

advanticsys

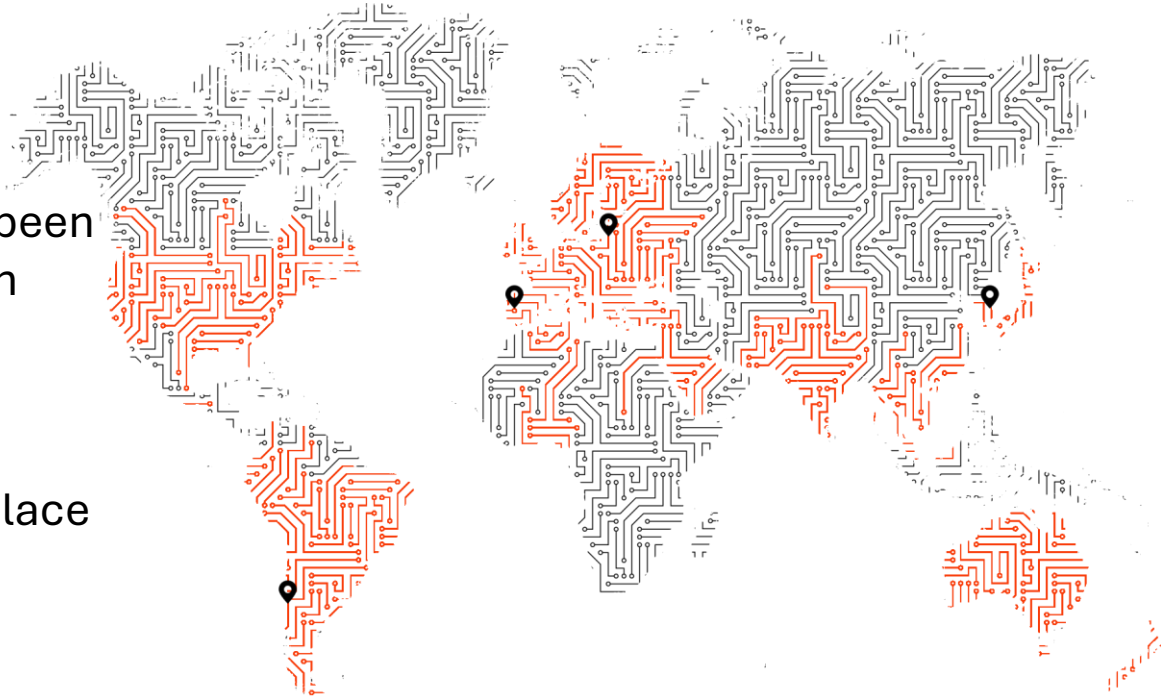
Digital Transformation & R&D Partner

Connect – Collect – Analyze - Optimize

www.advanticsys.com

Our company

- Since 2009, Advanticsys has been creating digital transformation products and solutions
- Focused on industry, energy, agriculture, and environment
- Operating in a global marketplace



120000+

MONITORING DEVICES SOLD

1000+

CUSTOMERS

42

COUNTRIES

Innovative Industrial IoT and Engineering Expertise

From monitoring devices and cloud platforms to custom engineering and electronics design, we offer tailored IoT solutions to meet your exact needs



Industrial Monitoring

Our Dataloggers, Controllers, wireless bridges and Data Concentrators enable powerful monitoring and control solutions in any market segment



Concordia Cloud Platform

Deliver complete monitoring and control projects with our IoT Cloud Platform. Any device or data source can be connected. Multiple industrial and IoT protocols supported.



