CASTLE FARM CASE STUDY

Client	Sector	Technology	System Size
Castle Farm	Farming	Solar PV	75 kwp PV & BESS
Estimated Annual Output	**Payback Period**	**25 Year Net Profit**	**Annual Carbon Savings**
68.62MWh	4.9 Years	£ 355,554.61	775 T

Castle Farm in Nuneaton partnered with Excel Energy to install a 75 kWp solar PV system with battery storage (BESS) to increase on-site renewable generation, reduce reliance on grid electricity and lower operating energy costs. The installation included solar panels, battery storage components, inverters, and monitoring equipment, all backed by long-term warranties.

The system is estimated to generate 68.62 MWh of clean electricity annually, helping the farm manage its significant energy demands more efficiently. It has an expected payback period of 4.9 years and is projected to deliver a 25-year net profit of £355,554.61. Over its lifetime, the installation is forecast to achieve annual carbon savings of 775 tonnes of CO_2.

This project highlights how combining solar generation with battery storage can provide substantial energy, financial and environmental benefits for agricultural operations.

Learn More

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