Greencore Homes

Greencore Homes specialises in creating climate-positive, low-carbon homes that lead the way in sustainable construction. At the heart of their innovation is the Biond panel, a cutting-edge closed timber frame system insulated with natural materials. By minimising the use of carbon-intensive materials such as cement, steel, and bricks, each superstructure they build absorbs more carbon than it emits.

Industry
Real Estate

Technology
Solar Photovoltaic

Location
Bicester, Oxfordshire

Overview

SOLAR PANELS INSTALLED
717

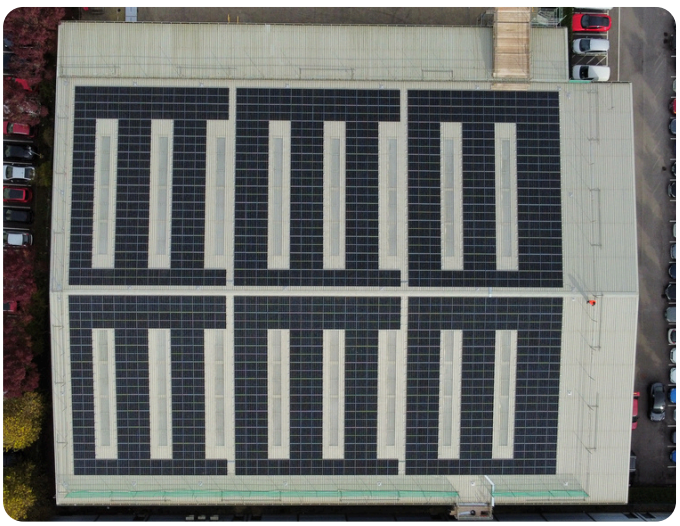
ANNUAL CO2 SAVINGS (TONNES)
50

SYSTEM SIZE (KWP)
301

PAYBACK (YEARS)
4

ANNUAL GENERATION (KWH)
259,090

FINANCIAL SAVINGS
£500k



The Motivation

Greencore Homes is dedicated to sustainability and reducing environmental impact. To further their commitment, they set a clear goal of lowering carbon emissions and cutting energy costs at their Bicester factory by generating their own renewable energy. As part of their commitment to sustainability, Greencore Homes set a clear goal: reduce carbon emissions and cut energy costs at their factory in Bicester by generating renewable energy onsite.

The Ineco Solution

Collaborative Effort
Working with SNRG, Ineco Energy, and their landlord, London Metric Property PLC (LMP), Greencore Homes overcame both logistical and financial hurdles.
SNRG provided funding for the solar PV system, meaning Greencore avoided upfront costs. In return, SNRG supplies the energy generated by the system to Greencore at a reduced rate, delivering both financial and environmental benefits.

Solar & Storage Solution
Ineco Energy designed and installed a bespoke solar PV system to meet the specific needs of Greencore's factory and office. The installation includes:

- 717 solar panels spanning 715 square meters of roof space.
- A 301 kWp solar PV system designed to maximise energy generation.
- Two battery storage units to store surplus energy for night time use or for exporting back to the grid.

Overcoming Grid Challenges
Despite obstacles like local grid restrictions, roof remedial works and installing solar panels on a leased property, the project succeeded. For instance, the Distribution Network Operator (DNO) set a 137 kW export limit, which could have capped the system's output. However, the design accounted for these constraints to ensure optimal energy efficiency.

The Benefits

The project delivers significant environmental and financial advantages, including:

- Reduced carbon footprint.
- Lower energy costs.
- Energy independence.
- Collaborative success.

By combining innovation with collaboration, Greencore Homes has taken another step toward its vision of a sustainable future

> We are pleased to have played our part, working in collaboration with Greencore Homes, London Metric Property PLC & SNRG to deliver a more sustainable future."

Angus Rose, Director, Ineco Energy