CASE STUDY — Large Commercial Facility (U.K.)

17.3% verified whole-site electricity reduction

377,355 kWh saved a year · £67,924 annual saving · 3.9-month payback

INTRODUCTION

A large U.K. commercial facility with a heavy, continuous electrical load — drawing almost 6,000 kWh a day — was looking to cut its electricity cost without any disruption to operations or changes to equipment.

The patented enPact FilterPro electrical power alignment device was installed at the site's incoming supply. Its impact was measured by comparing daily consumption with FilterPro running in 2025 against the equivalent period in 2024.

SOLUTION

Patented enPact FilterPro — electrical power alignment

The patented enPact FilterPro device was installed at the incomer, aligning the electrical supply to cut wasted consumption across motors, HVAC, plant and general loads.

The retrofit required no change to equipment or the way the site runs, and delivered immediate, measurable reductions.

CHALLENGE

- Large, continuous electrical load (almost 6,000 kWh/day)
- Rising electricity costs across the operation
- No tolerance for disruption to operations
- No changes to plant or equipment
- A need for clear, measured proof of saving and payback

Results

17.3% WHOLE-SITE REDUCTION

Measured against the equivalent period in 2024.

377,355 kWh SAVED A YEAR

Around 78 tonnes of CO_2 a year.

£67,924 ANNUAL SAVING

About £5,660 a month at £0.18/kWh.

3.9-MONTH PAYBACK

Well inside the 9.2 months quoted.

Metric	Quoted	Achieved
% Savings	7%	**17.3%**
Annual kWh Saved	160,419	**377,355**
Annual Financial Savings	£28,875	**£67,924**
Payback	9.2 months	**3.9 months**

Measured against the same period last year

With FilterPro running, the site used 4,948 kWh a day against 5,982 kWh in the equivalent period of 2024 — a saving of 1,034 kWh a day, or 17.3% across the whole site, well ahead of the 7% quoted.

CONCLUSION

The patented enPact FilterPro delivered a measured 17.3% whole-site reduction at this commercial facility — 377,355 kWh and £67,924 a year — comfortably ahead of both the quoted 7% saving and the quoted payback.

Achieved with no operational disruption and a payback under four months, the result gives a clear, data-backed basis for wider rollout across the group's sites.

HOW THE SAVING WAS MEASURED

- Metered daily consumption with FilterPro running in 2025
- Compared against the equivalent period in 2024
- Expressed across the whole site, covering all electrical loads
- Annualised to give the projected yearly saving and payback

Interested in achieving similar savings across your estate?

Get in touch to discuss validated energy-reduction opportunities and multi-site rollout potential.

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