CASE STUDY — Drive-In Restaurant Chain (U.S.)

9.9% verified electricity reduction — beating the 7% guarantee and the 9% expected

20,653 kWh saved a year · $4,337 annual saving · ~19-month payback

INTRODUCTION

A U.S. drive-in restaurant site, managed under an energy-as-a-service program, wanted to cut the electricity cost of its kitchen, HVAC and refrigeration loads — with the saving de-risked by a written guarantee before committing.

It took a guaranteed-savings enPact FilterPro deployment: 7% guaranteed, 9% expected, and the result measured on site before it was confirmed. The patented enPact FilterPro electrical power alignment device was installed at the main incoming meter, and its impact measured by comparing consumption with the device switched OFF against the device switched ON.

SOLUTION

Patented enPact FilterPro — with a written savings guarantee

A single patented enPact FilterPro unit (100 kVA) was installed at the main incoming meter, aligning the electrical supply to cut wasted consumption across the site's kitchen, HVAC, refrigeration and general loads.

The saving was guaranteed in writing and backed by Emissis — with the payback restored if verified savings fell short — and measured to IPMVP Option C. No equipment replacement, no disruption to trading.

CHALLENGE

- Continuous kitchen, HVAC and refrigeration load
- Rising U.S. electricity costs across the operation
- A saving the operator wanted de-risked before committing
- No disruption to a busy drive-in
- Transparent, verified measurement — not an estimate

Results

9.9% VERIFIED REDUCTION

Measured OFF versus ON across the whole site.

BEAT BOTH TARGETS

Above the 7% guaranteed and the 9% expected.

20,653 kWh SAVED A YEAR

Worth $4,337 at the site's tariff — about 8 tons of CO_2e.

~19-MONTH PAYBACK

Well inside the 27 months guaranteed.

MEASURED RESULTS — FILTERPRO OFF vs ON	
Average consumption, FilterPro OFF	574 kWh/day
Average consumption, FilterPro ON	517 kWh/day
Saving	57 kWh/day · 9.9%
Annual energy saved	20,653 kWh
Annual financial saving	$4,337
vs 7% guaranteed / 9% expected	Exceeded both

Guaranteed, expected, then delivered

The saving was guaranteed at 7% in writing and backed by Emissis, with 9% the expected result. Measured on site by switching FilterPro off and on, the deployment delivered 9.9% — ahead of both the guarantee and the expected figure. The kWh saving is the operative measure; the dollar value follows the site's tariff.

CONCLUSION

At a high-demand drive-in restaurant, the patented enPact FilterPro delivered a verified 9.9% whole-site reduction — 20,653 kWh and $4,337 a year — beating both the 7% written guarantee and the 9% expected result, with a payback inside 19 months.

With the saving guaranteed, measured and de-risked, the deployment gives a clear, low-risk model for rollout across the wider restaurant estate.

HOW THE SAVING WAS MEASURED

- enPact FilterPro (100 kVA) installed at the main incoming meter
- Consumption metered with FilterPro switched OFF and ON across August–September 2026
- Weekday and weekend profiles compared, with temperature tracked
- Measured to IPMVP Option C and verified against the 7% written guarantee; savings tracked via the enPact platform

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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