

Project brief



REFERENCE

Fruit juice concentrate manufacturer,
Spain

PARTNER

CYDESA

RELIABLE PRODUCTION AND ENERGY
EFFICIENCY WITH THE JANITZA ENMS

Janitza



Part of the CITRESA facility in Carcaixent, Valencia

COMPLETE VISIBILITY AND CONTROL OVER ENERGY AND POWER QUALITY

REQUIREMENT

CITRESA, part of the Suntory Beverage and Food Spain Group, is located in Carcaixent (Valencia), the birthplace of the orange. The company produces concentrates, juices, pulps, aromas, and essential oils that are later exported to more than 40 countries for bottling and commercialization. These products give rise to such iconic beverages as Schweppes®, Sunny Delight®, Orangina®, and Oasis®.

The customer's challenge was to improve measurement technology in order to obtain all the details regarding Power Quality (PQ) and Energy Management (EM) within its logistics facilities. The goal was to avoid unexpected downtimes by monitoring PQ and to uncover all potential energy savings through the EMS.

SOLUTION

In 2016, CYDESA, Janitza's local solution partner in Spain, introduced Janitza's 3-in-1 system for Power Quality (PQ), Energy Management (EM), and Residual Current Monitoring (RCM) to CITRESA's technical department. Following a successful pilot project in 2017—focused on the medium-voltage main supply and low-voltage outputs from three key transformers—the customer gained new insights into their grid behavior and decided to expand the system. Over the following years, the installation was extended to all main electrical panels and critical circuits throughout the facility. Additionally, key flow meters were integrated via pulse inputs into the Janitza system.



Location

Carcaixent (Valencia),
Spain



Year of implementation

2016



Application

Power quality analysis and
energy monitoring



Oranges: A key ingredient in many CITRESA products

By 2025, more than 40 Janitza devices were in operation across the Carcaixent site, including Class A meters (UMG 512-PRO) at the utility connection point, UMG605-PRO meters for central distribution boards, and UMG604-PRO or UMG-96-PQ-L devices for detailed load monitoring—depending on installation requirements. All devices are centrally managed using GridVis®, Janitza’s grid quality and energy management software. In addition, CYDESA supported compliance efforts with Spanish energy regulations by securing zero-feed-in certifications for Janitza equipment. The system has also been extended to monitor the site’s rooftop PV installation since 2020.

BENEFIT

With the Janitza system in place, CITRESA can now precisely monitor the voltage quality across all major plant sections. This enables early detection of Power Quality issues and more accurate root cause analysis. Furthermore, energy consumption is automatically tracked, reported, and visualized using GridVis®. Thanks to the software’s intuitive interface, energy reports are generated with minimal effort and grid status can be assessed continuously at multiple levels within the facility. The modular architecture allows CITRESA to tailor the monitoring depth for each circuit while ensuring full integration with their existing measurement infrastructure. The integration of the PV system also ensures regulatory compliance.



Hardware

1 x UMG 512-PRO, 3 x UMG 605-PRO
35 x UMG 604-PRO, 5 x UMG 96RM-CBM
3 x ProData®



Software

GridVis® Expert



Service

Consulting, commissioning,
and training

ABOUT JANITZA

Janitza develops comprehensive energy measurement solutions that ensure transparent energy flows and monitor power quality. The global company, headquartered in Germany, provides individual solutions to meet specific customer requirements across a wide range of industries, including data centers, manufacturing, buildings & infrastructure, utilities, and renewable energy.

PRODUCT RANGE

Janitza's portfolio includes innovative measuring devices and the perfectly integrated Power Grid Monitoring Software GridVis®, complemented by high-quality components. Customers worldwide benefit from solutions in energy data management, power quality monitoring, and residual current monitoring, all within a unified system environment – Made in Germany.

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