

**smarkia**  
50001

# Main features

V8



**smarkia**

# > INTEGRATED ENERGY MANAGEMENT SYSTEM



Definition of global energy policies



Automatic energy planning and review



Definition and continuous monitoring of energy objectives, targets and implementation plans



Operational monitoring and control



Simplification of internal audits of the EnMS and management reviews



Full compliance with ISO 50001 and IPMVP



And all the features of Smarkia Monitor

## > WHY SMARKIA?



### **Flexibility**

Multi-vendor,  
multi-protocol,  
multi-energy



### **Simplicity**

A comprehensive energy  
management platform



### **Cost and time efficiency**

Save time and expense at  
all levels of the process



### **Reduction of environmental impact**

Helps to reduce CO2 and  
other greenhouse gas  
emissions



### **Scalability**

With the SMARKIA Cloud  
platform you can manage  
all your measuring points



### **Accessibility**

Anywhere, anytime



### **Security**

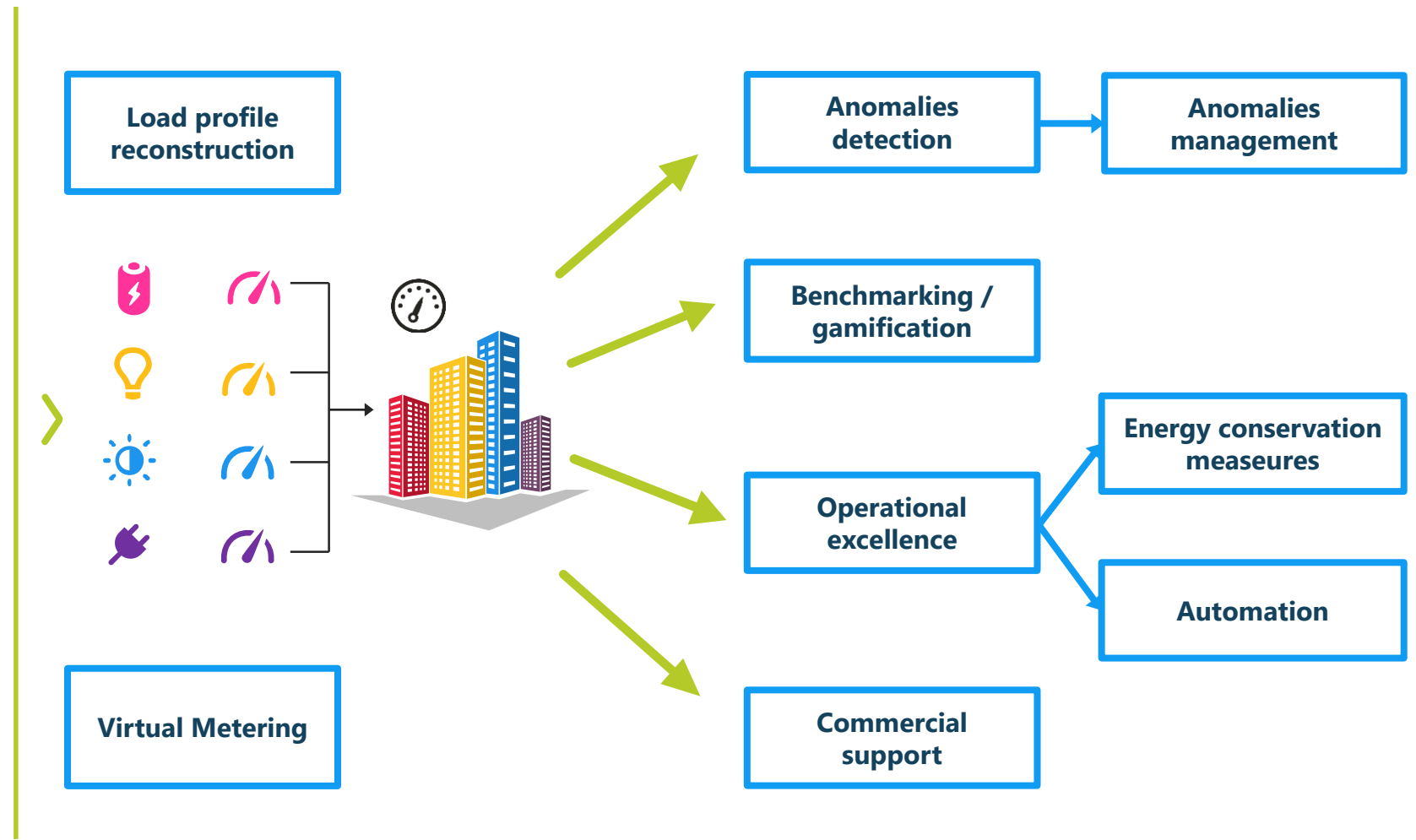
SaaS platform with  
maximum security and  
confidentiality



### **Fast, easy implementation**

No licences or specific  
hardware are required.  
Minimal set-up time and  
cost

