INTELIGG P.C.

We Rocket your Energy and Environmental Savings
at Your Building now!

ABOUT US

The Company

Inteligg is a startup company established in January 2018 with the mission to deliver intelligent, innovative and sustainable solutions for Smart Cities and Communities.

Inteligg develops products, provides services and engages in research in the fields of energy, transport, environment and rural applications.

Status

The founding members consist of mechanical, electrical, aerospace and computer engineers with extensive experience in national and international research and system development projects, focusing on social innovation, sustainable mobility and economy, environmental impact assessment, energy efficiency and renewable energy, as well as ICT solutions.

The Founders

Dr. Christos Ioakeimidis
CEO

Dr. Ali Bagheri
CTO

Dr. Konstantinos Genikomsakis
CFO

Inteligg

OUR PRODUCTS

2024: c-BEMS

A Cloud-Based Software-as-a-service (SaaS) Tool for Building Energy Management System (BEMS), compatible with various communication protocols with advanced Gen AI/ML algorithms for the maximum energy & environmental efficiency rate in any kind of building with added features of:

i) a CO_2 operational emissions calculator
ii) a 1-day ahead energy demand response tool with 85% accuracy
iii) a Full system optimization in presence of RES (i.e.,wind, solar, EV, storage)

2022: Smarth-Prop

A fully cloud-based thermostat system for small and medium sized buildings, brings the power of AI algorithms and MPC control techniques to your home.

2020: SmartBox4U

A smart integrated solution for vulnerable population groups as a means of preventing potential asthma attacks due to exposure to poor air quality amd increased PM2.5/10.

. . . & SERVICES

Intelligent | Innovative

Air Quality Monitoring

Modeling and Analysis

Research and Studies for energy, transport, etc.

Data Analysis

Design of IoT devices, Prototypes

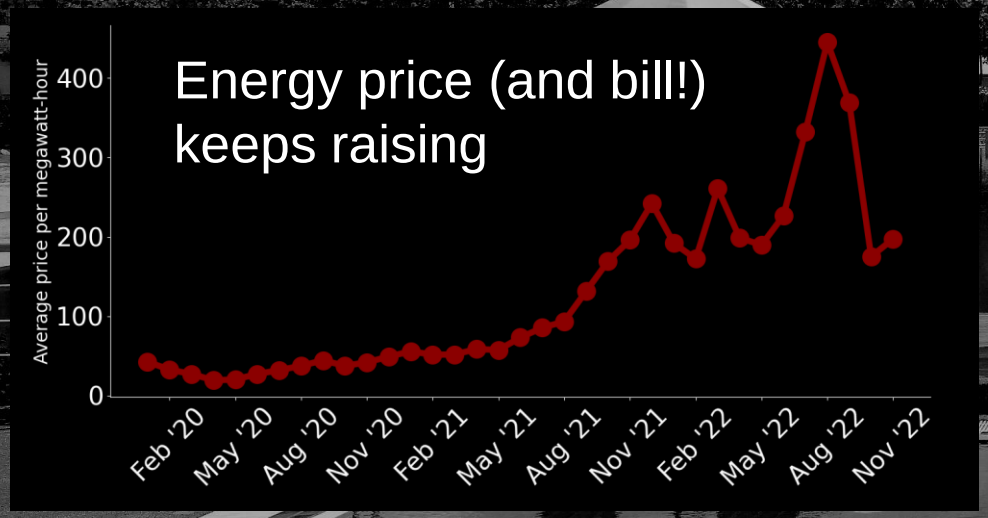
Web/Mobile application development

Building energy consumption and cost can be reduced

THE PROBLEM

About **80%** of a Building's energy consumption goes to Lighting and HVAC systems

Current solutions are **expensive** to install and maintain



THE SOLUTION

WE ROCKET YOUR ENERGY & ENVIRONMENTAL SAVINGS!

c-BEMS

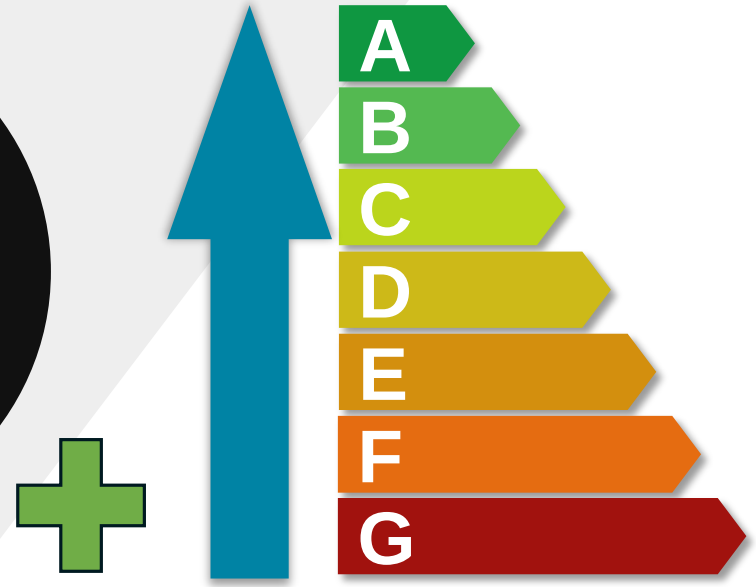
It can get **60%** lower with c-BEMS

WHAT C-BEMS CAN BRING TO YOUR BUILDING

▶ High energy savings for any energy system of average **60%**!

