



# enPact

## Energy Efficiency Solutions

Achieve Energy Savings From Day 1





# Unlock energy savings

Evidence-based end-to-end solutions for HVAC systems, refrigerators and chillers.

In food production, up to **70%** of electricity is used for refrigeration and chilling. Meanwhile, large retailers spend up to **50%** of their electricity on refrigeration.

Drastically slash your energy costs and carbon footprint by optimising your chillers, refrigerators and air-conditionings. Prioritising HVAC efficiency isn't just a smart move—it's essential for meeting today's sustainability standards and achieving your economic and environmental goals.

Step into the future of energy management with our innovative solution designed to transform your business.



## 20%+ Energy Reduction

Reduction in energy costs



## Typical Payback in 12–24 Months

Secure fast payback, accumulate benefits over 10+ years



## Day 1 Savings

Immediate benefits — energy and emission reduction



## Verified CO2 Reductions

Monitor energy in real time, avoid “green washing”



## Monitor Energy Consumption in Real Time

at Device, Site and Portfolio levels

## Comprehensive Monitoring Capabilities

- Tracking savings achieved daily, weekly, and monthly
- Real-time monitoring of energy consumption at the device, site and portfolio levels
- Displaying power distribution, including electricity consumption ranking, trends, and breakdowns by operating hours, per floor, etc.
- Providing advanced energy analytics
- Monitoring and verifying CO2 reductions



## Case Study

# Driving Down Energy Costs and Carbon Emissions: UK Food Producer reduces energy costs by 22%

## About the company

Côte Brasserie is a French style British restaurant chain, with over 84 restaurants around the UK. They are members of the Sustainable Restaurant Association and are continually finding new ways of becoming a more sustainable restaurant chain.



## Overview

enPact units were installed and connected to 34 freezer and chiller units at the Côte Brasserie Food production facility. In order to accurately measure the kWh consumption of the units, smart meters were connected to the external condenser of the units.

We initially trialled enPact units in October 2023. Following the successful pilot, we added 2 other units to the original 'Skypack 3' to make it a 7 unit meter. We also installed enPact to a further 19 freezer and chiller units in January 2024. We added 8 further units in February 2024. These new units were also set to run in test mode of one week OFF following by one week ON. This report utilises data from the continuous monitoring of the initial 7 units, as well as these 27 new units.

## Benefits

**22% Reduction in energy cost**



**£109,114**

Annual financial savings



**351,983 kWh**

Representing a reduction of 55.3% in Energy Consumption



**72,886 kg**

Annualized savings in CO2

*\*Annualised Savings based on this pilot of 34 Chillers and Freezers*

Trusted by some of the biggest brands worldwide



CBRE

sodexo



citi



# Tailored solutions for your energy efficiency



## enPact AC & Refrigeration

The system reduces compressor runtime, cutting electricity usage significantly. The technology uses dual temperature sensors and AI to monitor and adjust room temperature and refrigerant supply, optimizing system performance and maintaining precise temperature control. Energy Saver solutions amplify energy efficiency also in the kitchen operations and boost savings by optimizing the power usage.

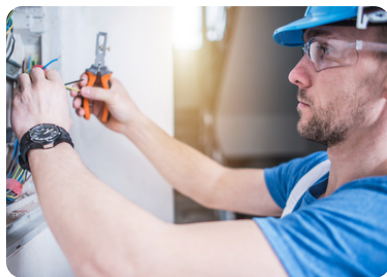
<b>Assets</b>	AC units, chillers, refrigerator cabinets, walk-in refrigerators and freezers and temperature controlled warehouses
<b>Energy savings</b>	20%-30%
<b>Installation</b>	2 hours per device



## enPact Liquid

It is an advanced nanofluid additive that significantly enhances the energy efficiency of hydronic cooling and heating systems. It improves heat transfer fluid performance by up to 15%, reducing compressor workload in chiller systems and minimizing electrical energy consumption.

<b>Assets</b>	Water/Glycol-based AHUs 10%-15%
<b>Energy savings</b>	10%-15%
<b>Installation</b>	30-day deployment



## enPact Voltage

Voltage optimization equipment reduces incoming grid voltage to save energy by using a low-voltage transformer. It precisely adjusts energy levels to achieve optimal voltage, ensuring equipment

<b>Assets</b>	Office buildings, production facilities, gymnasiums, hotels
<b>Energy savings</b>	6%-12%
<b>Installation</b>	30-day deployment



