

Your Technological Partner For a Rational use of Energy



# You speak Energy We speak Technology

Together, we enable a rational use of energy















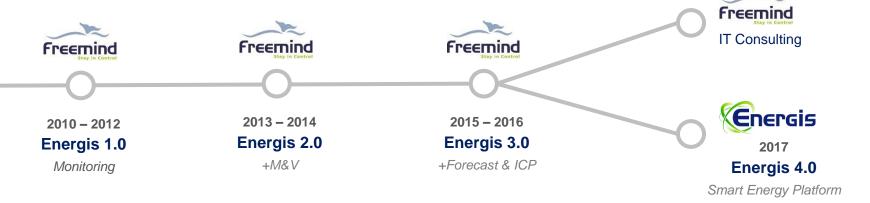


#### About us

# A bit of history

At Energis, we specialise in ICT solutions. Our aim is to optimise the energy performance of buildings by empowering energy services providers with the most innovative technologies.

The company was created in July 2017 as the result of years of experience and developments that started at Freemind Group in 2012, a Belgian company specialized in ICT projects and consulting services.



**Energis SA**Founding members



**Angelo Santoro**CEO and Founder



Frederic Wauters
Co-founder
and Product Manager



Lisiane Goffaux
Co-founder
and CEO of Freemind



Mario Rubino
Co-founder
and Country Manager Italy



#### Nieuwsbrief Energie- en Onderhoudsprestatiecontracten 2017 Ingenium zet in op energiemonitoring

INGENIUM was op zoek naar een energiemonitoringpakket dat bruikbaar is om in te zetten in energieefficiëntieprojecten. Energis biedt hiervoor de nodige mogelijkheden. INGENIUM en Energis sloten hierover een partnership.

Nicolas Vyncke en Angelo Santoro

van het pakket en het uitwerken en toevoegen van nieuwe eigenschappen.

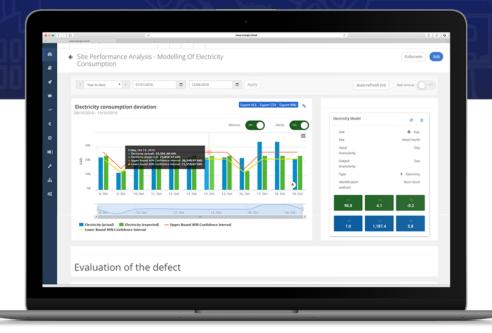
Het bijhorende persbericht kan u hier nalezen.

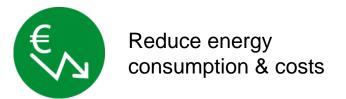
#### Meer informatie?



