

Energy Journey

Continue your Energy Journey and expand your system—e. g. with additional storage capacity, heating elements, heat pumps, wall boxes, and the corresponding FEMS Apps. You'll get an overview of your Energy Journey so far, and you'll also see the next steps for expanding your system in a meaningful way.

History of Your Energy Journey

The *History* submenu item displays graphical data for your system regarding:

🔋 Production, 🔌 Charging, 🔌 Discharging, 🔌 Grid feed-in, 🔌 Purchased from grid, 🔌 Consumption, 🔌 State of Charge (SoC, dashed line)

You can choose between the time periods *Day*, *Week*, *Month*, *Year*, and *Total Period*. You can also display a custom (different) time period. The values are displayed in kWh.

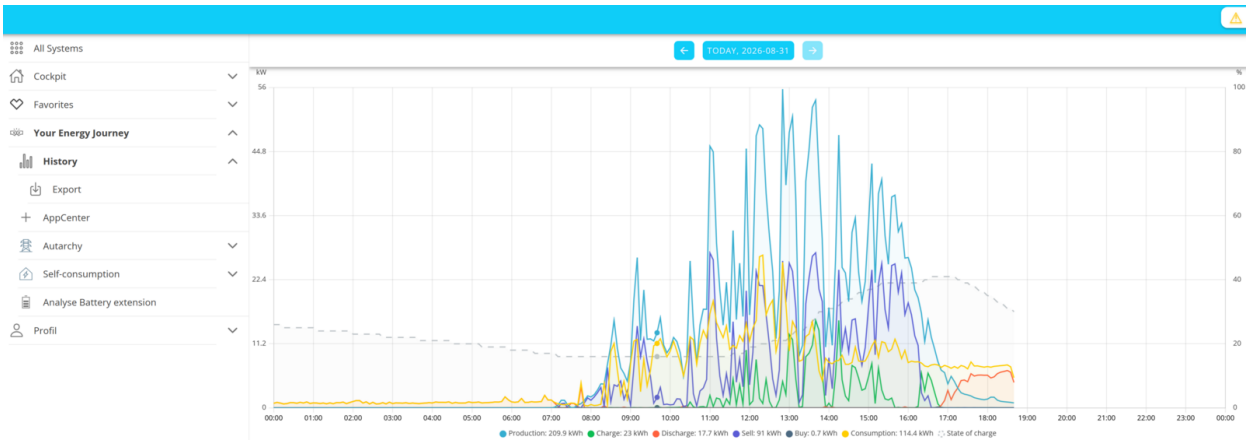


Image 1. History — Daily View

Clicking or tapping on the respective value in the legend hides or shows the corresponding graph.

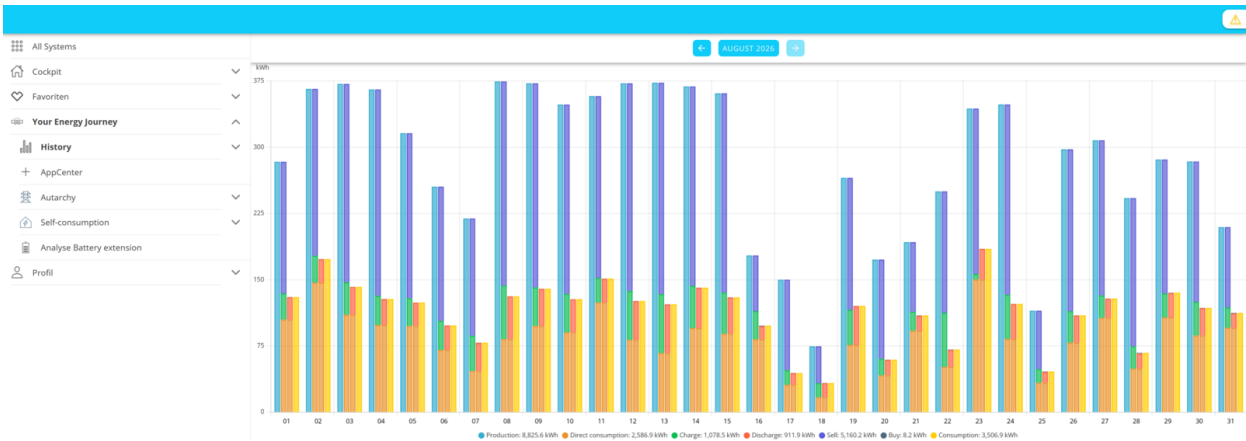


Image 2. History — Monthly View

In the monthly and annual views, the State of Charge (SoC) of 🔋 is replaced by Direct Consumption 🔌 .

