

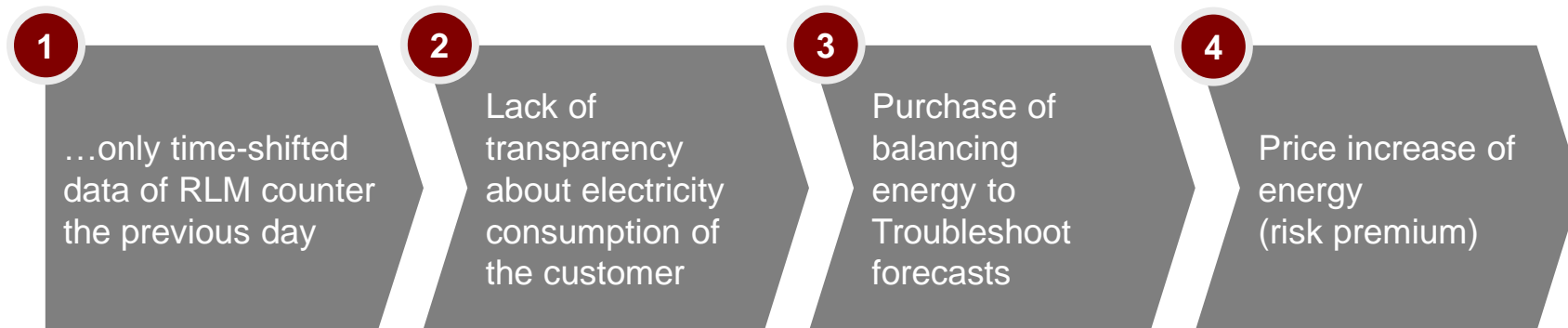


# Energy-efficient Building Automation EES Cavallino GmbH & Co. KG

Herzebrock-Clarholz, 11.02.2016

# Current situation from the perspective of the supplier

## The energy supplier has today...



## Solution:

EES Cavallino provides data in real time

# Current situation from the perspective of the B2B Customer

## Customer:

„With my provider today I have little contact, because I just get a standard price for energy. He does not tell me today how I can reduce electricity costs by my complicated processes: It is also clear - if I consume less, the provider makes less profit.

So I expect from my provider that he offers me a good solution to reduce energy costs. Then I'll stay happy with him. “

## Solution:

EES Cavallino organizes the processes for you for your customer

# Controller

Comprehensive Heat Control for:

- ✓ All usual boilers / block heat and power plant
- ✓ Thermal solar plant
- ✓ Combined or hot water tank
- ✓ Weather compensated mixed heating circuit
- ✓ Fresh water station
- ✓ Long-distance heating transfer station



# Controller

- ✓ System Controller for Heating and Solar Plants
- ✓ Manufacturer-independent system
- ✓ Visualisation of the hydraulic and plant conditions
- ✓ Data recording
- ✓ Sending of fault messages
- ✓ Remote maintenance via the Internet
- ✓ High flexibility



# Controller

Comprehensive control for:

- ✓ All usual air-conditioning equipment / inverter systems
- ✓ Cooling equipment
- ✓ Ventilation systems
- ✓ Warm air curtain
- ✓ Heat recovery
- ✓ Lighting / shading



# Controller

- ✓ Manufacturer-independent energy efficiency system
- ✓ Optimised heating / ventilation / air-conditioning
- ✓ Automatic lighting control
- ✓ Smart metering incl. performance diagrams
- ✓ Alarm management
- ✓ Access control