ir. Matthias Zuliani expert energy Matthias.zuliani@ingenium.be

# What should you expect from Energis.Cloud?







Be environmentally responsible



Improve comfort

# **Our Markets**

Belgium

Italy

France

Netherlands

Luxemburg

Spain

UK

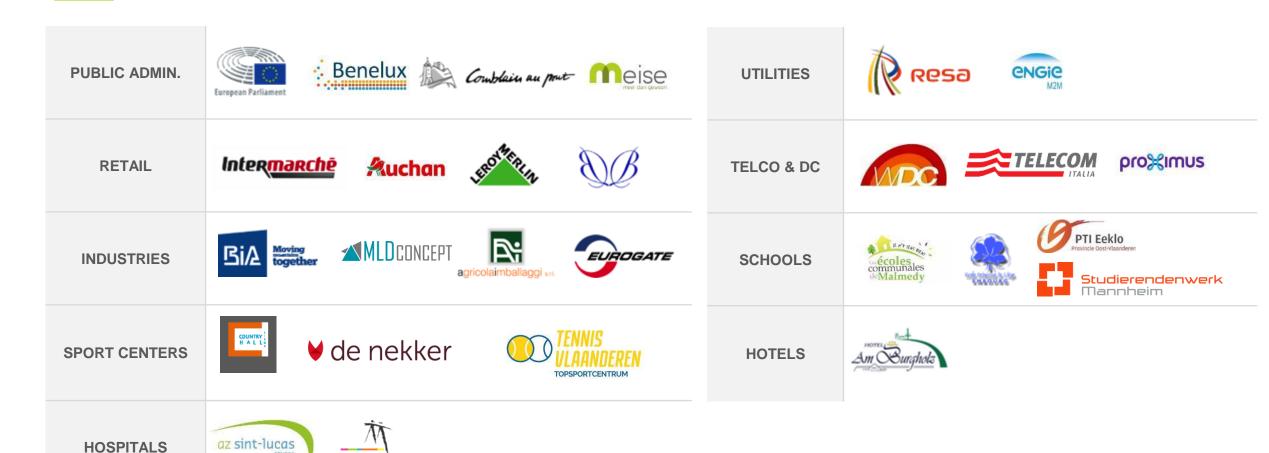
Germany

Portugal



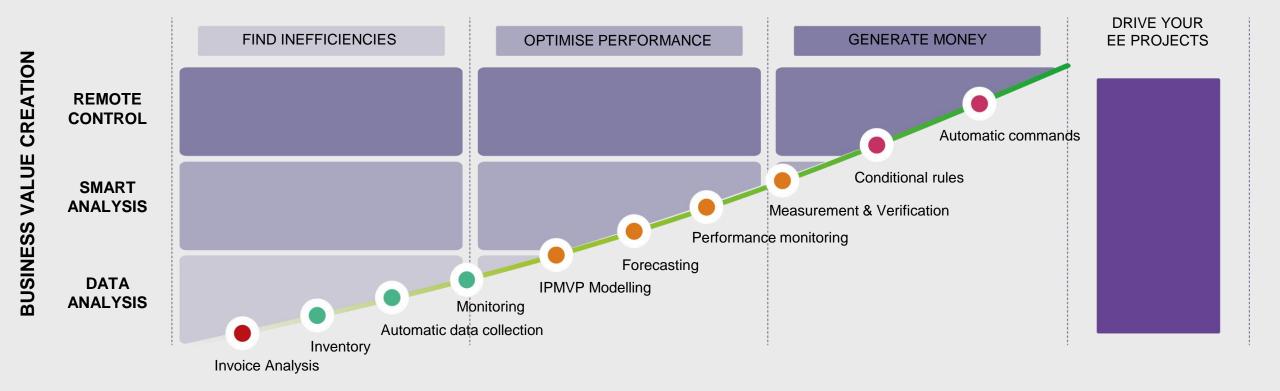
#### **End-users**

#### Final customers



Cité de l'espoir





# Take Control over Energy Performance

- Digitise, verify and analyse thousands of invoices in just a few clicks
- Collect and analyse high volumes of data from a variety of sources
- Define baselines according to IPMVP guidelines in a few clicks
- Remotely control devices to optimise energy use, storage and production
- Comply to regulations via certified project management & reporting tools



# Invoice Verifier

Digitise, verify and analyse thousands of utility invoice in just a few clicks

# Standard Analysis

Easily identify inefficiencies and Quick Wins thanks to Big Data and IoT

# Advanced Analysis

Reach Optimal Energy Performance easily thanks to Artificial Intelligence

# Remote control & Optimisation

Automate optimisation schemes & take control of devices remotely

# Two-directional communication

Simplify data acquisition and remote control









#### Bi-directional Data Communication



Invoices / Contracts	DSO	MMR	AMR	Weather Services	loT	Data Loggers	BMS / SCADA	Raspicy
		File upload						

# We simplify data acquisition

Automatically Collect data from a variety of sources

Invoices / Contracts	DSO	MMR	AMR	Weather Services	loT	Data Loggers	BMS / SCADA	Raspicy
₽DF	爱*	E)	XLS CSV {;} JSON	Weatherbit.io	sigfox LogRa		SIEMENS  Building Technologies  Johnson Controls  Honeywell Enterprise Buildings Integrator  TRIDIUM PRIVA	Raspicy is our own HW. It is naturally integrated with Energis. Cloud, highly scalable and customisable. It uses Modbus
		File Upload  {;}  JSON				Trans	PO	protocol.



