

## FEMS Settings

The  burger menu at the top left of the FENECON Online Monitoring opens a side menu with various settings:

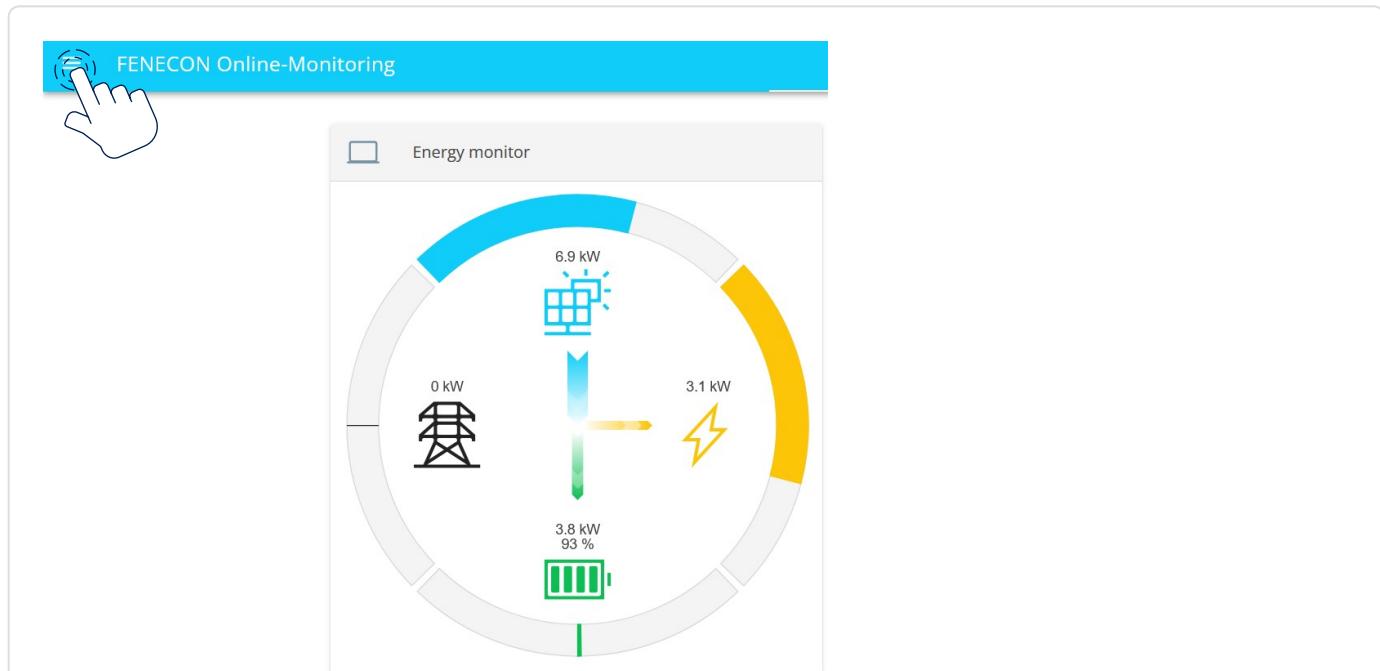


Figure 1. Transition from burger menu to side menu



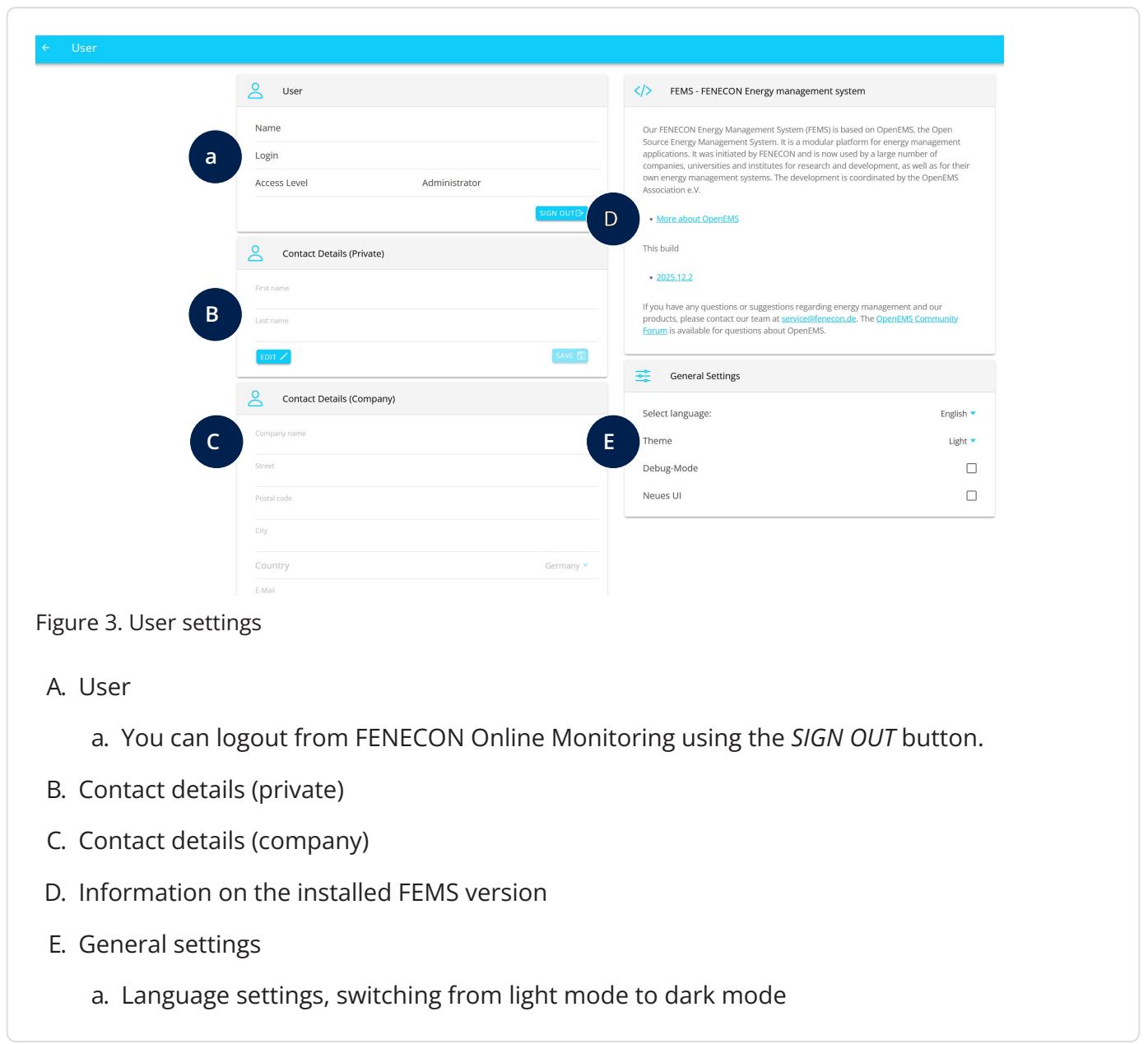
Figure 2. Side menu

The **Side Menu** contains:

1. Your account name and associated [Account settings](#).
  - a. These are user-related.
  - b. Access levels:  
GUEST < OWNER < INSTALLER < ADMINISTRATOR
2. The overview of [All Systems](#) that are assigned to your account.
  - a. If only one system/FEMS is assigned to the account, this option is not displayed.
3. The area to adjust [FEMS Settings](#).

## Account settings

### Account settings



The screenshot shows the 'User' settings page. At the top, there is a blue header bar with a back arrow and the text 'User'. Below the header, there are five main sections, each with a dark blue circle containing a white letter label:

