

STOWFORD MANOR FARM CASE STUDY



✔ Client	✔ Sector	✔ Technology	✔ System Size
Stowford Manor Farm	Agriculture	Solar PV	135kWp
✔ Estimated Annual Output	✔ Payback Period	✔ Return On Investment	✔ Annual Carbon Savings
131.49 MWh	4.9 Years	26.5%	29.07T

Stowford Manor Farm in Devon installed a 135 kWp solar PV system across its farm buildings and barns with support from [Excel Energy](#) to reduce energy costs, improve efficiency, and demonstrate environmental responsibility. The installation included solar panels and 78 kWh of battery storage to better match energy production with demand.

The system is estimated to generate 131.49 MWh of clean electricity annually, significantly reducing reliance on grid power. It has a payback period of 4.9 years and offers a 26.5 % return on investment. The installation also provides annual carbon savings of 29.07 tonnes of CO₂.

This project showcases how combining solar PV with energy storage on farm buildings can deliver measurable energy generation, financial benefits, and carbon reduction while supporting agricultural and community activities.

Learn More

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