FEMS App Peak Shaving

Version:2023.4.1

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1. Introduction

Dear customer,

Thank you for choosing the "FEMS App Peak Shaving". You are welcome to send us your suggestions so that we can further improve the quality of our products.

2. Installing the app

When you ordered the "FEMS App Peak Shaving", you received a 16-digit license key. You can use this license key to redeem the app independently in the FEMS App Center.

Find instructions on how to proceed here.

3. FEMS App Peak Shaving

While private customers only pay the pure "working price" for their electricity consumption, i. e. a price per kWh, industrial customers also pay a performance price. This results from the maximum measured output during a month or a year and can amount to a significant proportion of the electricity costs. Here, the "FEMS App Peak Shaving" offers help.

As soon as the "FEMS App Peak Shaving" has been activated on your FEMS, you will see this widget in your monitoring:

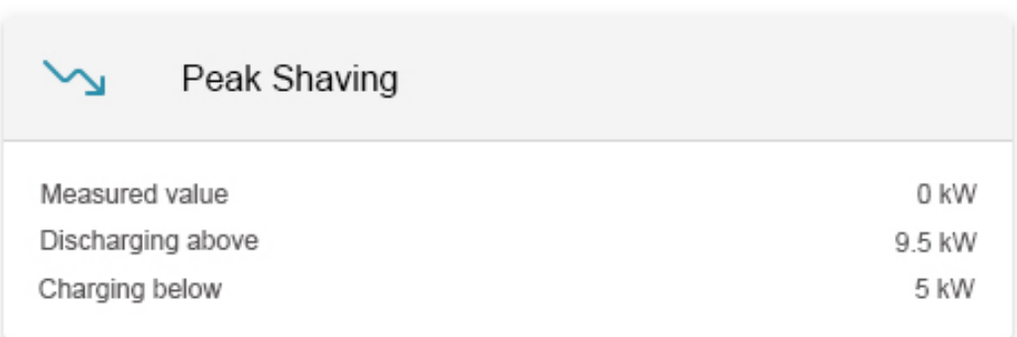

Figure 1. Widget

Measured value

The power currently measured at the grid connection point in [kW].

Discharge above

The configured "Peak Shaving power" in [kW].

Charging below

The configured "Recharging Power" in [kW].

The "FEMS App Peak Shaving" controls an electrical energy storage system in such a way that the battery is

discharged during high grid consumption in order to keep the power at the grid connection point below a defined value ("peak shaving power"). In the example above, this value is 180 kW.

As soon as the grid consumption decreases again and falls below a second threshold value ("recharging power"), the battery recharges itself to be ready for the next peak load. In the example above, this value is 130 kW.

Click on the widget to open the detailed view of the FEMS App:

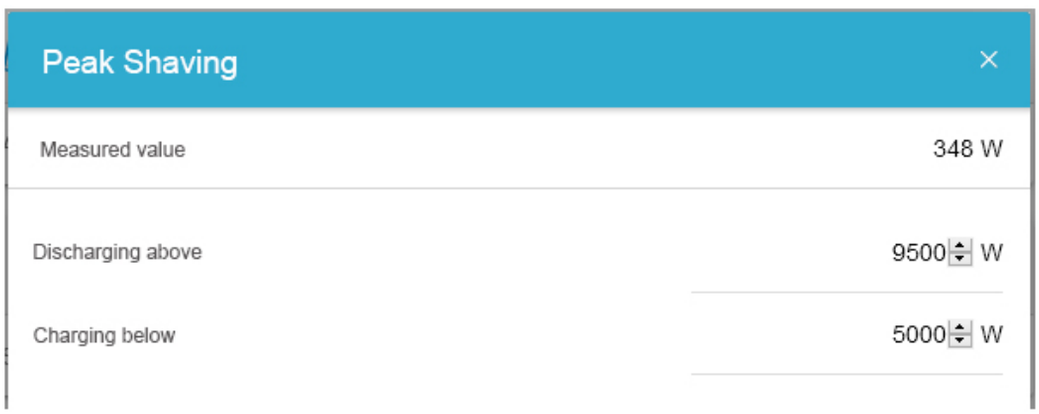

Figure 2. Detailed view

Here you have the option of adjusting the "Peak Shaving Power" and "Recharging Power".

