



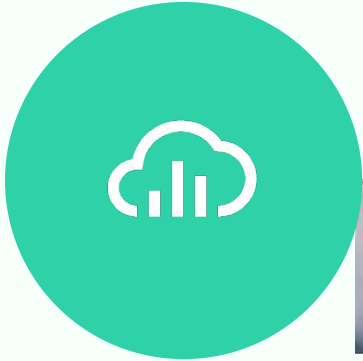
energy efficiency
at your fingertips

66

67



We simplify
energy management
and digitization
of buildings
by making them efficient and sustainable



We are certified

ISO 27001
BUREAU VERITAS
Certification



ISO 9001
BUREAU VERITAS
Certification





A team of experts
taking care of
your buildings



700+
Buildings



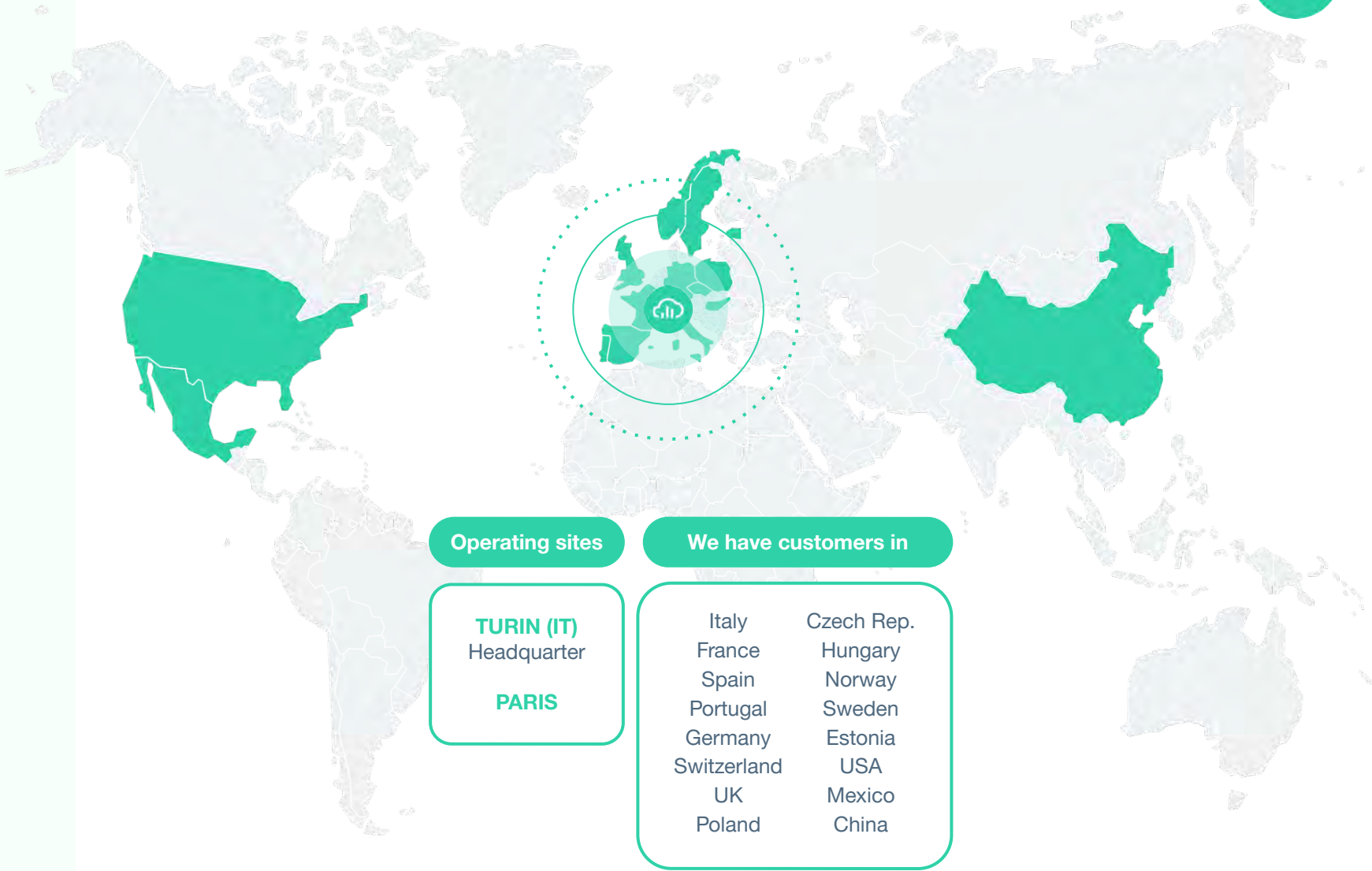
16
Markets



12
Patents*

Our expertise

Energy management & analysis
Project management
Hardware development
IoT and Cloud computing
HVAC energy efficiency