Select *Export* under the History menu item to export the values for the selected time period as an Excel file (.xlsx). By default, the file is located in your device's Downloads folder. The file name includes the FEMS number and the time period for which the values were exported.

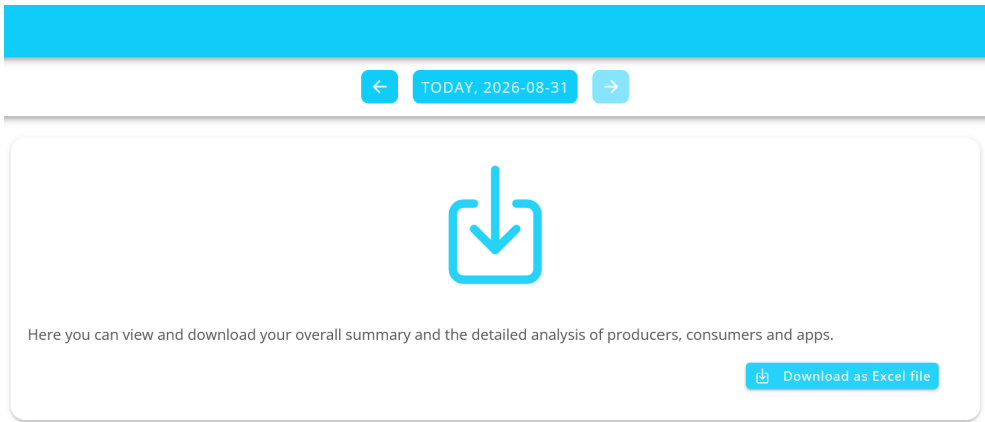


Image 3. History — Export

FEMS AppCenter

The AppCenter for registering, redeeming, and managing license keys can be found in the main menu under *Your Energy Journey*:

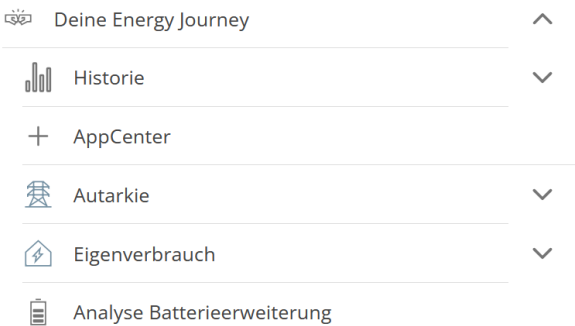


Image 4. Hauptmenüpunkt Energy Journey — FEMS AppCenter im Untermenü

You will then see the AppCenter in the main window:

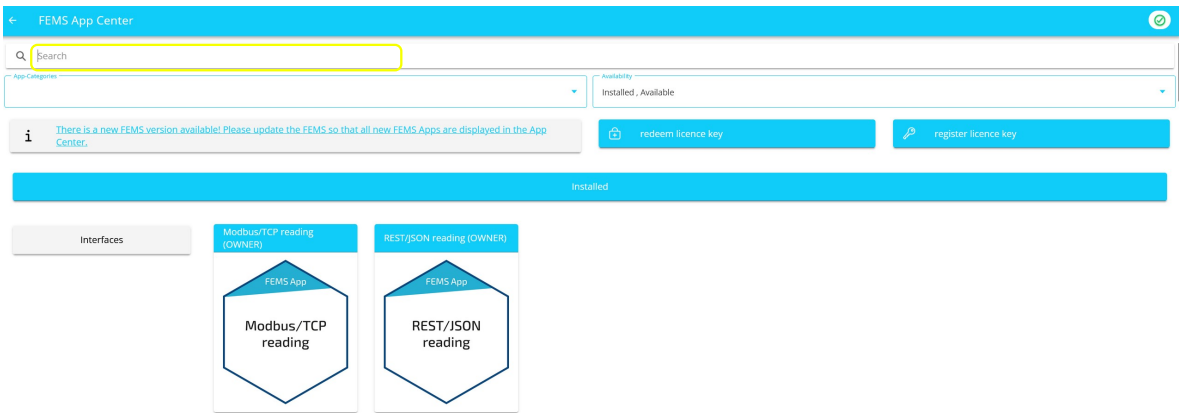


Image 5. FEMS AppCenter — Hauptfenster

From there, you can continue with the [AppCenter features](#).

