DES
RENEWABLE ENERGY

Cherry Blossom
PETERBOROUGH
An Allegra Care Home

CHERRY BLOSSOM CARE HOME CASE STUDY

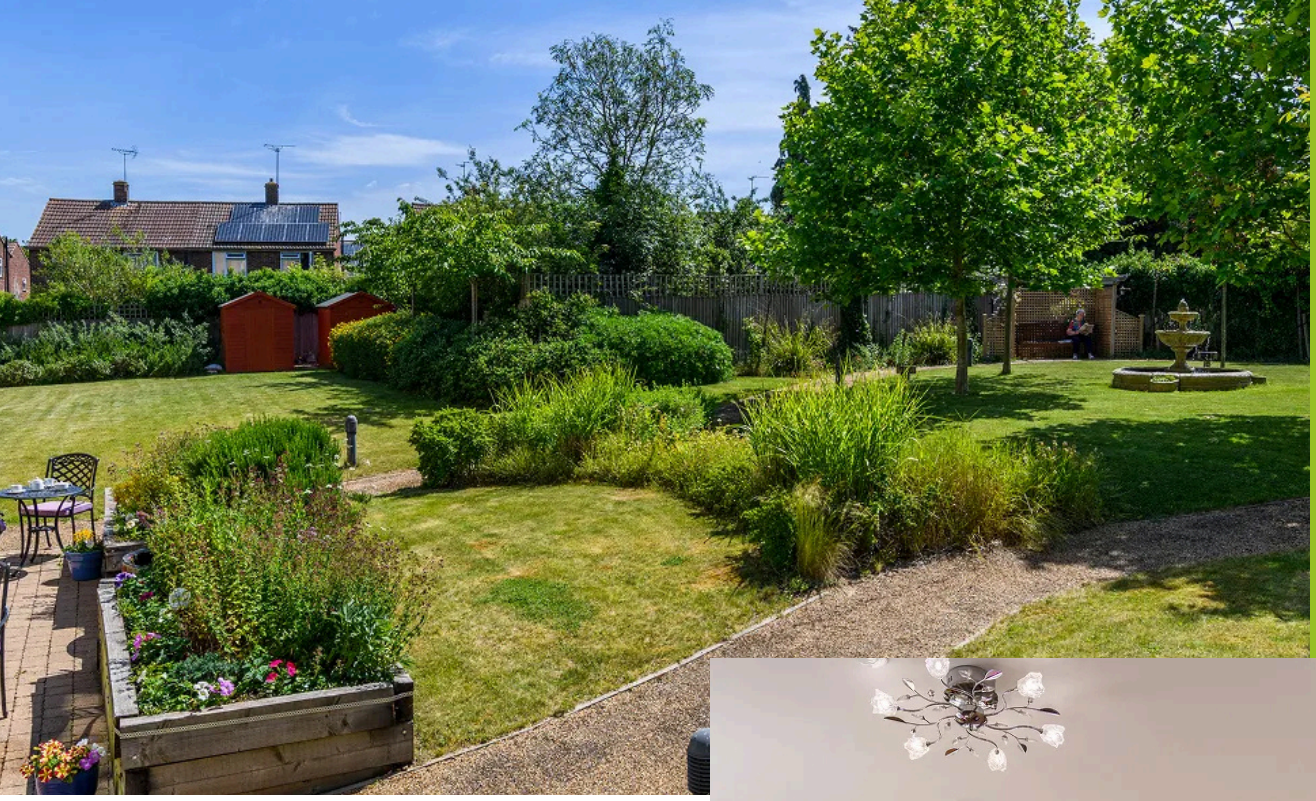
PROJECT OVERVIEW

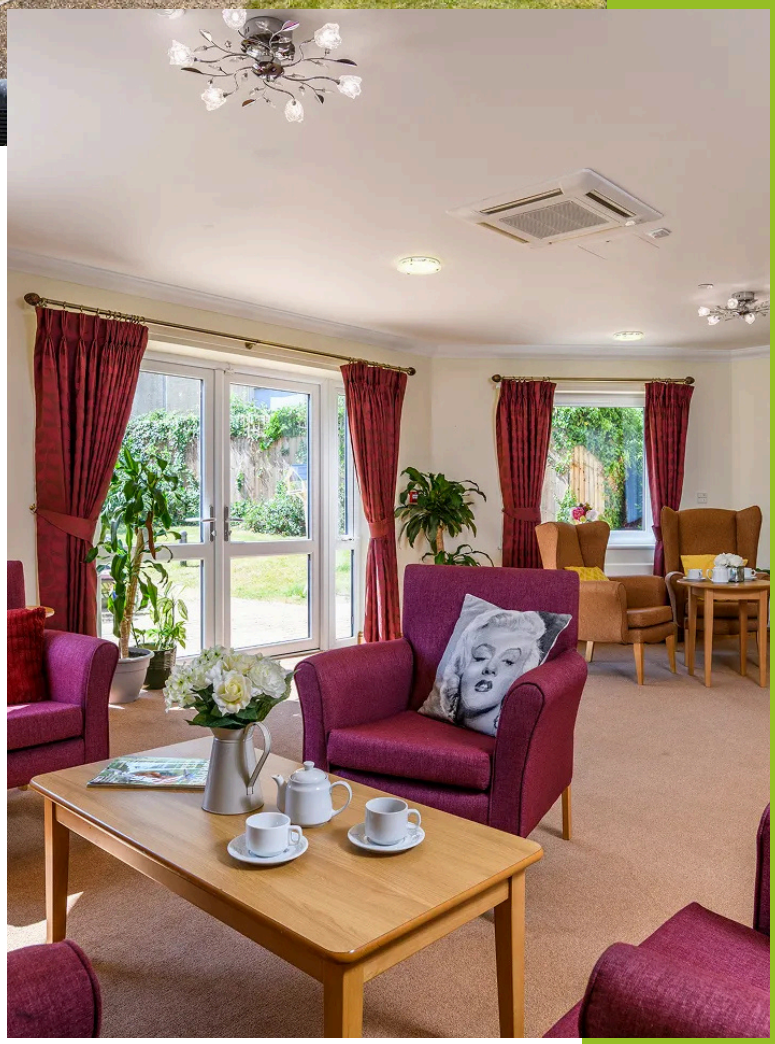
Cherry Blossom Care Home is a care home in Peterborough, part of Allegra Care. To reduce the running costs of the home and support its environmental goals, it partnered with DES Renewable Energy to install a rooftop solar PV system that generates clean electricity onsite, lowers energy bills, and supports its long-term sustainability goals.

Cherry Blossom Care Home commissioned DES Renewable Energy to install a 66.42 kWp solar PV system across its roof. The installation