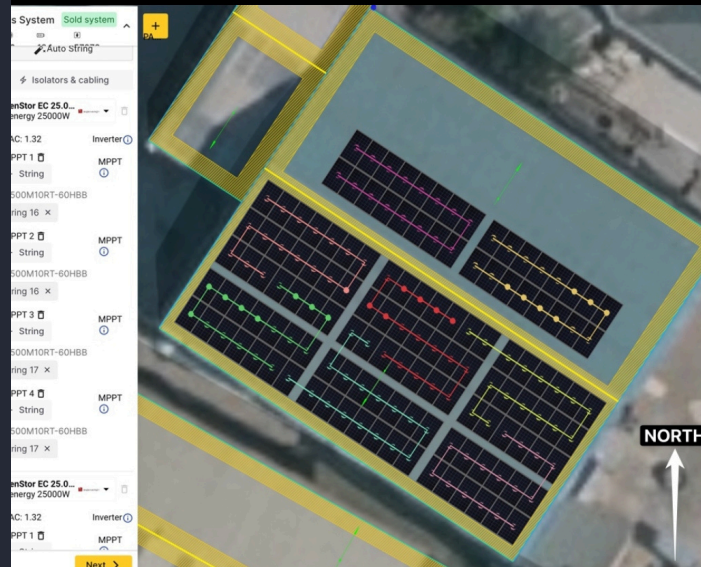
Sigen Energy Controller Three
Phase
50 kW of Inverter Power
Sigenenergy
2 x SigenStor EC 25.0TP
10.0 Year Warranty

SIGENERGY



AT A GLANCE

- 131 x 500W DMEGC panels
- 65.5 kWp total system capacity
- a Sigenergy 50kW inverter with a 20kW Sigenergy battery
- 62,225 kWh of clean energy generated per year
- Reduced electricity costs and carbon footprint



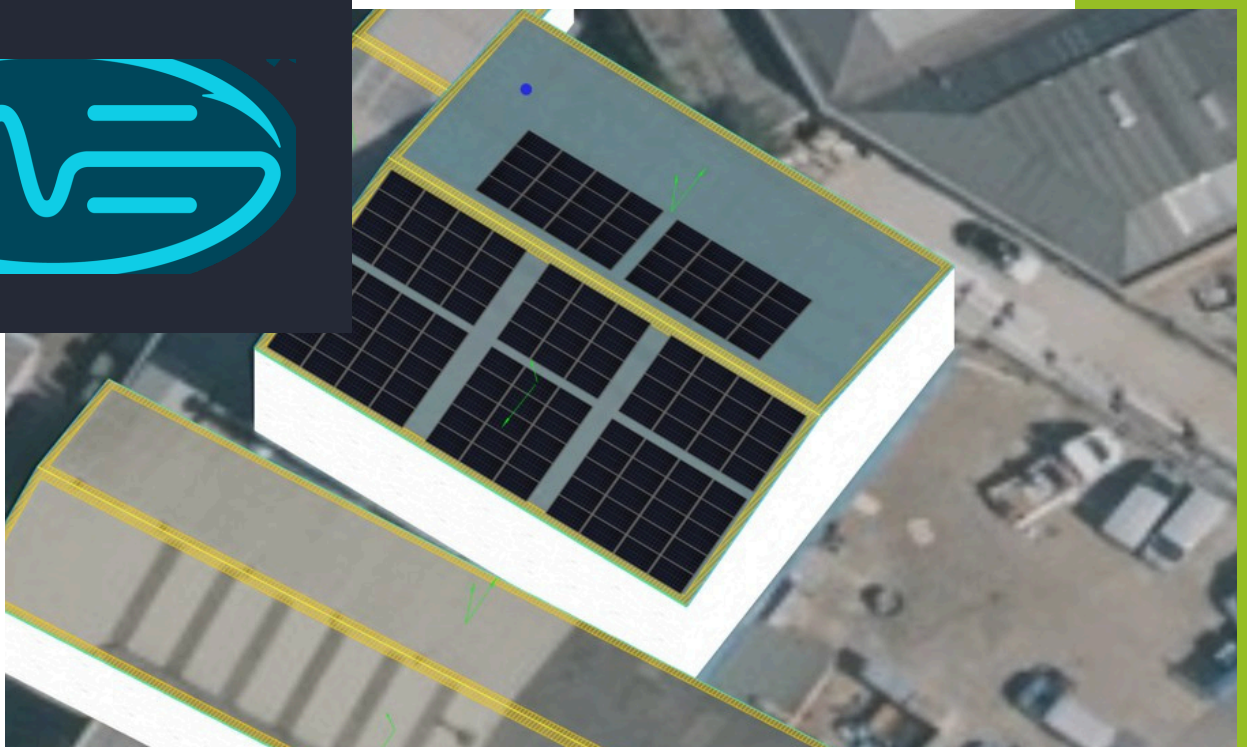
BENEFITS

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

Environmental Impact: Around 62,225 kWh of clean energy each year, saving an estimated 12.9 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 customers, staff and stakeholders



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