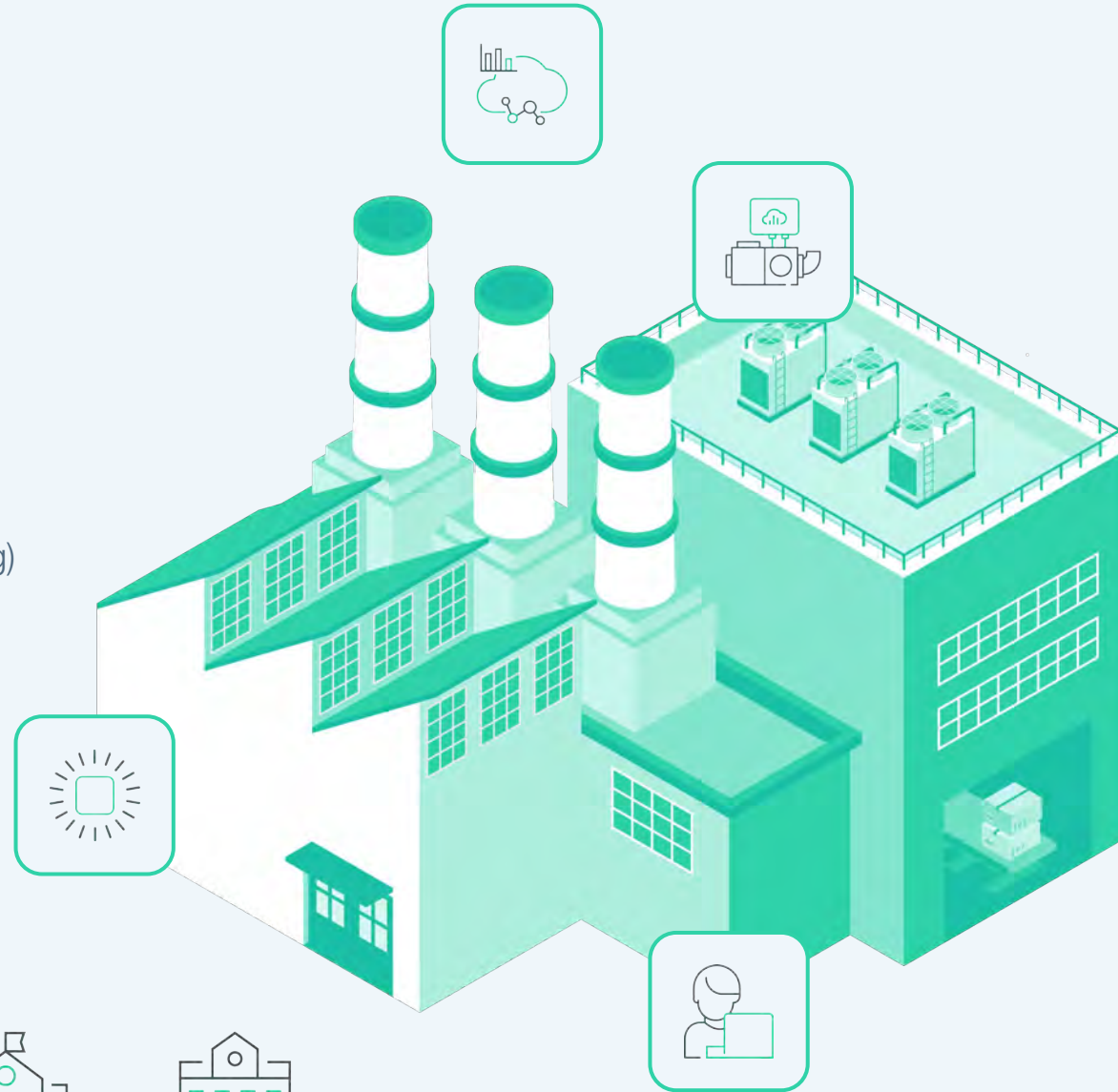
*5 patents approved, 9 in the process of approval



When intelligence meets sustainability

We digitize your building stock:

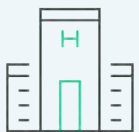
- Optimizing consumption through the logic of our Cloud Algorithm
- Data collection (for analysis and reporting)
- Advanced energy monitoring even for complex buildings
- Energy management tools for making strategic decisions



Type of buildings



industry



hospital



retail



public buildings



and more!

We improve
the activity of



Energy
manager



Facility
manager



CEO and ESG
Managers of
Buildings



HVAC Optimization

Make **plants efficient**, **save energy** and **reduce** CO₂ emissions with **our Algorithm**



Energy monitoring

Identify the most **energy-consuming** machines and processes and consciously **reduce waste**



Environmental monitoring

View the **comfort conditions** of your buildings in real time with **our sensors**

Optimize
your building
with our
services



Turn to us for an **Energy Intelligence Consultation**

HVAC optimization

With the intelligence of our Algorithm

Make your buildings' HVAC systems efficient

Our comprehensive service to
monitor, reduce energy consumption
and improve occupants' indoor comfort

COMPATIBLE

With any HVAC system
regardless of make or model



Energy
saving
up to 30%



Remote
control



Improved
indoor comfort



Intelligence to
the building



Energy Monitoring

Actual data to support you in energy management

Identify and reduce waste
where needed with
the Enerbrain platform

Simplify **energy data collection and monitoring**:
a single tool, with advanced alarming,
to take targeted actions and simplify data management

MONITORED DATA



electrical
loads



gas
consumption



water
consumption



Thermal
energy



Energy
savings
of 5 to 7%



Cloud-based
data collection



Targeted
intervention



Environmental monitoring

Never too cold or too hot again

View real-time comfort conditions

Monitoring indoor spaces using **Enerbrain sensors** allows you to **view environmental comfort parameters in real-time**

MONITORED DATA



temperature



CO₂



relative
humidity



Decreased
complaints



Cloud-based
data collection

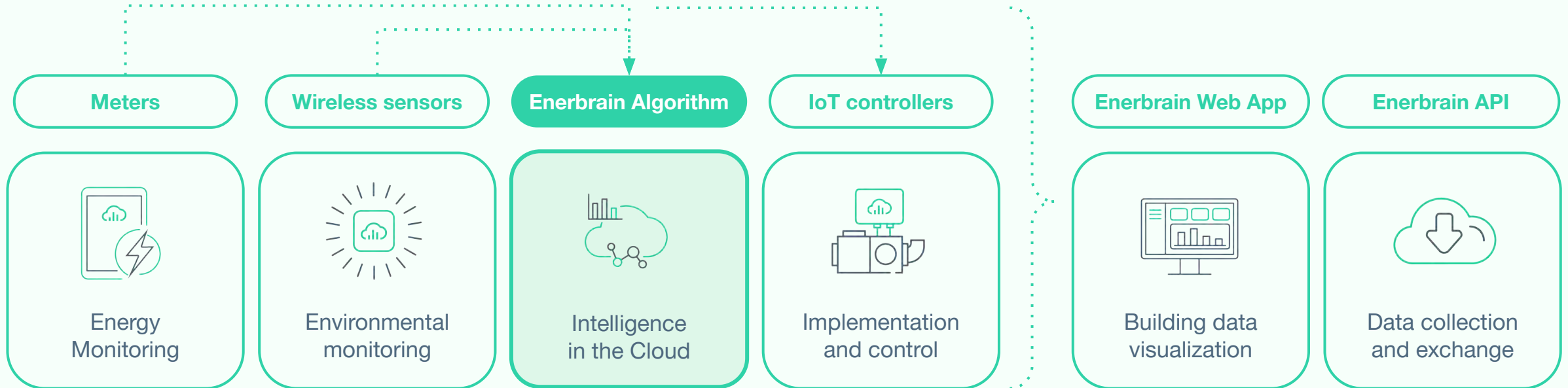


One platform for
many buildings





IoT and cloud-based elements of our intelligent system



Features

Accurate and secure data acquisition
from the building or electrical panels,
machinery, processes, and indoor environment
ex: electrical consumption, gas, water, temperature, etc.