Autarky

This main menu item is part of the Energy Journey and displays your self-sufficiency rate as a percentage. The autarky rate describes the proportion of your total energy consumption that is met by your own self-consumption. The higher the autarky rate, the less dependent you are on external energy sources.

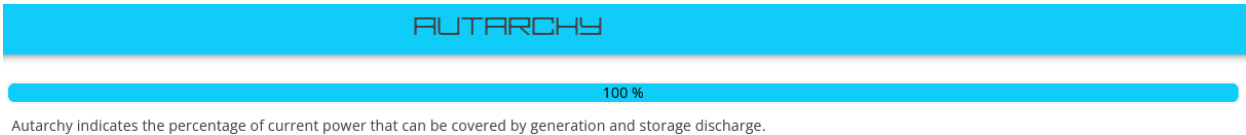


Image 6. Main Menu Item — Autarky — Main Window

You can also view an Autarky history. Here, you can choose between *Day*, *Week*, *Month*, *Year*, and the *Total Period*. You can also view a custom (different) time period.

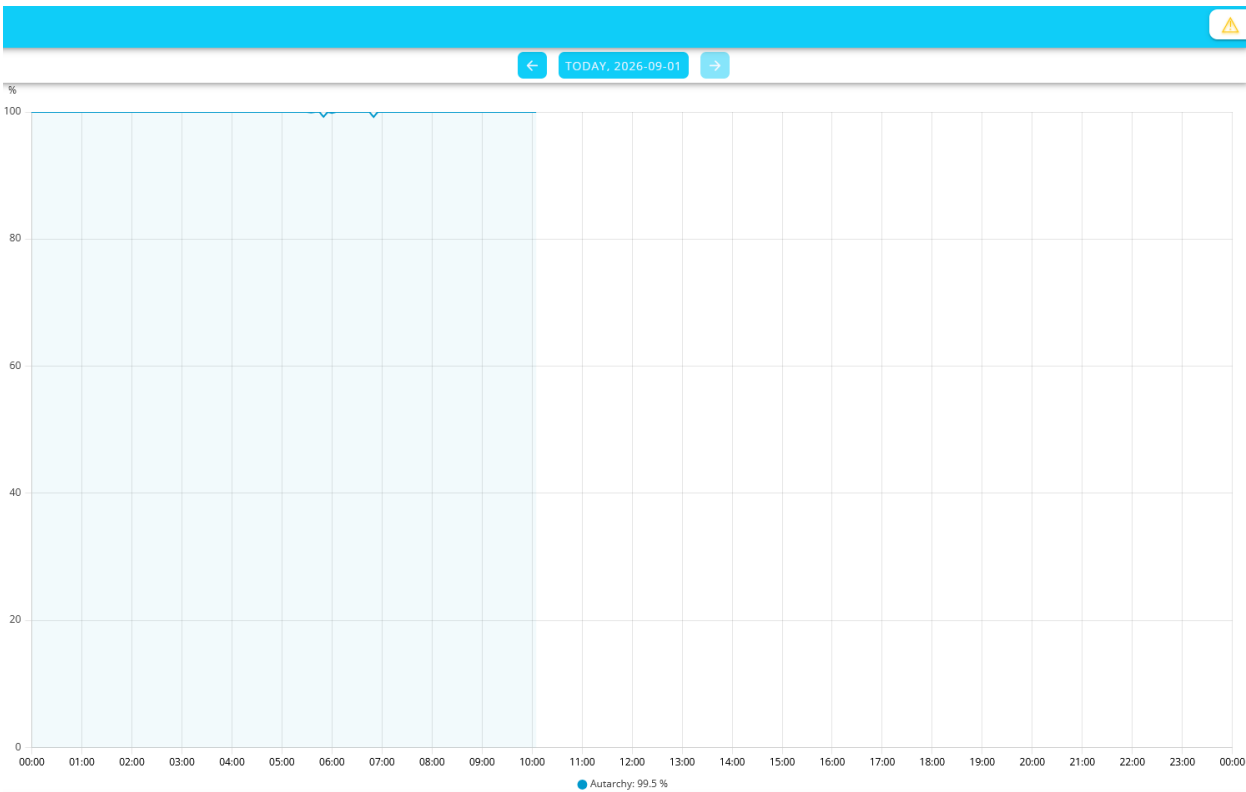


Image 7. Main Menu Item — Autarky — History

Self-consumption

Self-consumption indicates the percentage of the power currently being produced that is consumed for direct consumption and for battery charging.