comprised 162 x 410W Hyundai panels connected to a SolaX X3-MEGA G2 60 kW inverter. The project aimed to reduce electricity costs, lower carbon emissions, and enhance long-term financial sustainability.

PROJECT DETAILS

Company Name: Cherry Blossom Care Home (Allegra Care)
Location: Warwick Road, Peterborough, PE4 6DE
Solar System Capacity: 66.42 kWp
Estimated Annual Generation: 57,994 kWh
Installation Type: Flat roof solar panels
Project Timeline: Delivered 2024-2026, 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 residents, staff and visitors

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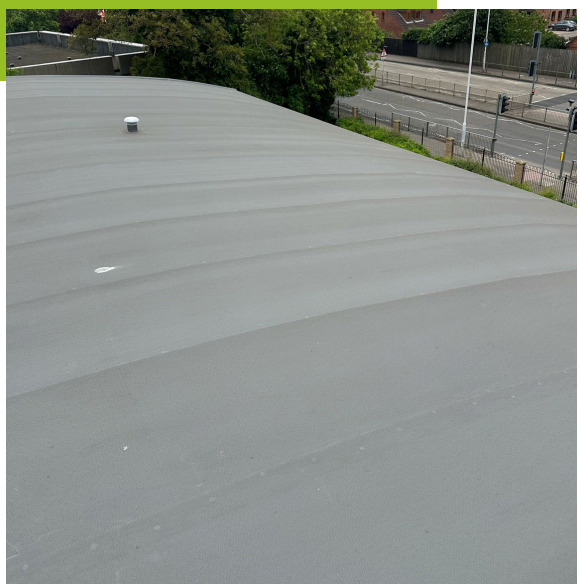
BESPOKE ASSESSMENT AND DESIGN



