



CASE STUDY

CARLTON
ACADEMY TRUST

Installed in

**6
Weeks**

Annual
reduction of

**160
Tonnes**
of CO₂ emissions

£1.5m

Savings p.a in
electricity costs

**817
kWp**

Array output

Carlton Academy Trust (CAT) were seeking a way to significantly cut long-term energy costs and accelerate their progress towards net zero ahead of the UK's 2050 target. With multiple schools across the Trust, they required a solution that would deliver meaningful carbon savings while avoiding upfront capital costs.

Shawton Energy developed and delivered a 25 year portfolio PPA covering 7 sites, totalling 817 kWp. The project was fully developed in-house and received Department for Education (DfE) consent, setting a benchmark for how the public sector can utilise PPAs to meet decarbonisation goals.

THE PROCESS

During the Summer 2025 break, Shawton Energy successfully completed the installation of 313kWp of Solar PV across six of Carlton Academy Trusts sites. This project was delivered efficiently and on schedule, allowing for a smooth rollout, with minimal disruption to both staff and students. The installations were planned to coincide with the school holidays, ensuring that regular school activities were unaffected.

As a result, the school has been able to take significant steps towards reducing its carbon footprint as well as lowering energy costs.

THE RESULT

The project will deliver significant cost and carbon savings across their estate. Combined, the systems generate 800,918kWh of renewable energy each year, resulting in an annual reduction of approximately 160,354 kg of CO₂ emissions.

Over a 25 year period, the systems combined are projected to deliver savings of approximately £1.5 million. With no up-front cost to Carlton Academy Trust through Shawton Energy's PPA model.



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