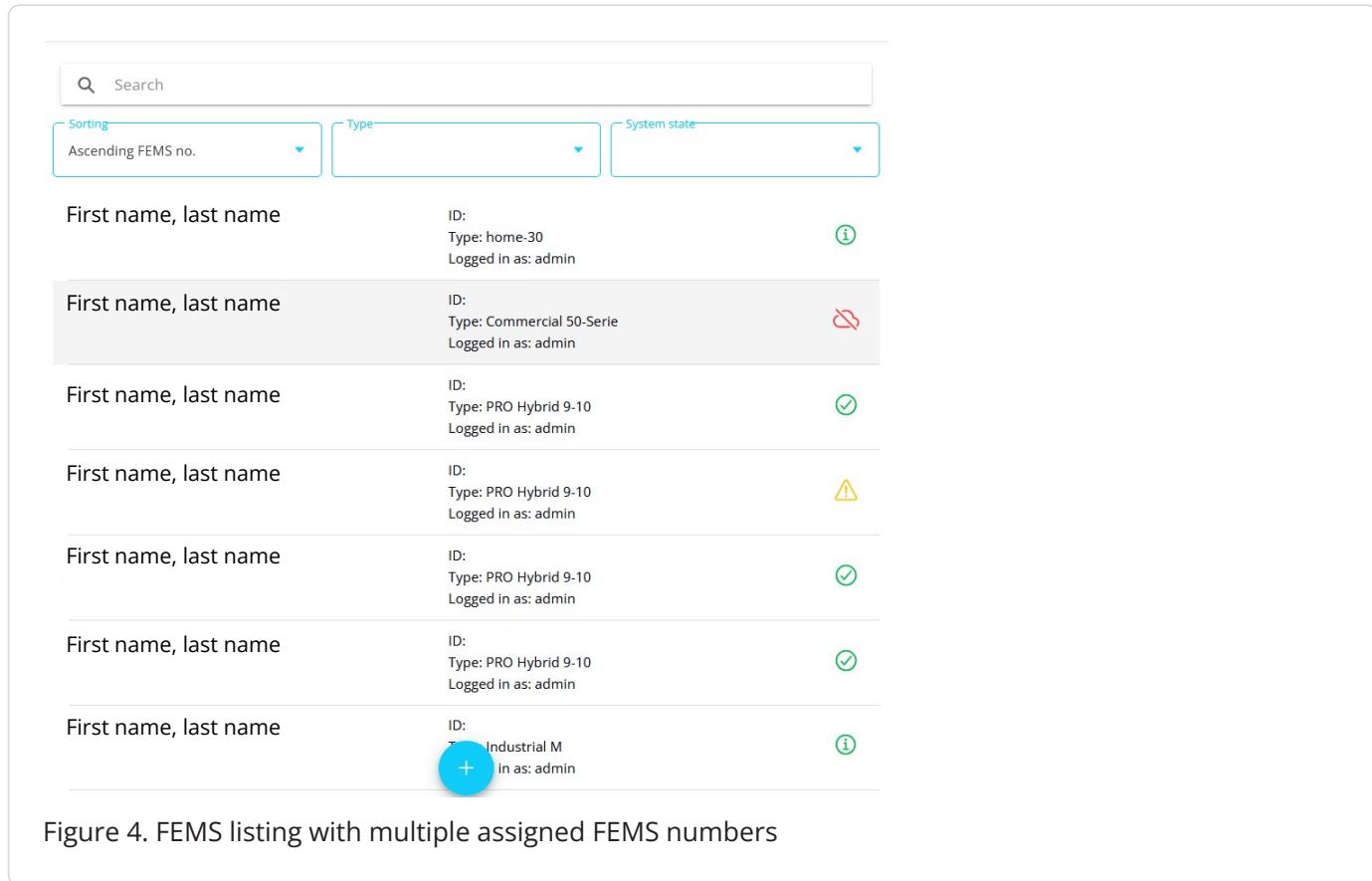
- A**: 'User' section. It contains fields for 'Name' (filled with 'FENECON'), 'Login' (filled with 'fenecon'), and 'Access Level' (set to 'Administrator'). At the bottom right is a 'SIGN OUT' button.
- B**: 'Contact Details (Private)' section. It contains fields for 'First name' and 'Last name', both of which are empty. Below these are 'EDIT' and 'SAVE' buttons.
- C**: 'Contact Details (Company)' section. It contains fields for 'Company name', 'Street', 'Postal code', 'City', 'Country' (set to 'Germany'), and 'E-Mail'. The 'Country' field has a dropdown arrow.
- D**: Information on the installed FEMS version. It shows 'This build' (2025.12.2) and a link to 'More about OpenEMS'.
- E**: 'General Settings' section. It includes a 'Select language:' dropdown (set to 'English'), a 'Theme' dropdown (set to 'Light'), and checkboxes for 'Debug-Mode' and 'Neues UI'.