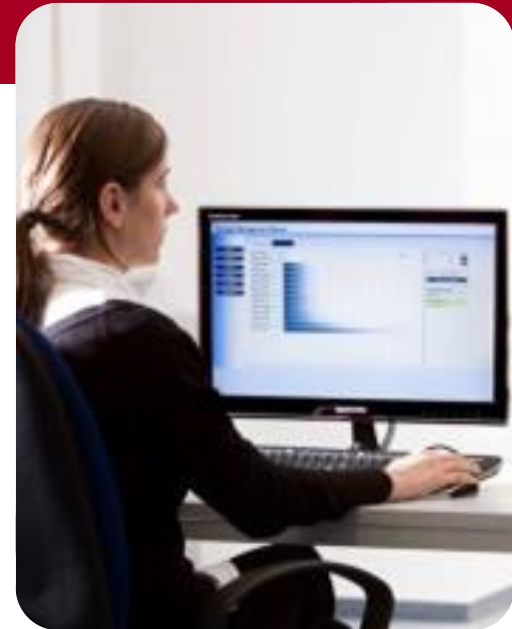


# Energy Management Server EMS

The Energy Management Server EMS provides for a continuous data recording of all consumption values. From considering individual fields and trades passing the real estates up to the exact overall consumption of the year of all recorded objects.

A continuous data recording is the **condition** for the implementation of a certified energy management system according to **DIN EN ISO 50001**.

With this data you would be able to plan your energy purchase and also find out the real estates with the worst energy consumption and subsequently work targeted in optimizing its energy consumption.





# Energy Management Server EMS

## Functions



Energy cockpit



Report function



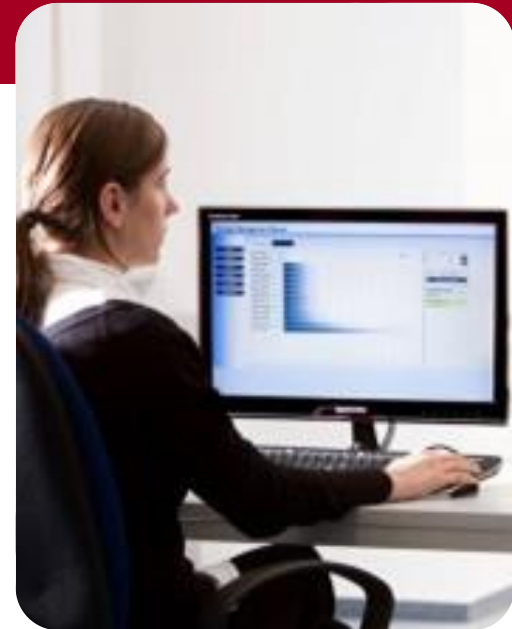
Benchmark functions



Object management

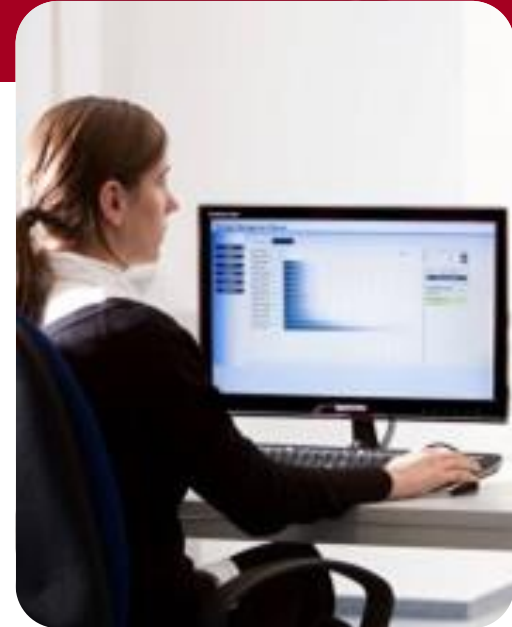


Failure management



# Energy Management Server EMS

- ✓ Central management of all real estates
- ✓ Energy cockpit
- ✓ Benchmark functions
- ✓ Failure management
- ✓ Evaluation of load profiles
- ✓ Automatic reports
- ✓ Data backup and update management



# Energy Management Server EMS



# Advantages for energy supplier

- ✓ Decentralized approach
- ✓ Complete control
- ✓ Range of positive and negative energy simultaneously in real time
- ✓ Requirements of a pre-qualification are met with the penetration via the control units
- ✓ Prognosis opportunities by considering weather data (wind, sun, temperature)
- ✓ Billable data base