# > AI-POWERED ENERGY ANALYTICS





## > TELEMETRY

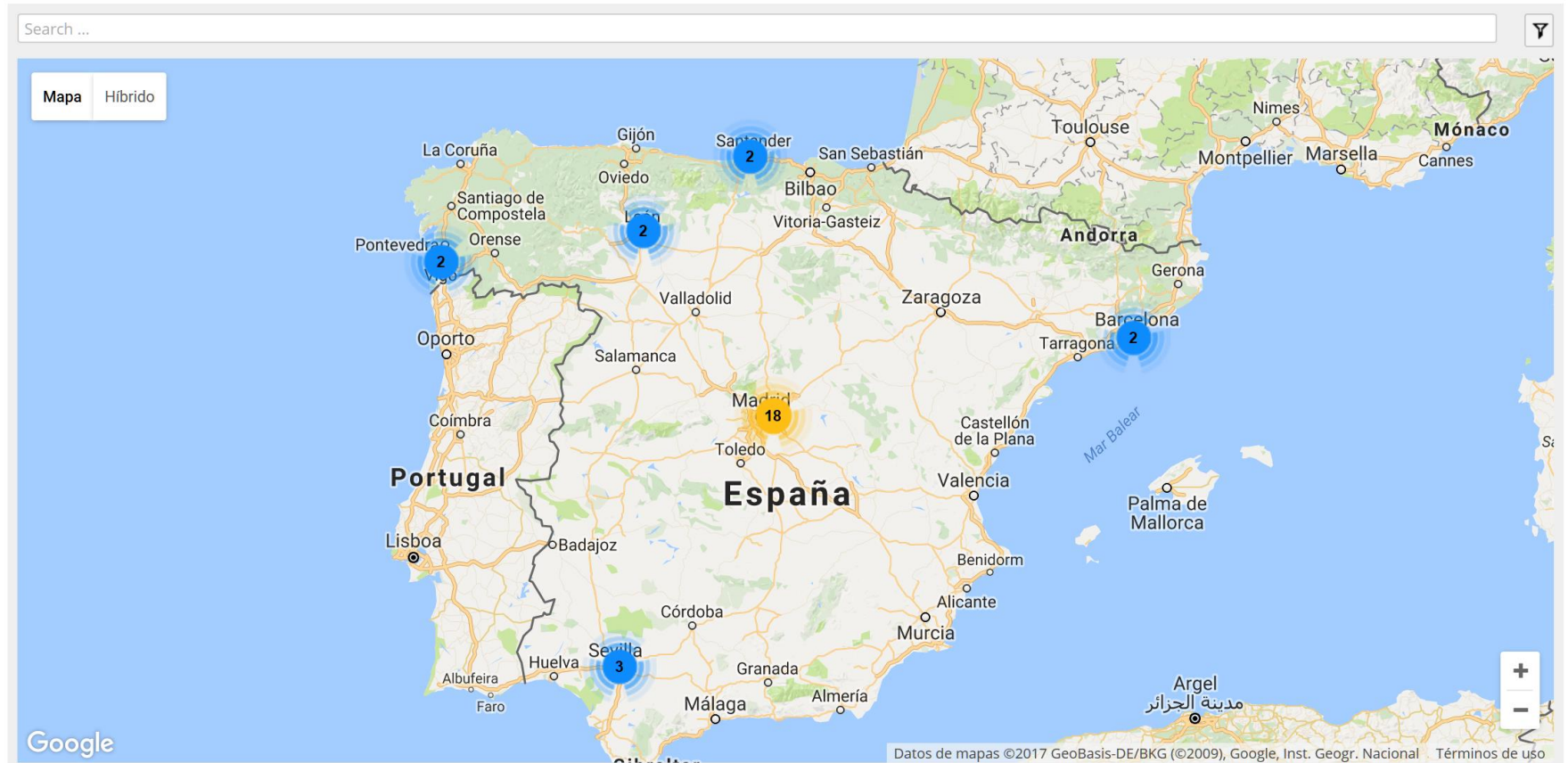


- › Multi-Energy monitoring (electricity, gas, water...)
- › Agnostic regarding measurement technology
- › Compatible with new IoT protocols (MQTT, Sigfox ...)
- › Multiple read frequencies (including Real Time)

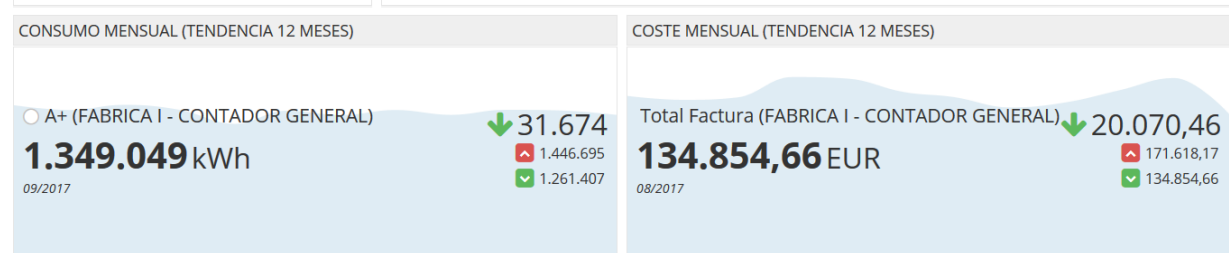
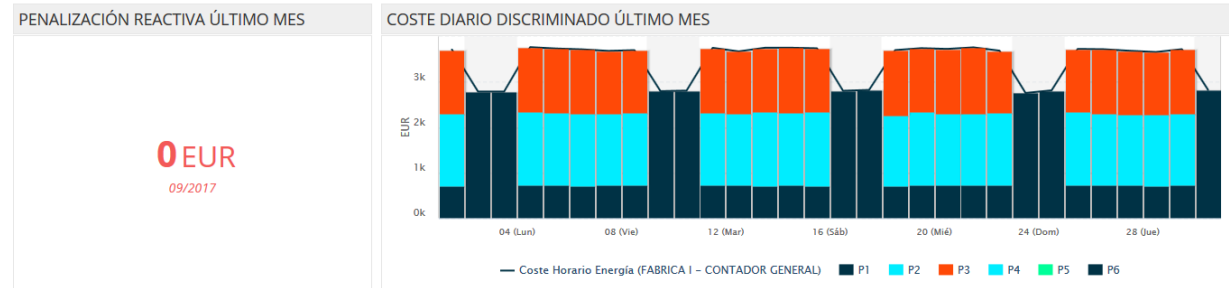
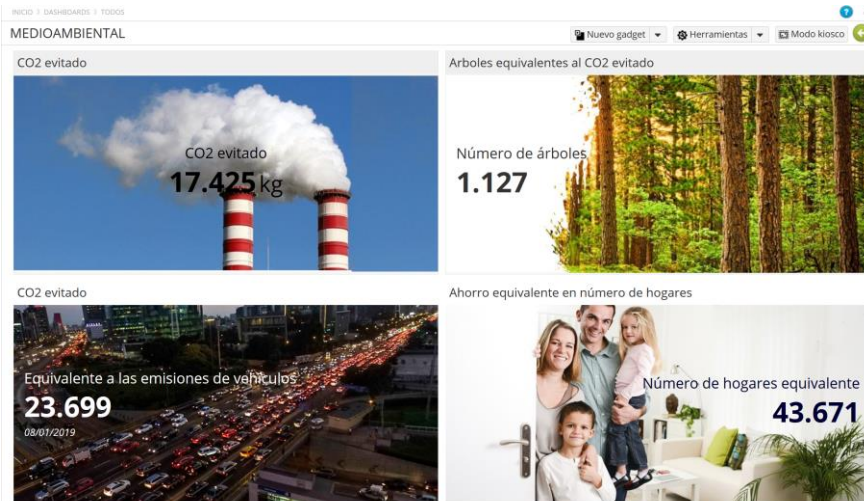
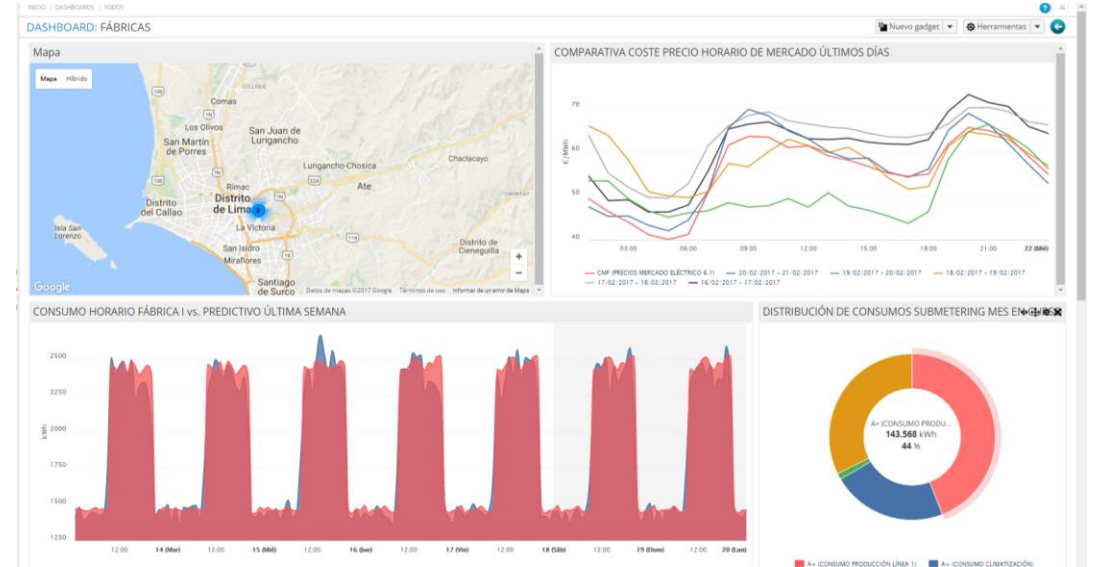
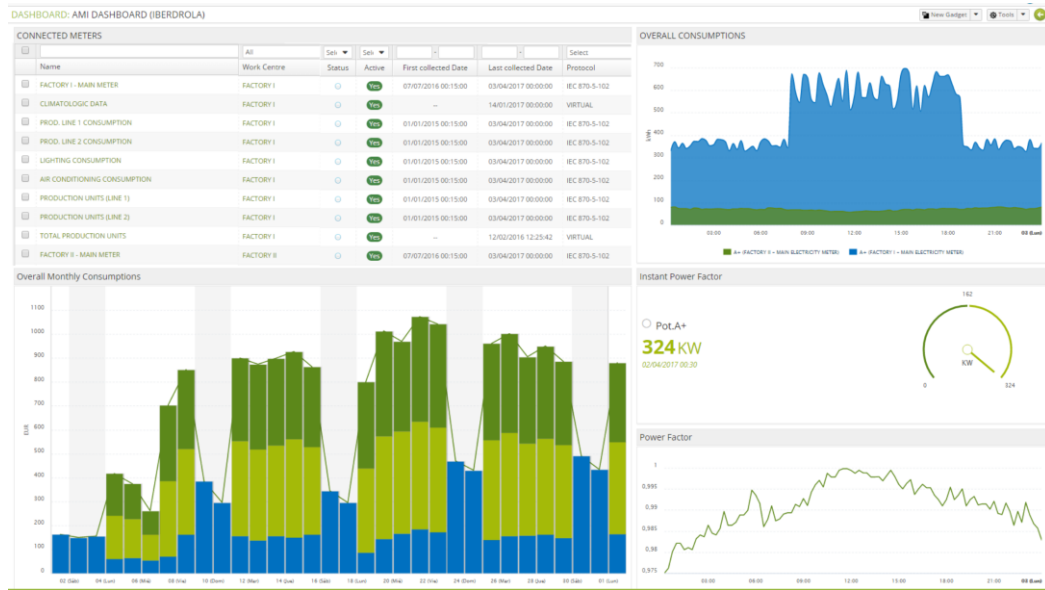
# > GEOLOCATION