Consumption
optimization
and setpoint
maintenance

Remote control
over the BMS,
plant, or individual
elements

Displaying and receiving
data also and setting desired comfort
setpoints for each area of the building



Interior comfort and intelligent regulation? **Enerbrain algorithm takes care of it**

Benefits



**ENERGY
Savings**
up to 30%
on the HVAC rate

**Quick
configuration**
via Enerbrain Web App

**Versatile
application**
on buildings belonging
to different sectors

Compatibility
with all plant types
and BMSs

Once the **set points** are set,
our **Algorithm** will adjust the HVAC plants
to meet the desired comfort conditions
in each room

Features

Adaptive Regulation

**Optimized management of generation
and/or distribution systems**

**Dynamic pre-ignition
and pre-power-off calculation**



Digitize your buildings



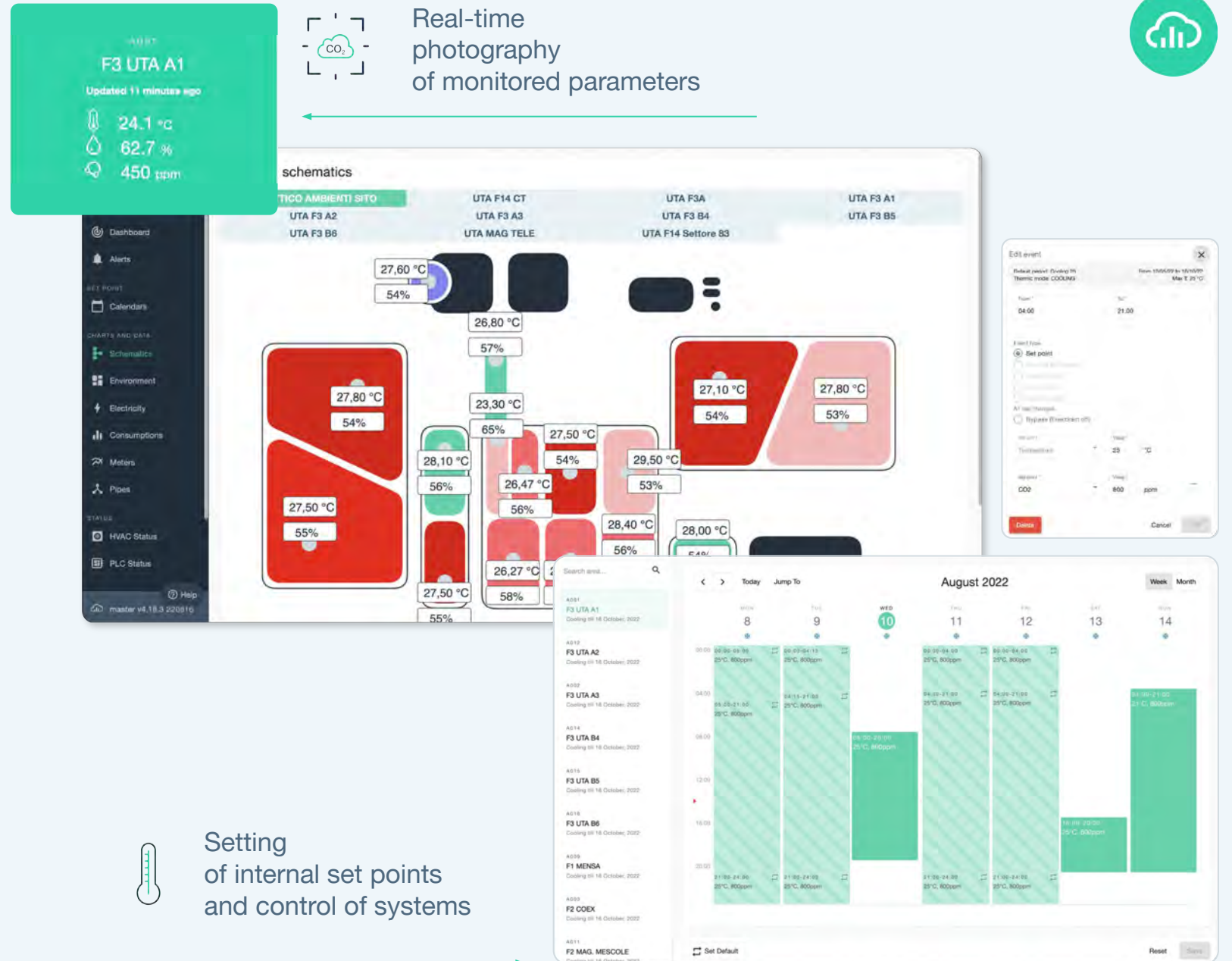
Real-time
photography
of monitored parameters

Awareness

is the first step toward
change

Enerbrain Web App,
a single digital platform to:

- **visualize** your building stock
- **configure** Enerbrain Architecture in the cloud
- **set up** calendars and setpoints
- **make** data-driven decisions



Setting
of internal set points
and control of systems

At your side, for every need



- **tailor-made**
efficiency project
- **coordination**
of the installation
- **training** on the use
of the Enerbrain
Solution
- **support**
after-sales

Integration with existing facilities?
Customized monitoring?
Data collection for reporting?

Whatever your need,
we will support you
along your
sustainability journey



Why choose the Enerbrain team?

A single stakeholder
for stress-free optimization

Complete
turnkey
service

We take care
of every stage



SAVING

Save energy
and reduce
CO₂ emissions

5-7%
with
energy monitoring
service

15-30%
with
HVAC optimization
service



DIGITIZATION

We simplify
energy
management

Collect data and make
strategic decisions to

Cut consumption
Decarbonize
Obtain certifications
ESG reporting



INNOVATION

We increase
the intelligence
of your buildings

Thanks to the
optimization logic
developed by our
Cloud Algorithm

City of Turin



International
automotive industry



Banco BPM

Explore our impact
through some
success stories

Optimization + Monitoring

City of Turin

Customer need:

- Improve energy efficiency of several buildings
- Monitor environmental comfort
- Solution to be applied to a cluster of 89 buildings

Partnership with



How did we help the client?

Integration of HVAC optimization service

We improved plant operation by reducing energy consumption, improving occupant comfort, and decreasing pollutant emissions.