#### **Invoice Verifier**

#### Save up to 30 minutes/invoice

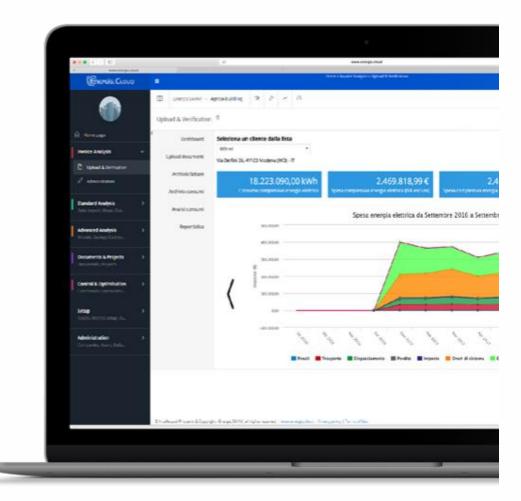
#### digitised and verified!

Did you know that 10% of customer invoices contain errors?

- √ Digitise and upload thousands of invoices in one click
- √ Verify their correctness effortlessly
- ✓ Transform errors in €€€

**ERP/SAP-integrated** 

Benchmarking





# Easily identify inefficiencies and Quick Wins thanks to Big Data and IoT

- Organise and analyse energy measures to identify easily the sites and the equipment that consume the most
- Get alerts in case of anomalies
- Take immediate corrective actions that will generate savings
- Inform your clients through interactive dashboards and reports
- Centralise and manage documents in accordance with the ICP guidelines and be able to finance your EPCs
- Enhance collaboration among all people active in the project

Weather normalisation

**Production normalisation** 

Benchmarking

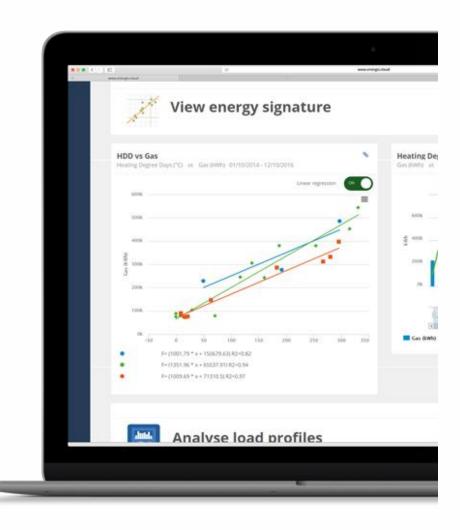






Memos

**Emissions monitoring** 



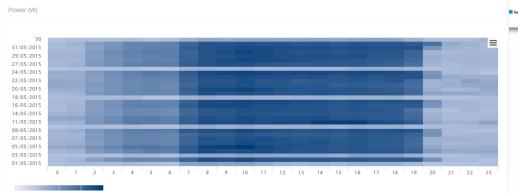


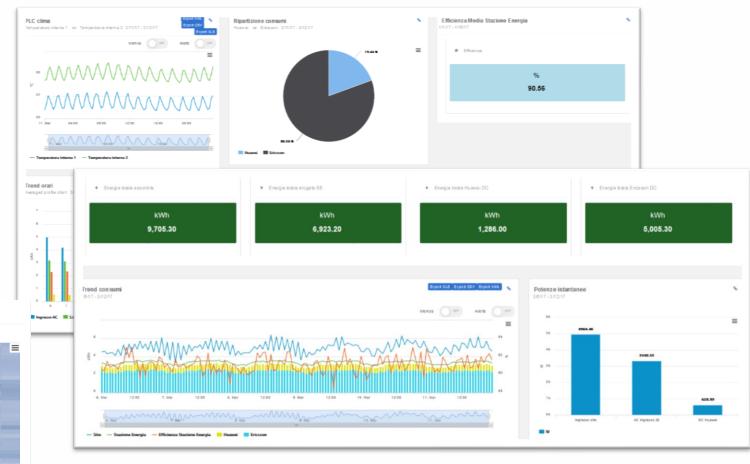
#### **Analysis Views**

Visualise your data in views such as profile chart, pie chart, heat map, single value, ranking chart or table.