## METETING DEVICES

Hierarchy List **Map**

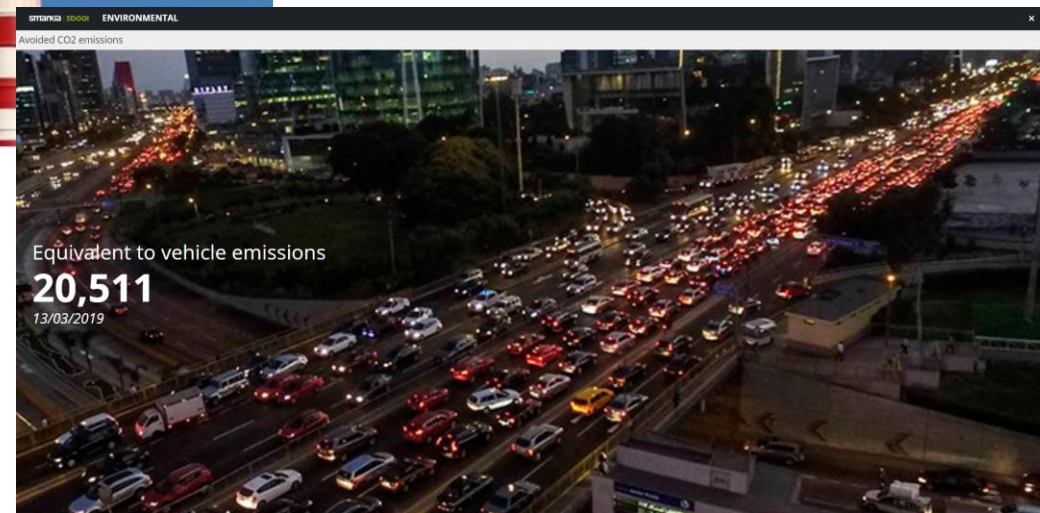
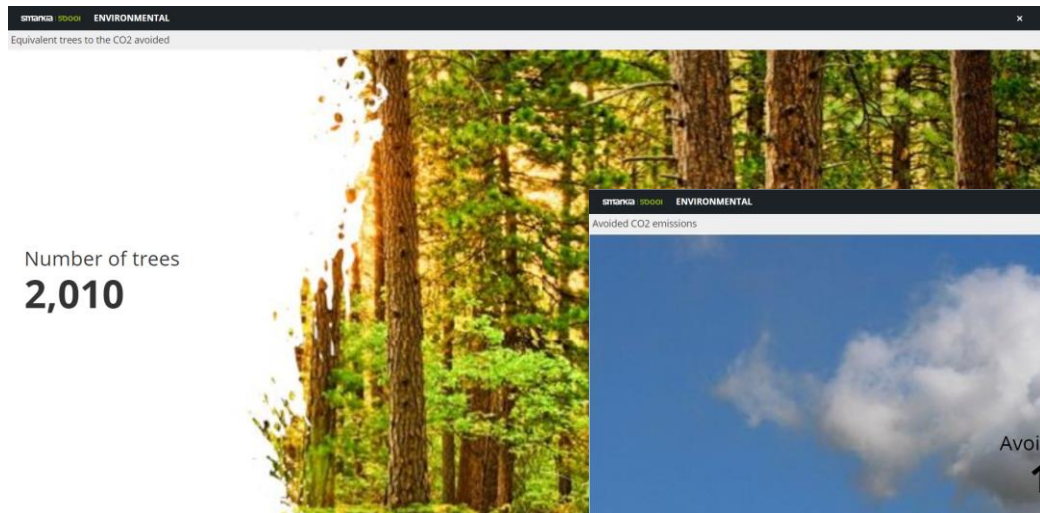