▶ Monitor and reduce CO_2 emissions for ESG

▶ **25%** lower maintenance and installation costs



c-BEMS

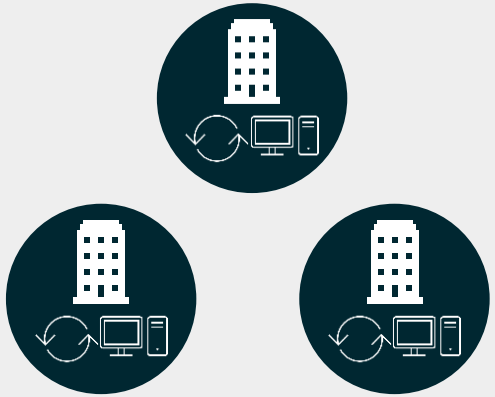
▶ Digitalized planning, 35% lower costs and data analysis for HVAC/ Lighting/ Scheduling/ Alarming/ Hot water/ Storage

▶ 25% Workforce Management time saving

▶ Better and more secure place to work!

WHAT C-BEMS CAN BRING TO YOUR BUILDING

- A cloud SaaS application/tool
- A global and unique IoT secure Platform
- Remote control of multi-zonal HVAC/lighting
- An easy Monitor and Control of Multiple Buildings in real-time
- Self-learning/adjusting system based on occupant's preferences with Gen AI/ML techniques



A sustainable solution for your Building completing UN/ESG objectives!!!

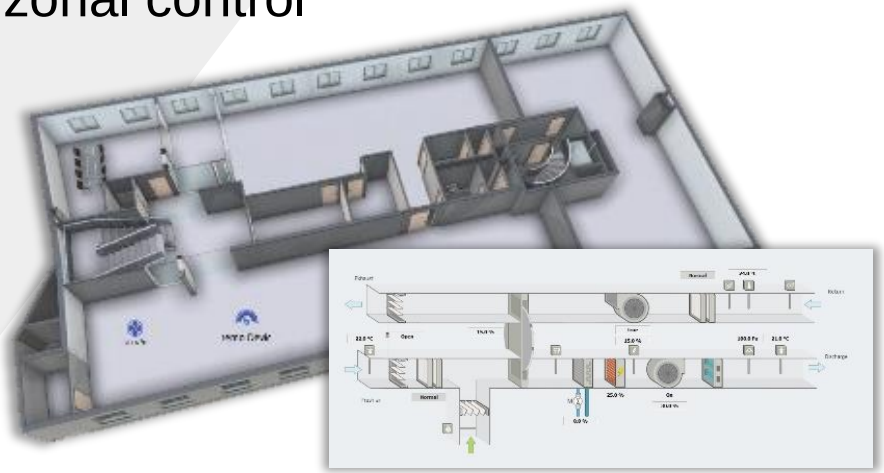
Easy to use Cloud-Application

https://youtu.be/OYM_dStKwnA

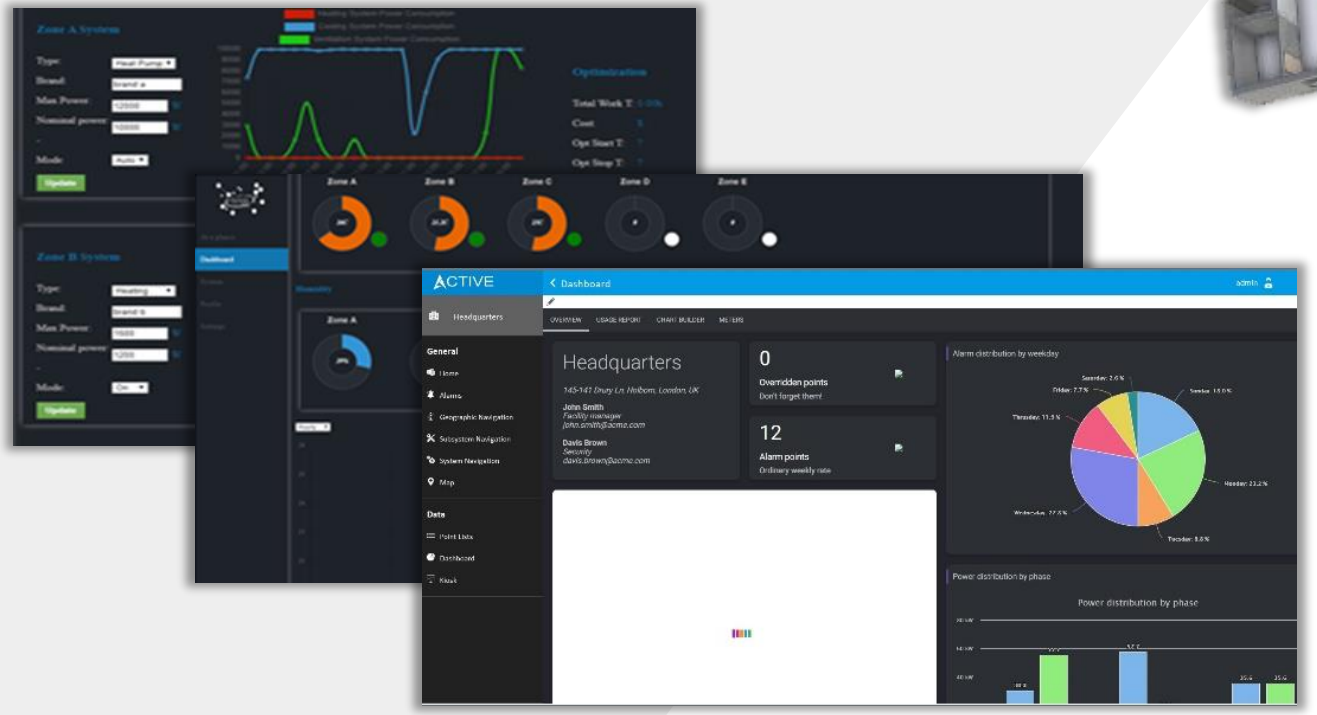
https://youtu.be/tYeuK03r8Ok

▶ Manage multiple buildings

▶ Multizonal control



▶ Monitor and manage every system in real time



▶ Mobile app

▶ Be aware of your energy consumption and cost

ADDED FEATURES OF:

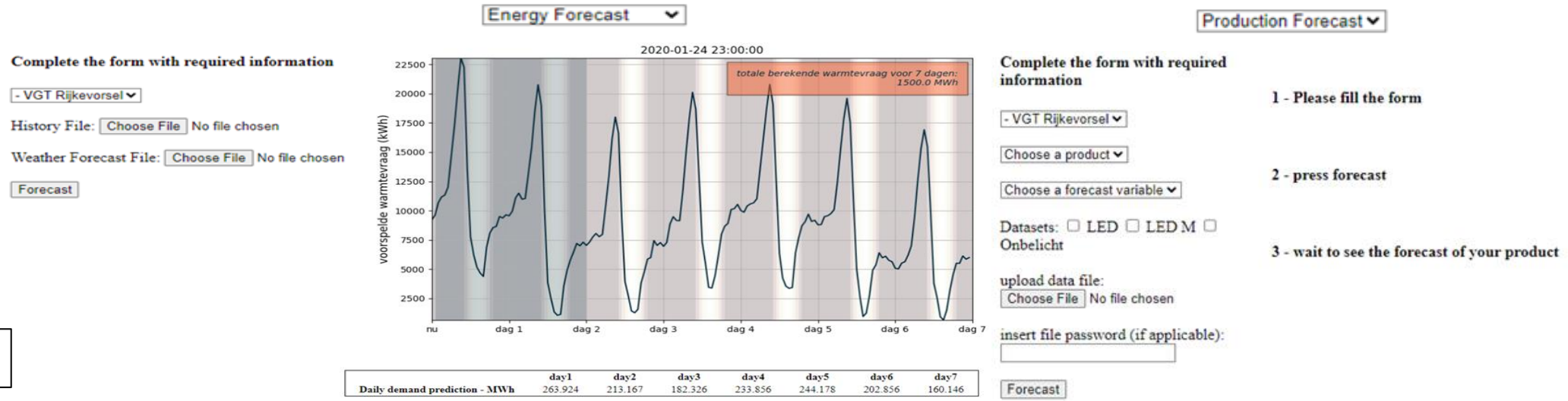
A) A Unique CO_2 emissions calculator for Buildings

(https://www.greendigitalcoalition.eu/assets/uploads/2024/04/EGDC-Case-Study-Method.-Inteligg-c-BEMS.pdf)

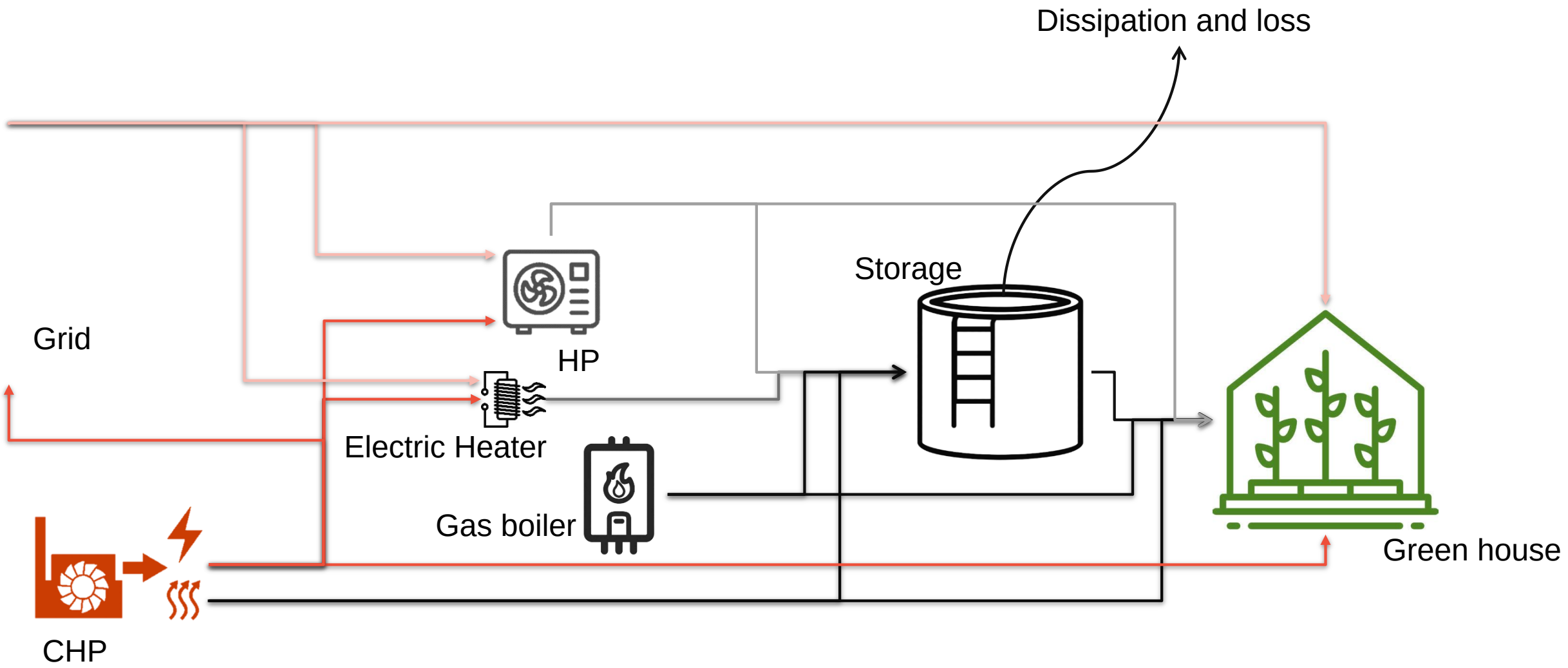
Inputs		
Country	France	
Building Type	**Office**	
Surface area (m^2)	280	
Current natural gas energy usage (KWh)	225	
How is the energy usage measured?	monthly	
When was the meter reading taken?	2021	July

