

CASE STUDY

Multi-tenanted office building

Southampton • Hampshire • South-East England

BUILDING

Located within Southampton Science Park, Benham 5 is a multi-tenanted office building with a total internal space of over 600 sq m. (6500 sq ft.) and a Kingspan trapezoidal roof. The main energy consumption occurs during working hours, primarily for office appliances and laboratory equipment.

SOLUTION

Absolar identified the building as suitable for solar as part of a wider portfolio remote solar assessment, showing high feasibility to install rooftop solar panels with positive environmental impacts and financial returns, with an estimated payback period of less than 5 years.

In this project, Absolar chose the latest solar panels by JA Solar, each having a peak power output of 410W. The connection of solar arrays takes into account the building's multiple orientations and roof structure, in order to achieve the highest overall efficiency.

BENEFITS

- 1. Energy cost saving** — The installed solar system is projected to save up to 80% of the building's energy consumption, bringing an estimated payback period of less than 4 years.
- 2. Energy monitor & low maintenance** — As part of the installation, Absolar has installed energy monitoring for Benham 5, whereby electricity production data can be viewed by building visitors in a custom branded dashboard.
- 3. Carbon footprint reduction** — The installed system is projected to save Benham 5 over 5 Tonnes of CO₂ per year for over 20 years.



AT A GLANCE

- 60 kWp Solar System
- 180 Solar panels
- Installed: Sep 2023
- Energy saving: 50,000 kWh / year
- CO₂ saving: 5 Tonnes / year
- Custom branded dashboard



Stuart Perry

Options Director

"We at the Southampton Science Park have ambitious sustainability target, and Absolar's work has supported our work towards this goal. Up to 2025, we have 9 buildings powered by solar systems provided by Absolar. And from the first project to the latest, their work has been professional, efficient, and great value for money. We would highly recommend their service to any business."



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