zenon
by COPA-DATA

Energy data management with zenon

Measure and optimize energy consumption in F&B with zenon. Meaningful reports and comprehensive analyses support your Energy Data Management System.

Energy consumption under control

You do more than just comply with regulatory requirements with the automated recording and evaluation of energy data. A consistent energy data management in particular utilizes savings potential by collecting consumption data, analyzing it in a useful way and preparing it to show to the user at a glance.

In a unique and scalable way, zenon supports the management of energy data in the food and beverage industry. The system is ideal for optimizing energy consumption throughout production, whether it be electricity, gas, water, oil, compressed air or other energy sources. Not only does this contribute to environmental protection, but it also reduces costs.

CONTINUOUS IMPROVEMENT

With zenon's high connectivity, almost every data source is connected, whether it is measuring devices, PLC systems, older or newer components or other software applications. This makes data collection easier as part of the continuous improvement process as per PDCA (plan-do-check-act), for example in accordance with ISO 50001. Thanks to zenon's scalability, you can gradually introduce the energy data management as well and always connect more data sources. The growing data basis leads to the development of an efficient energy management system.

FOCUS ON SAVINGS POTENTIAL

zenon automatically records the energy data in real-time so that manual recording is a thing of the past. Historic data is of course also available. The data flows into dashboards, alarm lists and dynamically-generated trend graphics. Comprehensive amounts of data are also automatically compared and evaluated in seconds in different reports – error-free and consistently.

This is good for the energy manager, who can now focus on the specific optimization and savings potential resulting from the reports, instead of having to deal with the time-consuming manual recording and evaluating of data. This saves time and money and avoids errors that inevitably occur during manual recording.

IMPRESSIVE ANALYSES

Aggregated consumption figures for the different energy sources often do not help on their own. That is why zenon contains a whole range of meaningful analysis options as a standard. These include Sankey diagrams, Pareto charts, Gantt charts, duration curves, energy classes, heat maps and much more. In addition, there are sophisticated filters, comparisons and evaluations correlating to production. These efficient tools for analyzing energy consumption allow you to identify the best possible potential for savings. This opens up all of the possibilities for you to reduce consumption and costs while meeting the requirements of a certified Energy Data Management System pursuant to ISO 50001.

PRODUCTION AND CONSUMPTION DATA UNDER ONE ROOF

In order to allow for a coherent analysis of production and energy data, zenon records the data in a consistent system, automatically compares it and evaluates key performance indicators. Consumption data is thus linked with production data and it can be evaluated in relation to each other without additional effort. The simplest example: Energy consumption per produced unit.

TAILOR-MADE REPORTS AND THEIR DISTRIBUTION

The energy management applications in zenon can be changed without programming knowledge and new data sources can be added. In this way, you very easily implement your own ideas and determine which consumption data is recorded and processed. It is also easy to compile the information that goes into dashboards or reports. It is up to the production team how they want to make the results accessible.

Reports are based on templates that you can quickly and flexibly adjust. Templates that, for example, are based on the ISO 50001 for Energy Data Management Systems, are available out-of-the-box. You can also easily grant other handlers access to reports, even through mobile devices. The quick and flexible implementation of changes and enhancements also accelerates the continuous optimization cycles according to PDCA. In this way, with zenon you create a flexible and cost-effective energy management while ensuring low overall operating costs in the long-term.

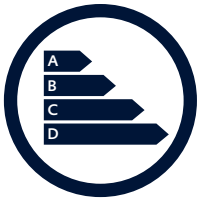
AVOIDING LOAD PEAKS

A big challenge in production is keeping consumption below the limit values that were agreed upon with the energy suppliers in the framework agreements, even in the event of load peaks. Consumption peaks that exceed the performance values agreed within certain time intervals usually lead to significant additional costs.

zenon allows for the management of load peaks for this purpose. zenon continuously calculates consumption forecasts based on a model of energy producers and consumers. If these critical values are reached, the system provides recommendations in due time for the manual or automation control of the units. This effectively prevents the agreed consumption limits from being exceed and therefore prevents additional costs.

OUR SOLUTIONS FOR THE FOOD & BEVARAGE INDUSTRY:

BREWING



ENERGY DATA MANAGEMENT

LINE MANAGEMENT

QUALITY MANAGEMENT

BUILDING AND AUXILIARY MANAGEMENT

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