



BECKENHAM CARE HOME CASE STUDY



✔ Client	✔ Sector	✔ Technology	✔ System Size
Beckenham Care Home	Care Home	Solar PV	89.25kwp
✔ Estimated Annual Output	✔ Payback Period	✔ 25 Year Net Profit	✔ Annual Carbon Savings
41.40 MWh	4 Years	£ 374,415	389 T

Beckenham Care Home in London partnered with [Excel Energy](#) to install an 89.25 kWp commercial solar PV system aimed at reducing energy costs and supporting environmental goals. The project involved high-quality solar modules, SolarEdge inverters and associated mounting and monitoring equipment supplied with long-term warranties.

The solar array is estimated to generate 195.86 MWh of clean electricity annually, helping to cut reliance on grid power. With a payback period of 4 years, the installation supports ongoing operational savings. Over its lifetime, the system is projected to deliver a 25-year net profit of £238,690 and achieve annual carbon savings of 98.07 tonnes of CO₂, contributing to the care home's sustainability commitments. This project highlights how commercial solar installations can generate measurable energy, financial, and environmental benefits for mission-driven organizations.

[Learn More](#)

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