

CASE STUDY — National Fitness Chain (UK)

12.85% validated energy reduction | £2,449 annual savings | 13.8 month payback

INTRODUCTION

A leading national fitness operator partnered with enPact to reduce electrical energy consumption at one of its health and fitness facilities. The objective was to validate the performance of enPact FilterPro in a live operational environment, lowering energy costs without impacting member experience or day-to-day operations. Following installation, energy consumption was monitored over several months and compared against a validated baseline to quantify the technology's performance.

SOLUTION

Patented enPact FilterPro Technology
The site implemented enPact FilterPro to optimise electrical efficiency across the facility by reducing unnecessary energy consumption and improving the performance of connected electrical equipment.

FilterPro improves energy efficiency by:

- Reducing electrical losses across connected loads
- Lowering overall site electricity consumption
- Improving operational efficiency without affecting equipment performance
- Delivering measurable energy and financial savings
- Providing a simple retrofit solution with no disruption to normal operations

Because the technology operates at the electrical supply level, savings are delivered continuously across the site's connected equipment.

CHALLENGE

- High daily electricity demand from HVAC, lighting and fitness equipment
- Long operating hours with consistent electrical load throughout the day
- Rising operational energy costs
- Requirement to reduce energy consumption without affecting customer experience
- Need to validate savings before considering wider estate deployment

RESULTS:

- Whole-Site Daily Savings**
- **12.85% validated reduction in electricity consumption**
 - **Average daily consumption reduced from 237.41 kWh to 206.91 kWh**
 - **30.50 kWh saved every day**
 - **11,133.71 kWh projected annual energy savings**
 - **£2,449.42 projected annual financial savings**

- Operational Performance**
- **Consistent reductions achieved across weekday and weekend operation**
 - **Savings maintained over multiple months of monitoring**
 - **No disruption to normal site operations or customer experience**
 - **Demonstrated sustained performance throughout the validation period**

Metric	Result
Technology	enPact FilterPro
Validated Reduction	12.85%
Average Daily Energy Saved	30.50 kWh/day
Annual Energy Savings (Projected)	11,133.71 kWh
Annual Financial Savings (Projected)	£2,449.42
Achieved Payback	13.80 Months

CONCLUSION

The deployment of enPact FilterPro at this national fitness facility successfully demonstrated a 12.85% reduction in electricity consumption, validating the technology's ability to reduce operational energy demand without affecting day-to-day operations. The project delivered 11,133.71 kWh of projected annual energy savings, £2,449.42 in annual cost savings, and an achieved payback period of just 13.8 months. The results provide a strong business case for expanding FilterPro across a wider portfolio of fitness and leisure facilities.

ESTATE-WIDE IMPACT PROJECTION

The pilot demonstrated that even a relatively low-energy facility can achieve meaningful reductions in electricity consumption through FilterPro optimisation. If replicated across a multi-site fitness estate, the validated 12.85% reduction has the potential to deliver:

- Significant estate-wide reductions in electricity consumption
- Lower operating costs across multiple facilities
- Reduced carbon emissions across the portfolio
- Consistent performance with minimal operational disruption
- A rapid return on investment, with the pilot achieving a 13.8-month payback

INTERESTED IN ACHIEVING SIMILAR SAVINGS ACROSS YOUR ESTATE?

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