Easily derive new KPIs (e.g kWh/m2, kWh/num. of occupants) for your business needs with formulas.

Implement weather normalisation in your analysis with built in heating/cooling degree days formulas.







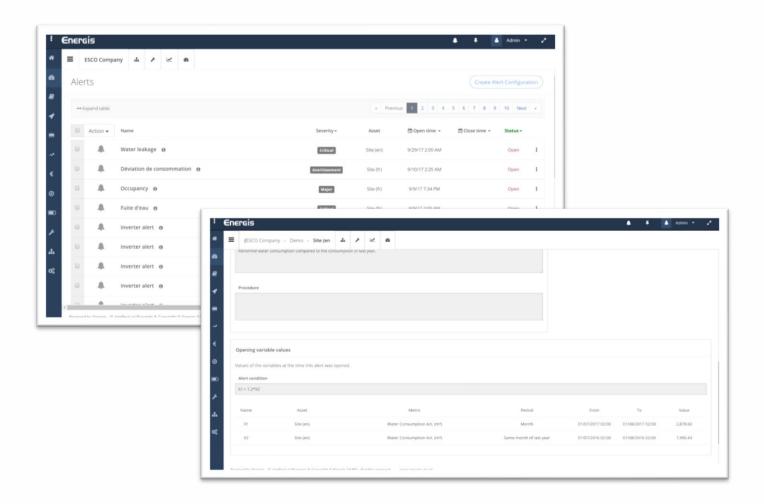
#### **Alerts**

Use straightforward rules to generate alerts.

Get alerts straight in your (client's) mailbox.

Define corrective actions to be taken when alerts are generated.

Document the results of actions taken and close the alert when appropriate to do so.

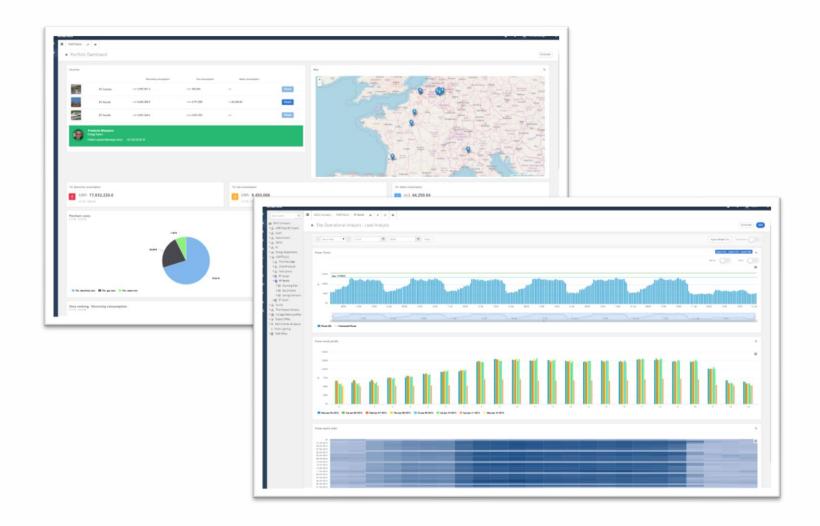




#### **Dashboards**

Use various analysis views to quickly build personalised dashboards.

Use interactive dashboards to benchmark, analyse, monitor and report the energy performance of the sites in a continuous way so that corrective actions can be taken.





#### **Reports**

Apply the same approach for building reports as done for creating dashboards.

Combine text and pictures to create reports that immediately convey the appropriate message.

Automate the sending of reports to the right people on the right time, using automatically updated consumption and production data.

