

The Oaks Poultry Farm, Sussex

Solar Case Study

From Vision to Reality

PDP Services partnered with Oaks Poultry Farm in Ditchling to deliver a high-performance solar energy solution tailored to the farm's operational needs. The installation has significantly reduced electricity costs, improved energy independence, and lowered carbon emissions – saving around 18 tonnes of CO₂ annually. This is the third solar panel system PDP Services has installed at the Oaks Poultry Farm.



Objectives

Return on Investment (ROI)

Achieve full payback in under three years, with long-term savings reinvested into farm operations.

Carbon Footprint Reduction

Cut CO₂ emissions by approximately 18 tonnes annually, supporting environmental goals.

Grid Independence

Reduce reliance on grid electricity and protect against rising energy costs.

Solution

A Bespoke Solar Panel System consisting of:

- System Size: 57.5 kWp solar PV system
- Panels: 92 Aiko Comet 625W high-efficiency modules
- Inverter: 50 kW Solis inverter
- Installation: Trapezoidal barn roofs
- Monitoring: Ongoing performance tracking and energy management

BENEFITS

Powerful Generation

This third solar panel system at the farm will produce approximately 52,400 kWh of clean electricity annually, covering over a third of the farm's total energy needs.

Smart Energy Use

Around 68% of generated electricity is consumed directly on-site, providing 34% grid independence and ensuring minimal energy waste.

Sustainability & Returns

Full payback expected in under 3 years. The farm benefits from strong financial returns & long-term energy resilience.



- Annual Generation: 52,400 kWh
- Grid Import Reduction: 34%
- Payback: Under 3 years
- Estimated Annual CO₂ Savings: 18,000 kg (18 tonnes)

Conclusion

PDP Services delivered a solution that meets Oaks Poultry Farm's energy and sustainability goals. **The system has reduced energy costs, increased energy independence, and cut carbon emissions—showing how renewables can empower agricultural businesses to thrive sustainably.**

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