NEWTRON

SOLUTIONS FOR COMMUNAL UTILITIES AND SUPPLIERS

+ Energy reliability
+ Cost optimization
= maximum public welfare

+ Self-consumption optimization
+ CO_2 - reduction

In the scope of the energy transition, public utilities are facing major challenges. The reliable and cost-effective energy supply of the communal infrastructure ist significantly more complex due to the constantly increasing demands and changes in the energy market.

In particular, the following supply requirements are demanded from the communal utilities:

- Charging park operator
- Operator of charging stations
- Operator of local heating networks
- Supplier of communal heat and power supply

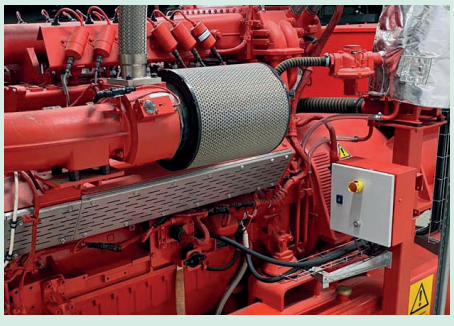
An essential aspect of the communal energy supply is the economic and affordable supply of energy to broad sections of the population.

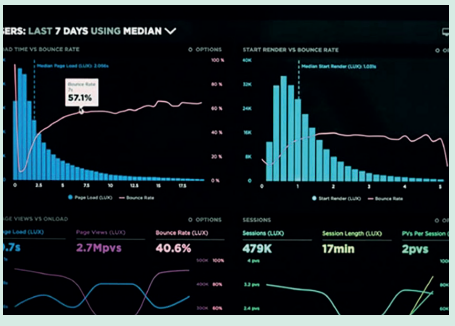
Together to shape a safe energy supply.

YOUR ENERGY UNDER CONTROL

Communal utilities need solutions for securing and reliably providing the desired power & heat demands, as well as for otimizing the self-consumption.
Take the initiative now and benefit 3-fold:

RELIABLE ENERGY AND PEOPLE-ORIENTED.





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 offer our assistance with the installation and the fullP maintenance of the desired project.

May we prepare your energy supply for the future?

DEMAND-ORIENTED COMMUNAL SUPPLY

The required flexibilities and demands are synchronized through digital networking of the individual components and the intelligent energy distribution.

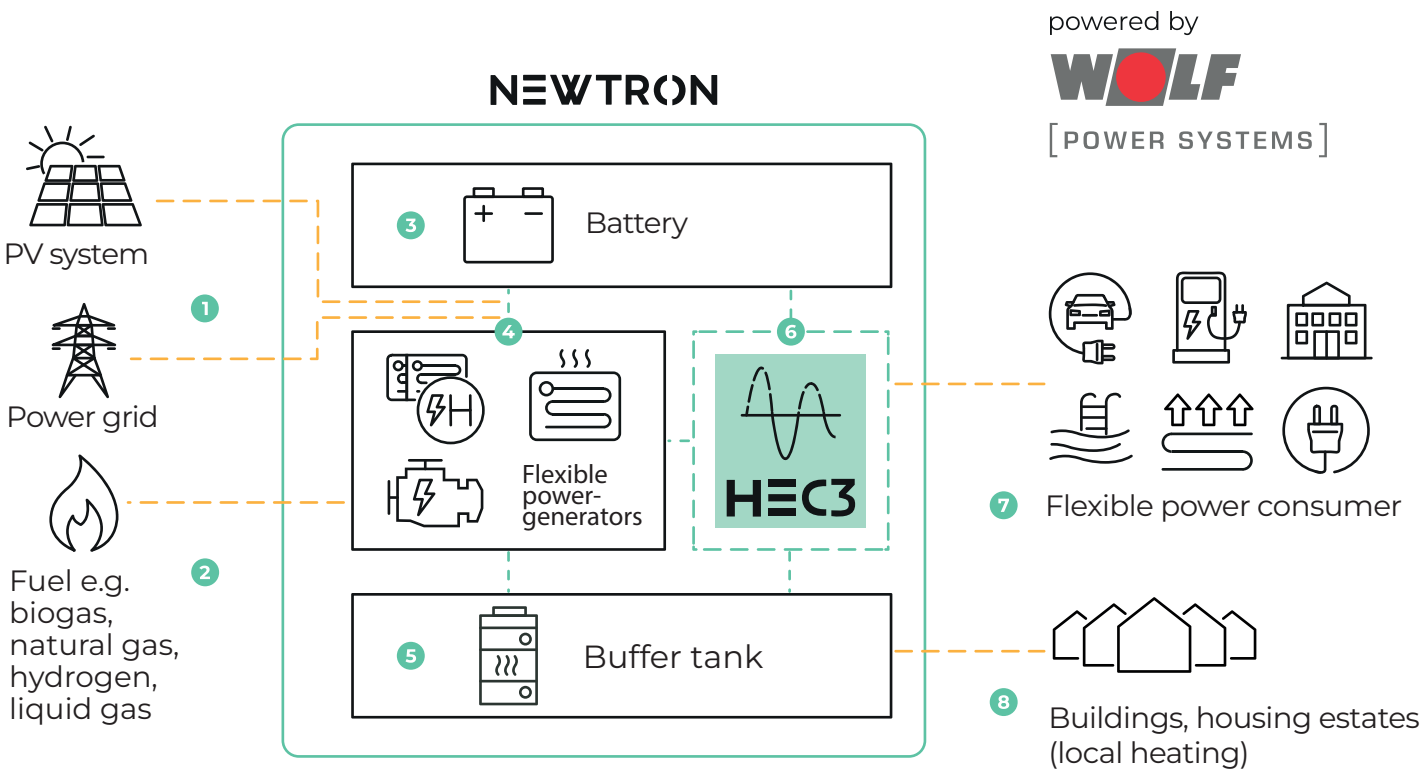
NEWTRON controls your energy supply comprehensively and complementarily. Additionally, NEWTRON ensures suppling Heating and power for your energy consumers such as heating centers, swimming pools, public facilities, construction yard supply or district solutions etc.