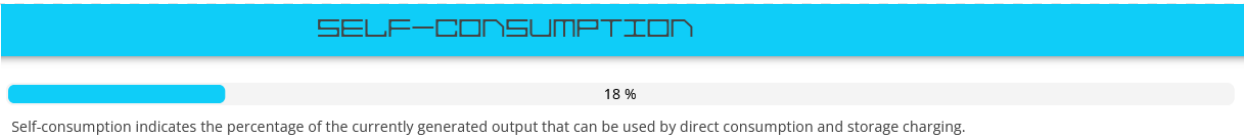


Image 8. Main Menu Item — Self-Consumption — Main Window

Self-consumption also has a *historical view*:

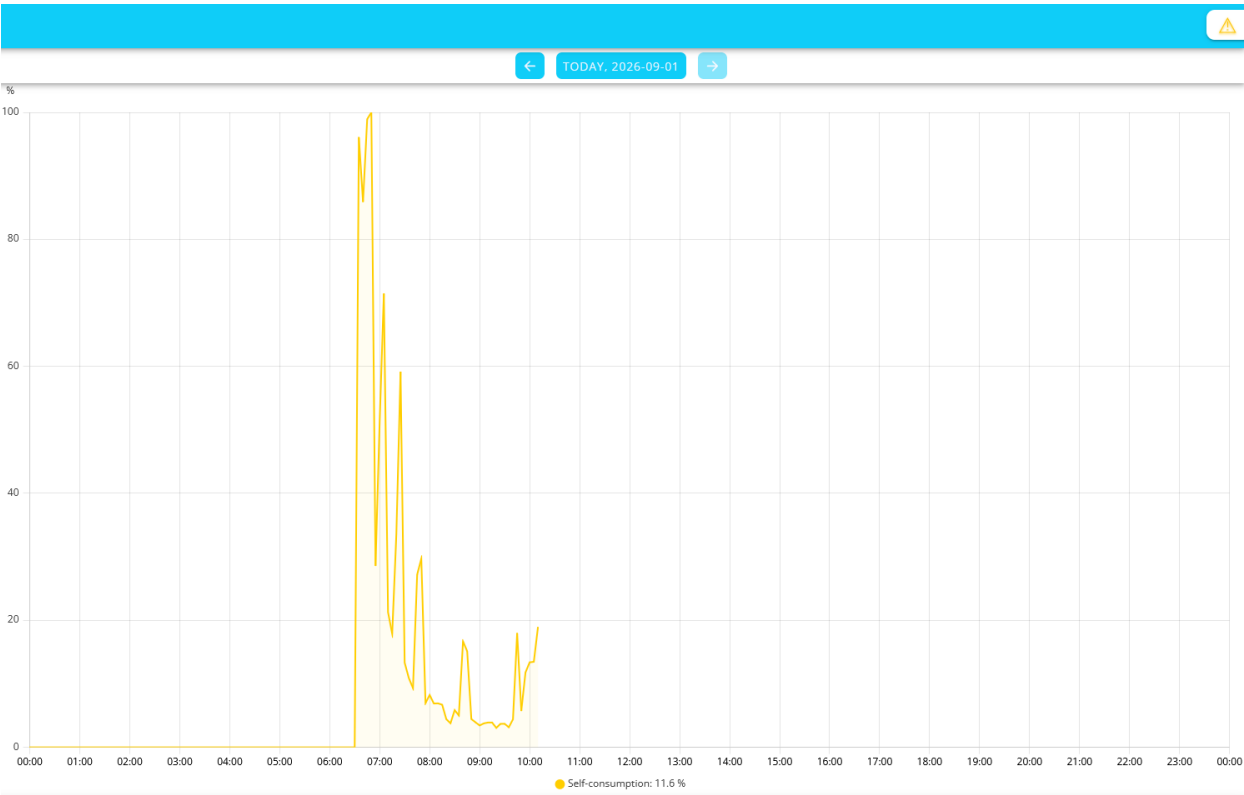


Image 9. Main Menu Item — Self-Consumption — History

TIP

If there was no production, there can be no self-consumption! Therefore, self-consumption is only shown in the chart if there was also production at that time.