## enPact HVAC AI

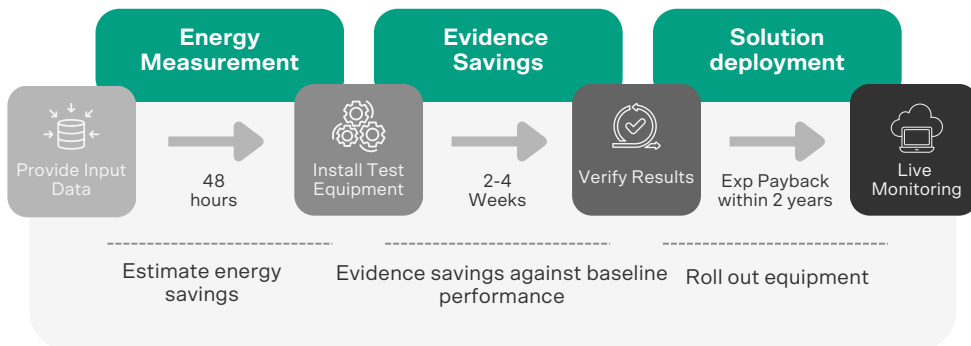
Supporting Building Management Systems (BMS) with HVAC systems allows centralized control and automation, optimizing operations to achieve energy savings and cost reductions for buildings.

<b>Assets</b>	HVAC optimization
<b>Energy savings</b>	10%-15%
<b>Installation</b>	30-day deployment

## Project deployment process

# Fast track your cost-saving journey with us

Our deployment process is designed for optimal efficiency. A dedicated team will work with you to conduct a rapid savings assessment based on your input data, ensuring a swift installation, and a quick payback period.

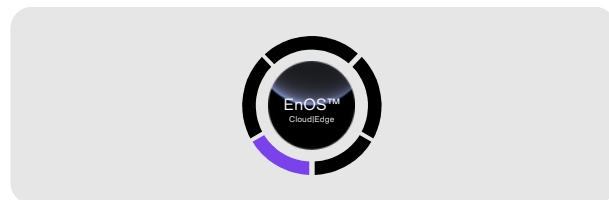


## 3 deployment scenarios to choose from

enPact is non-invasive and fits into your existing IT landscape

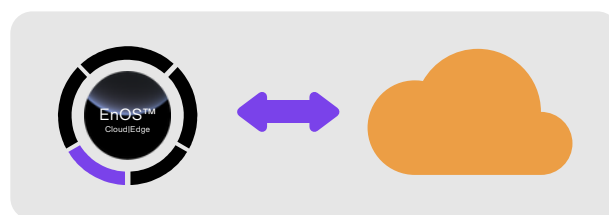
### enPact as a standalone solution

Operates independently from the existing energy management solutions available on site and features a quick deployment. It provides real-time visibility of the achieved savings.



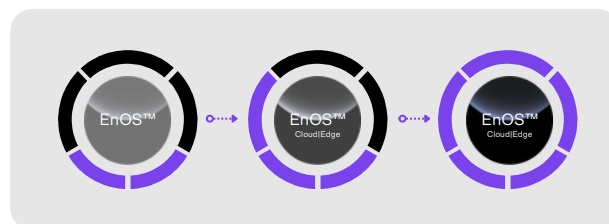
### enPact as an add-on

Integrates with pre-existing energy cloud based platforms and BMS, EMS etc. to provide real-time data and showcase savings, enhancing overall efficiency.



### enPact as a net zero platform

With real-time capabilities to track energy consumption reductions, enPact facilitates the monitoring of your carbon footprint and helps set targets for achieving carbon neutrality.



Let EnOS become your end-to-end Net Zero platform. Beyond enPact it offers off-the-shelf PV, EV, battery, Micro Grid and Carbon Accounting solutions. EnOs is helping customers to abate 484 Million tons of CO2, and counting.

## About



Univers provides the world's most comprehensive decarbonization system. We help companies and countries optimize energy systems and reduce carbon emissions with accurate, reliable, and actionable decarbonization data. Our EnOS (Energy and Environment Operating System) platform connects on-the-ground operational technology and in-the-cloud intelligence to deliver real-time energy data and data-driven carbon monitoring, reporting, and abatement. With 220 million devices connected, over 560GW of renewable energy under management, and a community of over 500 customers including Microsoft, Starbucks, and HSBC, we're helping leading businesses get the world to net zero—and what comes after it.



Emissis is a leading energy and cleantech M&E service provider based in the Northeast of England and an independent supplier of power and cooling solutions for critical, industrial, and commercial operations. It delivers a powerful suite of globally patented, innovative energy reduction solutions, providing clients with comprehensive tools to monitor, report, optimise, and significantly reduce carbon emissions and energy usage.

For over two decades, Emissis has been steadfast in its commitment to helping private and public sector businesses unlock the benefits of reducing carbon emissions and energy use. It guides customers in leveraging proven modern technology and support services to transition to net zero carbon operations.

Emissis works alongside and supports many leading UK businesses on their journey towards net zero, saving them millions in energy overspending and waste.

## More

To learn more about modular solutions for green infrastructure and operations, visit :

<https://go.univers.com/emissis-campaign.html>

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