Engineering services

Design and develop complete projects from conception until set up and even maintenance



Protocols and APIs integration

Third party proprietary protocols can be integrated in any of our products



Firmware development

Any feature missing in our products? Tell us what you need and we will develop it



Electronics design

We design the electronic device you need meeting technical and economical requirements

Who we are

We develop hardware, big data cloud software and AI-based data analysis in several verticals



Buildings

Energy management solutions. Smart control applications



Environment

Air and water quality monitoring projects worldwide



Green Energy

Wind and Solar PV plants data collection and analysis



Industry

Remote management. Electricity and heating metering



Agriculture

Monitoring and control of greenhouse indoor climate



Defense

Sensor fusion, system integration for naval defense

Background in EU projects

- Since 2009, advanticsys has a proven track record in EU-funded Projects
- Participation in 100+ proposals -> 23 successfully funded
- Projects mainly focused on:
 - Industry 4.0
 - Sustainable and Smart mobility
 - Energy management in Buildings / Smart grid
 - Environmental monitoring

Energy Game for Awareness of energy efficiency in social housing communities	EnerGAware	H2020
PALAEMON – A holistic passenger ship evacuation and rescue ecosystem	PALAEMON	H2020
Monitoring devices for overall FITness of Drivers	FITDRIVE	H2020
Smart Energy Services Integrating the Multiple Benefits from Improving the Energy Efficiency of the European Building Stock	SENSEI	H2020
Demand Response - Residential Innovation for a Sustainable Energy system	DR-RISE	HORIZON
RE-manufaCturing and Refurbishment LARge Industrial equipMent	RECLAIM	H2020
An Advanced Circular and Agile Manufacturing Ecosystem based on rapid reconfigurable manufacturing process and individualized consumer preferences	KYKLOS 4.0	H2020
Zero-defect manufacturing for green transition in Europe	ENGINE	HORIZON
Climate and cultural based design and market valuable technology solutions for Plus Energy Houses	CULTURAL-E	H2020
PLants Employed As SEnsor Devices	PLEASED	FP7
Evaluation of RF-based Indoor Localization Solutions for the Future Internet	EVARILOS	FP7
An ubiquitous embedded systems framework for energy-aware buildings using activity and context knowledge	GreenerBuildings	FP7
INTElligent systems for Energy Prosumer buildIngs at District level	INTRPID	FP7
Water analytics and Intelligent Sensing for Demand Optimised Management	WISDOM	FP7
ODY SSEUS	ODY SSEUS	FP7
A holistic water ecosystem for digitisation of urban water sector	NAIADES	H2020
Integrated intelligent sensor system for improved security of water supply	ISIS	FP7
European PhD Hub	European PhD Hub	EPLUS
Integrated air quality sensor for energy efficient environment control	INTASENSE	FP7
WeSenseIT: Citizen Observatory of Water	WeSenseIt	FP7
Zero-impact innovative technology in forest plant production	Zephyr	FP7
A Novel Decision Support System for Intelligent Maintenance	iMain	FP7
Embedded Intelligent Controls for Buildings with Renewable Generation and Storage	ENCOURAGE	FP7

Technological Capabilities

- IoT hardware development (gateways, sensors, edge computing)
- Communication protocols integration
- Cloud platforms (Concordia) for real-time analytics and control
- Data analytics & forecasting (energy, environmental, operational)
- Digital twins, decision support systems
- Integration with BIM, SCADA, and third-party systems



Concordia Cloud Platform

Our Data Backbone used in multiple EU projects



Seamless Device Integration

Effortlessly connect and integrate any device using our versatile protocol adapters, ensuring compatibility across diverse IoT ecosystems



Real-Time Data Contextualization

Bring IoT data into your business context, digitally representing the physical world for enhanced decision-making and process automation



Secure & Low-Latency Data Access

Maintain strict data segregation while providing real-time, low-latency access to operational IoT data for mission-critical applications



Advanced Analytics & Insights

Convert raw IoT data into meaningful business metrics and actionable insights using scalable analytics models for enhanced operational efficiency



Data Fusion & Highly Customizable Dashboards

Integrate and harmonize data from multiple sources while leveraging customizable dashboards to visualize insights tailored to your needs