Figure 3. User settings

- A. User
  - a. You can logout from FENECON Online Monitoring using the *SIGN OUT* button.
- B. Contact details (private)
- C. Contact details (company)
- D. Information on the installed FEMS version
- E. General settings
  - a. Language settings, switching from light mode to dark mode

## All Systems

This option is relevant for users who manage multiple FEMS installations, including installers.



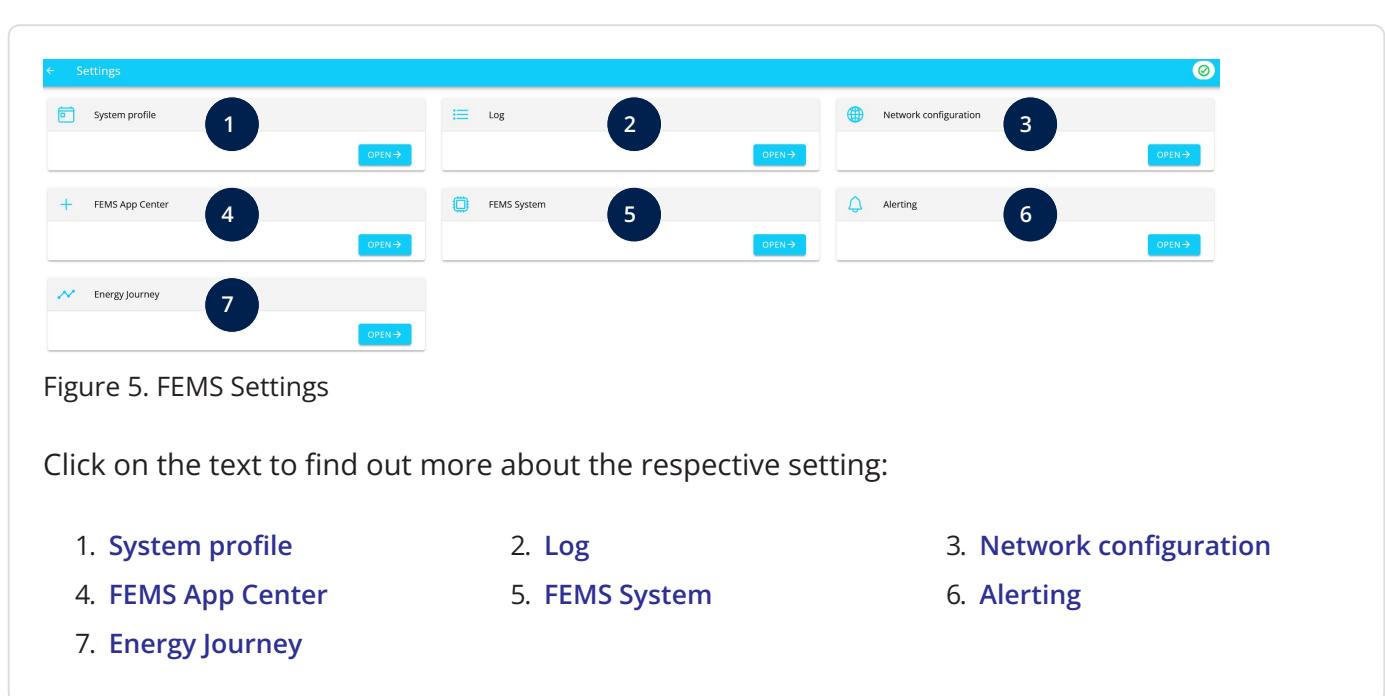
The screenshot shows a list of FEMS installations. Each entry includes the account name, system ID, type, and the user who is logged in as (admin). The status is indicated by a small circular icon: green (checkmark), yellow (warning triangle), red (error), and blue (info). A search bar and sorting/filtering options are at the top.

