

# The **storage** solution for energy Management on Smart Grids



Energy storage is the core element for the transition of the electric utility system to Smart Grids. Whatever the application in this new environment, AEH Power Conversion System and storage – is the concrete answer.

## Smart building and cities

**Reduce the impact of increases in the electricity retail price**

- **Maximizes the self-consumption** at building or community level. The renewable energy produced is used to supply the loads. Any energy surplus is stored in the AEH Power battery system. This stored energy is used later to supply the load.
- When the electricity retail cost is low, **Stores the energy** to supply the loads during peak demand when prices are high.

## Solar parks

**Manage the intermittence of Renewable energy production.**

**Ensures the production profile** of an intermittent renewable energy plant by:

- limiting the production to a predefined value
- fixing a constant ramp up and ramp down

## Grid support

**Meet the challenge of demand-response energy balance.**

When directly connected to the grid. **Improves the stability and the management** by grid operators by:

- charging the batteries in periods of surplus energy production
- charging and discharging the batteries for frequency regulation
- discharging the batteries into the grid during peak consumption

