



MAGDALEN HOUSE CARE HOME CASE STUDY

PROJECT OVERVIEW

Magdalen House Care Home is a care home in Ipswich, 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.

Magdalen House Care Home commissioned DES Renewable Energy to install a 38.13 kWp solar PV system across its roof. The installation comprised 93 x 410W Hyundai panels connected to a SolaX X3-PRO G2 30 kW inverter. The project aimed to reduce electricity costs, lower carbon emissions, and enhance long-term financial sustainability.

PROJECT DETAILS

Company Name: Magdalen House Care Home
(Allegra Care)

Location: Magdalen Road, Hadleigh, IP7 5AD

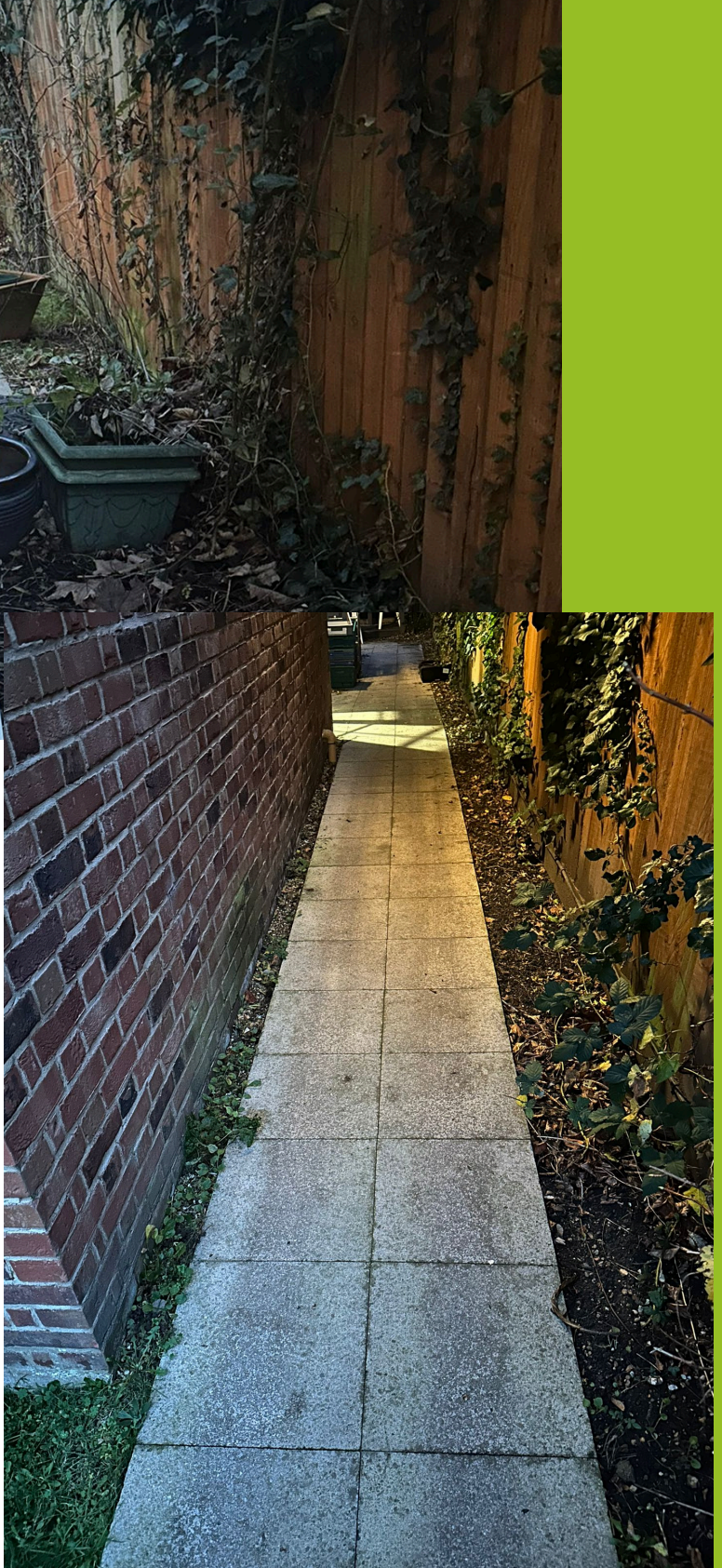
Solar System Capacity: 38.13 kWp

Estimated Annual Generation: 32,421 kWh

Installation Type: Pitched roof solar panels

Project Timeline: Delivered 2024-2025, 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 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.