Results

SUSTAINABILITY
1.400 t of CO₂
saved each year

SUPERVISION
24h/24
Remote control

EFFICIENCY
6.700 MWh
Annual energy savings

RETURN
OF INVESTMENT
< 1.5 years

Environmental monitoring

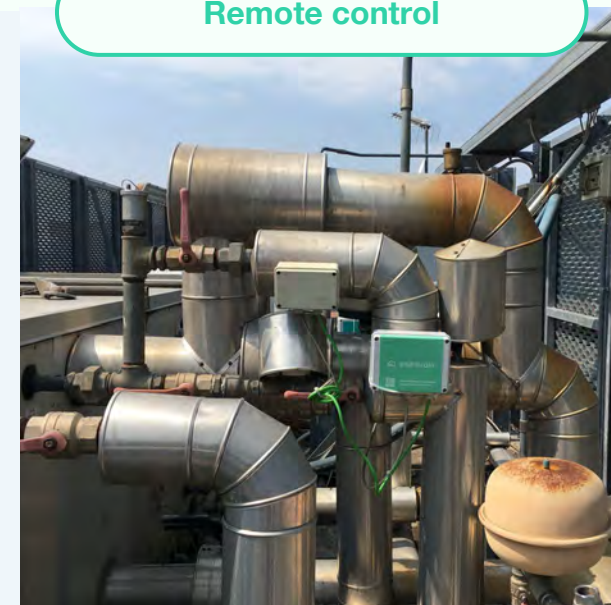
Intelligence to plants

Remote control

Control and
optimization
solution for
HVAC systems

gas boilers
radiator circuits
fan-coils

without implementing a BMS



44 SCHOOLS

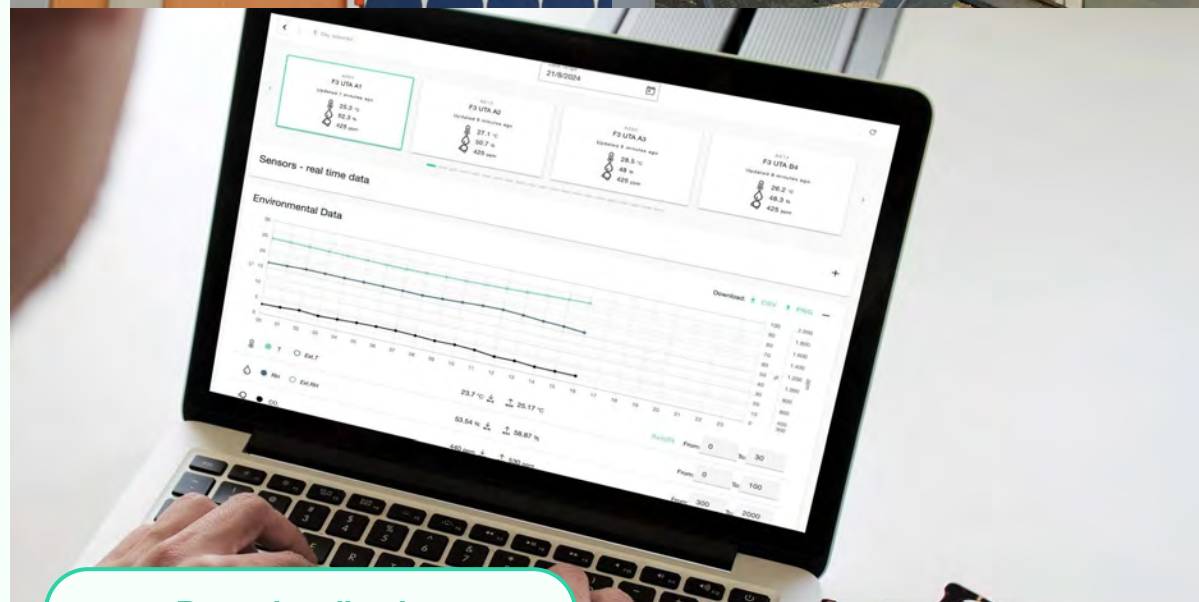
21 OFFICES

24 ENTERTAINMENT



89 Buildings,
a Project:
we take care
of our city

Data visualization





Optimization + Monitoring

International automotive industry

Customer need:

- Integrate a comprehensive energy monitoring and savings solution without invasive changes
- Monitor, disaggregate consumption and gain detailed knowledge of energy use (measuring at least 80% of electricity + gas consumption)
- HVAC efficiency with a minimum of 10% savings

How did we help the client?

Energy monitoring and HVAC optimization

We have installed a **single energy monitoring solution in 49 factories in 13 countries**, including the US, Mexico and China. In addition, for European industries, we added the **HVAC monitoring and optimization solution**, significantly reducing consumption.



Results

EFFICIENCY

15%

Annual energy savings obtained on the HVAC portion

SUPERVISION

24h/24

Remote control

MONITORING

> 4.100

electrical loads monitored in 13 different countries

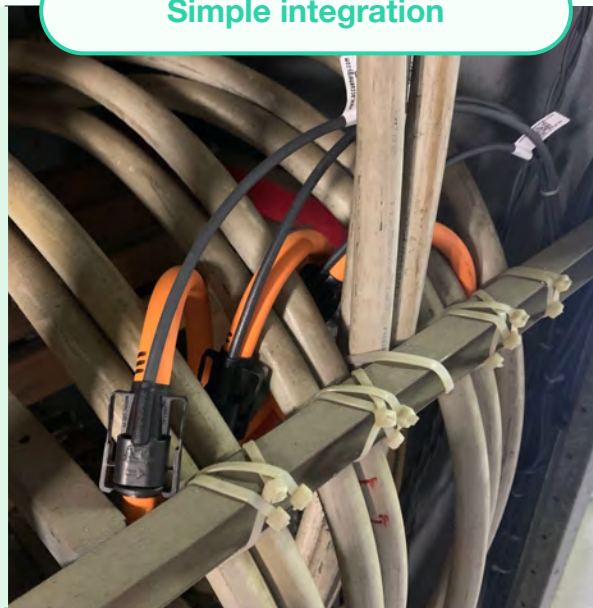
RETURN OF INVESTMENT

1/2 years

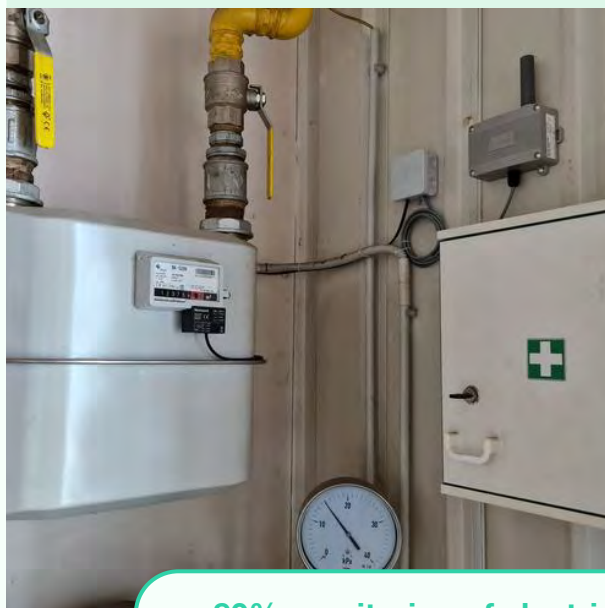


Informed choices based on reliable and accurate data through data acquisition and definition of KPIs

Simple integration



Plant intelligence and optimization



80% monitoring of electricity and gas consumption



Control, visualization, and information acquisition



Energy intelligence

Banco BPM

Customer need:

- Analyze the energy efficiency and environmental sustainability of a building stock
- Use data to estimate optimization and opportunity for intervention

How did we help the client?