First name, last name	ID: Type: Logged in as:	Status
First name, last name	ID: Type: Commercial 50-Serie Logged in as: admin	🔴
First name, last name	ID: Type: PRO Hybrid 9-10 Logged in as: admin	✓
First name, last name	ID: Type: PRO Hybrid 9-10 Logged in as: admin	⚠
First name, last name	ID: Type: PRO Hybrid 9-10 Logged in as: admin	✓
First name, last name	ID: Type: PRO Hybrid 9-10 Logged in as: admin	✓
First name, last name	ID: Type: Industrial M Logged in as: admin	ⓘ

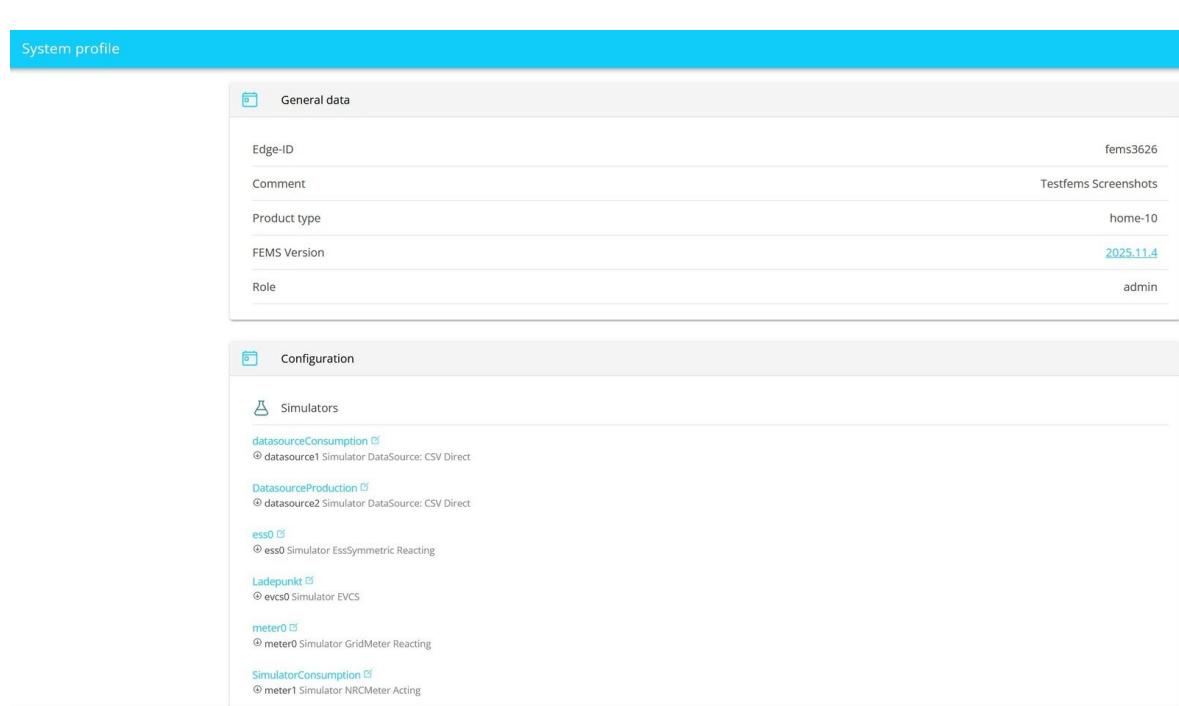
Figure 4. FEMS listing with multiple assigned FEMS numbers

- The search bar can be used to search for specific FEMS numbers or account names.
- Filters offer the option of sorting and refining the search, e. g. by electrical energy storage system (system type; Home, Commercial, Industrial) or system status.

## Overview — FEMS Settings



## 1. System profile



The screenshot shows the 'System profile' interface with two main sections: 'General data' and 'Configuration'.

**General data:**

Edge-ID	fems3626
Comment	Testfems Screenshots
Product type	home-10
FEMS Version	2025.11.4
Role	admin

**Configuration:**

Simulators

- datasourceConsumption
  - datasource1 Simulator DataSource: CSV Direct
- DatasourceProduction
  - datasource2 Simulator DataSource: CSV Direct
- esso0
  - esso0 Simulator EssSymmetric Reacting
- Ladepunkt
  - evcs0 Simulator EVCS
- meter0
  - meter0 Simulator GridMeter Reacting
- SimulatorConsumption
  - meter1 Simulator NRCMeter Acting

Figure 6. System profile

The *General data* field contains general information on the FEMS:

- Edge ID or FEMS number
- Comment on the system

This is assigned during commissioning and would be, for example, the name of the customer and/or the location of the system.

- Product type
 

Model of the FENECON system
- The version number of the installed FEMS
- The role of the logged-in user

The *Configuration* field shows all installed components of the FEMS, both hardware and software.

The respective channel settings of the components can be viewed via the  symbol.

