



**9.5**  
CENT  
per kWh  
with renewable  
energies

## **PROENERGIC®** **ENERGY MANAGEMENT: OPTIMIZED ENERGY FLOW AND REDUCED ENERGY COSTS**

Making clever use of renewables – for sustainable costs, resource conservation and ensuring that your company is fit for the energy transition.



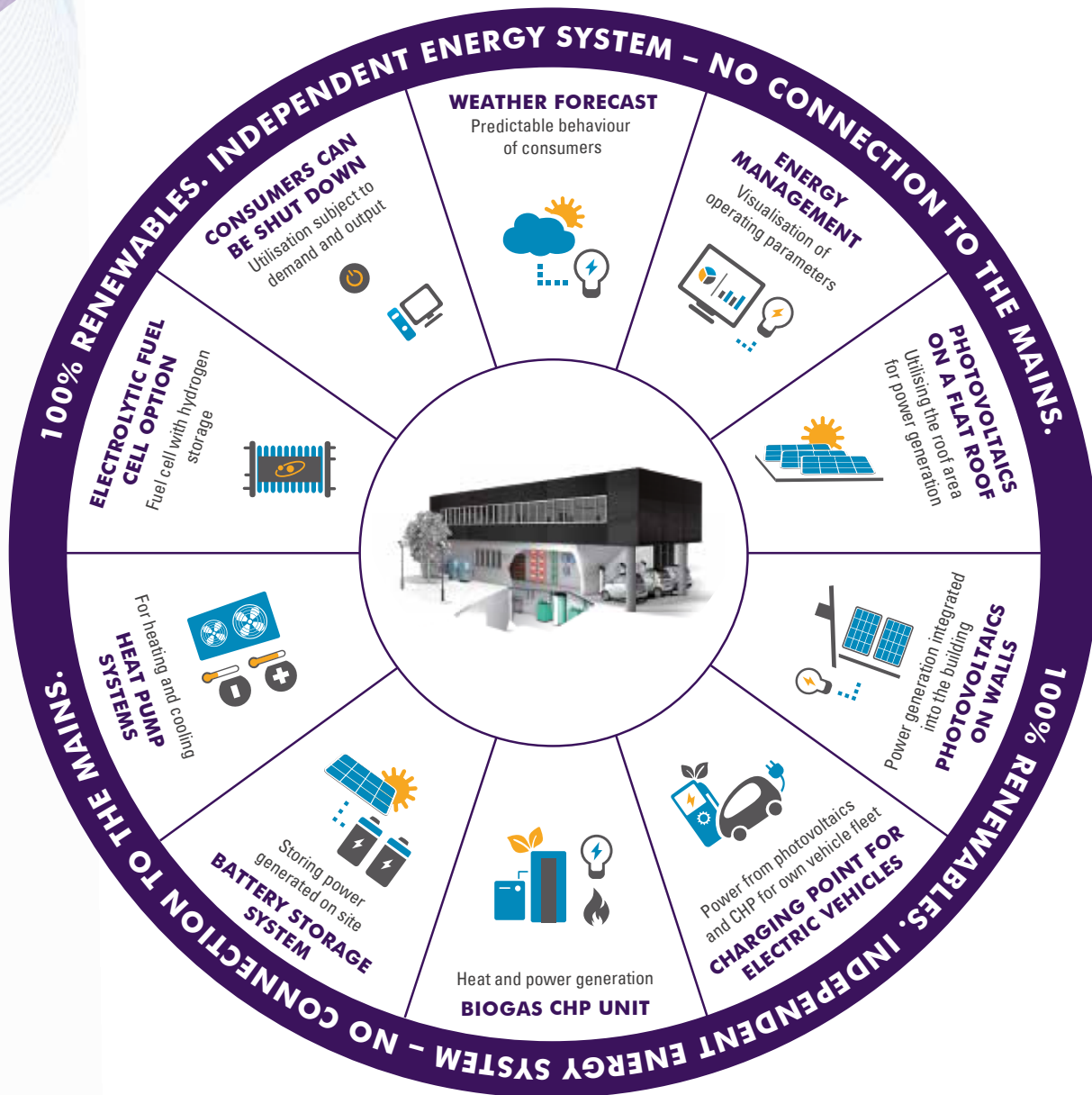
**PROENERGIC®**  
RENEWABLES FOR GREATER  
INDEPENDENCE AND  
SUSTAINABILITY.

**95**  
CENT  
**per kWh**

▲ **SUSTAINABLE COSTS**

The use of renewables cuts your energy bills permanently making ever-increasing energy costs a thing of the past. Proenergic® will assist you in optimizing energy processes and reducing energy generation bills.





### ▲ 2020 STATUTES ALREADY MET

It is rare that the technology sector sets new standards in advance of legislation. The Proenergic® energy management system allows you to meet the statutory requirements stipulated for 2020 today. The optimised energy efficiency of your building enables you to actively contribute to the success of the energy transition.

### ▲ INTEGRATED SOLUTION

Experienced engineers plan your energy supply. We don't only take care of your electricity supply but we are also concerned with generating heat and cooling as well as electric mobility. We meet your requirements through an integrated solution, based on our state-of-the-art systems and software.

### ▲ PREPARED FOR INDUSTRY 4.0

Proenergic® combines your building management with your production. Proenergic® compares your current energy consumption with forecasts for the energy generated on site for the coming days. This allows you to plan your production sequences at any time in order to deploy only affordable and efficient energy generated on site.

## SUCCESS STORY

PROENERGIC® IN PRACTICAL USE:  
MAKING OPTIMUM USE OF  
RESOURCES AND REDUCING  
OPERATING COSTS LONG-TERM.



### WE ARE ALREADY DOING WHAT OTHERS ARE STILL DISCUSSING

Our company's premises in southern Germany are totally self-sufficient in electricity which is supplied 100 % from renewables. A photovoltaic plant on the side of the building as well as on the flat roof makes connection to the public grid completely unnecessary. At times of low insolation the biogas operated CHP unit supplies the building with heat and power. Variable-speed heat pumps supply the building with heating and cooling. New ways of controlling the heat pumps enable a direct utilisation of insolation. Electricity is converted immediately into heating or cooling. A battery storage system with a 400kWh capacity stabilises the system and supplies the necessary energy reliably, even at night. Apart from generating heating, cooling and electricity, the power generated on site is also used to operate electric vehicles. These vehicles are charged intelligently when free energy is available. Proenergic® regulates and controls all energy flow and archives energy data. Energy consumption and energy generation is forecast with reference to the weather forecast for a period of 72 hours. Energy consumption is regulated accordingly in an intelligent way.



#### CHP units

Two modulating engine blocks generate an electrical output of between 9 and 40kW depending on the actual amount of energy required.



#### Battery storage unit

96 individual batteries store a mighty 400kWh capacity. Off-grid inverters ensure a stable operation without mains supply.



#### YOUR PERSONAL CONTACTS

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