

# Quality matters!

Simply powerful. Simply reliable.

## 1. Storage battery stores electrical energy so that it is available later.

- Individually dimensioned for your consumption profile
- High storage capacity with a small space requirement
- High degree of efficiency
- Fast and cost-effective installation



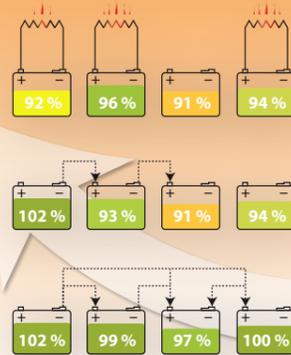
## 2. Battery inverters automatically convert electricity fed in and out into compatible DC or AC power as needed.

- Powerful even with heavy loads
- Efficient and solid thanks to high quality components
- Reliable due to optimized service processes
- Certified for all applications



## 3. Battery management systems monitor each individual battery module and communicate with the energy management system.

- Comprehensive control of the storage battery
- Smart and compatible with the entire energy system
- Optimizes all operating conditions
- Ensures high battery life (guaranteed)



## 4. Energy management systems control energy flows centrally and efficiently switch producers, consumers and storage.

- The smart brain of the energy system
- Easy and intuitive to use
- Individualized for every application
- Self-learning and automatically updated



## 5. Assembly of components by a qualified partner.

- Competent with many years of experience
- Safe thanks to state-of-the-art equipment
- Expertise through continuous training
- Certified for all service work



Your solar and storage partner:

Find answers to many of your questions and first impressions of your storage battery on our website or just give us a call!

# We use STORAGE BATTERIES!



## COMMERCIAL STORAGES.

Simply economical.  
Simply safe.

“We use a **COMMERCIAL STORAGE** system because cutting consumption peaks significantly reduces our energy costs.”

“I use a **COMMERCIAL STORAGE** system to increase my self-consumption of solar power in order to save money.”

# Why STORAGE BATTERIES?

Simply profitable. Simply independent.

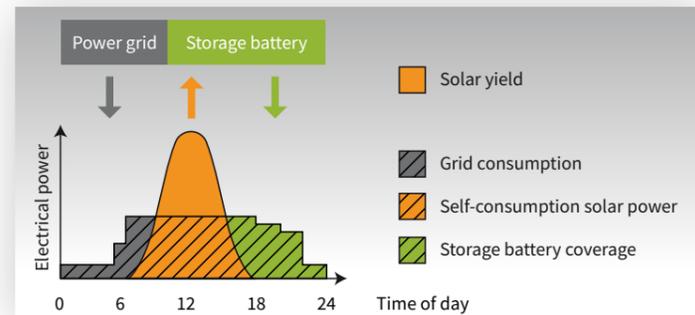
STORAGE BATTERY systems offer a variety of financial and utility advantages, with and without a solar power system:

- Reduce electricity costs
- Reduce grid fees
- Avoid grid expansion costs
- Becoming more independent
- Protection against power failures

## FACTOR OF SUCCESS #1

### Optimization of self-consumption

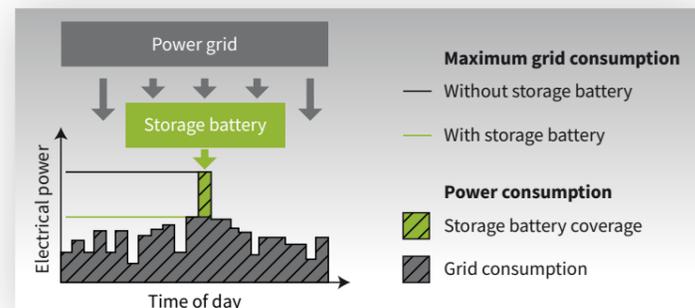
By storing surplus solar power to use it later, grid consumption and thus costs can be reduced. The more you consume of your self-generated electricity (e.g. with production facilities or electric vehicles), the more costs you save. In addition, you reduce the proportion of CO<sub>2</sub>-intensive grid electricity.



## FACTOR OF SUCCESS #2

### Peak-load shaving

High connection costs and grid charges of the utility company due to consumption peaks are avoided by the intelligent use of a storage battery. Your grid fees are calculated depending on the peak values of your power consumption. Therefore, even short peaks can increase grid fees significantly. Modern storage batteries can cut these power peaks targeted and drastically reduce your electricity bill.



## FACTOR OF SUCCESS #3

### Prevent expensive grid expansion

Particularly companies with short and high electricity peaks or with the intention of investing in new electric consumers (e.g. e-mobility), have a huge savings potential through peak-load shaving. The costs of investing in a storage battery is often significantly less than the costs associated with a grid expansion, particularly if extensive work is needed for laying new cables.

## FACTOR OF SUCCESS #4

### Secure power supply

With a storage battery, you can temporarily work without the electricity grid. This can prevent data loss or potential financial loss from a possible power outage. In combination with at least one of the other factors of success, such an emergency power supply can amortize quickly.