## 1. System profile

External interfaces

Modbus/TCP read-only 

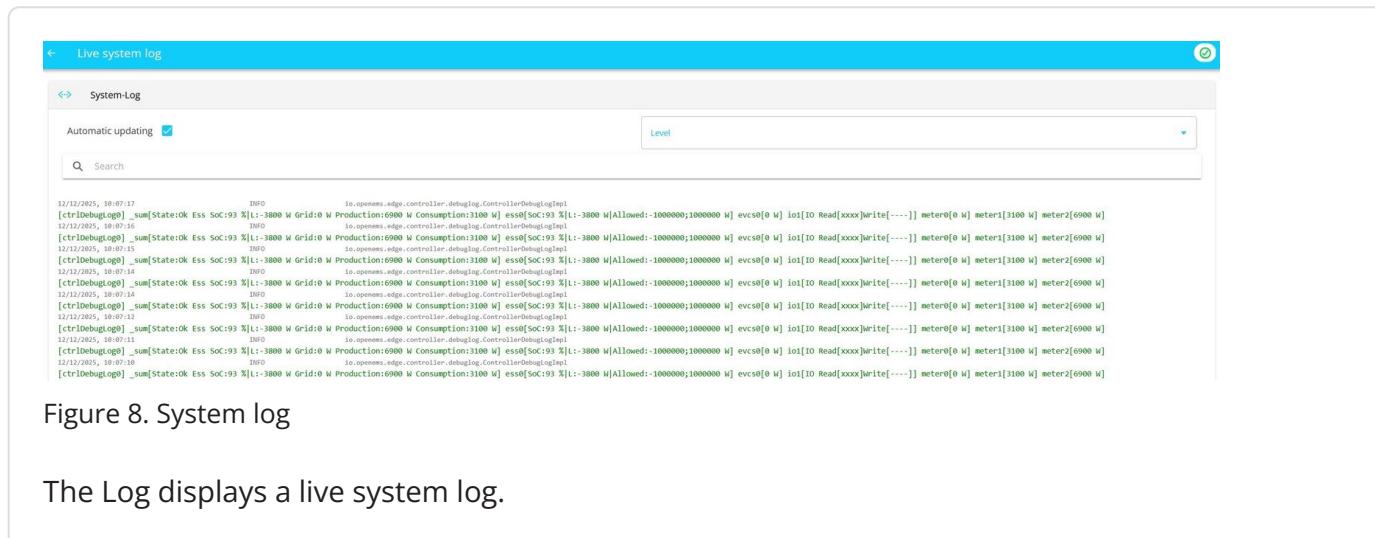
ctrlApiModbusTcp0 Controller Api Modbus/TCP Read-Only

- component.ids: \_sum
- logVerbosity: NONE
- maxConcurrentConnections: 5
- port: 502

 DOWNLOAD PROTOCOL  MANUAL  EXPORT CHANNELS

**For INSTALLERS only:**  
In this example, you can see the component of the FEMS App Modbus/TCP Read Access, whose channel protocol and channel settings can be downloaded as a CSV table.  
You will also be redirected from here via a button to the associated Modbus/TCP instructions on [docs.fenecon.de](https://docs.fenecon.de).

## 2. Log



The screenshot shows a 'Live system log' interface. At the top, there are buttons for 'Live system log' and a refresh icon. Below is a search bar with a 'Search' placeholder and a 'Level' dropdown menu. The main area displays a list of log entries. Each entry includes a timestamp, a log level (INFO), a source (e.g., [ctrlDebug.log]), a log message, and a timestamp for the message itself. The log entries are as follows:

```

12/12/2025, 18:07:17 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:16 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:15 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:14 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:13 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:12 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:11 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:10 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]
12/12/2025, 18:07:09 INFO [ctrlDebug.log] _sum[State:Ok Ess Soc:93 %]i:-3800 W Gridio W Production:1100 w] ess@[93 %]i:-3800 w] [Allowed:-1000000;1000000 w] evcs@[0 w] io[10 Read[xxxx]write[----]] meter0[0 w] meter1[3100 w] meter2[6900 w]

```

Figure 8. System log

The Log displays a live system log.

## 3. Network configuration



This feature is currently only available to installers.

The network settings of the FEMS — e. g. DHCP, IP addresses, subnet mask, gateway, DNS server — can be configured via the Network configuration.



Please note that incorrect settings can result in the FEMS no longer being accessible in the network.

### Standard view

By default, the FEMS is configured as shown here:



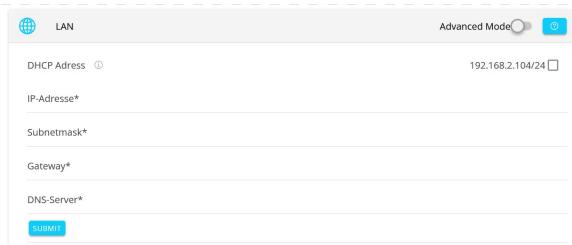
### DHCP

An IP address is automatically assigned to FEMS by the DHCP server. In the home network, the DHCP server is very often the internet router installed, e. g. a FritzBox. This setting is activated by default.

DHCP mode can be deactivated via the checkbox for DHCP address .

In this case, the settings must be made manually:

### 3. Network configuration



#### IP address

A free, static IP address (not yet assigned in the subnet) in IPv4 format (e. g. 192.168.0.50).

#### Subnet mask

Subnet mask (e. g. 255.255.255.0).

#### Gateway

IP address of the internet gateway, default: IP address of the router (e. g. 192.168.0.1).

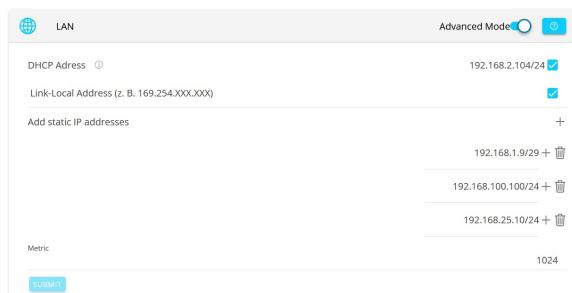
#### DNS server

IP address of the DNS server, default: IP address of the router (e. g. 192.168.0.1).

#### Expanded view

The extended view can be activated using the slider.