Energy Intelligence Platform

Energy data collection, **definition of KPIs** and **creation of dashboards** for visualizing and monitoring of branch energy consumption.



Results

EFFICIENCY

10%

Energy saving

BUILDINGS

1.436

Branches analyzed

MONITORING

+100

Branches with monitoring internal



A single
energy intelligence
platform
developed to:

- perform scenario analysis
- highlight critical issues
- obtain a focus on consumption
- analyze indoor comfort





Discover more

About Clients who have chosen us as their sustainability partner

[Visit our case studies](#)





Schools + Offices + Entertainment

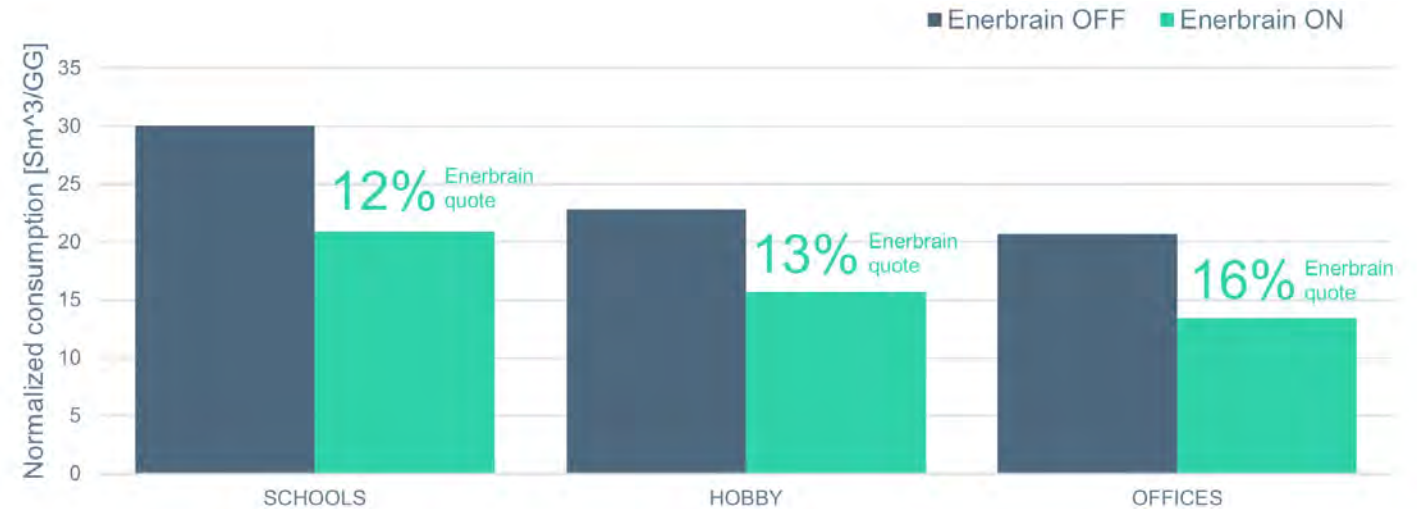
City of Turin

Project developed with IREN

89 buildings optimized in 20 days



Thermal energy savings achieved in the first two months of system activation



Results

6.700MWh

Annual energy saving

1.400t

CO₂ not emitted in one year

95%

Time in comfort

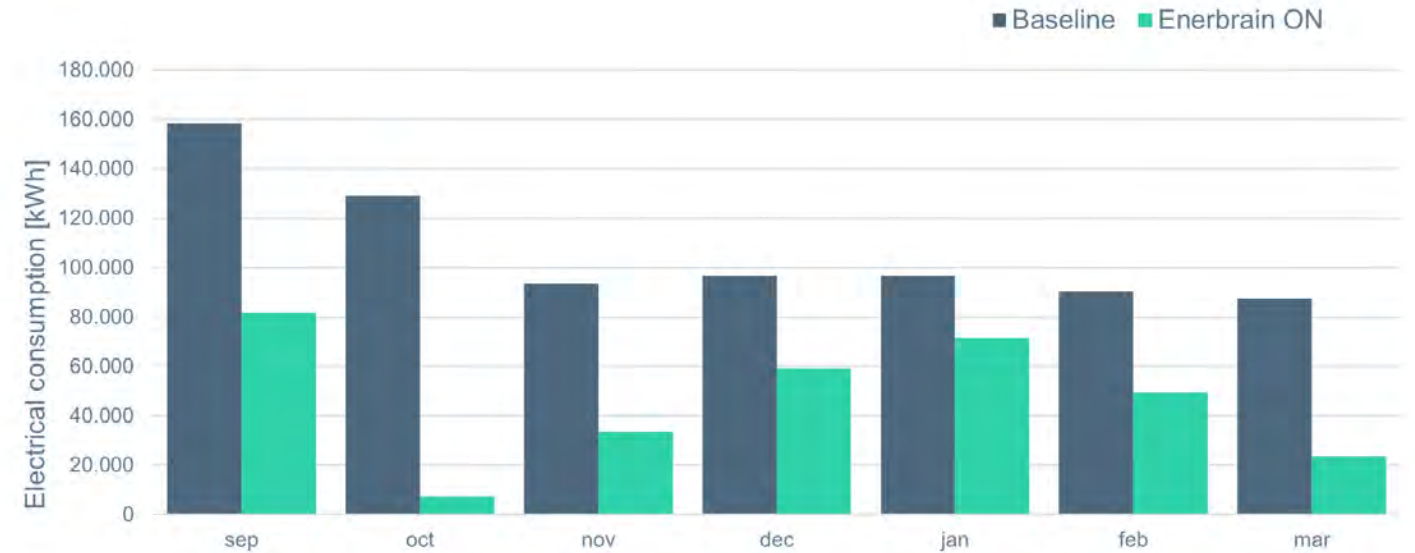


Industry

Michelin

Monitoring on 500.000 m²
Regulation on 35.000 m²
HVAC consumption: 600.000€
Plant: all air conditioning and heating

Relationship between weekly consumption and outdoor temperatures during the test



Results

40%

Annual energy saving

1.030t

CO₂ not emitted in one year

85%

Time in comfort



Industry

Automotive company

70.000 m²

HVAC consumption: 800.000€

Plant: all-air heating only

Control over:

10

Flow diverters

17

switchboards
subtending
134 destratifiers

21

AHU



Results

6%

Thermal
energy saving

36%

Electricity
energy saving

(limited as existing steam generators do not allow direct control)



