



Large Scale Solar PV Install for Environair

Situation

Barrington Solar partnered with Environair to design and deliver a large-scale solar PV system to significantly cut energy costs and carbon emissions at their Ludham Business Park facility.

Services provided



Site visit and assessment



Detailed technical design of solar system



Civil designs



Full supply, installation & commissioning



Grid connection and witness testing



Full handover and ongoing monitoring

Solution



Solar panels - 264 x 455W bifacial N-type solar panels. A 120.12 kWp solar array.



Inverters - 2 x 25kW three-phase hybrid inverters & 1 x 50kW three-phase string inverter.



Battery Storage - Integrated 111.8 kWh modular battery system enable Environair to store surplus energy during the day.



Load Shifting - Stored energy can be used overnight, achieving an estimated 50% reduction in grid dependence.

Impact



Cost Savings & Revenue

The Environair system is expected to deliver first-year savings of £19,575, with a projected internal rate of return (IRR) of 24%. The investment is forecast to achieve payback within 3-4 years.



Sustainability

The business now produces and controls much of its own clean electricity – a major step toward long-term sustainability. The system is expected to generate approximately 106,378 kWh of energy annually.

Feedback



I was thoroughly impressed with the work completed by Barrington Solar. Operating over active industrial units, the team were extremely flexibility when accommodating ongoing business operations. The team consistently went above and beyond to keep us informed of progress and promptly addressed any issues that arose. I would highly recommend Barrington Solar to anyone seeking a high-quality, hassle-free installation. - Mr M Jermy



Barrington Solar

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