Analysis of Battery Expansion

The battery expansion analysis shows you how expanding your battery system would affect your energy self-sufficiency. You'll receive step-by-step instructions and visualizations to help you find the optimal system configuration for your needs.

1. Start the analysis by clicking [**VIEW ANALYSIS**].

Take a relaxed approach to the changes in the energy world.
With us, you are ideally prepared for your 100 % energy transition.

Use our Energy Journey platform to analyse and calculate how you can sensibly develop
your system further and which extensions you can benefit from.



Battery extension: is it worth it?

Whether it is worth retrofitting your energy storage system depends on various factors. Your system has been in operation for more than a year. Analyse here what effect a battery extension would have had

[VIEW ANALYSIS](#)

Image 10. Main Menu Item — Battery Extension Analysis — Start

- 2. Enter your current electricity price in cents per kWh. If you have a time-of-use tariff, enter the average rate. Click the [**START ANALYSIS**].

 Energy Journey: Battery extension

Whether it is worth retrofitting your energy storage system depends on various factors. Your system has been in operation for more than a year. Analyse here what effect a battery extension would have had

Please enter your current electricity price. If you are already using a time-of-use-tariff, please enter an average value.

Cent/
kWh

41 

[START ANALYSIS](#)

Image 11. Main Menu Item — Battery Expansion Analysis — Step 2

- 3. You will first receive information for the past year.

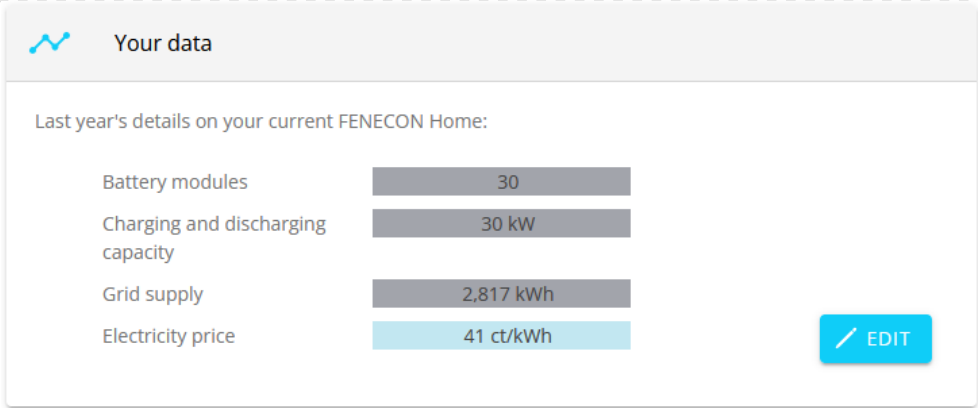


Image 12. Main Menu Item — Battery Expansion Analysis — Step 3

- 4. The bar chart below shows how many kWh you could have saved during this period with the corresponding battery upgrade.