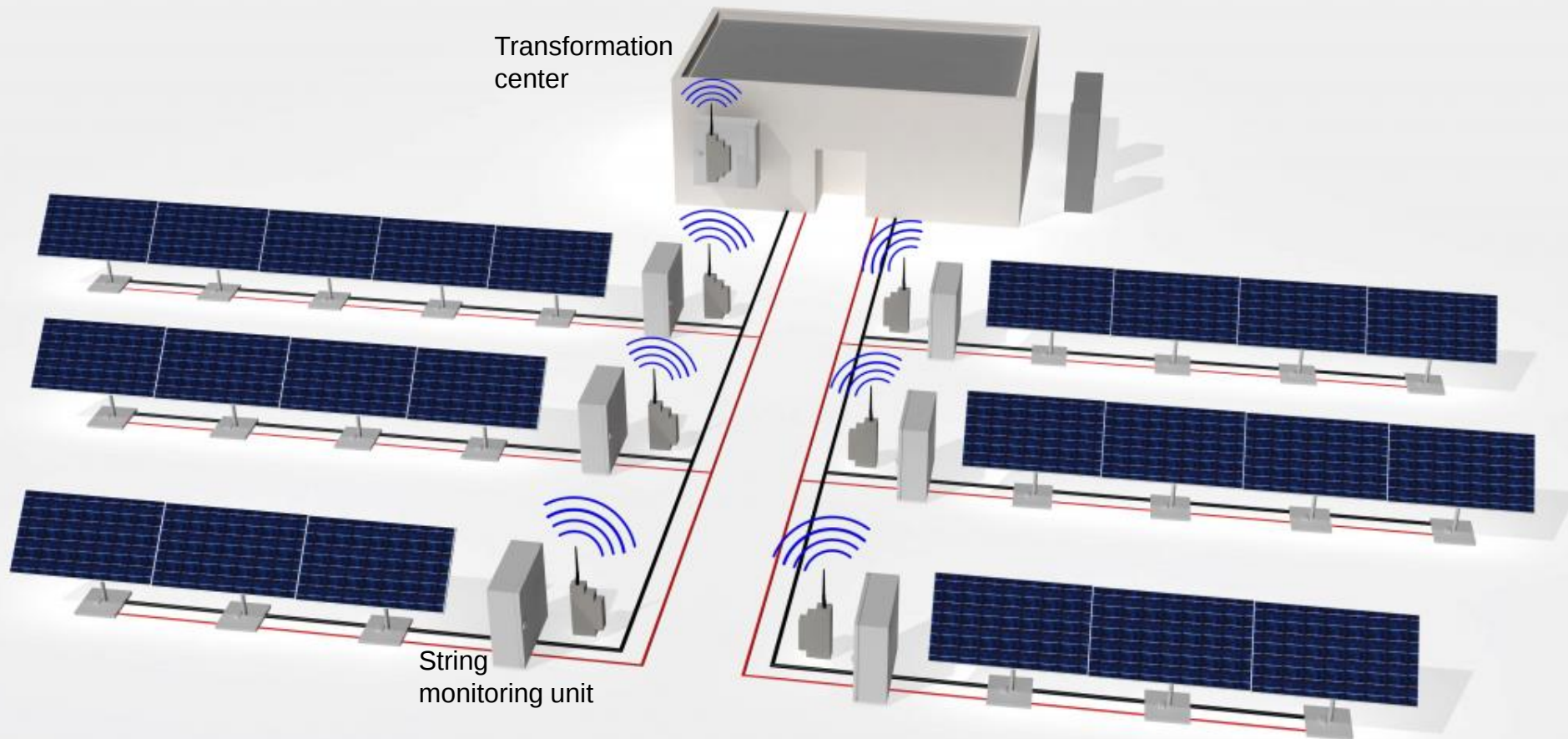


Advanced Reporting & ERP/API Connectivity

Seamlessly integrate IoT data with your ERP systems or internal APIs, ensuring smooth data exchange and enabling in-depth reporting for strategic business insights

- Solar PV Plants Monitoring
- Building Energy Management
- District Heating Monitoring
- Smart Agriculture & Water Monitoring