## Subsidies, financing, taxes

We are happy to help you to get an idea of the possibilities of state funding, favorable financing and individual tax optimization.

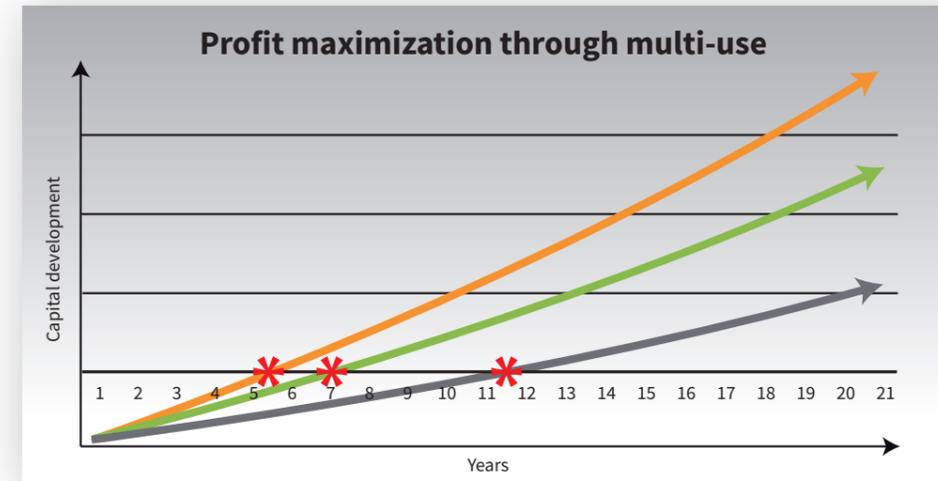
**The intelligent combination of several factors of success makes it possible to shorten the amortization period significantly in most cases.**



Bildquelle: Andreas Keuchel

# When do STORAGE BATTERIES pay off?

Comparative presentation of the profitability of commercial storages.



Multiple use for combined business models

Use for peak-load shaving

Use for optimization of self-consumption

\* Payback period: Time until complete amortization of the investment costs

1. Decisive for the amortization time is the type of business for which the storage battery is to be used. Out of this, among other things, the nature of the power consumption profile and the annual electricity consumption can be concluded.
2. Whether an existing system or new installation, PV systems and commercial storages complement each other ideally and together allow increased return.
3. If, in addition, peak-load shaving can avoid expensive grid expansion or advantages in terms of electricity purchase costs, this greatly reduces the payback time. Even more economical is a combination of multiple storage applications. Intelligently used commercial storages pay off after only a few years!
4. If the storage can additionally provide an emergency power supply, this lowers the specific investment costs and the profit phase after the \*payback period is further extended.

## Typical payback period in years

| 1. Type of business                     |                                     | 2. PV-system | 3. Additional benefits besides maximizing self-consumption |                        |                      |                             |             |             |
|---|-------------------------------------|--------------|--|------------------------|----------------------|-----------------------------|-------------|-------------|
| Consumption profile                     | Example                             |              | No additional benefit                                      | Reduction of grid fees | Avoid grid expansion | Several additional benefits |             |             |
| Low consumption, short, high load peaks | Dairy farm, bakery                  | With PV      | Light Green  | Light Green            | Light Green          | Light Green                 | Light Green | Light Green |
|   |                                     | Without PV   | Orange   | Orange                 | Light Green          | Light Green                 | Light Green | Light Green |
| Frequent, low load peaks                | Agriculture, production, gastronomy | With PV      | Light Green  | Light Green            | Light Green          | Light Green                 | Light Green | Light Green |
|   |                                     | Without PV   | Orange   | Orange                 | Light Green          | Light Green                 | Light Green | Light Green |
| Large load fluctuation                  | Craft, supermarket                  | With PV      | Light Green  | Light Green            | Light Green          | Light Green                 | Light Green | Light Green |
|   |                                     | Without PV   | Orange   | Orange                 | Light Green          | Light Green                 | Light Green | Light Green |
| Low load fluctuation                    | Craft, trade, medical practices     | With PV      | Light Green  | Light Green            | Light Green          | Light Green                 | Light Green | Light Green |
|   |                                     | Without PV   | Orange   | Orange                 | Light Green          | Light Green                 | Light Green | Light Green |
| Constant consumption, no load peaks     | Administration                      | With PV      | Light Green  | Light Green            | Light Green          | Light Green                 | Light Green | Light Green |
|   |                                     | Without PV   | Orange   | Orange                 | Light Green          | Light Green                 | Light Green | Light Green |
| 4. Emergency power supply interesting?  |                                     |              | No   | Yes                    | No                   | Yes                         | No          | Yes         |

| Legend | < 4 | 4 - 5 | 5 - 6 | 6 - 8 | 8 - 10 | 10 - 12 | 12 - 16 | > 16 |
|--------|-----|-------|-------|-------|--------|---------|---------|------|
|--------|-----|-------|-------|-------|--------|---------|---------|------|

We gladly advise you on which individual savings options are available for your company.