# CUSTOMIZED DASHBOARDS



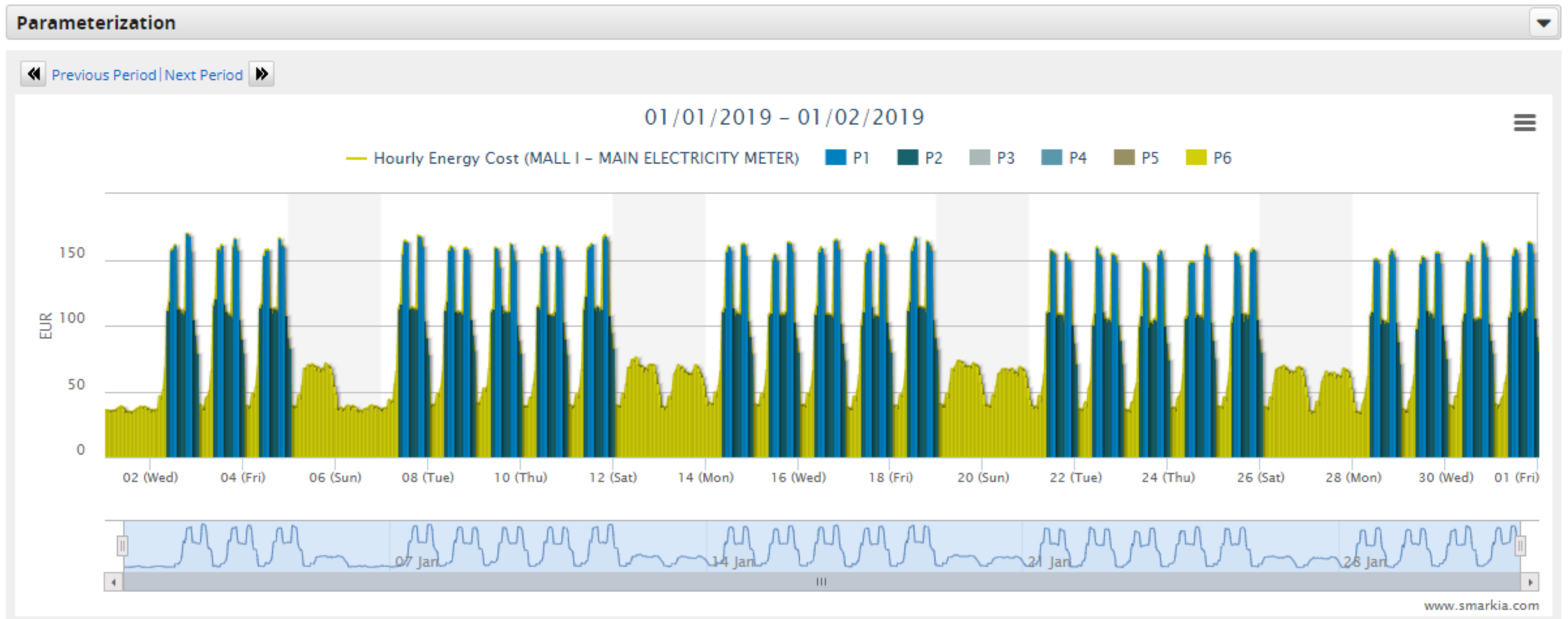


# > KIOSK MODE





# > MULTIPLE MAGNITUDES (TECHNICAL, ECONOMIC, ENVIRONMENTAL...)

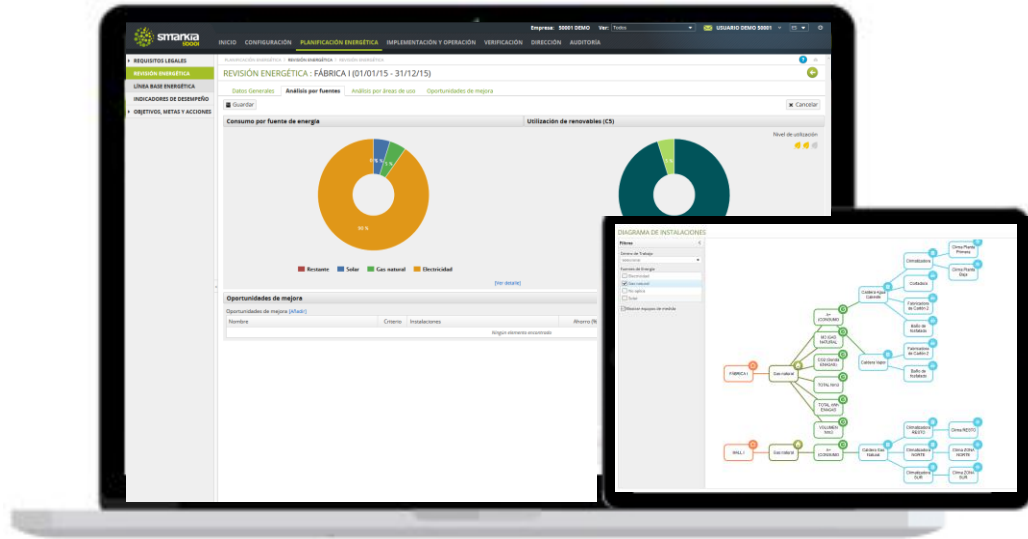


## > DEFINITION OF GLOBAL ENERGY POLICIES

- › Smarkia 50001 offers simple tools to plan all the activities needed to implement different energy policies (ISO 50001 e IPMVP) and compliance with legal requirements



## > ENERGY PLANNING AND REVIEW

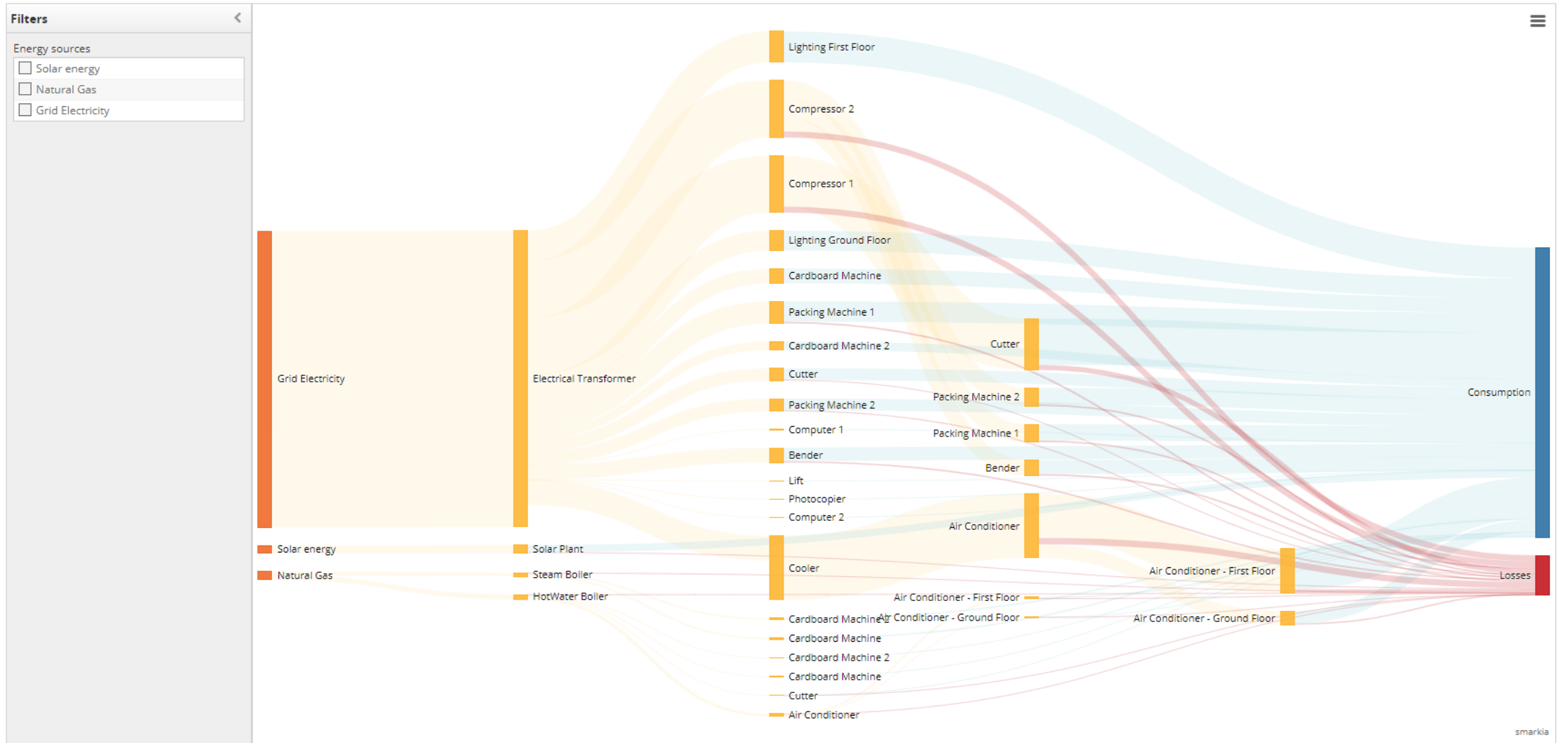


Simple performance and documentation of energy planning consistent with the policy established. Smarkia 50001 configures the areas of use automatically and allows planning all the activities necessary to improve the energy performance.

