

*Switch-on warning  
and prevention*

# No patience



*Paper is patient. Paper manufacturers only to a certain degree. The cost of electricity makes them especially impatient because it represents a core cost factor for them. Ways and means of reducing this cost are therefore always welcome. The energy management system created by the SIMATIC Solution Provider KRIKO Engineering GmbH was just what one customer in the paper industry was looking for.*

## **f**acts and **f**igures

**Founded:** 1990

**Range of products and**

**services:** Engineering, instrumentation & control, planning and implementation of automation systems and process control systems, networks, complete systems, electronic engineering, automation

**Employees:** 25

**Business sectors:**

Power engineering and environmental engineering, process control and drives, building engineering

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It's like this: the power providers would like their networks to be as fully and evenly loaded as possible. If the limit value agreed with a consumer organization is exceeded, that runs into money.

The energy management system ensures first that the power demand is kept as low as possible and second it provides volumes of power for consumer organizations.

The tasks of the energy management system are many and varied. It calculates the correction power from the input variables and the power that can be connected to and disconnected from the controllable plant sections. Some consumers can store power and others can't. The energy management system switches consumers off and on, can also prevent switching on, and keeps a record of the switching commands.

KRIKO created this system on the new C7-626 hardware from Siemens. The C7-626 combines system advantages with those of a compact PLC. Up to 128 consumers can be switched via PROFIBUS-DP using twisted-pair cable or fiber-optic cable. The consumers can be up to 15 km distant from each other.

The operator interface of this hardware is pixel-graphics based and makes handling easier. The system can be expanded with STEP 7 and can be connected via H1 and TCP/IP as well as via PROFIBUS for operating data acquisition purposes.

At the paper manufacturer's, the energy management system was integrated with new hardware into the networked overall plant. However, it can also be used as a stand-alone application.

You certainly do need patience sometimes in life. But a system as advantageous as this is only born out of creative impatience.

*Provides volumes  
of power*