In addition to the DHCP or manual configuration, further settings can be made here:



#### Link-Local Address

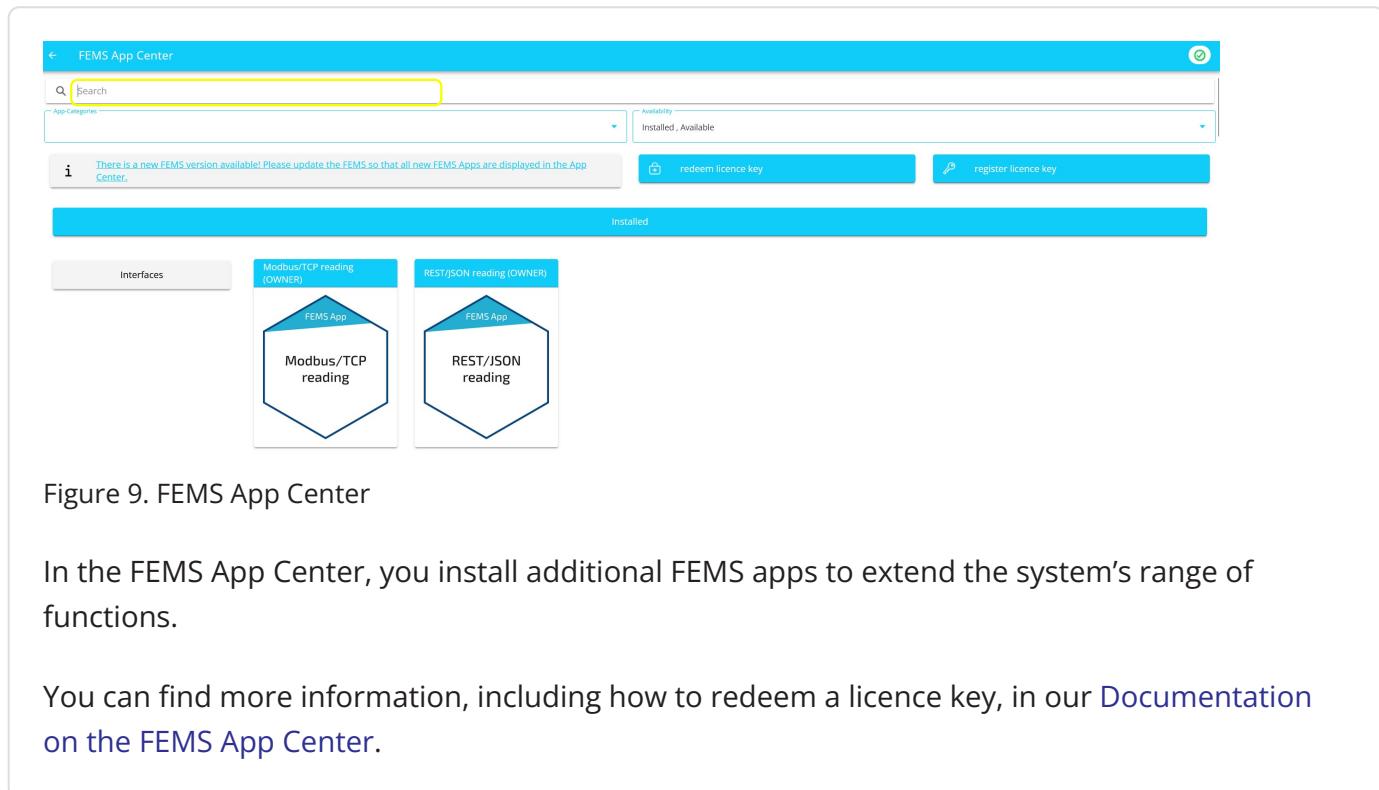
This gives the FEMS a so-called link-local address in the network in the form 169.254.xxx.xxx. More information on this can be found at [Wikipedia](#) 

#### Adding static IP addresses

Static IP addresses can be created here via which the FEMS can always be reached.

To apply the configuration, click on **SUBMIT**.

## 4. FEMS App Center



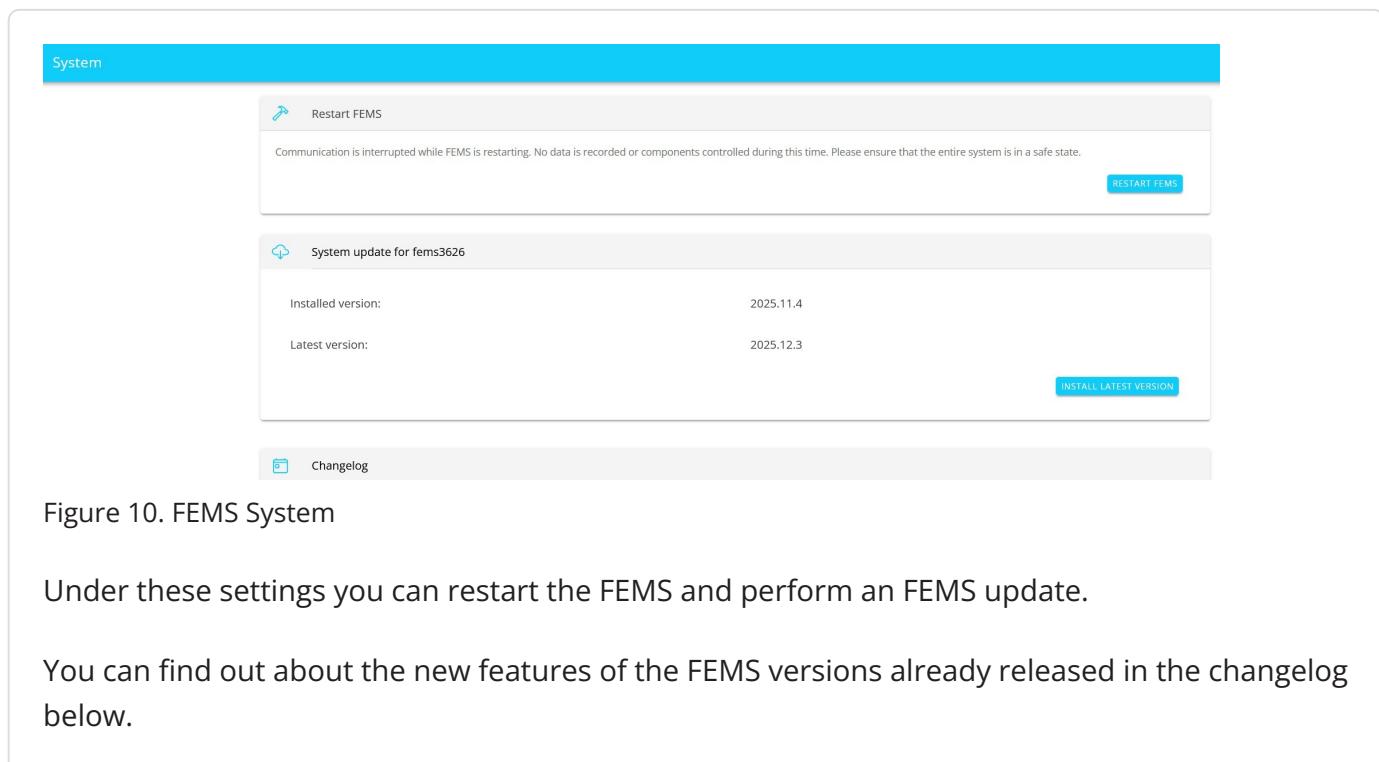
The screenshot shows the FEMS App Center interface. At the top, there is a search bar and a message indicating a new FEMS version is available. Below the search bar are sections for 'App-Categories' and 'Availability'. There are buttons for 'redeem licence key' and 'register licence key'. A large blue bar indicates that all apps are 'Installed'. Under the 'Interfaces' section, two apps are listed: 'Modbus/TCP reading (OWNER)' and 'REST/JSON reading (OWNER)'. Each app is represented by a blue hexagonal icon with the text 'FEMS App' at the top and the app name below it.