Airport

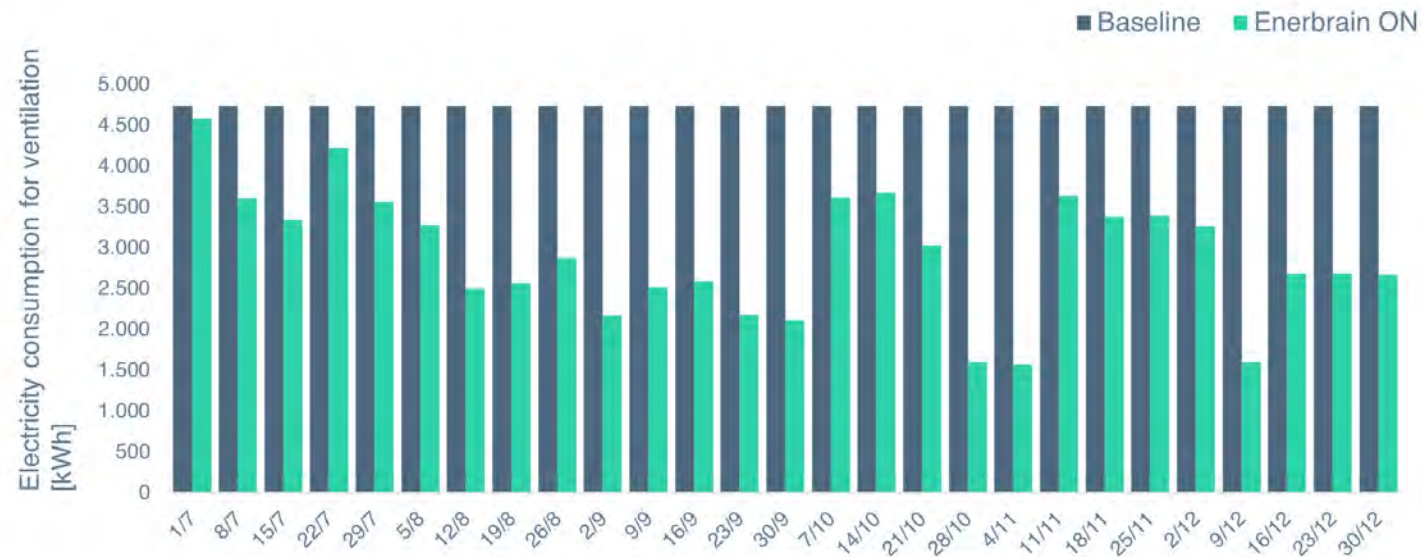
Turin Airport . Sagat

4.000 m2

HVAC consumption: 460 MWh/year

Plant: all air, boilers and chiller units

Energy consumption management, without and with Enerbrain control



Results

30%

Annual
electricity saving

14t

CO₂ not emitted
in one year

93%

Time
in comfort

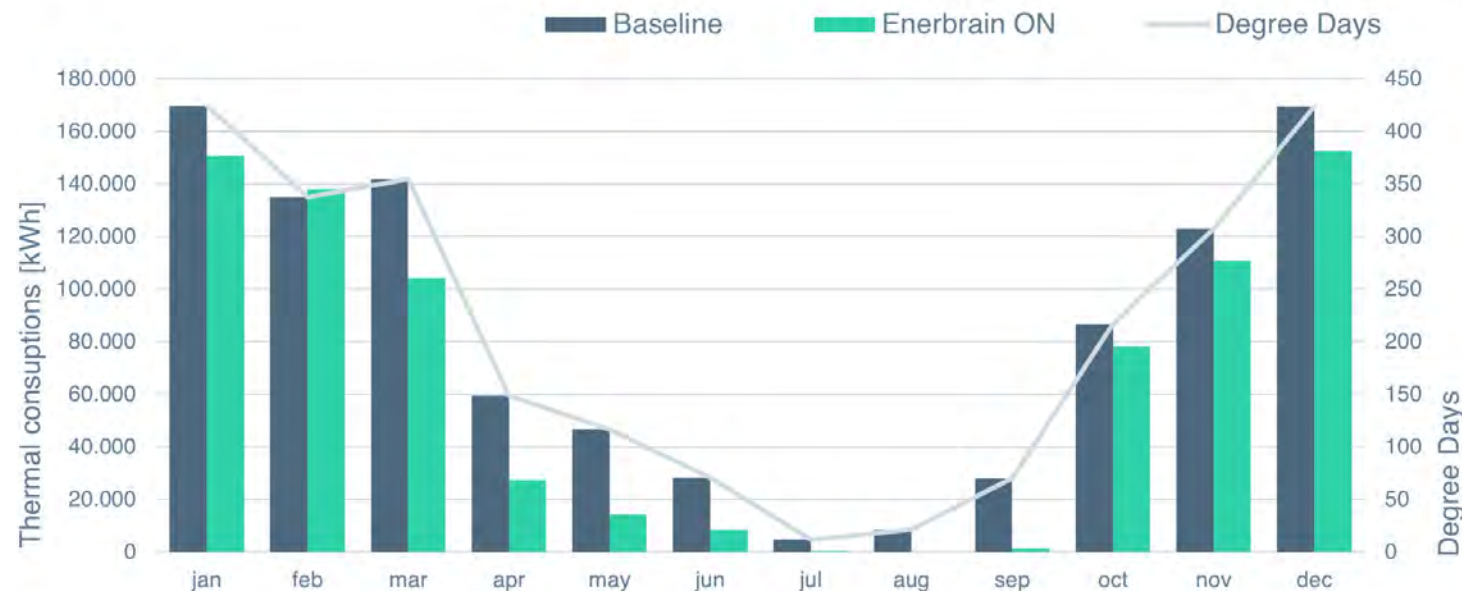


Hospital

GHU Paris

23 buildings - installations in progress
170 structures - places of care
Total area: 190.000 m²