Measured value

The power currently measured at the grid connection point in [W].

Discharge above

The configured "Peak Shaving power" in [W].

Charging below

The configured "Recharging power" in [W].

The value of the "peak shaving power" must not be less than the "recharging power"!

The function of Peak Shaving can be traced in the historical view of the energy monitor:

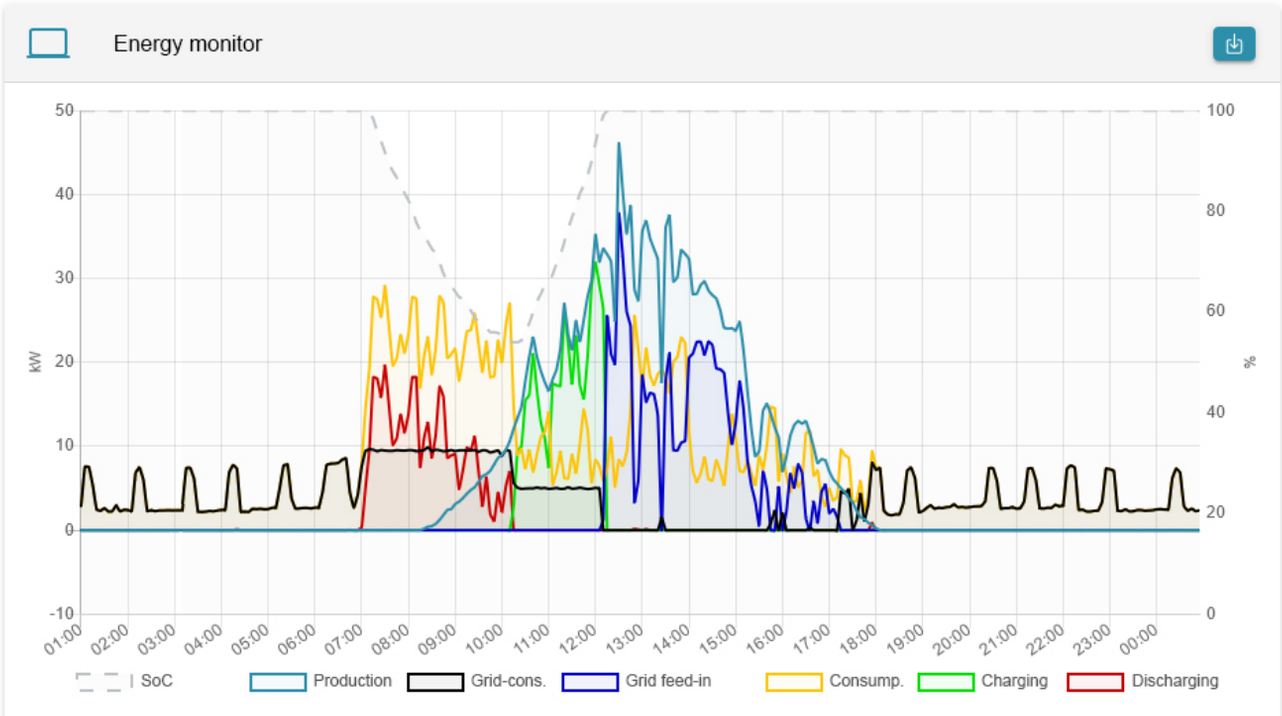

Figure 3. FEMS App Peak Shaving History

The detailed History widget for the FEMS App Peak Shaving shows:

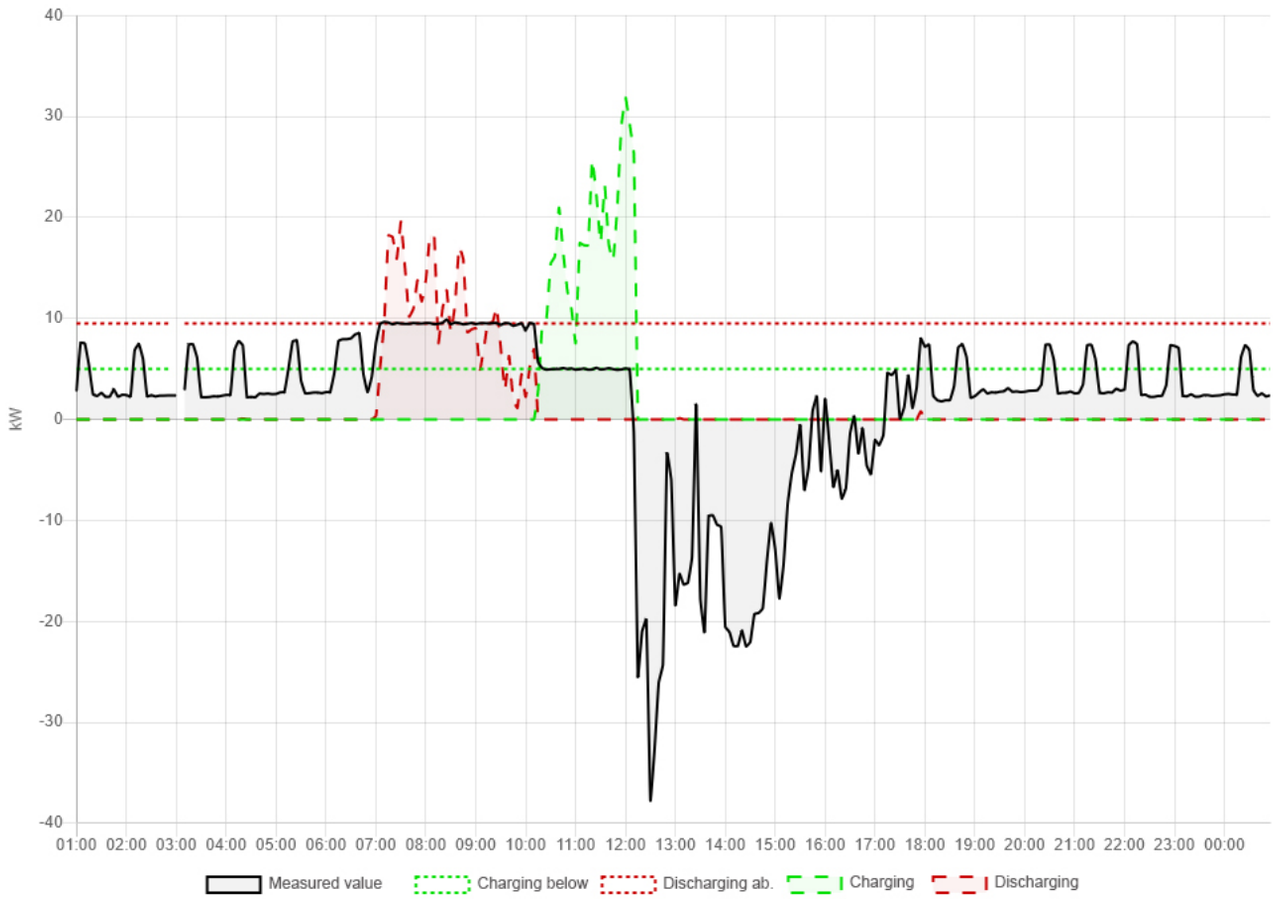

Figure 4. FEMS App Peak Shaving History overview

Measured value (black)

The power measured at the grid connection point.

Discharge above (red dotted line)

The configured "Peak Shaving power".

Charging under (green dotted)

The configured "Recharging power".

Charging (green dashed line)

The actual charging capacity of the electrical energy storage system.

Discharge (red dashed line)

The actual discharge capacity of the electrical energy storage system.

4. Contact

For support, please contact:

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5. Directories

5.1. List of illustrations