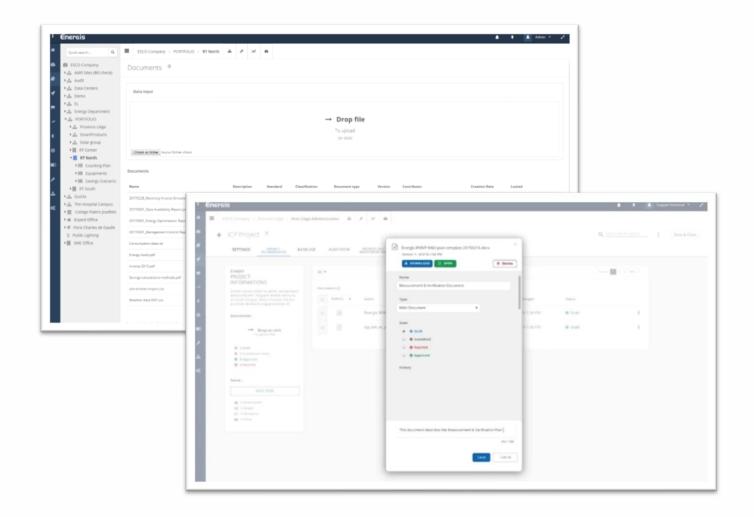






#### **Document Management**

Upload and manage documents related to the site and managed assets.





#### **Project Management**

Upload and manage documents related to energy-related projects.

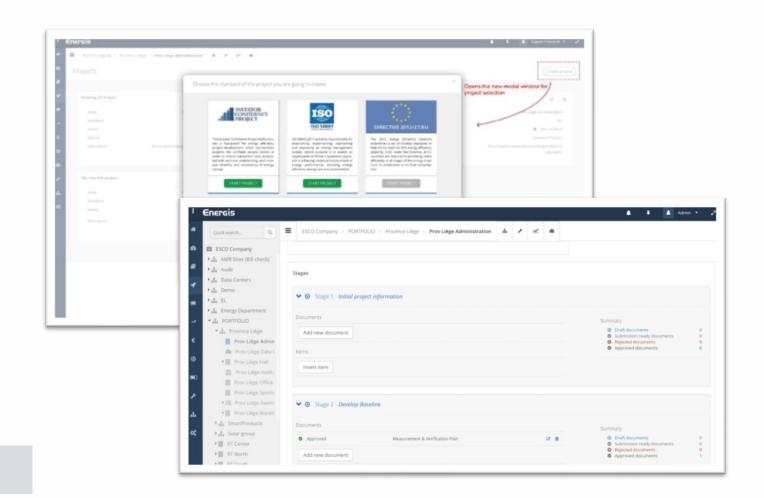
Develop bankable energy projects in accordance with the Investor Confidence Protocol guidelines.

Use the predefined process and invite accredited auditors to review and approve project data.

Automate the reporting of your energy performance and energy management activities following your obligations under the ISO 50001 and/or other standards.



CERTIFIED SOFTWARE PLATFORM





# Reach Optimal Energy Performance easily thanks to Artificial Intelligence

Create baselines in accordance with IPMVP guidelines in just a few clicks!

- Consumption is influenced by numerous factors (i.e. weather conditions and building occupation)
- Identify and link them to consumption using AI algorithms
- Use the baseline to calculate energy savings before and after the implementation of your projects, under same conditions
- Validate your EPCs.