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

NEWTRON, as an energy sources, combines self-generation units such as urban PV plants, CHP plants, biogas plants with suitable grid-supporting components and intelligent energy storage systems.

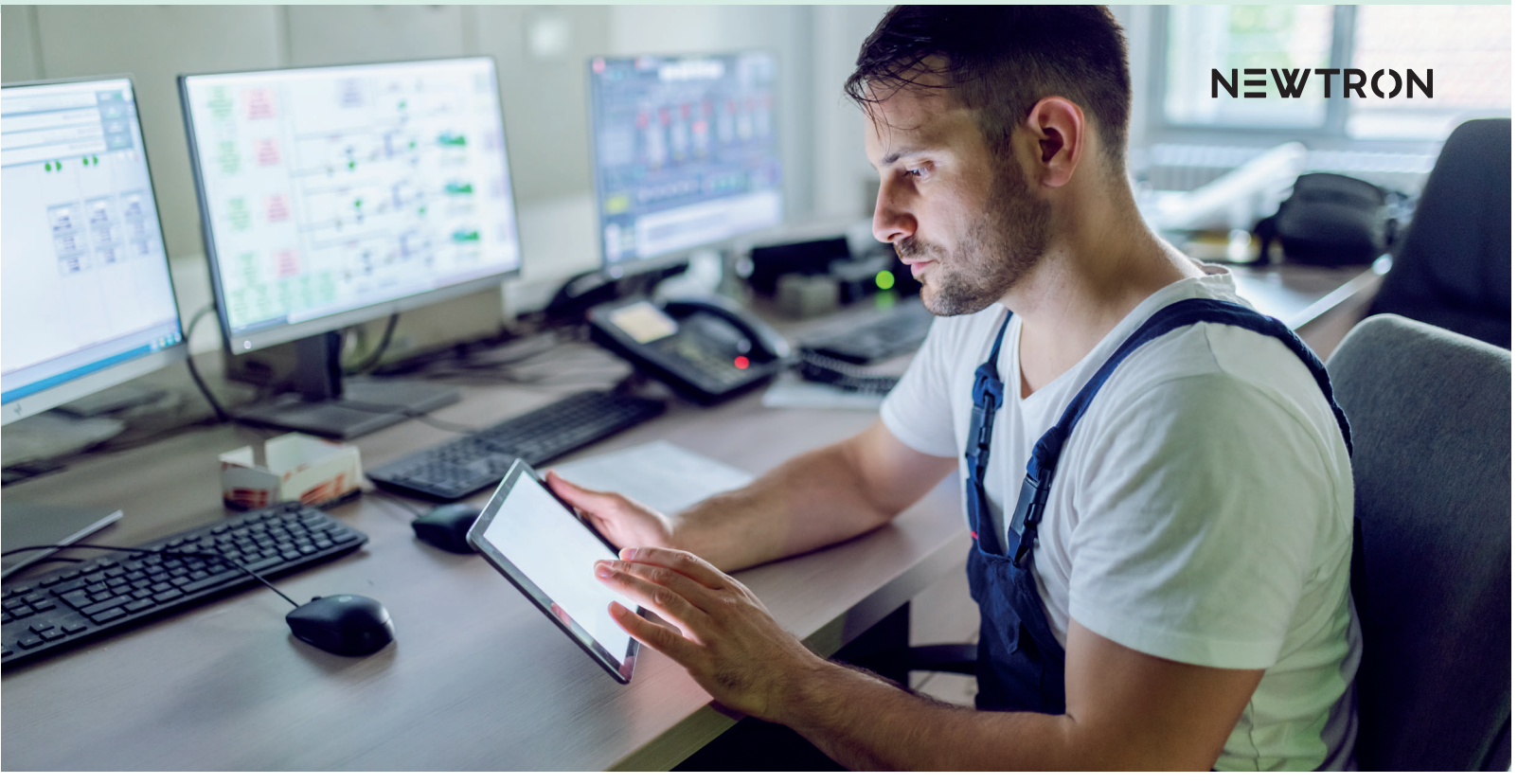
This achieves a cost-effective and a climate-friendly energy supply. Furthermore, it develops the community in a sustainable and livable manner.

We accompany you on your project, every step along the way, beginning from the design of your individual NEWTRON solution which is based on real data simulation, till the utilization phase.



HEC3 is the managing core and possess the standardized interface to different energy components, which are configured as requested. With the HEC3 energy management system, energy flows are identified and flexibilities are actively traded on the electricity market.

1. Already existing or planned regenerative energy generators such as photovoltaic systems can be easily integrated into the intelligent HEC3. control system.
2. For example, NEWTRON can be operated with all energy sources, including hydrogen.
3. NEWTRON battery storage systems consist of state-of-the-art and safe lithium iron phosphate battery modules.
4. Controllable energy generators could be CHP plants or large-scale / heat pumps.
5. The most common and most frequently used heat storage tanks are buffer storage systems. Surplus heat is stored in buffer tanks or directly integrated into the local heating network.
6. HEC3 is the intelligent control system that coordinates the energy flow from producers to consumers. It consists of:
   Plant control, energy management and centralized system.
7. Flexible energy consumers are communal facilities, e.g. e-charging poles, swimming pools, public buildings, local heating networks, heat and power supply. These temporarily draw energy from NEWTRON.
8. Adjacent buildings and residental areas are flexibly supplied with heat or cold energy.



WOLF
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More info