



SOLUTIONS FOR HOSPITALS AND CLINICS

- + **Reliable Energy**
- + **Self-consumption optimization**
- + **Intelligent load shifting**
- + **Optional: emergency and standby power**

= Maximum energy reliability and cost management.

Hospital operators are currently facing major challenges. The drastic increase in electricity prices for indoor power supply and unreliable energy supply due to unstable grids hinder a cost-efficient economized operation difficult. In contrast, there are increasing demands for reliable energy. As a high demand for supply standards to a reliable energy supply. In addition to the fundamental demand for profitability and energy efficiency, a key focus is on the availability and the security of the energy supply.

At NEWTRON, these framework considerations are the focus of the product development. Our advanced and innovative solutions as well as our conceptual approaches take into account the overall energy supply, the demands of our customers for maximum functionality and the desire for a custom-fit applications based on our portfolio that includes scalable solutions, we generate suitable solutions for hospitals and clinics to achieve the highest possible customer benefit and to optimally supply the customer's energy demands.

The combination of availability, cost-effectiveness and energy efficiency is more important than ever to meet the current challenges. We offer appropriate concepts and offer individual advice.

Together towards 100% efficiency - sustainability and intelligence.



YOUR ENERGY UNDER CONTROL

Hospitals need innovative solutions for securing and supplying the electric and the heat energy demands an for optimizing their self consumption.

Take the initiative now and benefit 3-fold:

RELIABLE ENERGY. ECONOMIC. SUSTAINABLE.



We accompany our customers all the way in their projects from the project dimensioning to the feasibility study. we support you in the planning and in the developing of your custom-made concept.

If desired, we can offer assistance for the installation with the full maintenance of the desired project.

May we prepare your energy supply to be fit for the future?



DEMAND-DRIVEN SUPPLY

The NEWTRON energy supply solution can be integrated thanks to a modular structure consisting of battery storage systems, heat storage systems, controllable energy generation units and the energy charging management system. The specific requirements of the operator in regards to the energy demands (electricity and heat) are easily implemented through the management system and can be flexibly customized.

The modular battery storage system allows, for instance, comprehensive self-consumption optimization as well as advanced functions such as peak shaving and energy trading. These features minimize energy procurement costs and thus make a significant contribution to cost-effective operation.

Optionally, the NEWTRON power supply solution can also be designed with an extended scope of services, such as the realization of emergency and backup power supply. In this case, the battery storage system and the energy management system are modified to meet the additional requirements.

The required flexibilities and needs are synchronized through

NEWTRON controls your energy supply comprehensively and complementarily. Thereby heat - and power supply for your energy demands, e.g. building heating, hot water preparation, power supply, etc are reliably covered.

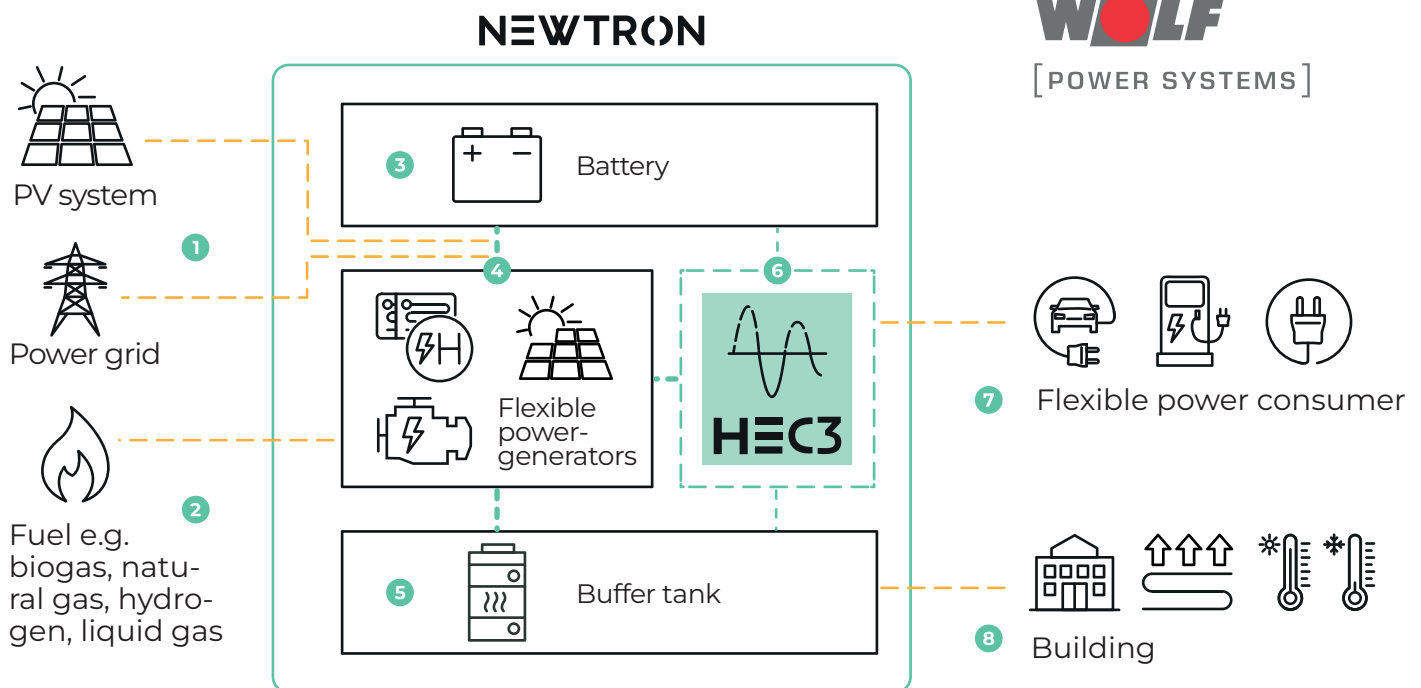
All energy requirements are monitored as a whole and supplied by a comprehensive energy automation system.

We accompany you on your journey, from the design of your individual NEWTRON energy solution, which is based on real data simulation, throughout each phase from the realization till the utilization phase.

powered by



[POWER SYSTEMS]



The HEC3 management is the brain and the standardized interface to the energy components, which are monitored and energy flows are controlled according to demand. In addition, the HEC3 energy management system recognizes all latent energy requirements and inherently regulates the energy supply. In the process, additional functions such as peak shaving are realized or existing flexibilities on the electricity market are actively marketed.

- 1 Already existing or planned regenerative energy resources such as photovoltaic systems can be easily integrated into the intelligent HEC3 control system.
- 2 NEWTRON can be operated with all energy sources, like Biogas CHP or fossil free renewable energies.
- 3 NEWTRON battery storage systems consist of state-of-the-art and safe lithium iron phosphate battery modules.
- 4 Your existing CHP units can also be integrated as flexible energy generators.
- 5 The most common and most frequently used heat storage systems are buffer storage tanks. Surplus heat is integrated into buffer storage tanks or into their local district heating network.
- 6 HEC3 is the intelligent control system that coordinates the energy flow from producers to consumers. It consists of:
System control, energy management and the visualisation.
- 7 Flexible energy consumers for example are medical equipment, general electrical consumption and e-charging poles. stations.
- 8 Neighboring buildings are flexibly powered according to their heat demand.



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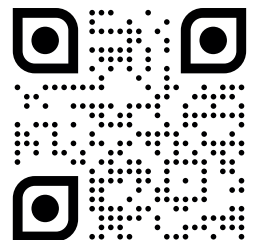
[POWER SYSTEMS]

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More info