Figure 9. FEMS App Center

In the FEMS App Center, you install additional FEMS apps to extend the system's range of functions.

You can find more information, including how to redeem a licence key, in our [Documentation on the FEMS App Center](#).

## 5. FEMS System



The screenshot shows the FEMS System interface. The top bar is blue and labeled 'System'. Below it are three main sections: 1) 'Restart FEMS' with a message about communication being interrupted during a restart and a 'RESTART FEMS' button. 2) 'System update for fems3626' showing the installed version (2025.11.4) and latest version (2025.12.3), with an 'INSTALL LATEST VERSION' button. 3) 'Changelog' which is currently empty.

Figure 10. FEMS System

Under these settings you can restart the FEMS and perform an FEMS update.

You can find out about the new features of the FEMS versions already released in the changelog below.

## 6. Alerting

### 6. Alerting

This is an alerting service that notifies you by e-mail as soon as the FEMS has been offline for a certain period of time, i. e. there is no connection to the FENECON backend server. The e-mail address used is the one specified during commissioning.



Different user roles can use different settings.

- OWNER and INSTALLER can be notified when the FEMS is offline.
- INSTALLERS can also be notified if an error occurs in the system.

The function is activated by setting the toggle and ticking the "E-mail" box. Clicking the toggle again deactivates the function:

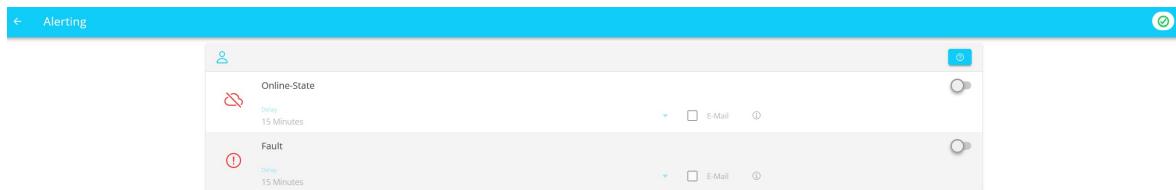


Figure 11. Settings — Alerting

Tap/click on the blue arrow to go to the detailed view. Here you can change the Alerting settings.

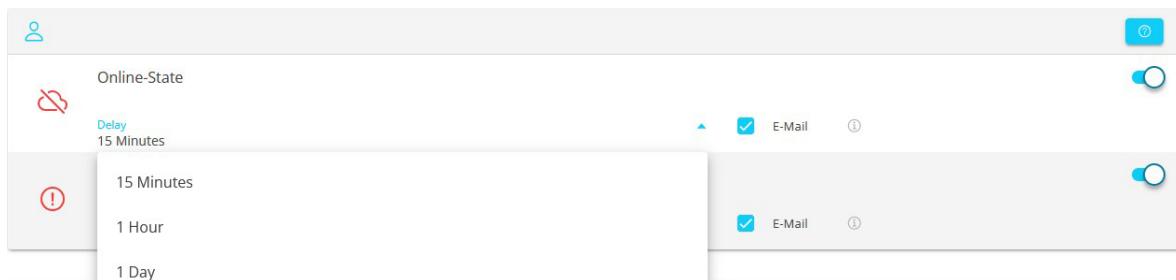


Figure 12. Alerting — Detailed view

If the function is activated, the duration of the delay can be selected accordingly. This is the time interval that must elapse before you are Alerting.

**Example:** The "15 minutes" option ensures that if the FEMS does not send any data to the backend server within a period of 15 minutes, a notification is sent by e-mail. If the "1 hour" option is selected, a notification is only sent after one hour.

Confirm the entries by tapping/clicking on **SAVE**.