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 93 x 410W Hyundai panels across the roof. Power conversion is handled by a SolaX X3-PRO G2 30 kW inverter. The system integrates with the home's existing electrical infrastructure for efficient energy management.

You will need to attend site to obtain a close quote



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

- 93 x 410W Hyundai panels on the roof
- 38.13 kWp total system capacity
- SolaX X3-PRO G2 30 kW inverter
- 32,421 kWh of clean energy generated per year
- Reduced electricity costs and carbon footprint



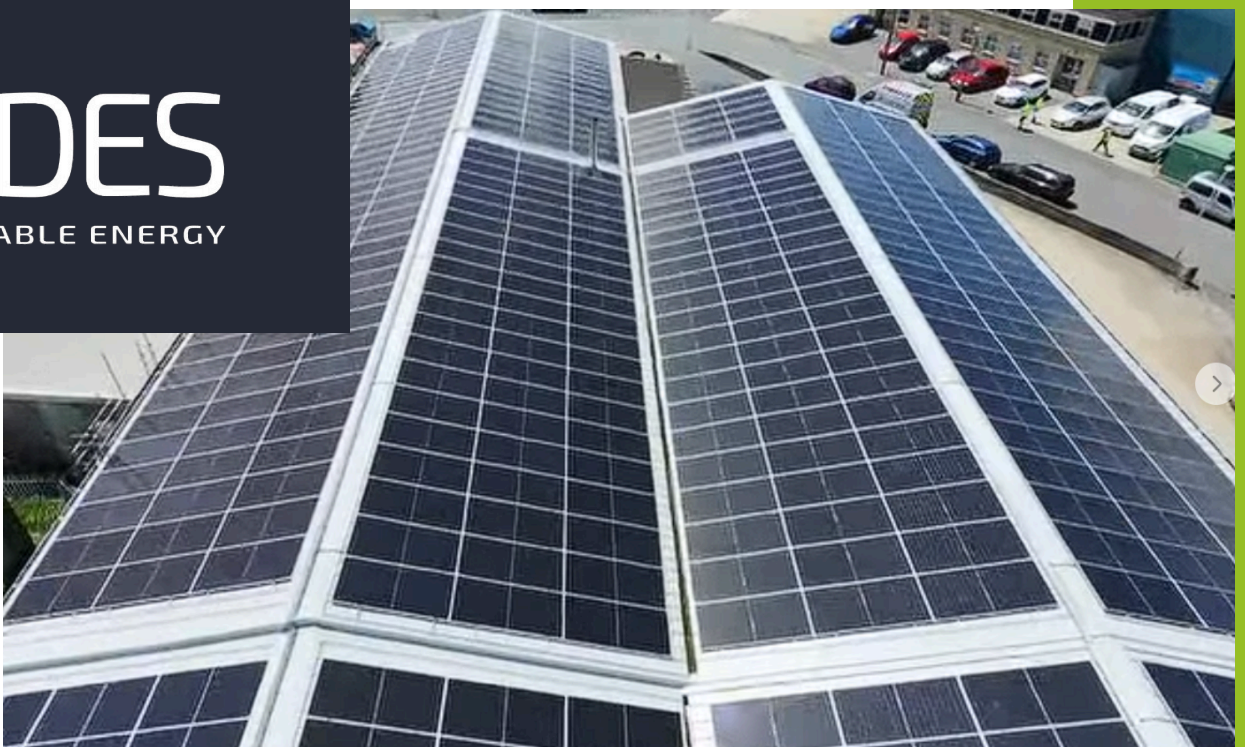
BENEFITS

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

Environmental Impact: Around 32,421 kWh of clean energy each year, saving an estimated 6.7 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



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