Enerbrain's performance in one year



Results

25%

Annual
energy saving

412t

CO₂ not emitted
in one year

99%

Time
in comfort



Retail

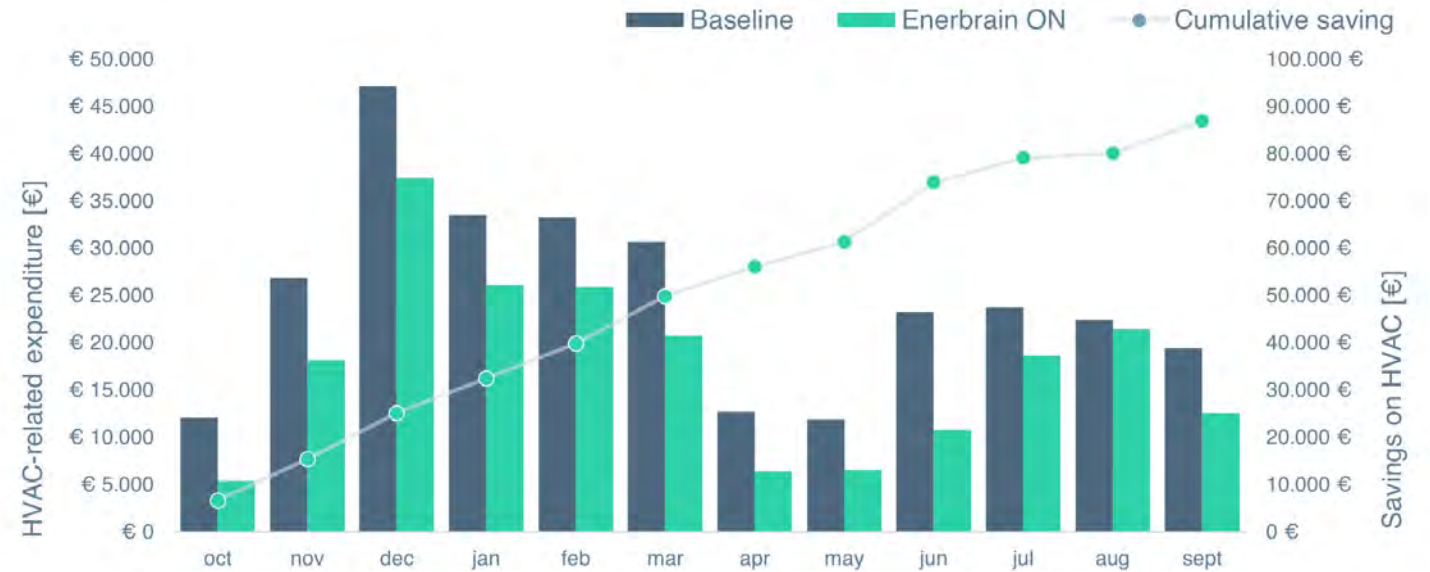
Carrefour

15.000 m²

HVAC consumption: 285.000€

Plant: all air, boilers and chiller units

Focus on natural gas consumption, monthly consumption and total money savings



Results

29%

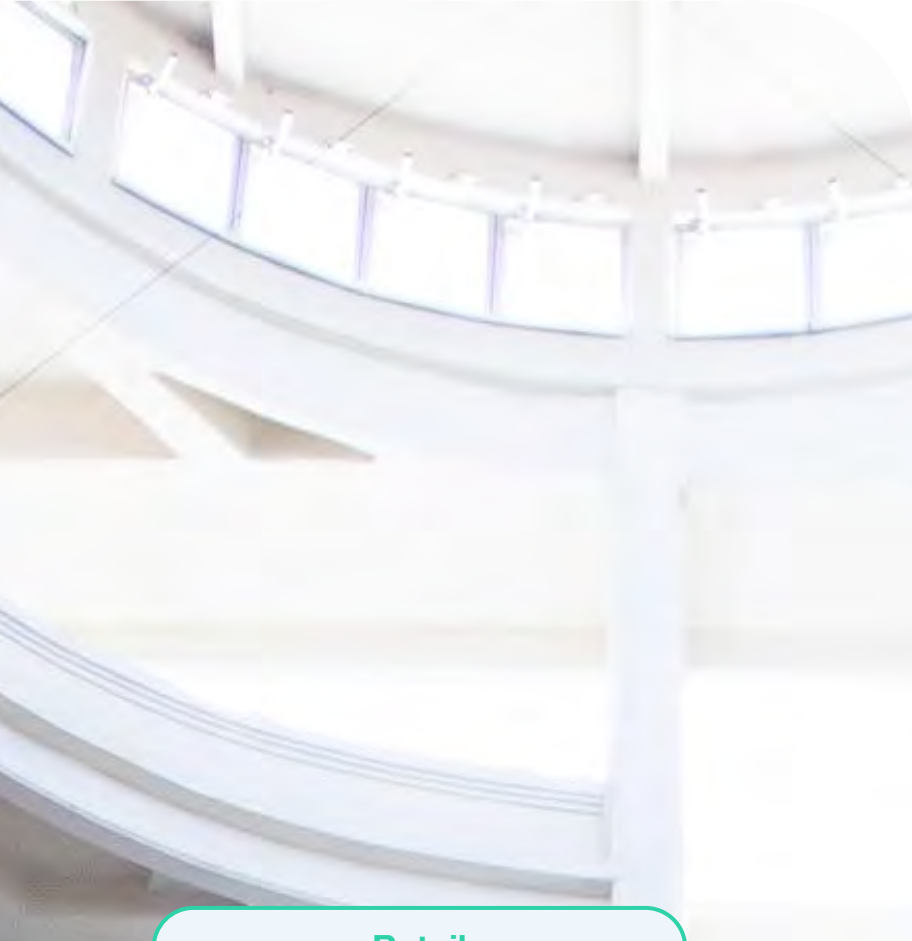
Annual
energy saving

340t

CO₂ not emitted
in one year

90%

Time
in comfort



Retail

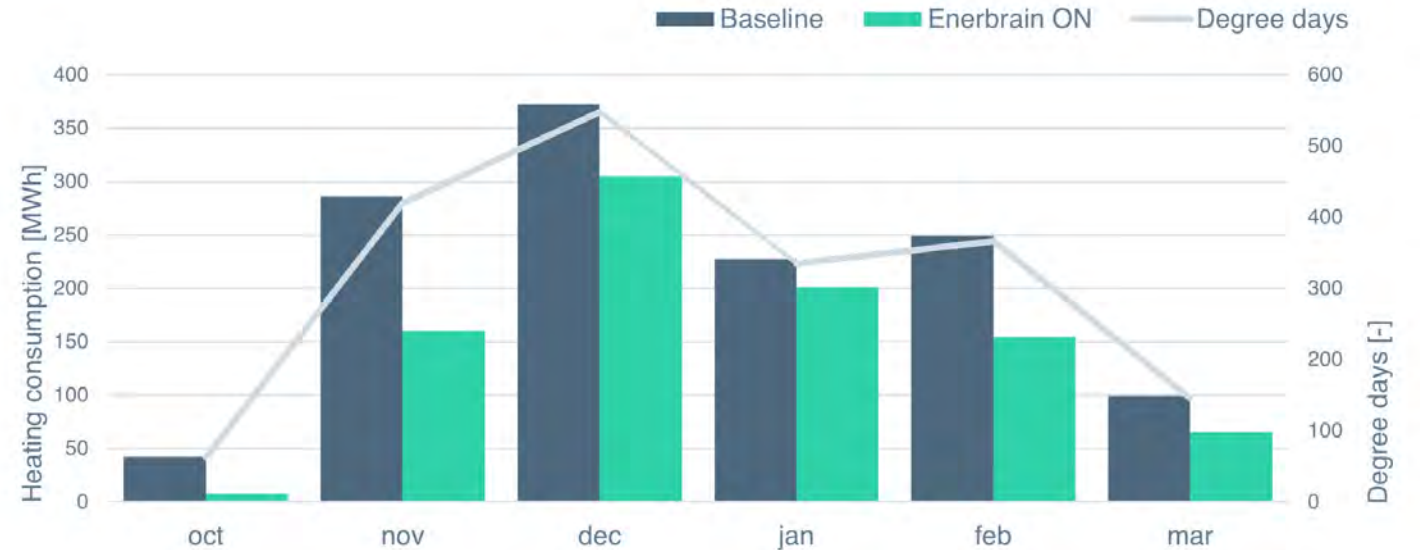
Lingotto

10.000 m²

HVAC consumption: 350.000€

Plant: all air, boilers and chiller units

Focus on natural gas consumption, monthly consumption and total money savings



Results

35%

Annual
energy saving

218t

CO₂ not emitted
in one year

90%

Time