#### E-mail in the event of an error

The e-mail Alerting in the event of an error contains a link to FENECON Online Monitoring.

You can initiate further troubleshooting steps from there.

#### **E-mail when the FEMS is offline**

The e-mail notification when FEMS is offline also contains troubleshooting instructions:

1. Checking the online status in the FENECON Online Monitoring
2. Checking the power supply
3. Restarting the FEMS
4. Checking the internet connection
5. Checking the firewall settings
6. Contacting the FENECON Service

## 7. Energy Journey

### 7. Energy Journey

← Energy Journey

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](#)

Figure 13. Energy Journey — Start

← Analyse Battery extension

 Energy Journey: Battery extension

Your system has been live 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  

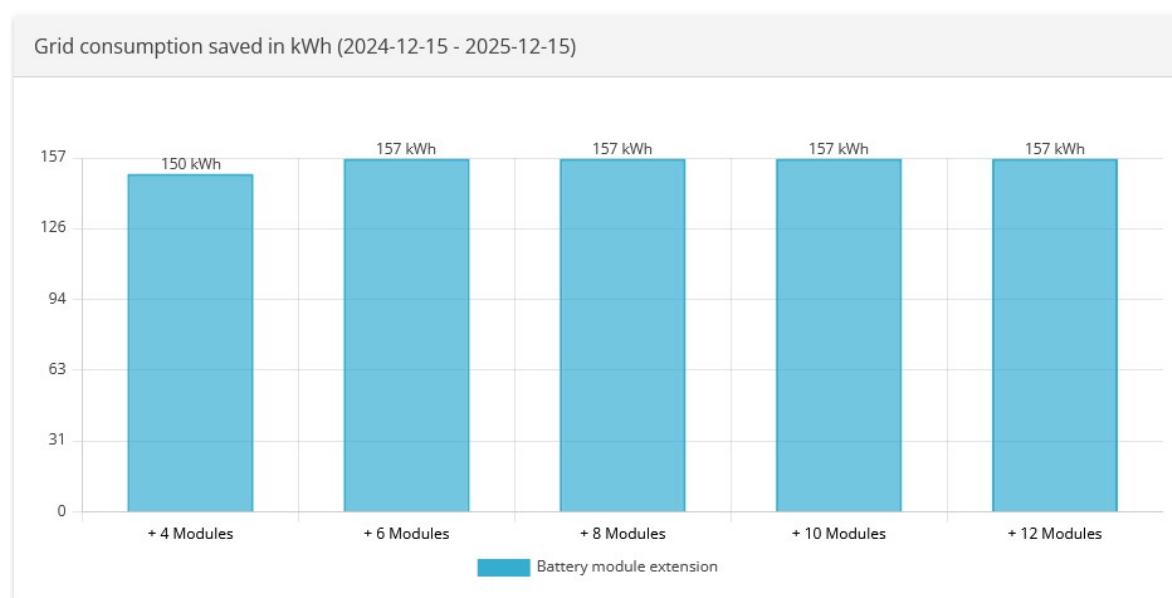
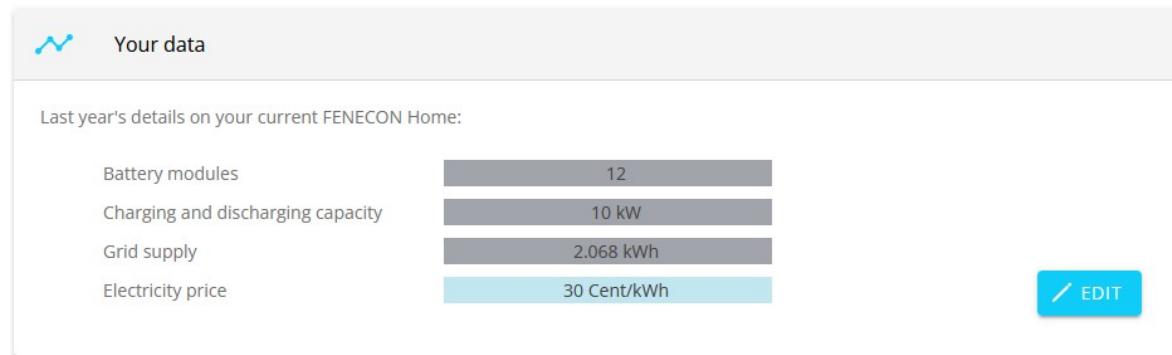
[START ANALYSIS](#)

Figure 14. Energy Journey — Analysis

Enter your current electricity price or, in the case of a time-of-use tariff, the average value. Then click on **START ANALYSIS**.

On the next page you will see an overview of your system for the past year.

You will also receive a table with **potential annual savings** should you consider a battery upgrade.



Number of modules	+ 4	+ 6	+ 8	+ 10	+ 12
Savings on electricity consumption in euros: <sup>*</sup>	44.98	46.98	46.98	46.98	46.98
Charging and discharging capacity of the storage in kW: <sup>**</sup> (Total)	+ 0.00 (= 10 kW)	+ 0.00 (= 10 kW)	+ 0.00 (= 10 kW)	+ 0.00 (= 10 kW)	+ 0.00 (= 10 kW)
Increase in total usable capacity in kWh: (Total)	+ 11.20 (= 44.8 kWh)	+ 16.80 (= 50.4 kWh)	+ 22.40 (= 56 kWh)	+ 28.00 (= 61.6 kWh)	+ 33.60 (= 67.2 kWh)

<sup>\*</sup> 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.

<sup>\*\*</sup> 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 10](#).

**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.

Figure 15. Energy Journey — Battery extension