Calculated energy usage in July 2021 with solution	**218**	**kWh/year**
Expected yearly energy usage before solution in an average year	85,109	kWh/year
Expected yearly energy usage after solution	82,438	kWh/year
Yearly energy savings	2,671	kWh/year
Energy saved	3%	
Total carbon savings enabled	540,9	kg CO_2e/year

B) A 1-day ahead energy demand response (forecasting) tool with 85% accuracy



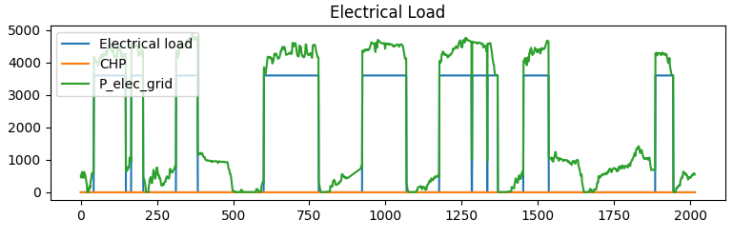
C) Full system optimization

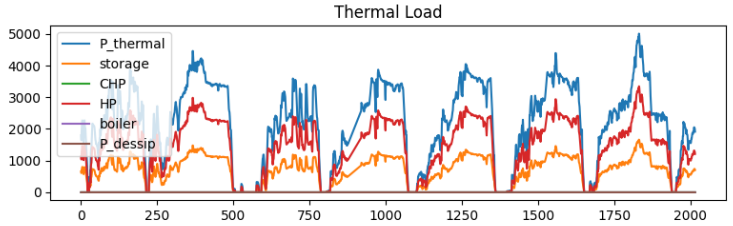


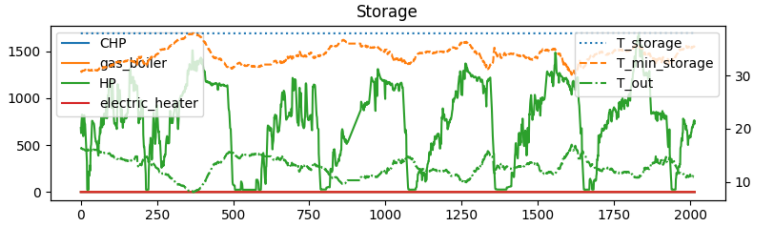
Scenario 1: Cheap electricity price

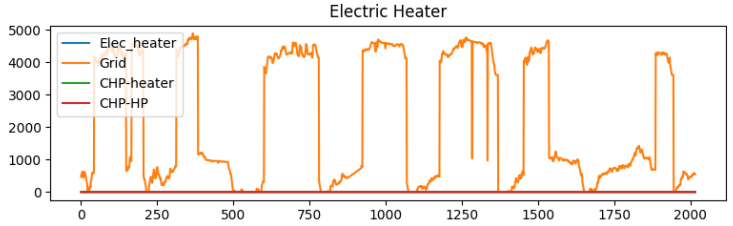
NET METERING/BILLING – AUTONOMOUS SYSTEM

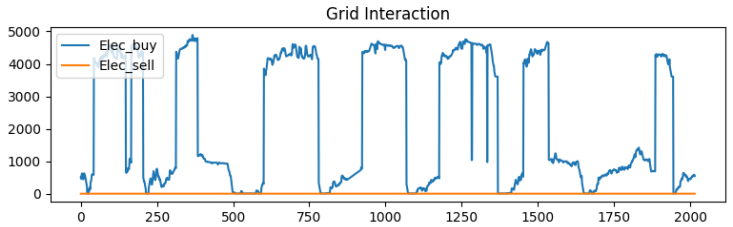
GAS PRICE = 33 €/MWH
ELECTRICTY PRICE = 1 €/MWH
ELECTRICY SELL = 0,00 €/MWH
THERMAL EFFICIENCY CHP = 0,4
ELECTRICAL EFFICIENCY CHP =
DIAMETER STORAGE = 5 M
HEIGHT MAX STORAGE = 10 M
U-VALUE STORAGE = 0,5 W/M²K
T-MAX-STORAGE = 95 °C
T-MIN-STORAGE = 45 °C
V-OUT-STORAGE = 1000 LIT/MIN

