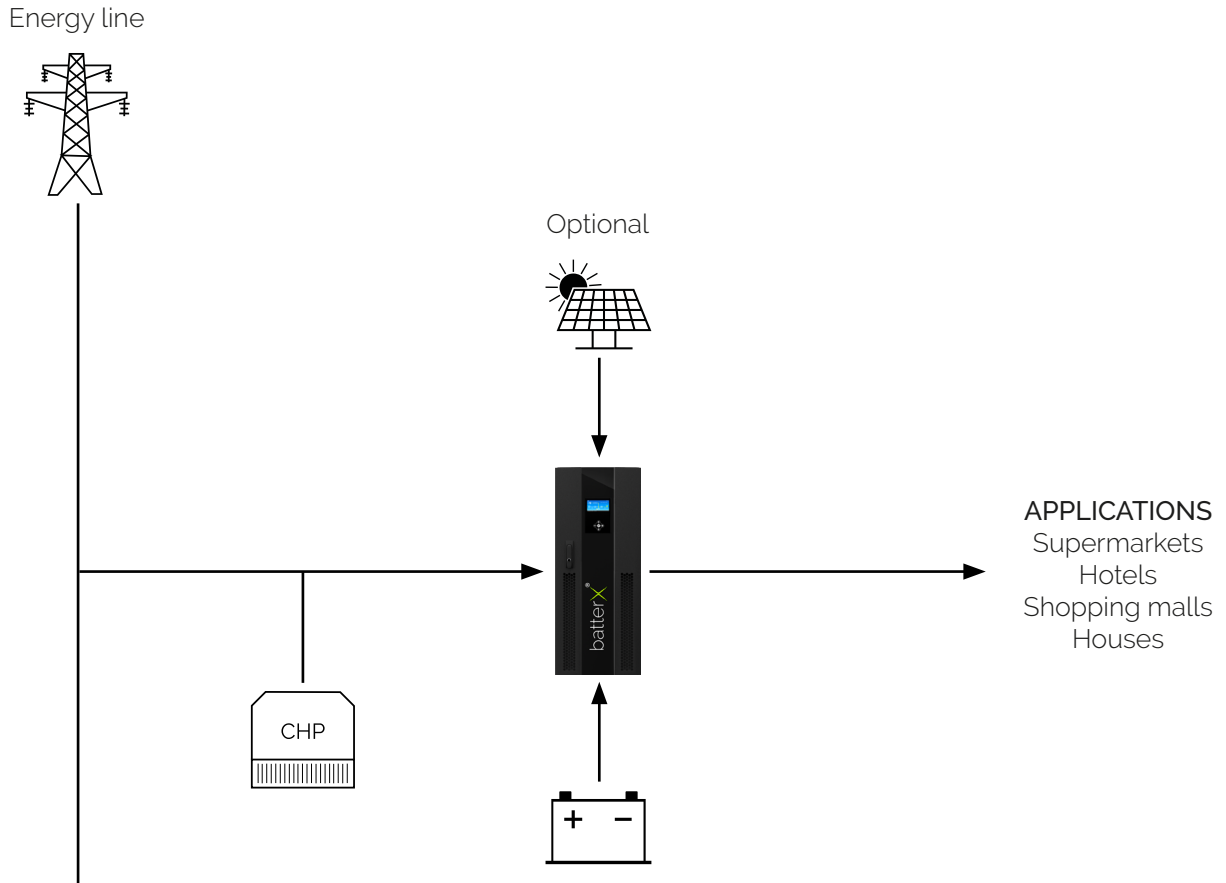


CASE STUDIES

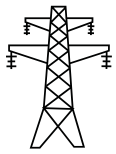
COGENERATION UNIT (CHP)



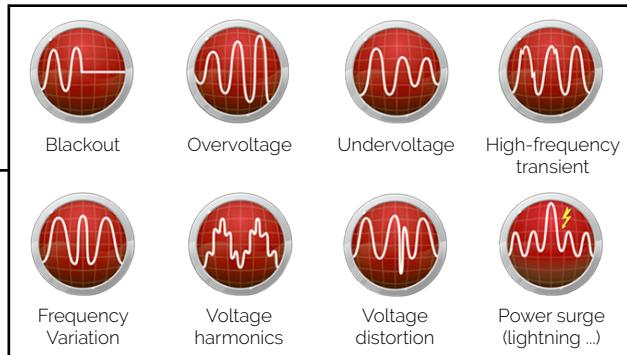
HOW DOES IT WORK?

CHPs produce heat and electricity.
 In our case the electric energy is used to charge batteries
 It is an extremely attractive source of energy.

Energy line



Perfect protection in the event of:



100% stable



Power range
from 10 kVA
to 4 MVA



ADDED-VALUE



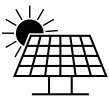
Online UPS systems are connected between grid and consumer. It is only this technology that guarantees for a 100 % uninterruptible power supply without switching time. Conventional energy storage systems cannot provide this service due to their design and connection to the grid.

Peak Load Management

Controllable limitation of grid energy offers peak load management. The price per kWh can thus be reduced considerably. The required, yet missing energy due to limitation is then provided by the batteries and/or a coupled PV system.

Infrastructure

An already available power infrastructure (transformers, supply leads) need not be, as the case may be, increased. The time and cost savings are correspondingly high. Consumer consumption can therefore be many times higher than the maximally available grid energy.



Decentralised power supply

A connection to a PV system using a batterX[®] charge controller is possible any time. This energy is then primarily used to supply the consumers and to charge the batteries. The latter also in the case of a blackout.

Sustainability

An Open Source Module and Linux based software provides for the precise control of the energy mix. Consequently updates, upgrades and the monitoring of the system are assured. Thus the system can operate with the most favourable electricity price, can use weather data, all in favour of increasing efficiency.

Profit

Investments are calculable as the system always and automatically supplies itself with the most favourable electricity rates and can, depending on weather forecast, control the energy mix and thus assures the optimisation of the return on investments.

Third party providers

A number of programmable interfaces make it possible to control a wide range of products such as home electronics, grid technology, CHPs and other heating systems.