Solar PV Plants Monitoring



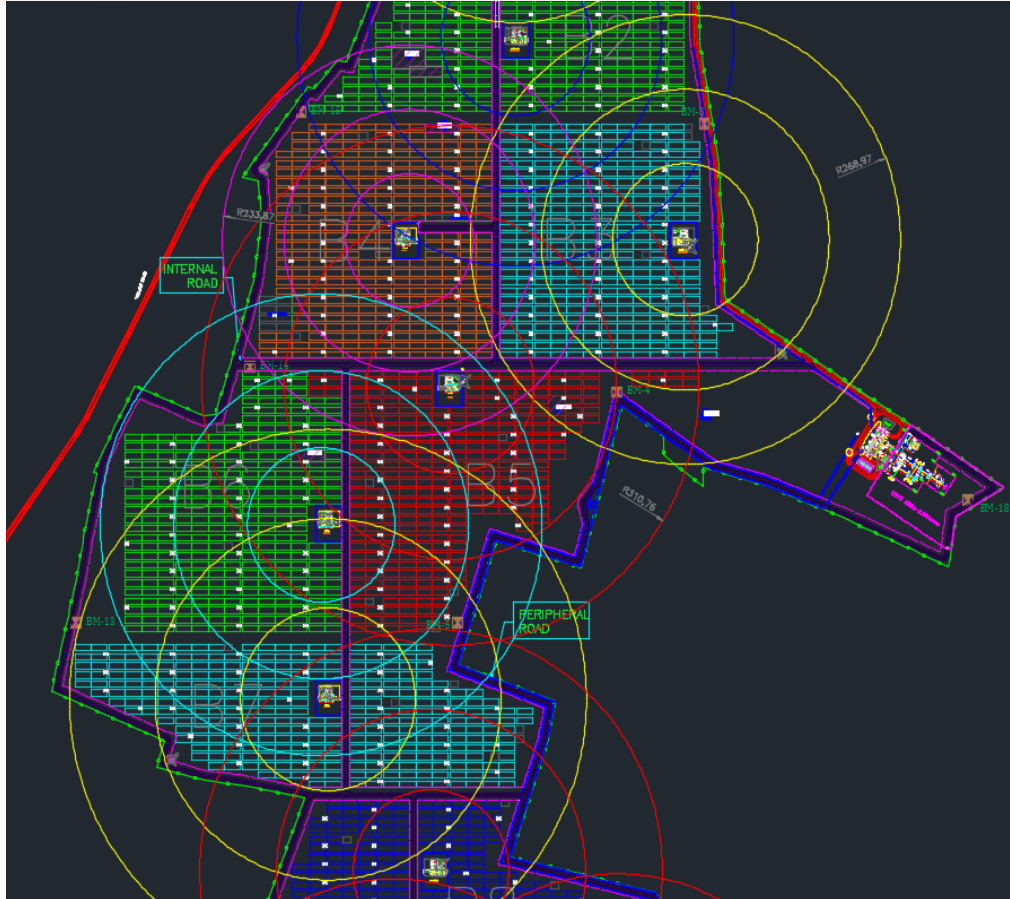
Solar PV Plants Monitoring



- IEC 61724-1-2021 Class A (High accuracy) complaint
- RF communication 868-915 MHz
- Data sending via RF to any Modbus RTU equipment
- Up to 64 slaves
- Low costs and wiring effort, as an additional power supply unit is not required in the device connection box
- Easy integration in monitoring systems, thanks to Modbus/RTU communication
- To be installed in each inverter room
- CE and ANATEL certification



