



## ENERGY MANAGEMENT SYSTEM



ENERGY MANAGEMENT IN COMPLIANCE WITH ISO 50001

Improve your ecological footprint!





## **eco.n** Energy Management System

### **Optimize energy efficiency - Increase productivity!**

*Sparing use of resources with a simultaneously increasing need for energy and rising energy costs call for a professional energy management system. Eco.On makes possible meaningful analyses and evaluations by which considerable potential for savings can be realised. Furthermore, successful energy management is to be understood as a continuous process of optimisation in the company. It includes integrated energy planning with the resulting improvement measures for increasing energy efficiency. In addition, the introduction of an energy management system is becoming more and more important due to statutory regulations.*

Eco.On is your sustainable and integrated energy management system, which fulfils the requirements of the DIN ISO 50001 standard. It makes company energy needs and consumption transparent and supports processes and procedures to achieve set targets.

Eco.On makes it possible for you to record and analyse the use of energy and energy consumption, as well as determining the variables which affect this for all media, such as electricity, gas, water, heat or compressed air.

Complex processing and production processes impose specific requirements for efficient energy planning. Eco.On is convincing here due to its intelligent, scalable structure, which portrays even complex consumption situations clearly.

Optimizing operating processes through more efficient energy usage with reduced costs is the main priority at all stages of Eco.On energy management. Eco.On instigates a long-term, profitable energy policy at all levels of the company.





## **eco. supports you with certification in accordance with the DIN ISO 50001 standard.**

The effective Eco.On improvement process is based on the PDCA (Plan-Do-Check-Act) cycle described in the standard. Eco.On guarantees efficient energy policy from introduction through implementation to monitoring and regular evaluation by senior management.

## **eco. is available everywhere, every time.**

Clear visualisation and intuitive operation contribute to the user friendliness of Eco.On. Communication is “to go” on Smartphone or at the workplace. By automation of information flows, all users from the production level to the CEO can receive their detailed overview of energy consumption and costs at all times. This means that it is possible to react quickly to changed situations.

## **eco. promotes energy consciousness from Management through to production level.**

Efficient energy supply and use works if everyone is included in the optimisation process, from production through to Management. Eco.On supports the persons involved in energy management with comprehensive, target group oriented reports. Thanks to the high degree of transparency, everyone in the team can make a contribution to efficient use of the valuable energy resource.

## **eco. is open for all measuring systems.**

Eco.On records the energy-relevant information from the whole corporate structure: in different industrial sectors (such as ABB, Bacnet, Beckhoff, Echelon, Modbus, ProfiBus, Siemens, Schneider Electric, Socomec), regardless of which interface or the complexity of the system. There are over 300 communication protocols available.



Lead the way in climate policy!

**Sustainable, long-term cost reduction benefits with *eco.*en**** thanks to increased efficiency!



**Analysis for benchmarking  
Identify and record energy flows.**

The systematic analysis examines consumption data for electricity, water, heat and air, evaluates load profiles and captures key figures.

Visualisation of the energy data recorded – for example with trend curves, alarm lists through to complex graphic reports – provides information on energy consumers. This allows users to derive optimisation opportunities and to deduce appropriate actions.

**Evaluation and comparison  
Determine savings potential accurately.**

The specific savings potential at all levels of industrial automation is assessed according to the analysis. You can create freely editable reports for the various production levels or correlate the established data with lots and products in the corresponding production period.

The integrated software tools can easily be used for failure and maintenance management and for handling the control and documentation. This means you can detect peaks in performance and at the same time read off comparisons and developments at any time.



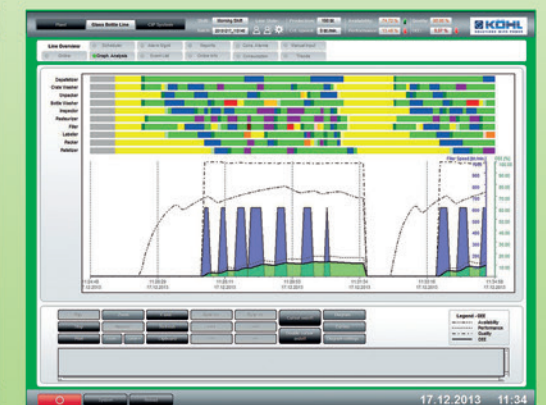
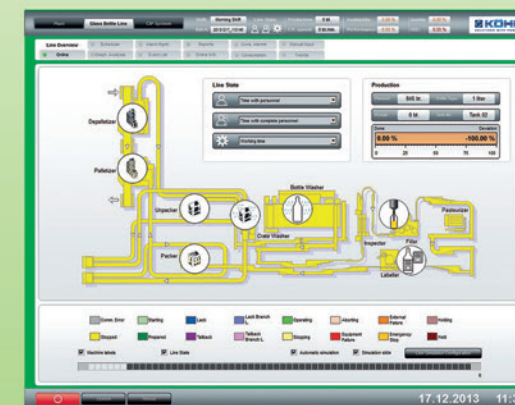
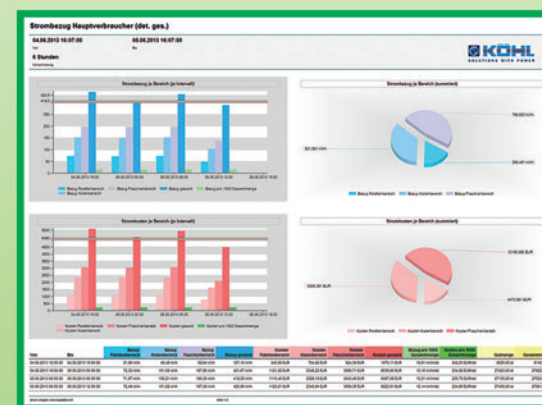
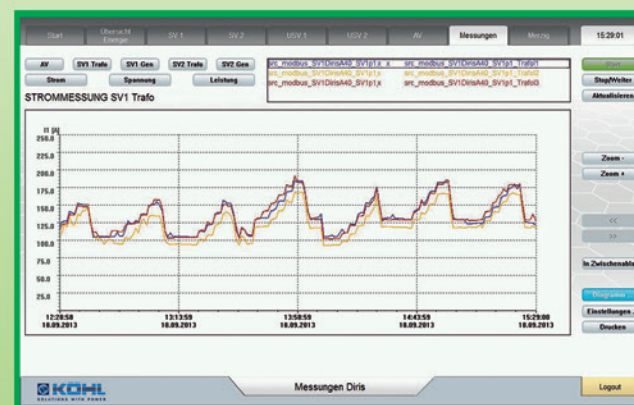
**Realise energy targets by effective measures.**

Eco.On links DIN ISO 50001 certification with Overall Equipment Effectiveness (OEE).

The real-time OEE calculations guarantee performance-oriented operations management. As a result, plant idle times are reduced.

**Sustained controlling through continuous  
energy balancing.**

ISO 50001 requires regular checking and evaluation by Management of the energy saving measures introduced. Eco.On energy management is more than purely measuring and documenting energy data. It offers reporting functions such as cost centre reports, pro rata apportionment of consumption to cost centres, weekly and monthly profiles, comparison reports and model calculations. You can use Eco.On for documenting the implemented adjustments and forecasting energy targets.



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Additional information