in comfort



Offices

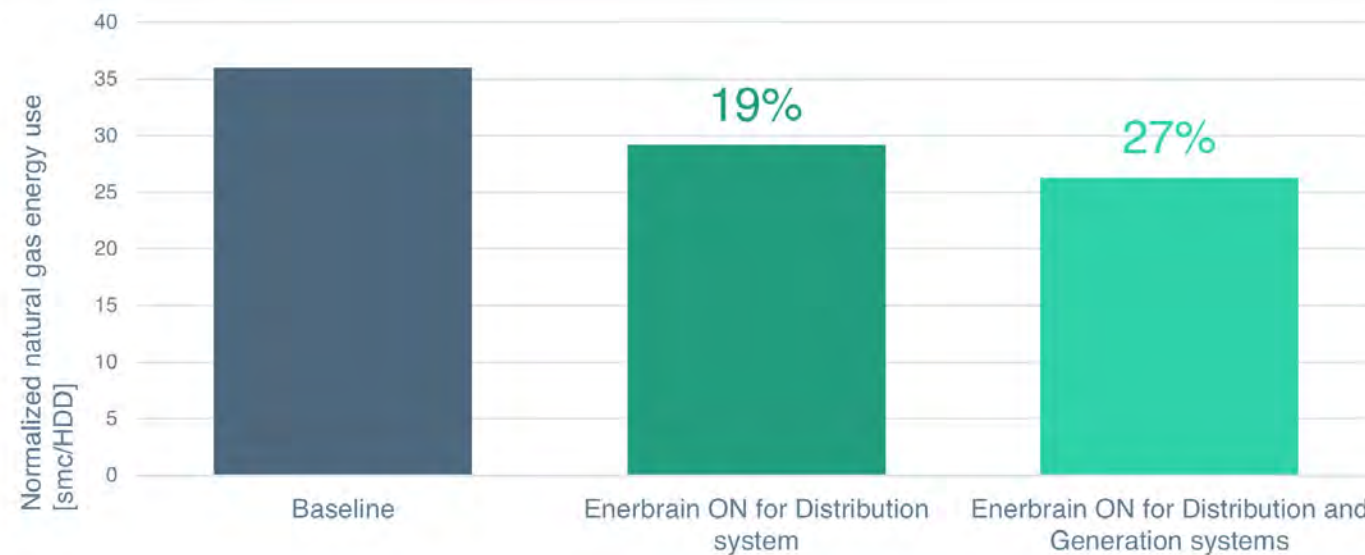
Public offices

12.000 m²

HVAC consumption: 65,000€

Plant: condensing boiler and radiators

Increased efficiency through control of distribution and generation



Results

15%

Annual
energy saving

38t

CO₂ not emitted
in one year

90%

Time
in comfort



Theater

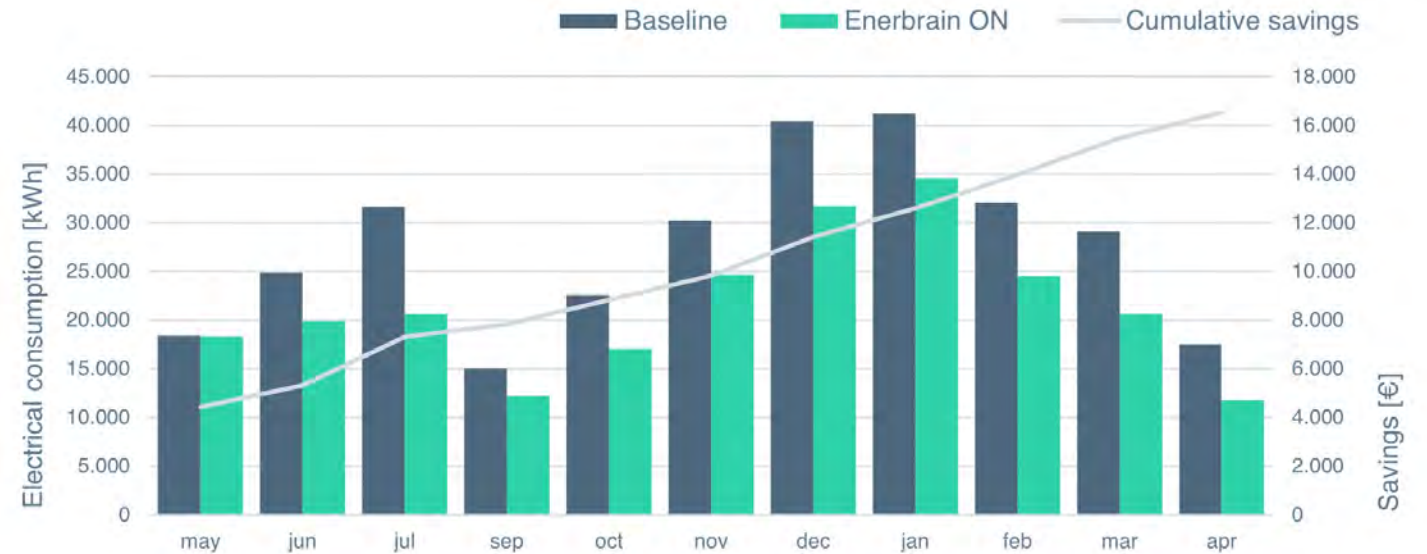
Carignano Theater

3.800 m²

HVAC consumption: 54.000€

System: all-air, radiant floor,
condensing heat pump and water

Monthly electricity consumption and total energy saving



Results

23%

Annual
energy saving

32t

CO₂ not emitted
in one year

82%

Time
in comfort



Ready for an intelligent use of energy?

Discover more

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[Enerbrain](http://www.enerbrain.com)