Through an in-depth review energy, the tool indicates the areas where the energy consumption is more significant and automatically identify savings measures.



# > SANKEY DIAGRAMS



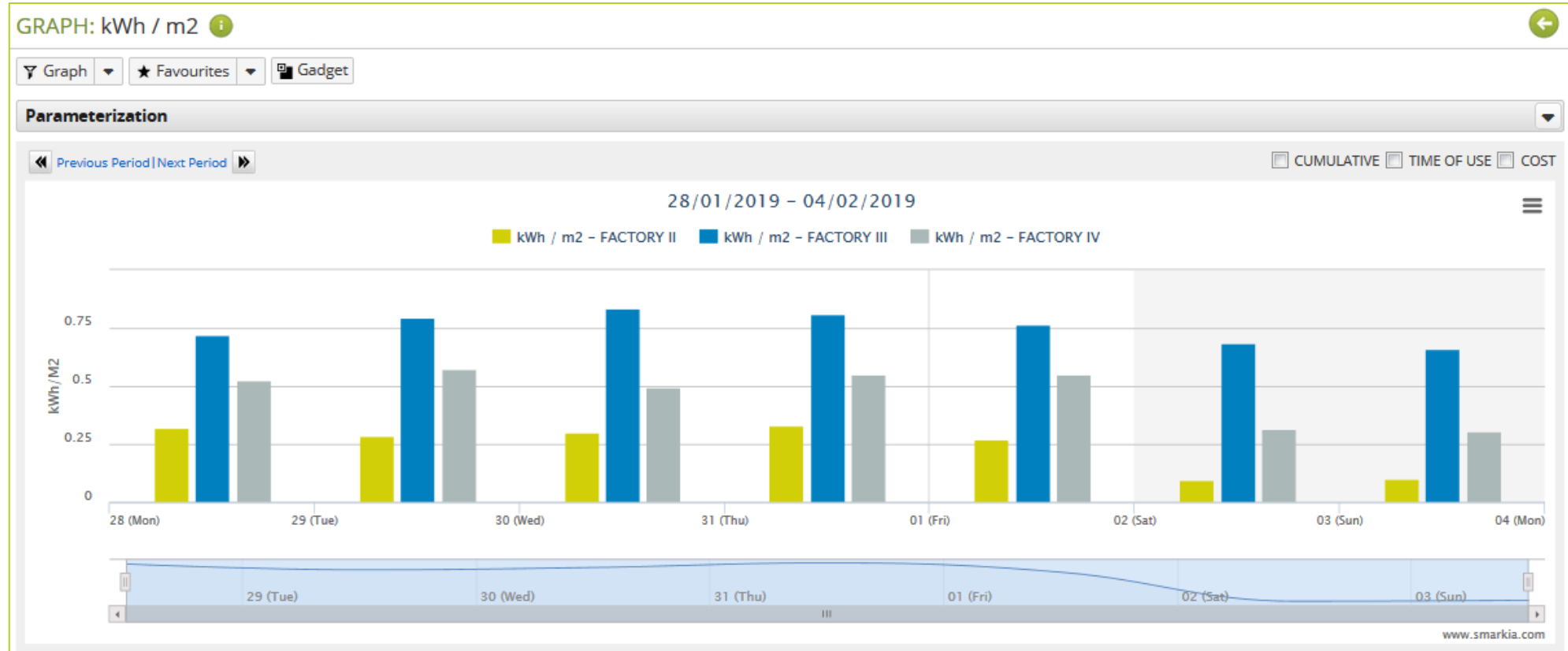
## > DEFINITION OF OBJECTIVES, GOALS AND PLANS



Smarkia 50001 allows establishing energy saving measures and opportunities for improvement that are more convenient for the organization, among the proposals in the energy review process in this way constituting the goals for improvement

## › KPIs

- › Automation of monitoring energy performance indicators and with alerts on any disparity, simplifying the management of non-compliance, corrective and preventive actions.





# > ALERTS

> Automatic notification of deviations, errors, anomalies, excesses ...

### INFRASTRUCTURE ALERTS

**Current** Log

✓ Accept Filters

#### Calendar of activation

Any

Name	From - To Time	Week days	From - To Date	Acti...
Night consumption		Mo, Tu, We, Th, Fr, Sa, Su	01-JAN - 31-DEC	+

#### Notification

Active notifications alert

Additional notifications

Email / Group: 50001\_EN@smarkia.com

User type: Internal

Select hourly interval:  
 The whole day  
00:00 - 00:00 +  
No value set  
✓ Accept

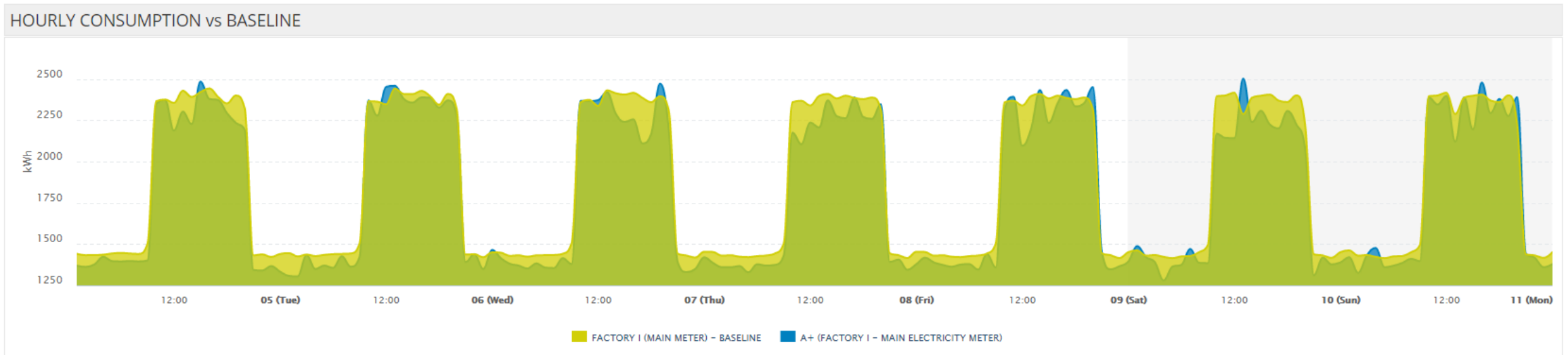
#### List of active infrastructure alerts

