

econ peak – dynamic **peak & load management**

Load peaks can become a significant cost driver in the power supply. But they don't need to be!

With the highly flexible load management system econ peak, costs are reduced sustainably. Econ peak is one of the leading solutions in the field of load and charge management. Open interfaces and a steadily growing number of supported electricity meters, wall boxes and charging stations, as well as power generation and storage systems, allow its use in almost every conceivable system configuration.

Thereby, the econ peak load management grows with the customers' wishes – individual needs and special requirements are no obstacle. Software upgrades and additional substations allow the continuous

expansion of the existing system. It is no problem to add further load groups, additional self-generating-plants or electricity storage.

A product for:
Industrial and commercial customers of any size and from any sector, e. g. medium-sized companies, large corporations, senior housing, hospitals, hotels, agriculture.

Areas of application:

Photovoltaics and other self-generators of electricity: Preventing load peaks during electricity feed-in to ensure stability of the grid connection and to avoid expensive penalty charges.

E-Mobility: Dynamic charging load management avoids load peaks and thus helps to sustainably reduce energy costs while increasing supply security.

Ventilation systems: Intelligent control of ventilation systems to reduce load peaks without any compromise when it comes to operational safety..



Commercial kitchens: Shutdown control for kitchen appliances (e. g. steam cookers) to avoid load peaks.

Energy storage: Storage solutions optimize the use of self-generated electricity, serve to intercept power peaks and ultimately relieve the load on the grid connection.

Industry: Shutdown controls for various load groups in the industrial sector (e. g. heating furnaces or compressed air units) to avoid load peaks.

Technical information:

- Compliance with the power limit (target power) by trend calculation and an optimal switching strategy
- Expandable to up to 128 switching channels* with expansion modules
- Parameterization of load groups logical linking's*
- Management of up to 8 main meters as well as an extended kitchen module function*
- Expandable for charging management for power-oriented integration of charging stations*



*type-dependent

Application: E-Mobility

The future belongs to electromobility. New technologies are needed for monitoring and controlling to integrate charging services into buildings. With our innovative concepts and solutions, we connect and optimize these systems integrally. At the heart of it is the load management system econ peak. It helps you to keep emerging costs as low as possible. The interconnection of different charging stations creates a holistic solution, which can be optimally integrated into your company's energy management. That way, all vehicles in need to charge are supplied with the necessary power without exceeding the available connection power or driving up the costs on the electricity bill. Moreover, the constant monitoring provides full transparency and enables optimization with the inclusion of the entire object. The control of the charging stations works dynamically.



Your advantages:

- Different charging scenarios: time-controlled, prioritized or electricity price-oriented
- Possibility to charge any number of vehicles as flexible and fast as desired
- By monitoring the supply directly from the generator (e. g. power supply company, PV), the maximum charging power is available for as long as there are capacities in the system – now and in the 15-minute-load
- Optional: Monitoring of the low-voltage sub distributions to dynamically control charging stations depending on the upper load limit of the particular building / part of the building in which they are installed

Application: Photovoltaics system control

Solar energy allows companies to produce their own electricity at a lower cost and at the same time it provides the chance to improve the companies CO₂ footprint. With econ peak you will be able to use your own generated energy by PV systems more efficiently than ever before. econ peak enables a higher yield of the PV system by targeted self-consumption and storing surplus energy. In times of high energy demand, previously stored electricity can be released. Additional storage solutions make it possible to use one's own electricity not only the moment it is generated. The storage solution is loaded proactively with econ peak to make sure load peaks are always covered with stored electricity.

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- Sustainable reduction of energy costs
- Sustainable reduction of CO₂ emissions
- Targeted and economical use of self-generated energy
- Optimizing the share of self-consumption of self-generated energy
- Relieving the grid connection point

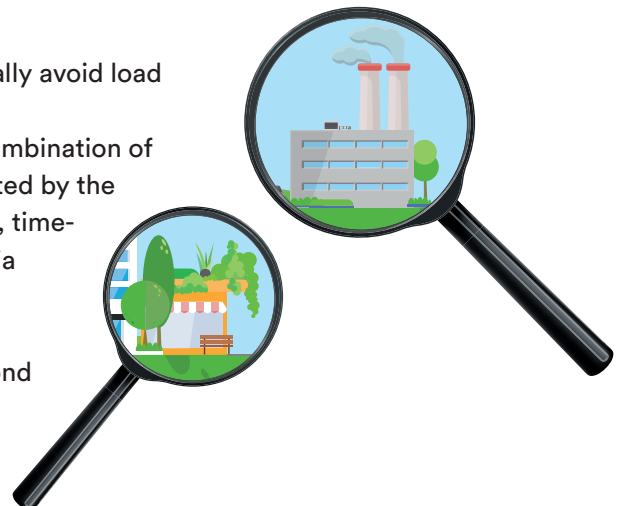


Further applications:

econ peak offers numerous other possible applications. In the industrial sector for example, there are shutdown controls for various load groups (e. g. heating furnaces or compressed air units) to avoid load peaks. econ peak enables the control and regulation of any motor-driven machine as long as it supports the regulation and the company's business processes are not interrupted.

In commercial kitchens, econ peak can specifically avoid load peaks by implementing a shutdown control for kitchen appliances (e. g. steam cookers). Any combination of all the mentioned fields of application is supported by the intelligent system. In addition, complex circuits, time- and tariff-dependent behavior and the control via external signals can easily be integrated.

With econ peak, automation is possible far beyond the area of pure load management.



Our experts are happy to assist!

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