INITIAL ASSESSMENT

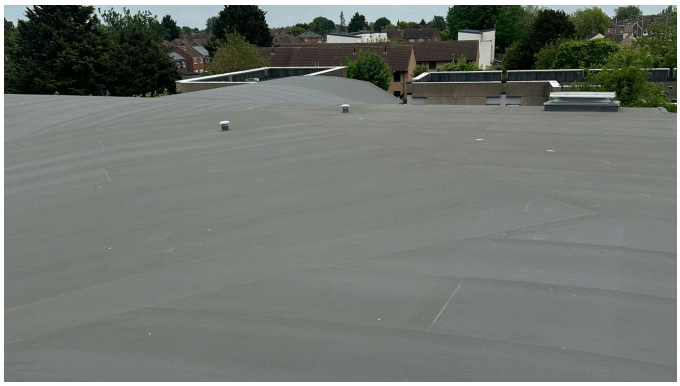
DES Renewable Energy conducted a comprehensive assessment of roof space, structural considerations, sun exposure, and interlocking constraints. This ensured optimal placement and system sizing to maximise energy production and long-term reliability.

SYSTEM DESIGN

The system was designed with 162 x 410W Hyundai panels across the roof. Power conversion is handled by a SolaX X3-MEGA G2 60 kW inverter. The system integrates with the home's existing electrical infrastructure for efficient energy management.

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.



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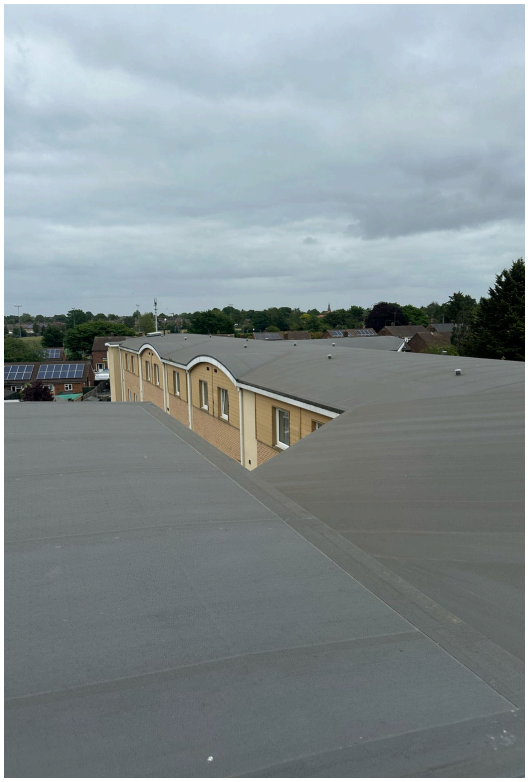
INSTALLATION AND COMPLETION