Work Centre	Measuring device	Measurement	Energy Source	Action
<input type="checkbox"/> FACTORY I	COOLER SOUTH CONSUMPTION	COOLER SOUTH CONSUMPTION	Electricidad	✓
<input type="checkbox"/> FACTORY I	COOLER SOUTH CONSUMPTION	COOLER SOUTH CONSUMPTION	Electricidad	✓
<input type="checkbox"/> FACTORY I	COOLER SOUTH CONSUMPTION	COOLER SOUTH CONSUMPTION	Electricidad	✓

- Select
- Outdated
- Communication problems
- Updated with hold

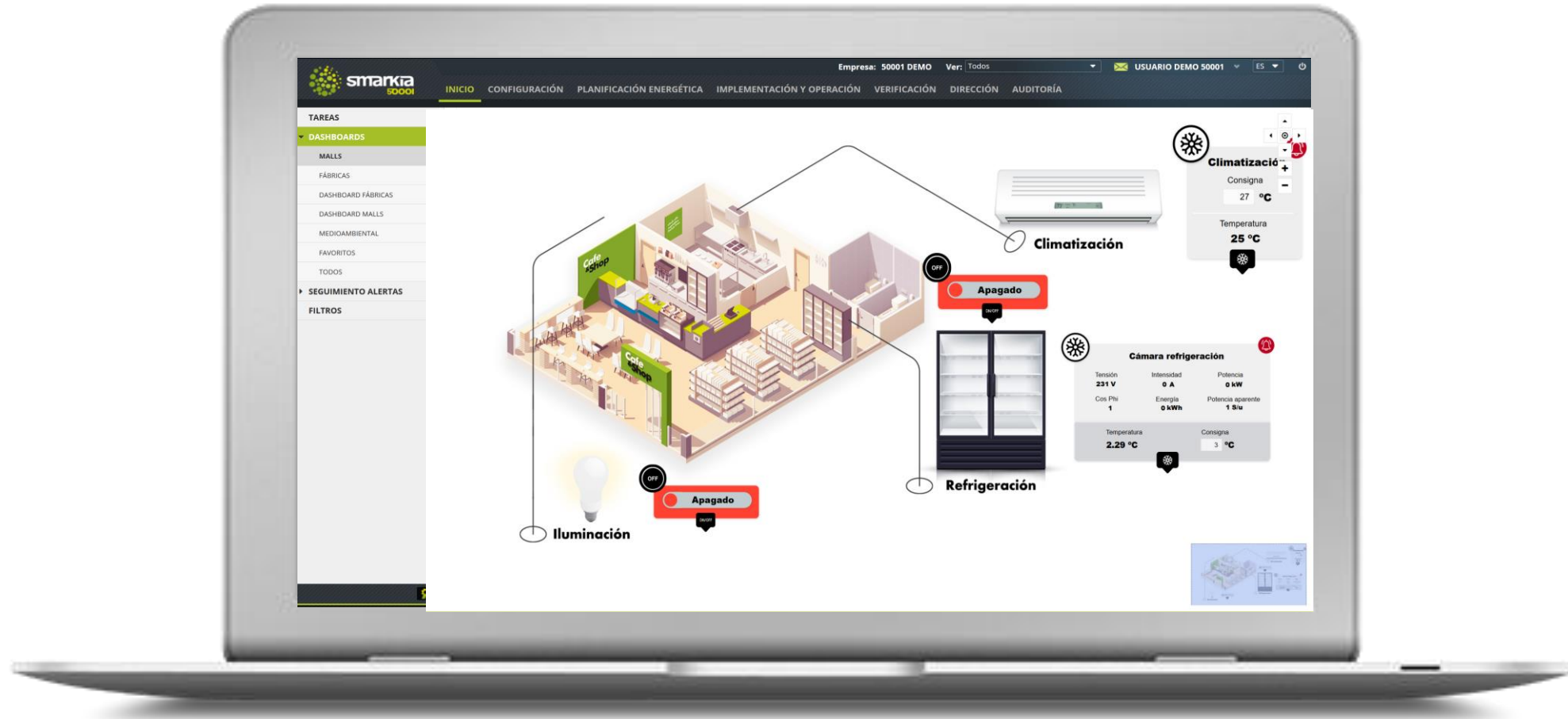
## › BASELINE AND PREDICTIVE ALGORITHMS

› Automatic calculation of baselines through advanced algorithms.



## › AUTOMATION

- › Control system to operate facilities in real time, manually or through AI algorithms, that can generate savings of up to 30%.





# › TASKS MANAGEMENT AND NOTIFICATION SYSTEM

- › Simple management of the tasks of all those involved in the energy management system of an organization. Total traceability and web/app follow up.

The screenshot displays the 'smarkia 50001' web application interface for task management. The top navigation bar includes 'HOME', 'CONFIGURATION', 'ENERGY PLANNING', 'IMPLEMENTATION AND OPERATION', 'VERIFICATION', 'MANAGEMENT', and 'AUDIT'. The 'Environment' is set to '50001 DEMO EN' and 'View' is set to 'All'. The left sidebar shows a 'TASKS' section with sub-items like 'DASHBOARDS', 'FACTORIES', 'MALLS', 'GEOLOCATION', 'FACTORIES DASHBOARD', 'MALLS DASHBOARD', 'FAVOURITES', and 'ALL DASHBOARDS'. The main content area is titled 'TASKS' and shows a 'Pending' tab. Below the tab are buttons for 'New', 'Assign', and 'Filters'. The 'List of tasks in progress' table is as follows:

ID	Name	Type	Work Centre	Assigned	Start D.	End D.	Acti...
51	MALL I	Management review	MALL I	EMS MANAGER MALL	12/02/2016	31/01/2016	🔄
62	Maintenance Operations in Thermal Facilities	Requirement evaluation	MALL I	EMS MANAGER MALL	17/02/2016	17/02/2016	🔄
63	MALL I	Energy review	MALL I	EMS MANAGER MALL	17/02/2016	17/02/2017	🔄
2284	GAS CONSUMPTION	Calibration and verification	MALL I	EMS MANAGER MALL	31/05/2018	01/06/2018	🔄
2299	Maintenance Operations in Thermal Facilities	Workstation evaluation	MALL I	EMS MANAGER MALL	04/06/2018	04/06/2018	🔄
2302	Maintenance pattern example	Workstation evaluation	MALL I	EMS MANAGER MALL	04/06/2018	15/06/2018	🔄
2301	Maintenance pattern example	Requirement evaluation	MALL I	EMS MANAGER MALL	04/06/2018	15/06/2018	🔄
2412	MALL II	Internal audit	MALL II	EMS MANAGER MALL	11/06/2018	15/06/2018	🔄
1277	MALL I	Internal audit	MALL I	EMS MANAGER MALL	15/06/2017	15/06/2019	🔄
2286	Fancoil cleaning	Requirement evaluation	MALL I	EMS MANAGER MALL	04/06/2018	01/07/2019	🔄
56	MALL I MAIN METER	Calibration and verification	MALL I	EMS MANAGER MALL	17/02/2016	15/06/2020	🔄

An 'Export' button is located at the bottom right of the table.

## > INTERNAL AUDITS



The internal audit process required by ISO 50001 becomes a simple task, since Smarkia automatically provides the specific information on what is occurring at each moment.

