



SOLUTIONS FOR E-CHARGING STATIONS OPERATORS

- + VIRTUAL ENLARGEMENT OF THE GRID CONNECTION POINT THROUGH BATTERY SYSTEMS
- + PEAK-SHAVING THROUGH INTELLIGENT LOAD SHIFTING
- + SELF-CONSUMPTION OPTIMIZATION
- + RELIABLE ENERGY

= SAFE AND INTELLIGENT IMPLEMENTATION

Companies that manage or want to implement an E-charging station, are currently facing major challenges. A swift implementation and a cost-effective operation are hindered through the drastic increase in electricity prices, the high spending required for expansion of grid connection point (development, installation and operation), as well as unreliable energy supply from the public grid.

For the NEWTRON-Team, these constraints are the focus of our product development. Our advanced and innovative solutions and our conceptual approach take into consideration the overall energy supply as well as the demands of our customers for a highly functional and superior design. Our tailored solutions generate a maximum profit for E-charging station operators and companies. Our portfolio of scalable solutions offers a great variety in terms of the number of charging points, parking spaces, the size of the battery storage, the charging capacities, and even the roof area of the planned photovoltaic design.

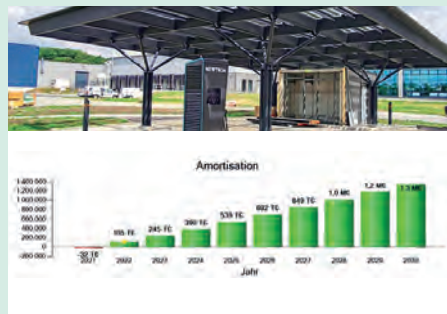
Rapid expansion of the charging infrastructure - future-proofed and independent.



YOUR ENERGY INVESTMENT UNDER CONTROL

E-charging station operators need solutions for a reliable and speedy project execution and sustainable and profitable operation. Take the initiative now and profit sustainably with the hybrid NEWTRON E-charging station.

INTELLIGENT. FUTURE-PROOFED. INDEPENDENT.



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 with the installation and the full maintenance of the desired project.

Together we implement your E-charging station!



TAILOR-MADE CONCEPT

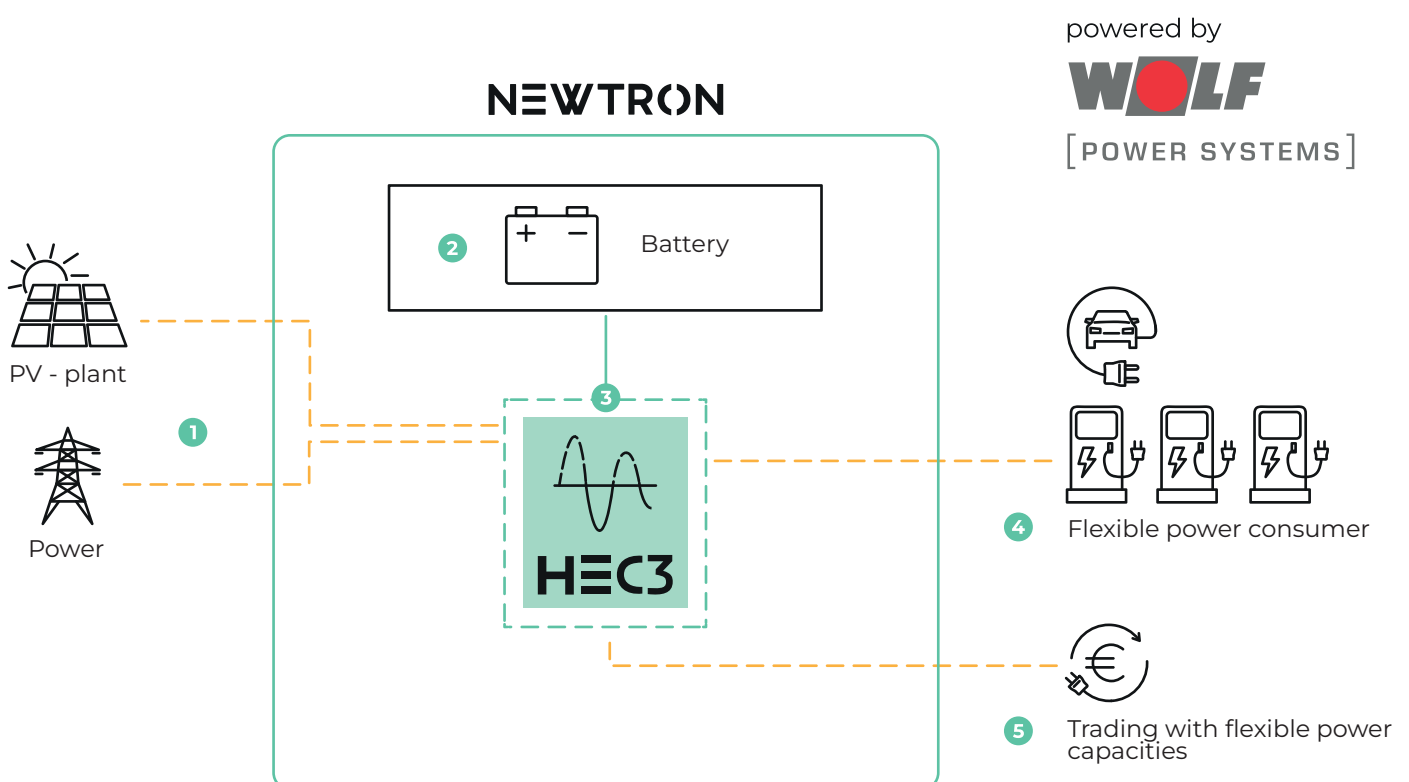
The NEWTRON E-charging station can be adapted to the different needs of operators in terms of the charging pole size, the number of charging poles and the needed parking spaces. Furthermore, NEWTRON can be easily expanded at a later date thanks to its modular structure, which consists of photovoltaic panels, NEWTRON battery storage, charging poles and the energy management system HEC3.

The specially manufactured photovoltaic roof design consists of a reduced support structure with tiled glass elements, on the surface of which PV modules were applied almost transparently, so that a shading effect below the roof is reduced to a minimum. Thanks to the unique design of the transparent PV modules, the degree of shading and the generation capacity of each module can be individually adjusted. Thus, the roof system can be modified to the design requirements.

When designing a fast E-charging station where a high volume of vehicle traffic is expected, it must be ensured that the planned charging power can be obtained from the planned grid connection point. If the charging power is not available, an expensive expansion of the grid connection point is unavoidable. NEWTRON's modular battery storage system, however, enables the realization of fast E-charging stations at any desired location without the need for the costly expansion of the grid connection point.

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

We accompany you on your project for designing a charging station, 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.



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 Existing or planned regenerative energy generators such as photovoltaic systems can be easily integrated into the intelligent control of the HEC3.
- 2 NEWTRON battery storage systems consist of state-of-the-art and safe lithium iron phosphate battery modules.
- 3 HEC3 is the intelligent control system that coordinates the energy flow from producers and to consumers. It consists of:
Plant control, energy management and the visualisation.
- 4 E-charging stations with regulated output power according to the available NEWTRON power.
- 5 Additional requirements for peripherals and illumination.



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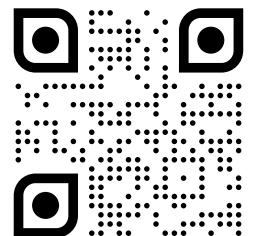
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More info