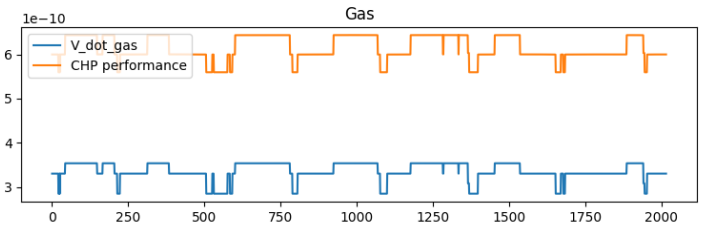












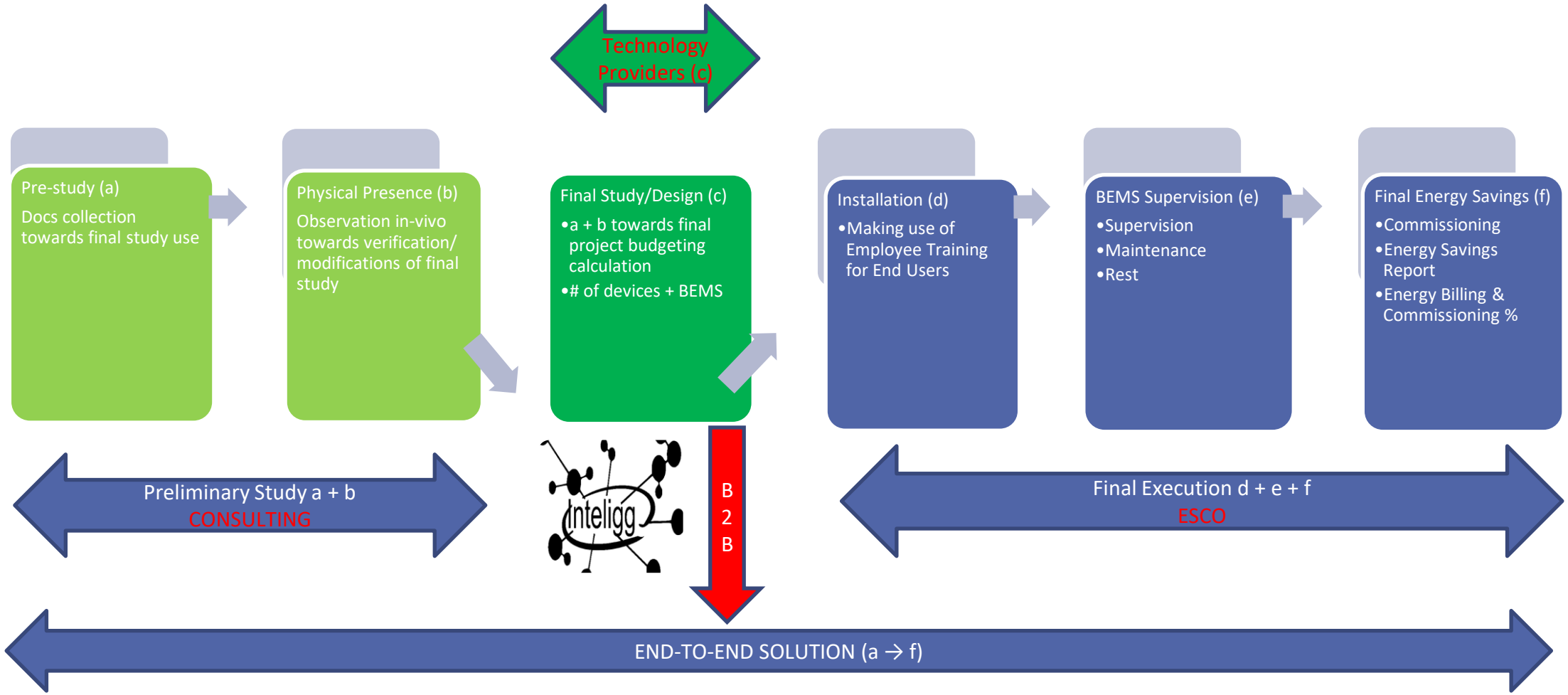
- All power for heating and lighting is bought from the grid.
- Heat pump is more beneficial than electric heater.
- CHP performance and gas consumption is null.
- Storage and HP cover the require heat, the storage temperature is around 40 °C.

SCHOOL – SPORTS CENTER

Floor area:	1,280m^2
Annual energy bill:	EUR €25,738
Annual energy consumption:	282,752 kWh (220.9 kWh/m^2)
Energy prices:	
-Gas	EUR €ct8.0/kWh
-Electricity	EUR €ct23.9/kWh
-Oil	EUR €ct21.9/kWh
Opening hours	5 days x 10 hours
Geographical region	Greece
CO_2 emissions	61.4 tCO_2
BEMS solution implemented:	
Total investment:	EUR €32,000
Operational costs and maintenance:	EUR €3,600 (27€/m^2)
Energy savings:	88.36 kWh/m^2
Energy cost savings:	EUR €27,030
Profit from cost-savings	
Payback period:	1.3 years
CO_2 savings:	25 tCO_2 (41%)