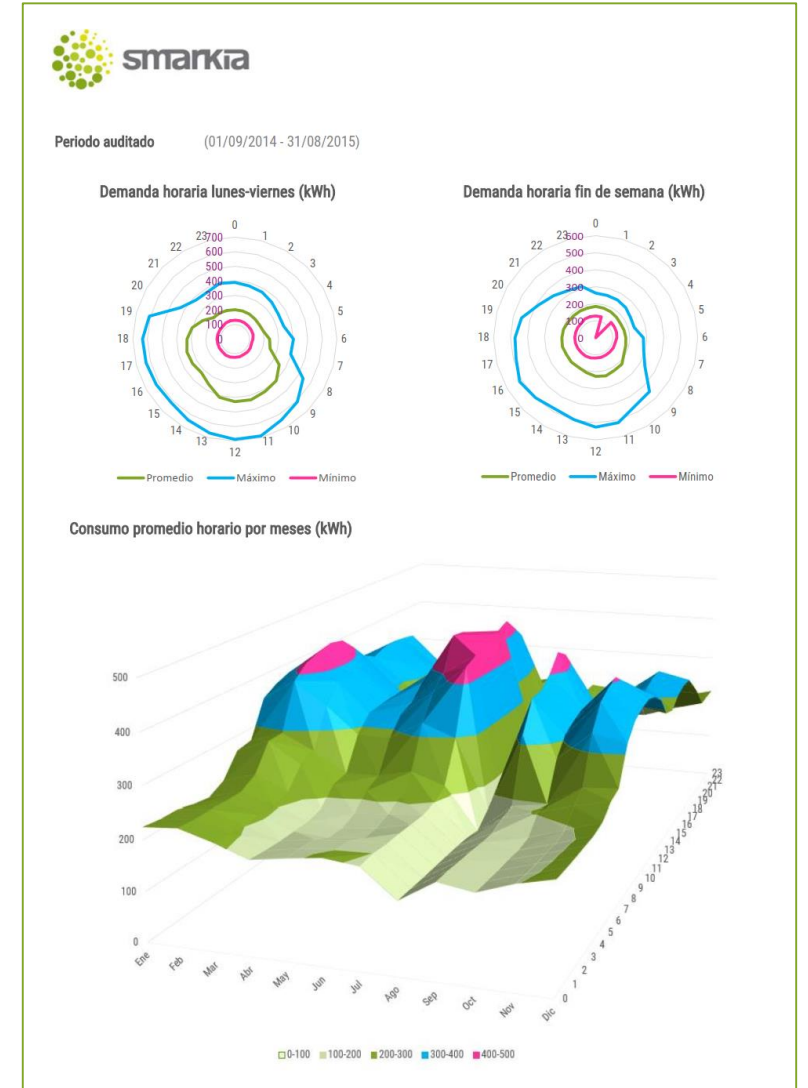
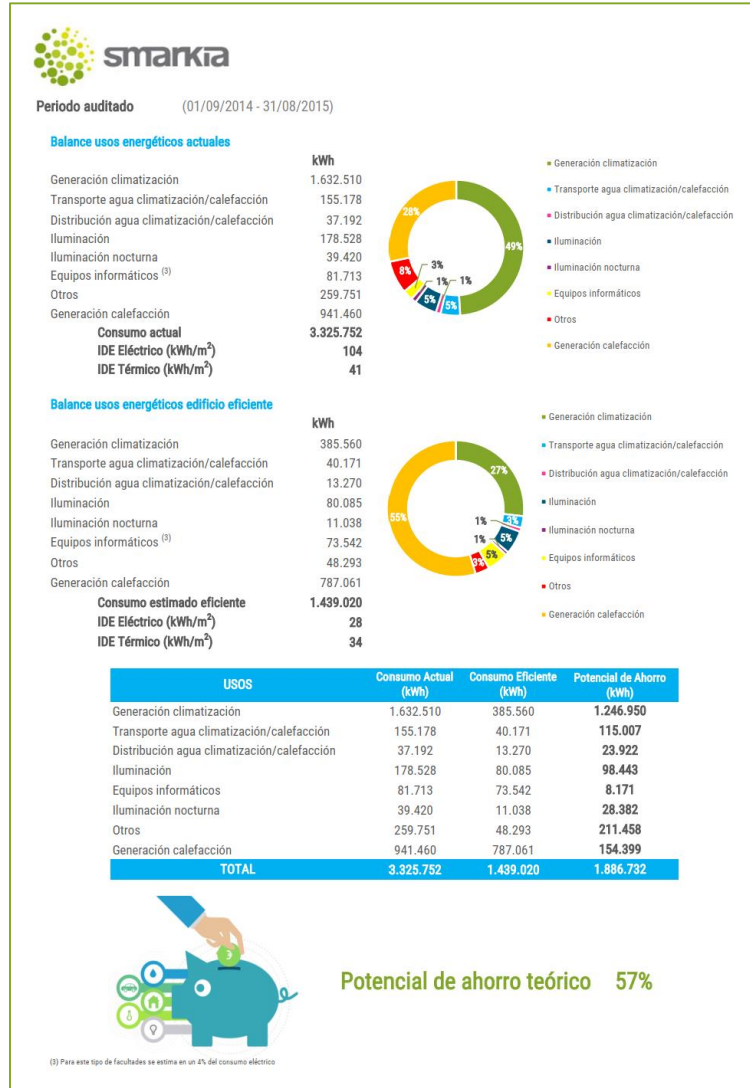
## › REVIEW BY MANAGEMENT

- › All the information on the energy performance of an organization at a click. Make consultations and extract reports anytime and anywhere, and direct the future energy of its business thanks to Smarkia 50001.

Management review tracking				
Area	Supervisor	Start D.	End D.	Status
Tracking of past management reviews and energy policy	EMS MANAGER MALL	--	--	Not completed
Energy performance - indicators- Achievements of objectives - Next period energy projection	EMS MANAGER MALL	--	--	Not completed
Legal requirements - Internal audit - Corrective and preventive actions	EMS MANAGER MALL	--	--	Not completed
Improve recommendations	EMS MANAGER MALL	--	--	Not completed
Management review results	EMS MANAGER MALL	--	--	Not completed

# REPORTING

› Generation of personalized reports on the degree of attainment of goals such as the savings obtained or disparity regarding goals and on the different parts of energy management process.



## › DOCUMENTATION MANAGEMENT

- › Complete document management system with document versions and possibility of creating any type of file structure. The system also has a powerful search engine that allows locating the documents both by name and by the text of its content.