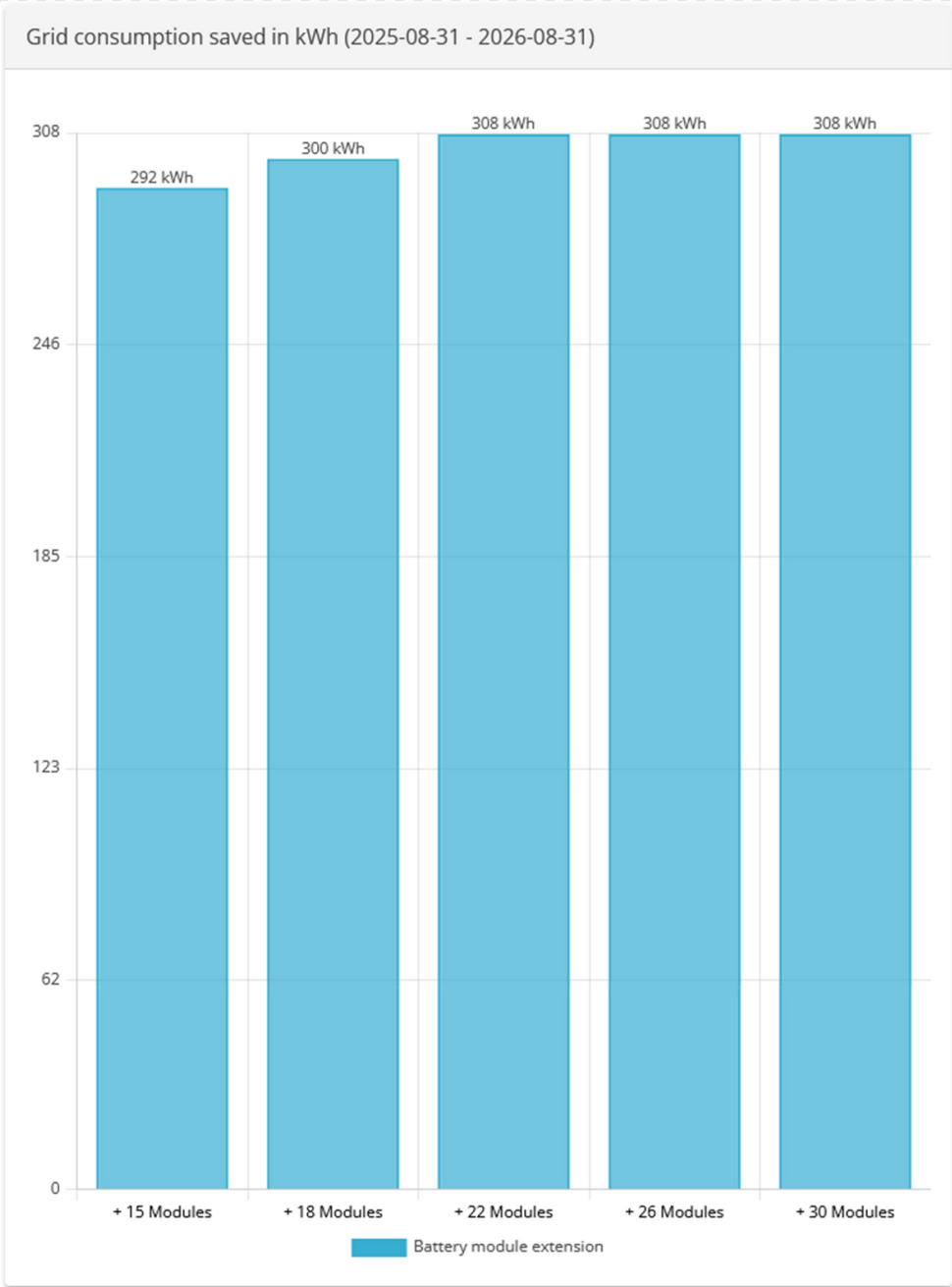


Image 13. Main Menu Item — Battery Expansion Analysis — Step 4

Number of modules	+ 15	+ 18	+ 22	+ 26	+ 30
Savings on electricity consumption in euros:*	119.72	123.16	126.11	126.11	126.11
Charging and discharging capacity of the storage in kW:** (Total)	+ 0.00 (= 30 kW)	- 3.12 (= 26.88 kW)	- 0.88 (= 29.12 kW)	+ 0.00 (= 30 kW)	+ 0.00 (= 30 kW)
Increase in total usable capacity in kWh: (Total)	+ 42.00 (= 126 kWh)	+ 50.40 (= 134.4 kWh)	+ 61.60 (= 145.6 kWh)	+ 72.80 (= 156.8 kWh)	+ 84.00 (= 168 kWh)

* Potential annual savings in euros that would have resulted from a battery extension
Calculation: Your current electricity price multiplied by the electricity savings in kWh per module.

** The charging and discharging power (kW) as well as the emergency power capacity of your storage increases to this value. Detailed information on the values that can be processed on the AC side and the achievable output depending on the number of modules can be found in the [product data sheet Home 30](#)

Disclaimer
The calculations in the analysis are based on your information on the electricity price, the grid purchases and the grid feed-in data of your storage system in the past year. These underlying parameters can change at any time. The calculations are therefore only examples that serve as an orientation for the possible profitability of a battery extension and do not guarantee that financial savings can actually be achieved. This does not constitute a guarantee on the part of FENECON.

Image 14. Main Menu Item — Battery Expansion Analysis — Step 5