Optimal Performance identification

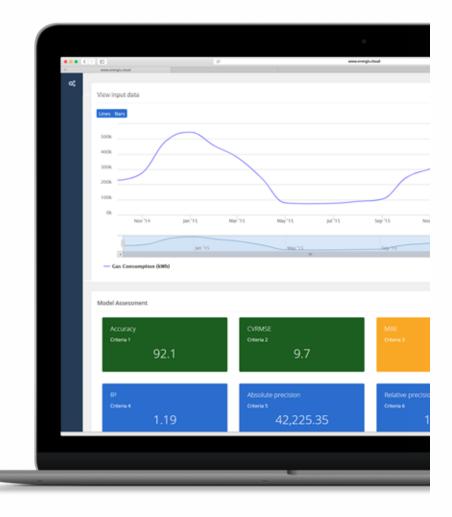
Budgeting and forecasting

Data quality management

SMART alerts





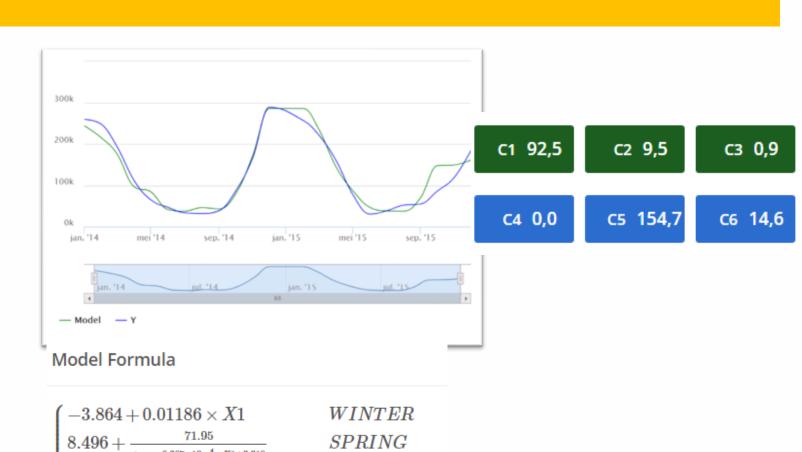


#### Modelling

Identify models easily and rapidly for your sites and equipment in accordance with the EVO IPMVP\* and ASHRAE 14\*\* guidelines.

The most advanced modelling engine in energy management identifies those parameters that are instrumental for the energy behavior of systems, buildings and sites

Use these models to detect over-consumption automatically, correct missing data, forecast your future consumption/production, baseline and make budgeting.



SUMMER

AUTUMN

 $-2.844 + 0.01177 \times X1$ 

<sup>\*</sup> IPMVP: International Performance Measurement and Verification Protocol

<sup>\*\*</sup> ASHRAE: American Society of Heating, Refrigerating and Air-Conditioning Engineers



#### **Smart Alerts**

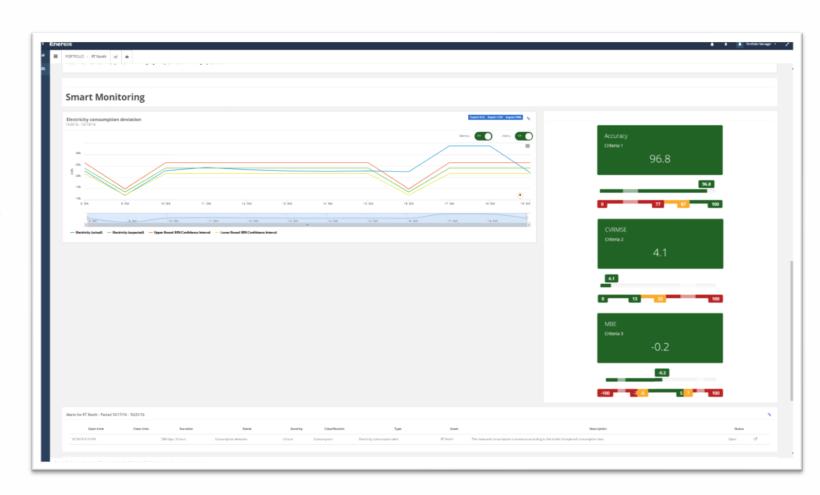
Use baselines to generate smart alerts based on deviations from expected behavior.

Identify baselines for your sites and equipment in accordance with the EVO IPMVP\* and ASHRAE 14\*\* guidelines.

The most advanced modelling engine in energy management identifies those parameters that are instrumental for the energy behavior of systems, buildings and sites.

Use baselines to forecast expected behavior, before and after implementing energy projects.

Accurately calculate deviations (in energy and monetary value).





#### **Forecasting**

Determine future consumption and costs. Make accurate utility budgeting.

Determine weather dependent power generation.