**List of Folders: CENTRAL FACTORY**

Element	Description	Status	Date	Version	Action
Rules	--	--	19/03/2013 08:57	--	[edit] [share] [download] [refresh] [delete]
Records	--	--	20/02/2014 13:45	--	[edit] [share] [download] [refresh] [delete]
Procedures	Internal procedures	--	27/02/2014 18:46	--	[edit] [share] [download] [refresh] [delete]

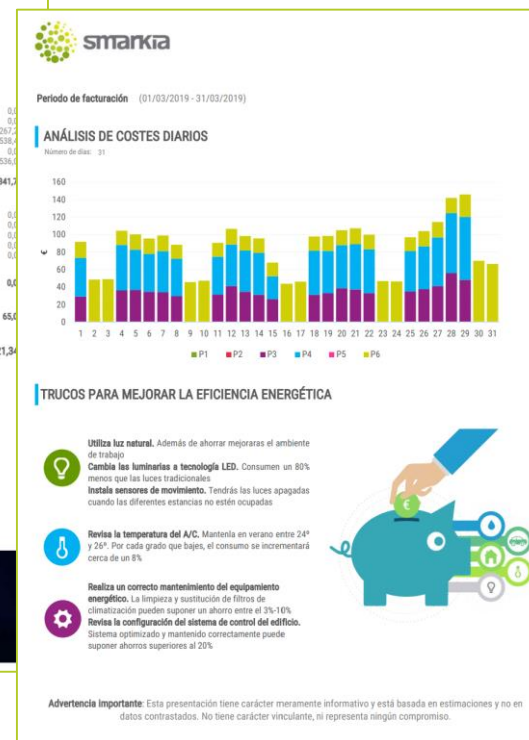
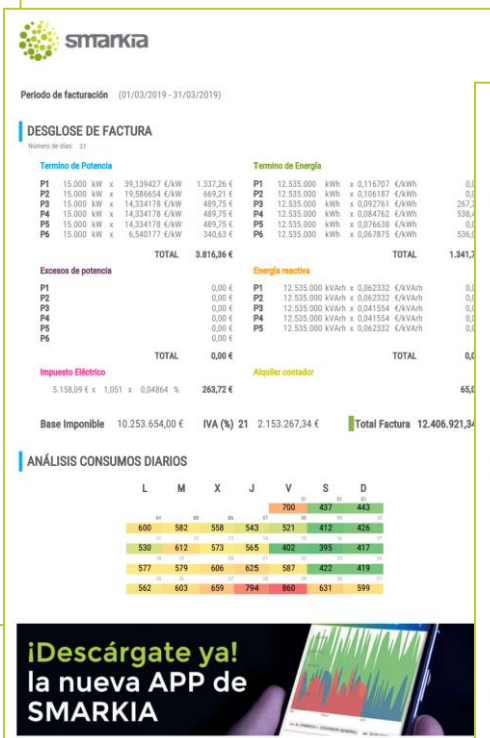
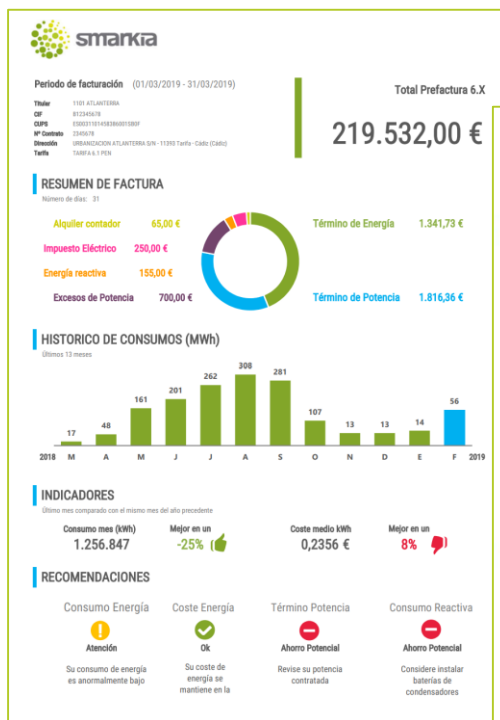
**List of Folders: Procedures**

Element	Description	Status	Date	Version	Action
Cooler maintenance procedures	--	Approved	26/03/2014 14:01	1	[edit] [share] [download] [refresh] [delete]
Energy policy	Document containing the energy policy of the factory	Approved	05/02/2014 18:56	1	[edit] [share] [download] [refresh] [delete]
Heating boilers maintenance	Maintenance tasks	Approved	04/12/2013 11:03	3 [log]	[edit] [share] [download] [refresh] [delete]
Machinery inspection	Inspection	Approved	27/02/2014 18:49	3 [log]	[edit] [share] [download] [refresh] [delete]



# SMART BILLING

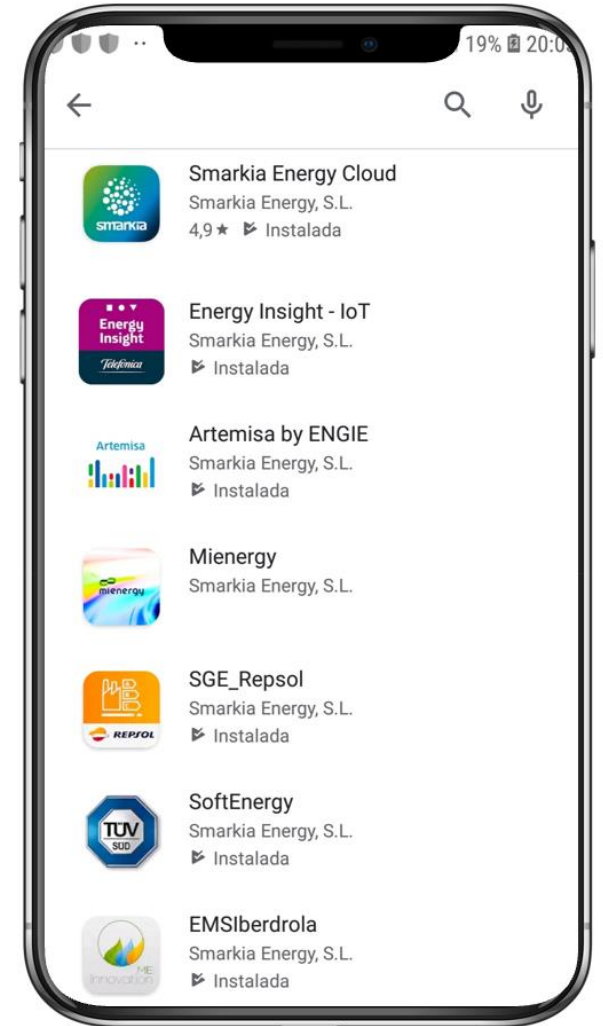
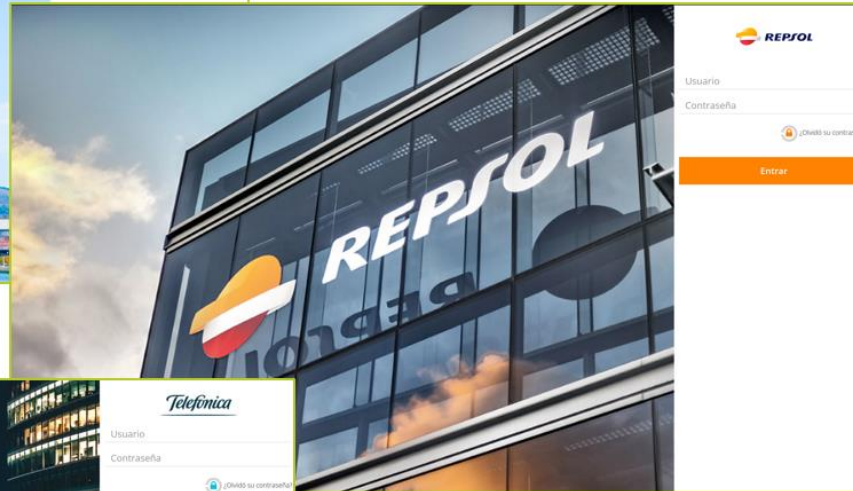
A powerful multi energy billing system that allows the adaptation to any billing method and automatic pricing systems integration



# > SMARKIA APP



# > LOOK&FEEL CUSTOMIZATION







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