

Energy monitoring: reduce carbon footprint and save costs



EnergyMaster

Today it is no longer sufficient to optimize output, quality and production planning, also energy consumption is becoming a very important factor in the operating cost of a textile plant. A sudden increase in the energy consumption of a production run can push an order easily in the red figures. With ever rising energy prices and increasing environmental legislation, efficient energy management has become a very critical success factor to run a profitable business in today's global economy.

EnergyMaster is a necessary tool to monitor and target your energy consumption of electricity, gas, compressed air, water, steam, effluent, CO₂ emissions for further analysis and optimization.



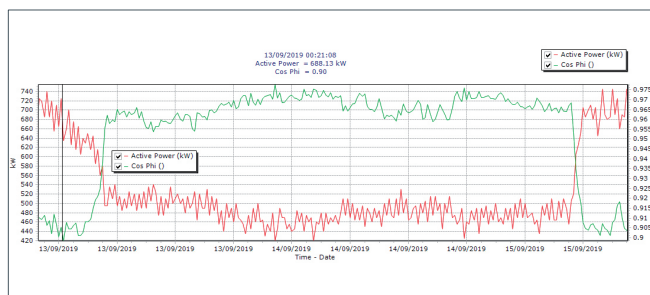
Step 2: Control and target your energy consumption

Reporting

EnergyMaster comes with a powerful and flexible report generator. With the “create once, use always”-principle, each user can define his own set of reports needed for the analysis and follow up of the various consumptions in the different departments. The ‘dashboard’ allows the visualization of reports, graphs and graphical meters from any computer with web access. The system comes with a set of predefined reports and includes industry standard reports, as PCL SEC and CUSUM charts.

Counter reports

These diagrams display the measured data from different counters e. g. water or electricity meters. With the counter reports, the most important measured values of the factory can be easily monitored.

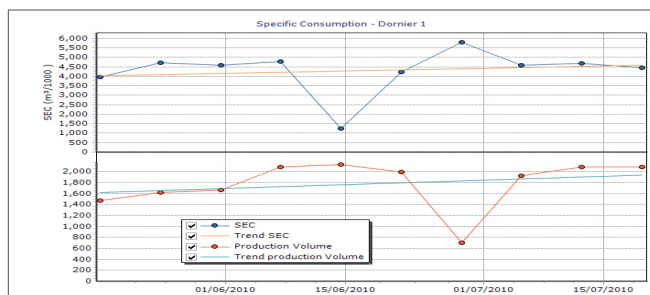


Combination reports

In these reports, energy consumption is related to effective production. For example, in the dye house, energy consumption is reported by batch; in weaving, energy consumption is reported per million picks and in spinning per 10,000 lbs produced. By analyzing this data by type of machine and by type of product, one can determine easily which machine is most energy efficient to produce a specific product or style.

Specific Energy Consumption (SEC)

The Specific Energy Consumption report relates the kWh per unit of production. A typical graph is the monthly evolution of the SEC, which shows whether the plant is gaining or losing energy efficiency.

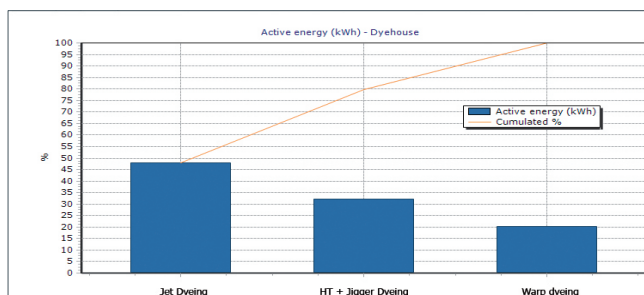


Cumulative Sum of deviations (CUSUM)

A special type of report is the CUSUM trend. It enables the comparison of the actual energy consumption with the budget. The gradient line in the trend graph allows immediate detection of a increasing or decreasing energy consumption. This reports help to raise energy awareness.

Consumer reports

Consumption measurements can be grouped together into one department e. g. dyeing, finishing, weaving, knitting or administration. The reports are used to trace abnormal peak consumption, to eliminate abnormal consumption and to evaluate if reduced night or weekend shifts make sense, considering the higher energy consumption per unit of production.

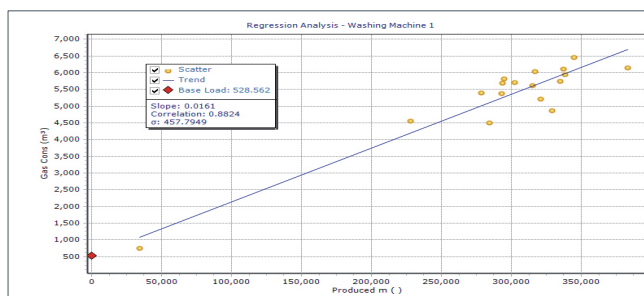


History reports

These reports show the energy consumption of a specific machine, product, department, or the entire plant over time. They allow an evaluation of the energy share of the total production costs for each product.

Performance Characteristic Line (PCL)

The PCL is the result of a regression analysis between energy consumption and production output. It can be recorded e. g. for a machine, a complete department or the whole plant as well as for the energy resources monitored by EnergyMaster. Based on this regression analysis, the base load is calculated. The PCL can also be used to plan future energy consumption based on production budgets.



Step 3: Save costs / reduce your carbon footprint

With EnergyMaster, the Sedo Treepoint MES systems are extended to monitor the important factor of energy. By using the existing data collection network, database and server configuration, investment costs are kept to a minimum, while monthly energy savings are significant.

Automatic alerts from the system to management and/or the operator enable quick responses to achieve immediate savings. The use of energy monitoring creates a “culture of energy awareness” within the company and by establishing an energy efficiency plan with clear targets, significant energy savings are also realized.

Furthermore EnergyMaster is the right tool to meet government rules for carbon reduction, environmental legislation and last but not least, it will help to protect our environment and leave a better world for future generations.



Head office:
Sedo Treepoint GmbH, Germany
Neuwies 1, D-35794 Mengerskirchen
Phone: + 49 6476 31-0
sedo@sedo-treepoint.com

Technical specifications are subject to change without prior notice.
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