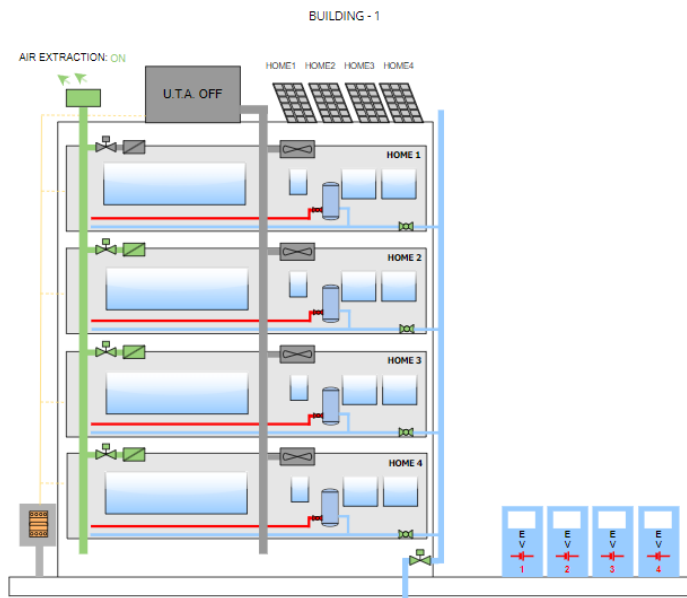
Solar PV Plants Monitoring



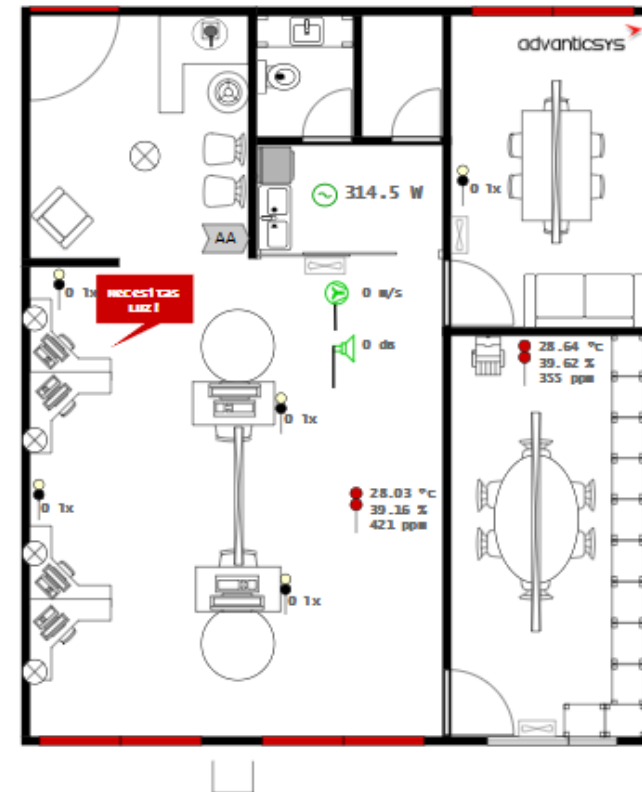
3000 MW monitored since 2019 in Spain, India, Chile,
Turkey, Australia, UK, USA