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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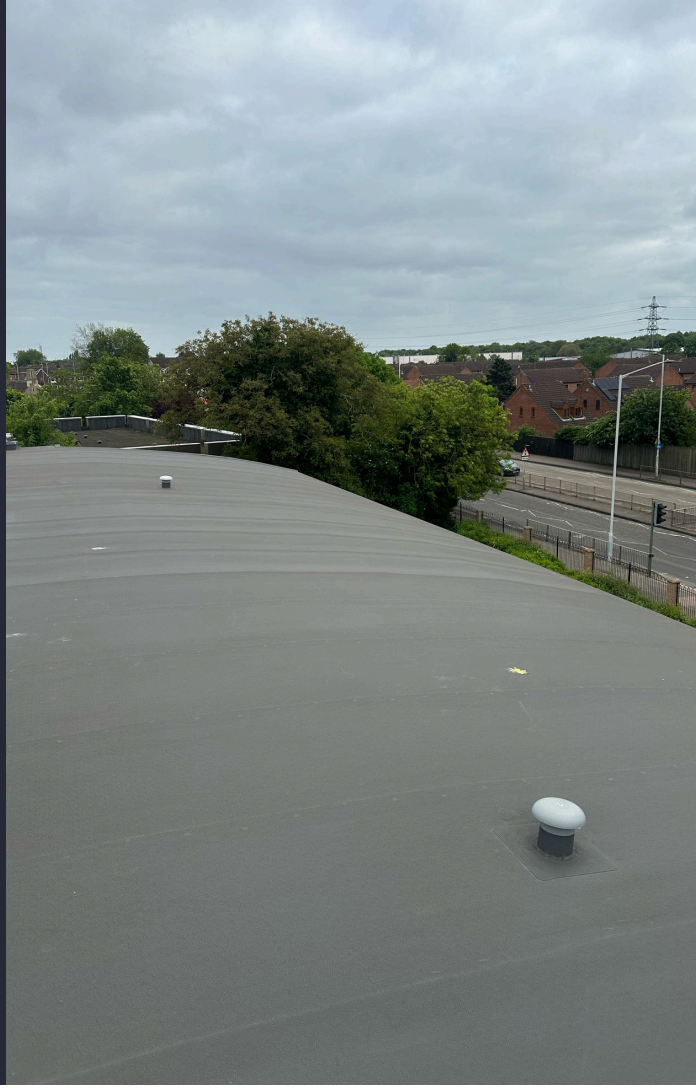
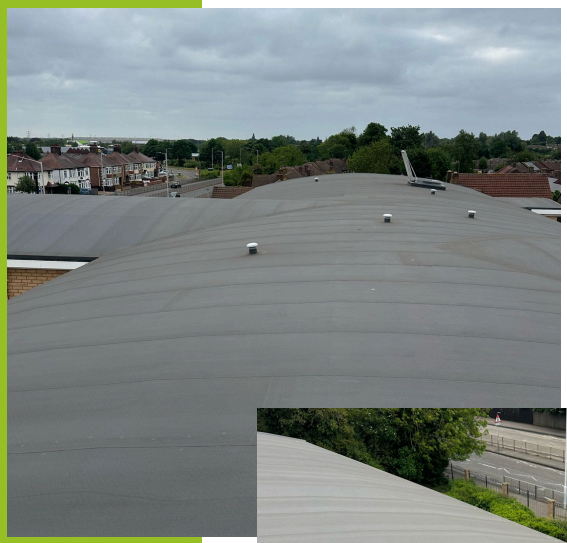
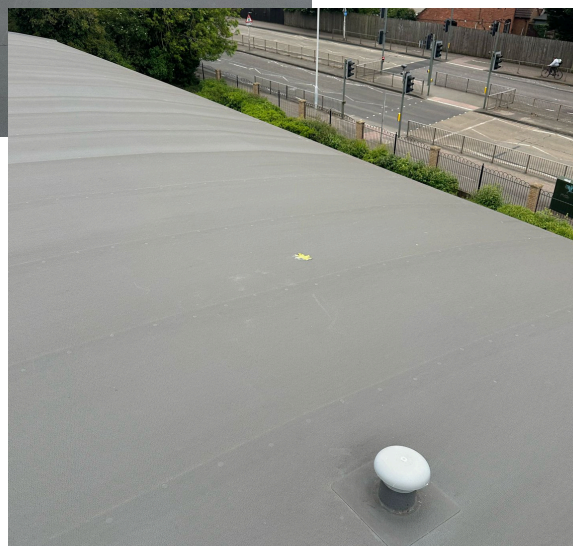
AT A GLANCE

- 162 x 410W Hyundai panels on the roof
- 66.42 kWp total system capacity
- SolaX X3-MEGA G2 60 kW inverter
- 57,994 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 57,994 kWh of clean energy each year, saving an estimated 12.0 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 residents, staff and visitors

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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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