Floor area:	1,874.4m^2
Annual energy bill:	EUR €161,560
Annual energy consumption:	2,007,140 (1070.8 kWh/m^2)
Energy prices:	
-Gas	EUR €ct8.0/kWh
-Electricity	EUR €ct23.9/kWh
-Oil	EUR €ct21.9/kWh
Opening hours	7 days x 14 hours
Geographical region	Greece
CO_2 emissions	333.5 tCO_2
BEMS solution implemented:	
Total investment:	EUR €40,950
Operational costs and maintenance:	EUR €9,000 (29.6€/m^2)
Energy savings:	429 kWh/m^2
Energy cost savings:	EUR €64,727
Profit from cost-savings	€6,472
Payback period:	1.0 year
CO_2 savings:	183 tCO_2 (55%)

AN END-TO-END SOLUTION



INTELIGG Building and System Specifications

No	Building ID	Area	No of Floors	Number of Zones	Number of Control Zones	Number of system	System type	Energy label	Automation level
Ex	Pamplona_001	20*30 m2 (Ground Floor Size)	2 (GF , 1st)	3 (GF office, Gf lobby, 1st floor)	2 (GF, 1st floor)	1 (radiator) / 2 (heatpump)	hot water (radiator)/ Heat pump/ AC/ hot air furnace/ Air handler/ etc	A-G	HVAC/Lighting/Alarms/ Schedules
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

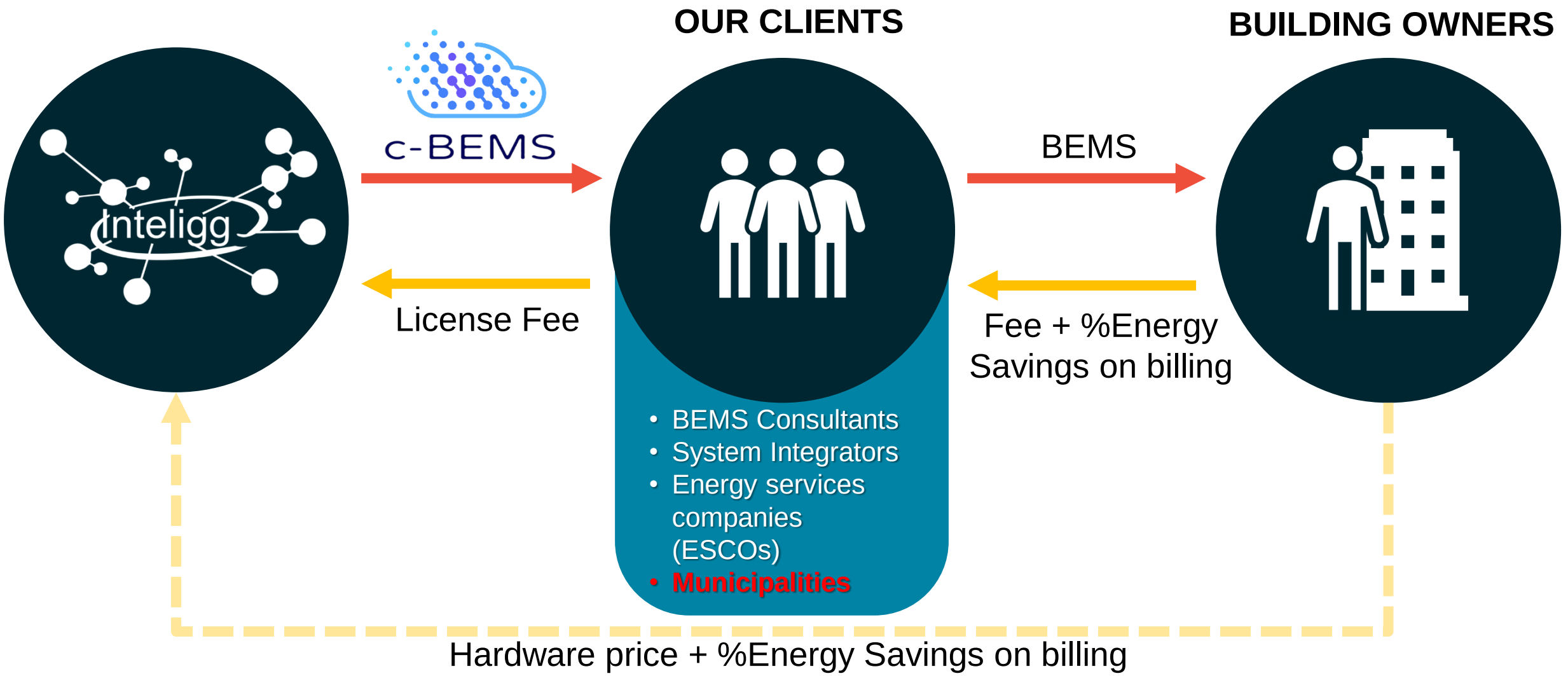
INTELIGG System Specification

No	Building ID	System	Brand/Model	Power	Features	Ethernet Access	WiFi Access	Powerline	Controller board
Ex	Pamplona_001	Heat pump	Daikin	20 kW heating	Heating/Cooling	Yes/No	Yes/No	220VAC/24VAC	Wiring manual
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