#### **Measurement & Verification**

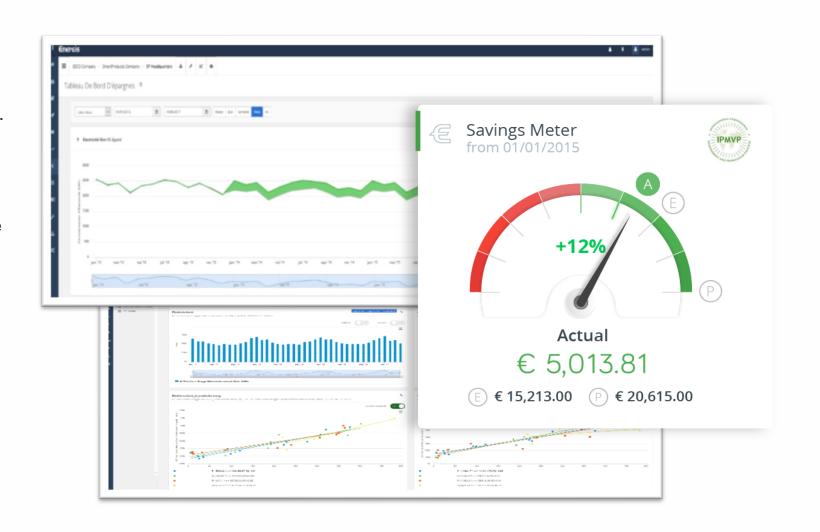
Determine actual savings at site and/or equipment level as a result of energy projects.

Savings are determined by comparing measured use before and after the implementation of a project, making appropriate adjustments for changes in usage or environmental conditions.

Avoid discussions using IPMVP-approved calculations.



As the IPMVP is used to verify the accuracy of all calculations, Energis.Cloud is seen as the preferred platform to structure, guide and monitor Energy Performance Contracts.





# Remote control & Optimisation

# Take control of devices remotely & automate the optimisation of Energy Performance

#### Correct consumption anomalies directly from your desk!

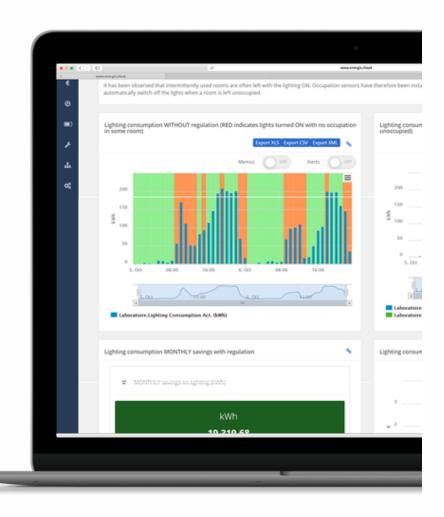
- Be alerted when consumption anomalies are detected
- Commands are sent to the technical system on site based on your rules
- Anomalies are corrected and the energy usage optimised

#### **Boost your savings**

- Stop immediately energy waste
- Reduce intervention costs & time
- Improve the service you offer to your customers

Optimisation schemes

Remote control





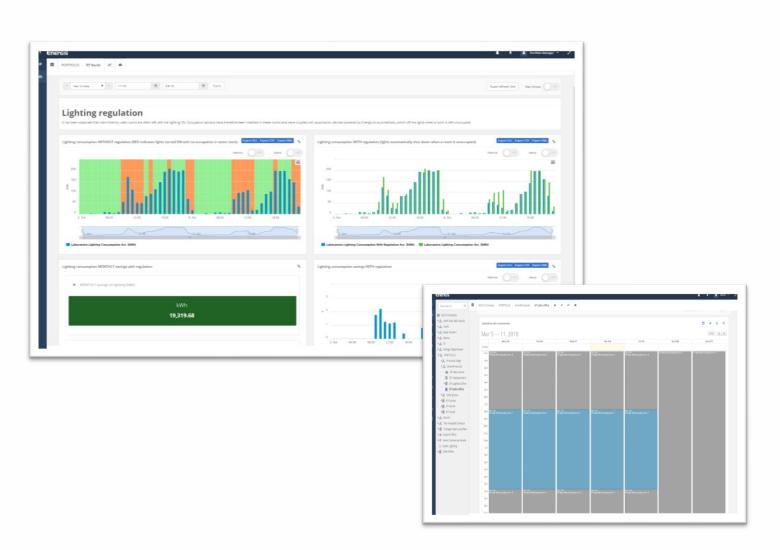
# **Remote control & Optimisation**

#### **Automated Optimisation**

Automate actions based on thresholds, alerts and expected deviations from baselines.