Building Energy Management

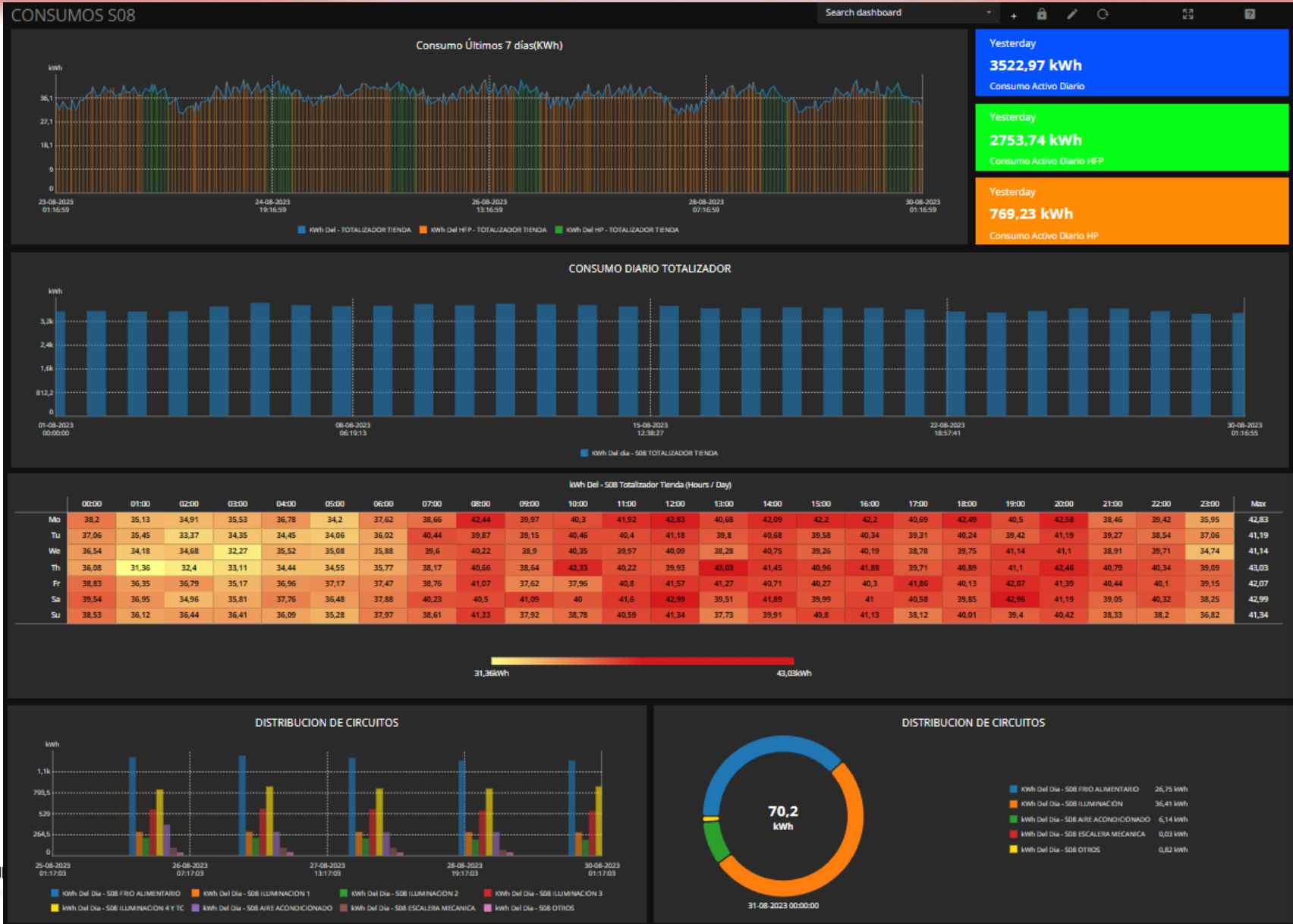
- 1000+ buildings monitored across Europe and South America
- Energy monitoring, forecasting, and SCADA-based control
- Integration with building automation systems



CONTROL SYSTEM			
U.T.A	OFF	0	/
General Water Valve	ON	1	/
ColdWater Home1 Valve	OFF	0	/
ColdWater Home2 Valve	ON	1	/
ColdWater Home3 Valve	ON	1	/
ColdWater Home4 Valve	ON	1	/
Hot Water Home1 Valve	ON	1	/
Hot Water Home2 Valve	ON	1	/
Hot Water Home3 Valve	ON	1	/
Hot Water Home4 Valve	ON	1	/
Cultural - E Main Power	ON	1	/
Cultural - E ElecVehic1	ON	1	/
Cultural - E ElecVehic2	OFF	0	/
Cultural - E ElecVehic3	OFF	0	/