FINAL STUDY/DESIGN (3) BUDGET CALCULATION

Description	Quantity	Unit	Total hours of work	Direct cost	Indirect cost	Margin	Risk	Total sale prise (Excl. VAT)
Pre-Study of the project, analysing documents and sheets			6.000					€316.80
Docs and data collection	1.000	pièce	6.000	€240.00	€48.00	€24.00	€0.02	€316.80
Visiting the site to assess the system and components			8.000					€656.40
System assessment	1.000	Sys	4.000	€160.00	€32.00	€16.00	€0.02	€211.20
Network Assessment	1.000	Net	4.000	€160.00	€32.00	€16.00	€0.02	€211.20
Accomodation and Transport	1.000	person	0.000	€200.00	€20.00	€10.00	€0.02	€234.00
Final assessment of saving and budget			24.000					€1,267.20
Energy saving assessment	1.000	Rep	8.000	€320.00	€64.00	€32.00	€0.02	€422.40
Equipment and ordering	1.000	Ord	8.000	€320.00	€64.00	€32.00	€0.02	€422.40
Budget assessment: Devices, man work, energy saving, investment return,	1.000	Rep	8.000	€320.00	€64.00	€32.00	€0.02	€422.40
Device installation and configuration			280.000					€39,245.50
Hardware Installation	1.000	pièce	200.000	€22,350.00	€3,870.00	€1,897.50	€0.10	€28,564.50
Programming	1.000	hour	80.000	€8,300.00	€1,660.00	€555.00	€0.06	€10,681.00
Maintenance and monitoring of system after installation			80.000					€6,336.00
Error and Alarm fixing	8.000	heure	16.000	€960.00	€192.00	€96.00	€0.02	€1,267.20
Updating or requesting a change in the program	8.000	heure	64.000	€3,840.00	€768.00	€384.00	€0.02	€5,068.80
Making annual report of the energy performance of the project			16.000					€844.80
Energy saving analysis report	1.000	-	16.000	€640.00	€128.00	€64.00	€0.02	€844.80

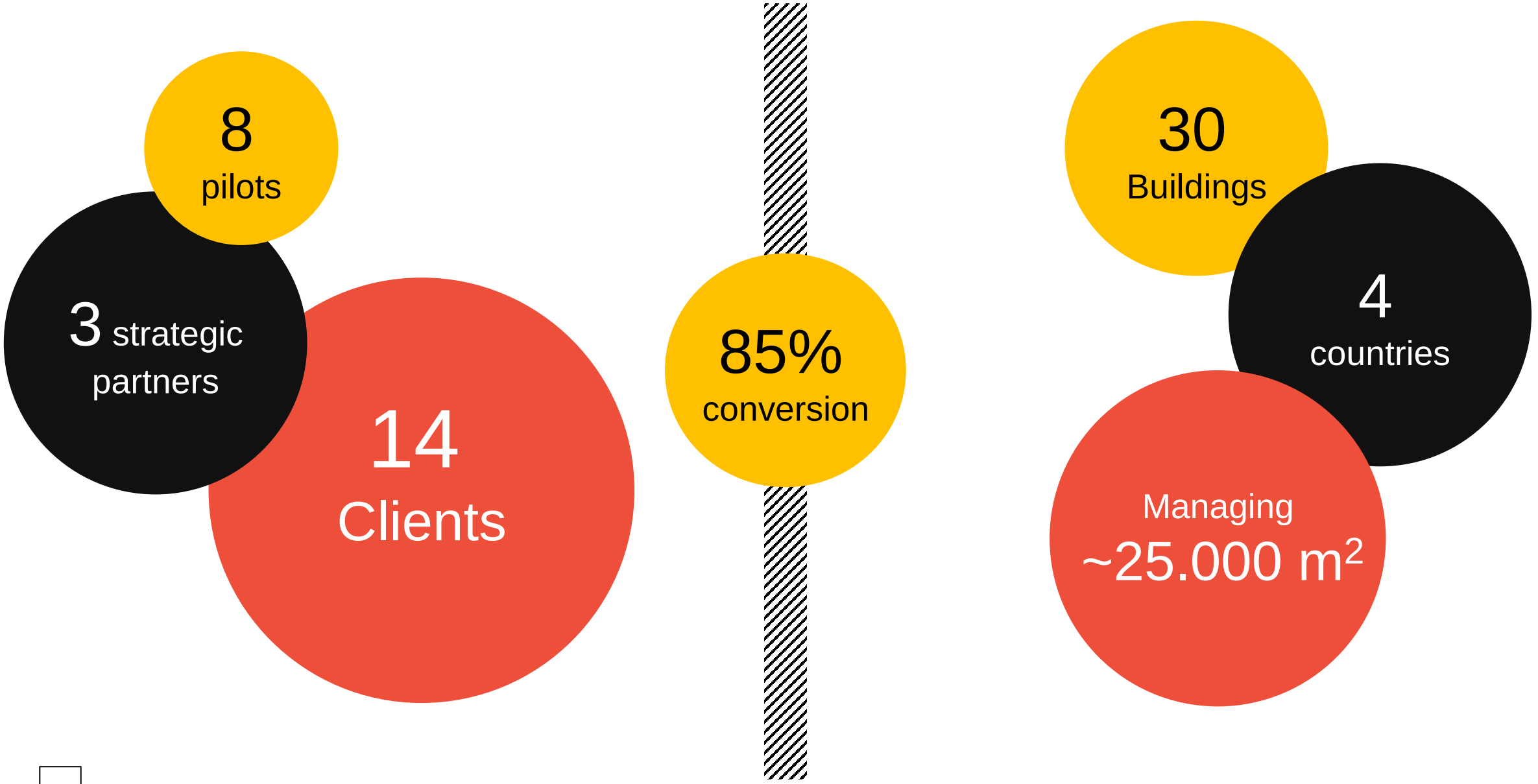
JUST 12-24 MONTHS TO SIMPLE PAYBACK PERIOD (SPP)



