

CASE STUDY — National Pub & Bar Chain (U.K.)

10-site rollout of enPact FilterPro and enPact Refrigeration & Cooling

9.3% average energy reduction across the trial estate
222,050 kWh annual savings | ~£42,189 annual financial savings

INTRODUCTION

A leading U.K. pub and bar operator wanted to reduce electricity consumption across a group of sites with high refrigeration, kitchen and HVAC loads. Ten locations were selected for an initial rollout of enPact FilterPro (power alignment) and enPact Refrigeration & Cooling to prove performance before a wider programme across the estate. Annual consumption data for 2024 and 2025 was used to compare performance with and without the technology and to quantify the impact at each site.

SOLUTION

Each site deployed the patented **enPact FilterPro** and patented **enPact Refrigeration & Cooling** technologies to reduce electrical waste and improve refrigeration efficiency across key loads.

- **Patented FilterPro** improves power quality and alignment, reducing non-productive electrical load on motors, compressors and building circuits.
- **Patented Refrigeration & Cooling** enhances heat transfer, reduces compressor run-time and stabilises temperatures across refrigeration assets.

Because these patented technologies target different parts of the system, their benefits combine to deliver consistently deeper savings across the estate.

CHALLENGE

- High and rising electricity costs across a geographically dispersed estate
- Mixed building types and operating patterns, making performance hard to compare
- Significant refrigeration, kitchen and HVAC demand in every pub and bar
- Need for clear, site-level results and estate-level impact
- Requirement for a solution that could be installed with no disruption to trading

The operator needed a technology approach that would work consistently across different site profiles while delivering measurable, repeatable savings.

RESULTS: VERIFIED 10-SITE ESTATE PERFORMANCE

Whole-Portfolio Impact:
The combined deployment of enPact FilterPro and Refrigeration & Cooling across 10 locations delivered measurable and consistent reductions in electricity use across the entire pub and bar estate.

Key Outcomes

- Strongest savings achieved at sites with higher refrigeration and kitchen loads
- All 10 locations delivered positive reductions, demonstrating consistent performance
- Technology performed effectively across a mix of pubs, bars, and hotel-style venues
- Provides a proven model for wider rollout across the remaining estate

Metric	Result
Total Annual kWh Savings	222,050 kWh
Total Annual Financial Savings	~£42,189
Average Saving Across All Sites	9.30%
Highest Verified Saving	13.20%

CONCLUSION

The ten-site rollout of enPact FilterPro and Refrigeration & Cooling delivered a proven, measurable reduction in electricity use across a national pub and bar estate. With a portfolio-wide saving of over 222,000 kWh, an average reduction of 9.3%, and more than £42,000 saved annually, the technology has demonstrated strong and repeatable performance across multiple site types.

These results provide a clear business case for broader estate deployment, giving the operator a validated approach to lowering operating costs and reducing carbon emissions across its full portfolio.

1,500-SITE ESTATE PROJECTION

Rolling out patented enPact technologies across all locations would deliver:

- 33.3 million kWh saved annually
- £6.3 million yearly financial benefit
- 9.3% average reduction per site
- 6,200 tonnes of CO₂ removed every year

INTERESTED IN ACHIEVING SIMILAR SAVINGS ACROSS YOUR ESTATE?

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

✉ enquiries@emissis.com | 🌐 emissis.com | ☎ 01642 049024