Retrieve information from other sources like reservation systems and calendars to determine actions to be taken.

When available, Energis.Cloud can be linked to a building management platform to execute commands through the existing control system.





### **Two-directional communication**

#### **Direct Data acquisition**

upload files in Energis.Cloud csv format

#### Connectors

- BMS/SCADA
- weather services
- DSO
- IoT





#### Raspicy data loggers

- Highly scalable and naturally integrated with Energis.Cloud
- Data flow monitoring in real time
- Flexible and robust, fit for any indoor & outdoor environment, even the least common ones:







Lifting cranes at harbours

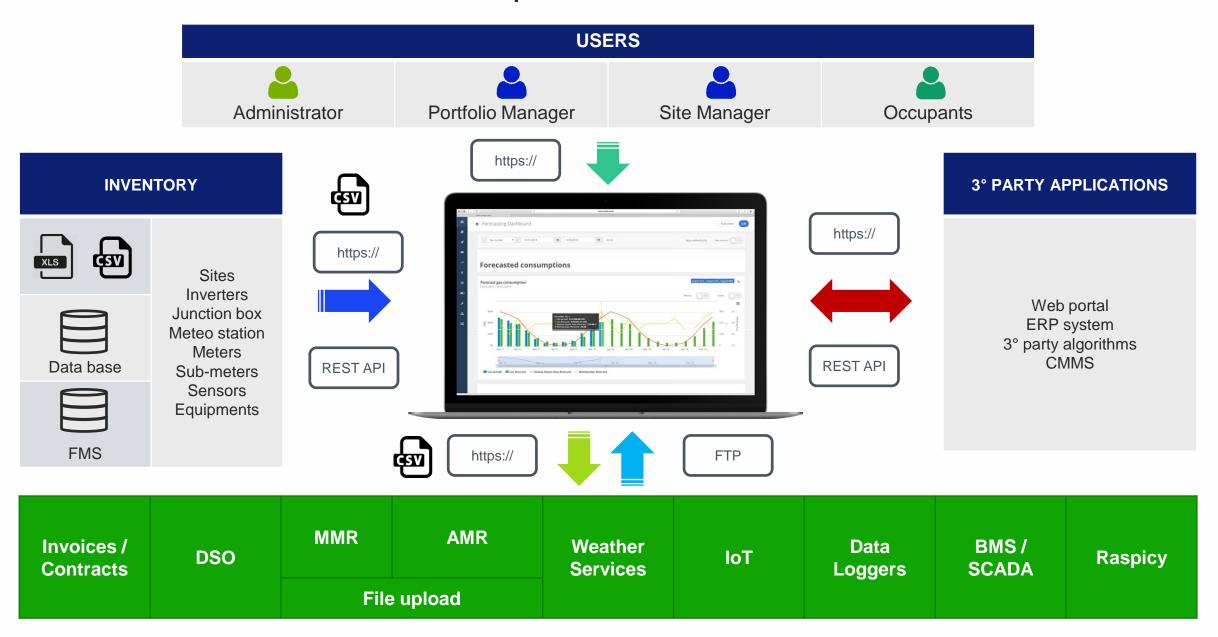
Breweries silos

Cement silos



**ON DIN RAIL** 

# Open Platform



# YOU SPEAK ENERGY WE SPEAK TECHNOLOGY Together, we enable a rational use of energy



YOUR TECHNOLOGICAL PARTNER

Do you wish to take your energy offer to the next level? We can work hand in hand with you to develop *your* ideal solution.

#### Contact us:

info@energis.cloud









#### **Our Offices:**

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