



Retail operates in environments where every degree of temperature, every minute of lighting, or any refrigeration failure directly impacts the bottom line. On top of that, businesses face increasing regulatory requirements and ESG commitments.

Energy demand in the retail sector

Refrigeration

Cooling systems for food and beverages in supermarkets and retail stores.

HVAC

Air conditioning is the largest energy consumer, especially during peak hours and in extreme temperatures.

Lighting

Present across
different areas and
use cases including
shop windows, sales
areas, and back office
environments.

Improving energy efficiency in these systems is key to reducing costs and environmental impact. That's why traditional energy management is no longer enough. **What's needed now is intelligence, automation and full control.**

No matter your store size, layout, location or opening hours, you can optimise your energy performance and sustainability goals.

Goals

Efficiency

↓ 20 - 30%

energy savings in lighting and HVAC through analytics and automation.

↓ 20%

fewer on-site maintenance tasks thanks to actionable insights and remote servicing.

ROI

based on CAPEX in under 5 years.

↓ 20%

in operational costs through data-driven analysis.

Sustainability

↓ 20%

reduction in CO₂ emissions due to lower energy consumption, and up to 40% when renewable energy sources are used.

Maximum certification

under building standards for both new builds and refurbishments: WELL, BREEAM, LEED...

Our solution

This is how energy savings are achieved with our Energy Management System (EMS).

Lighting

Smart scheduling and sensors adjust brightness based on area usage

Automation

Key systems run automatically across the store

Centralised Platform

Unified control of HVAC, lighting and energy systems

Temperature

Climate settings autoadjust based on occupancy, light or schedules





Refrigeration

Automated temperature control preserves products and prevents waste

Security

ISO 27001 and National Security Scheme compliance

Shopfronts

Optimised backlighting adjusts to natural light to attract more customers

Entrance air curtains

Keep internal temperature stable and cut down energy usage



Benefits

Telefónica Tech's EMS allows you to achieve unprecedented control over every aspect of energy consumption and maintenance operations.

The business impact is clear:

Significant reduction in energy costs.

Early prediction of failures and breakdowns.

Notable decrease in unexpected operational expenses.



Al virtual assistant

Our virtual assistant Nerea supports your daily operations with more intelligence, speed and collaboration:

Ask for graphs, data or downloads as if talking to a person.

Change schedules and setpoints all at once.

Automatically verify your energy bills.

Advantages of Telefónica Tech's EMS



Real-time centralised control

- Manage all your sites from a single platform.
- Apply efficiency measures quickly, easily and at scale.



Smart automation

- Set alerts and automation rules.
- Auto-adjust setpoints via the events module.



Monitor and analyse consumption

 View performance via dashboards, graphs and virtual metrics.



Custom energy reporting

• Build your own reports or leave it to us.



Data always available

 Export your full history or integrate via API with tools like Power BI.



Advanced management

- Design interactive maps.
- Manage user roles and permissions via the admin module.



Smart building architecture

Our turnkey Energy Management System (EMS) is a centralised and interconnected network of hardware and software that monitors and controls your chosen systems in real time.

BMS

Digitalisation and control















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Connectivity and protocols

LoRa I

Modbus

Ethernet

DALI

2G/3G/4G/5G

NB-IoT

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Centralised platform

Cloud Azure

Big Data

Data analysis
Custom reports
Alarm generation

Control

Automation
Operating modes
and schedules
Manual override

Simulation

Digital twins Forecasting

Resource optimisation

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Data and insights

Sustainability

Finance

Infrastructure Management

Business



Why choose us

- Digitalisation and sustainability on a single roadmap.
- You choose the scope, milestones and timelines.
- Interoperable tech: Al, proprietary API, Modbus TCP.
- End-to-end service: installation, data, automation and consultancy.
- Step-by-step proprietary methodology: analysis, design, deployment, training and integration.

- 360° value: efficiency, insights and action.
- One provider, fewer risks.
- Experts in software, hardware and data.
- One-stop shop with optimised costs.