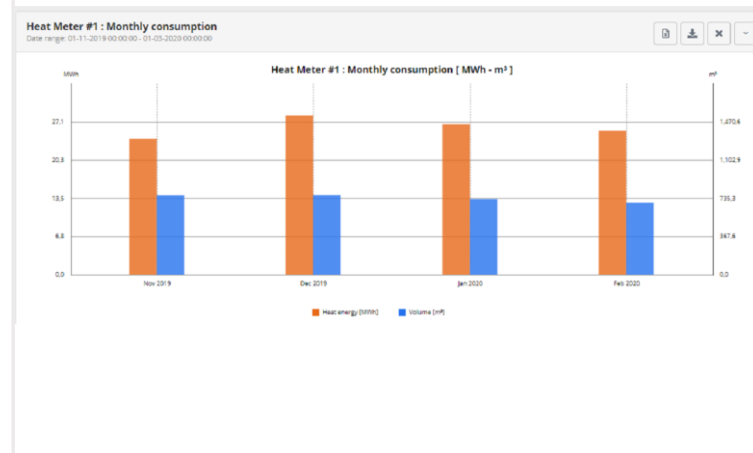
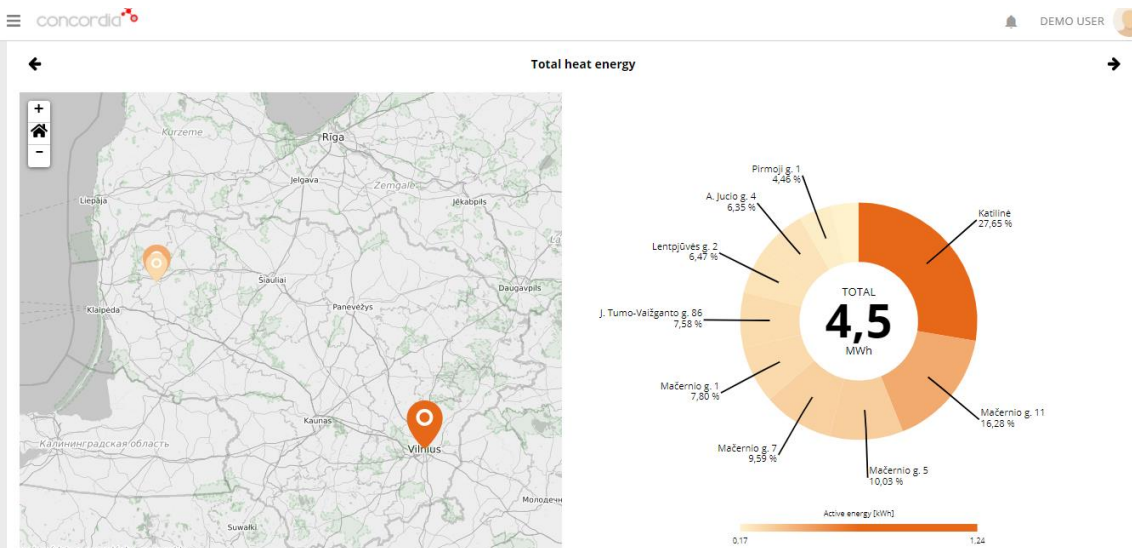


Building Energy Management



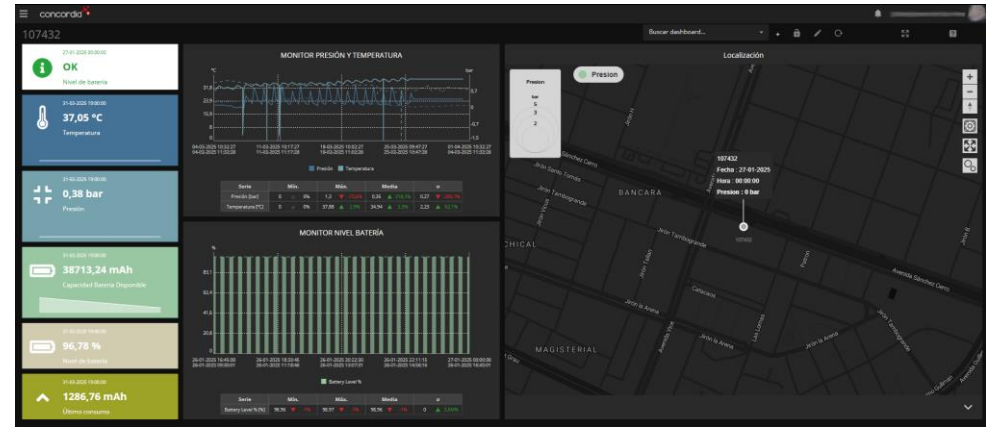
District Heating monitoring

Real-time monitoring of heat meters temperatures and volume. Data analytics, forecasting and billing services



Agriculture and Water

- Real-time monitoring of pressure and temperature, with IP68-rated rugged design
- Data transmission via FTP and MQTT using 4G connectivity and open formats (JSON, CSV)
- Integration with Concordia Cloud Platform for centralized visualization, alerts, and analysis
- Enhanced operational efficiency, regulatory oversight, and reduced field intervention



- We bring market-ready technologies to research consortia
- Strong track record in Horizon Europe, LIFE, and international R&D projects.
- Flexible and agile team with deep experience in hardware, software, and cloud integration.
- Actively seeking new partnerships to co-develop innovative solutions for energy, industry, mobility and sustainability.
- Expertise from sensors to cloud, from data to decision-making

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