PICK THE RIGHT PACKAGE FOR YOUR BUILDINGS

	Bronze	Silver	Gold	Platinum
Monthly subscription	150 €	300 €	750 €	1500 €
Control technique	Weekly schedule + Special days	+ Occupancy Prediction	+ AI control	+ AI control
Data Points	< 100	100 – 250	250 – 500	> 500 points
Zonal Control	3	4-10	11-30	Unlimited
Users	2	5	10	Unlimited
Support	15’ demonstration	30’ demonstration	30’ demonstration 60’ support	30’ demonstration 120’ free support each year
+ % Pricing on Energy Savings			10%-25% Profits sharing with Our clients	

DIVERSE CLIENTS DRIVING 1.8M€ REVENUE (2024)



TRACTION & GREAT EXPERIENCE ON PUBLIC/PRIVATE CALLS FOR FUNDING

- **8 Pilots with 85% conversion to clients**
- **14 Clients in 4 countries (GR, BE, LU, ES)**
- **30 Buildings (20 Public – 10 Private (Hotels, Offices, Industry, etc) of 25Km^2 & 2 Road tunnels**
- **Secured 1.2MEUROS Public contract (2 ½ -years duration, 2025-2027)**












- Subsidized national programs i.e., “ELECTRA/ΗΛΕΚΤΡΑ“ for public buildings (funding up to 70-80%)
(https://hlektra.gov.gr/files/2024_06_04_%CE%97%CE%9B%CE%95%CE%9A%CE%A4%CE%A1%CE%91_%CE%A6%CE%95%CE%9A_B_3167.pdf)
(https://ypen.gov.gr/platforma-exoikonomisis-energeias-ypodomon-dimosiou/)
- Subsidized international competitive programs (Horizon Europe, Interreg, LIFE, EIT, EIC, etc)

A NATIONAL AND INTERNATIONAL TRACTION

We already have industries, hotels, offices, schools, sports centers using/looking for our service

- *4 letters of intent signed/to be signed*

ΔΗΜΟΣ ΝΕΑΠΟΛΗΣ-ΣΥΚΕΩΝ BETA — *16 Buildings (10 schools-6 offices)*

Luxury Hotel

CITY OF THESSALONIKI — *>100 Buildings*

- *12 Major Companies-Organizations in discussion*

Edison. / Powered by MVM · AT&T · CARBON TRUST · Deloitte. · T · Hitachi Solutions · protergia · DASSAULT SYSTEMES · DOTSOFT TECHNOLOGY + PROJECTS + SOLUTIONS

- *Various clients in the pipeline*

OMEGA GROUP CHAUFFAGE - SANITAIRE - VENTILATION · FARCOM COSMETICS MANUFACTURING & DISTRIBUTION · ΔΗΜΟΣ ΘΕΡΜΗΣ · Balakanakis Olympic fruit · dvc · GovTech Connect · GovTech Global Alliance · digiGOV innoHUB

How they want to use c-BEMS

They want to make use of data patents profile for their residential energy demand forecasting clients

Edison. / Powered by MVM

They are looking for an AI-driven energy consumption tool on HVAC/lighting for their large enterprise customers

AT&T

They are looking for a real-time CO_2 emissions calculator regarding the residential and industrial sectors to be adopted towards EU's climate change objectives

CARBON TRUST

They are looking for a system integrator that can connect present SCADA system with Smart LED/BEMS

GlobiLED LED LIGHTING · TEXNOP ENGINEERING

OUR COLLABORATIONS UNTIL NOW

Institutional actors & facilitators of the innovation ecosystem

egg enter · grow · go

MIT Enterprise Forum Greece

CAPSULE

gazelle

SEV Hellenic Federation of Enterprises

ENTERPRISE GREECE INVEST & TRADE

GovTech Global Alliance

Universities & Research Centres

National Technical University of Athens

ARISTOTLE UNIVERSITY OF THESSALONIKI

ΠΑΝΕΠΙΣΤΗΜΙΟ ΠΑΤΡΩΝ UNIVERSITY OF PATRAS

INTERNATIONAL HELLENIC UNIVERSITY

HELLENIC REPUBLIC National and Kapodistrian University of Athens EST. 1837

UMONS Université de Mons

Universidad del País Vasco Euskal Herriko Unibertsitatea

CERTH CENTRE FOR RESEARCH & TECHNOLOGY HELLAS

DEMOKRITOS

Industrial, Public & Investment Partners

FARCOM COSMETICS MANUFACTURING & DISTRIBUTION

TEXNΩP ENGINEERING

ΔΗΜΟΣ ΘΕΡΜΗΣ

Balakanakis Olympic fruit

Helvar

OMEGA GROUP CHAUFFAGE - SANITAIRE - VENTILATION

Deloitte.

dvc

TRIDIUM

GlobiLED LED LIGHTING

protergia

Edison.

CARBON TRUST

iNNORA

ELEVATE GREECE BETA national startup point

BUSINESS ANGELS OF SLOVENIA

FOREST VALLEY INSTITUTE

eit Climate-KIC

NBG Business Seeds

EUROPEAN GREEN DIGITAL COALITION

EUIPO ΓΡΑΦΕΙΟ ΔΙΑΝΟΗΤΙΚΗΣ ΙΔΙΟΚΤΗΣΙΑΣ ΤΗΣ ΕΥΡΩΠΑΪΚΗΣ ΕΝΩΣΗΣ

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