EMS Settings

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

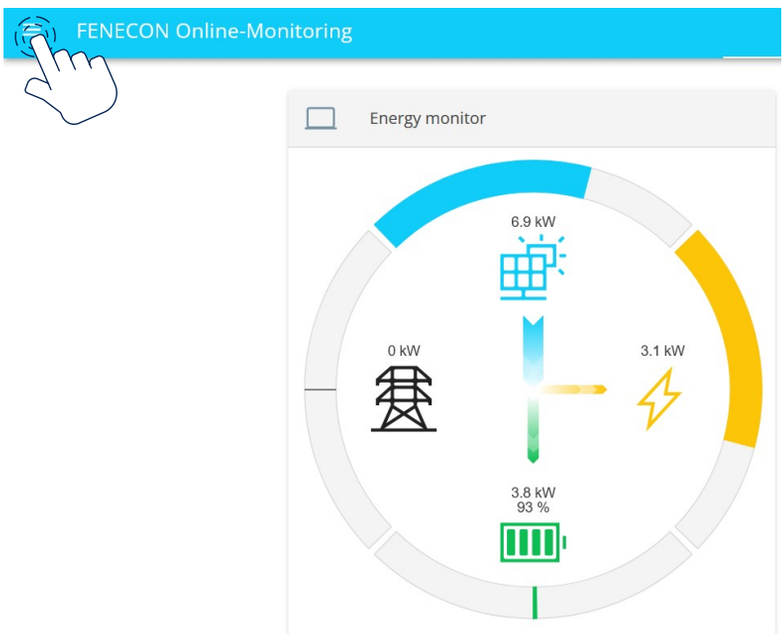


Image 1. Transition from burger menu to side menu

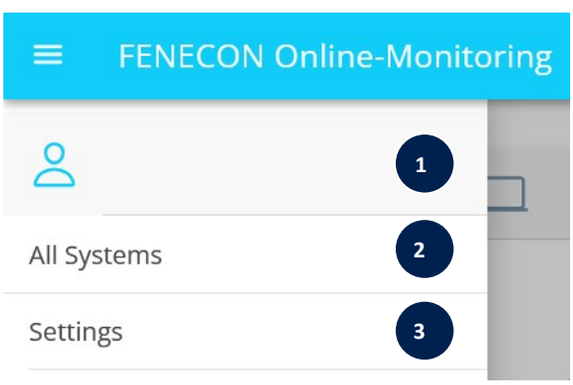


Image 2. Side menu

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/EMS is assigned to the account, this option is not displayed.
3. The area to adjust EMS Settings.

Account settings

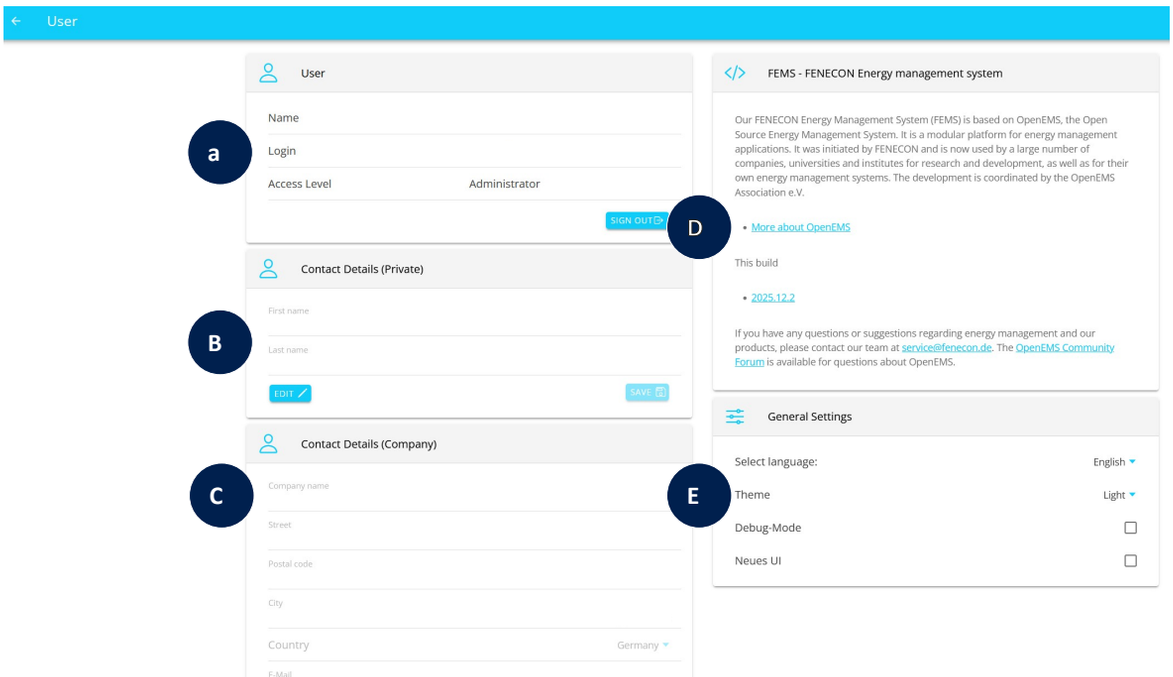


Image 3. User settings

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 EMS 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 EMS installations, including installers.

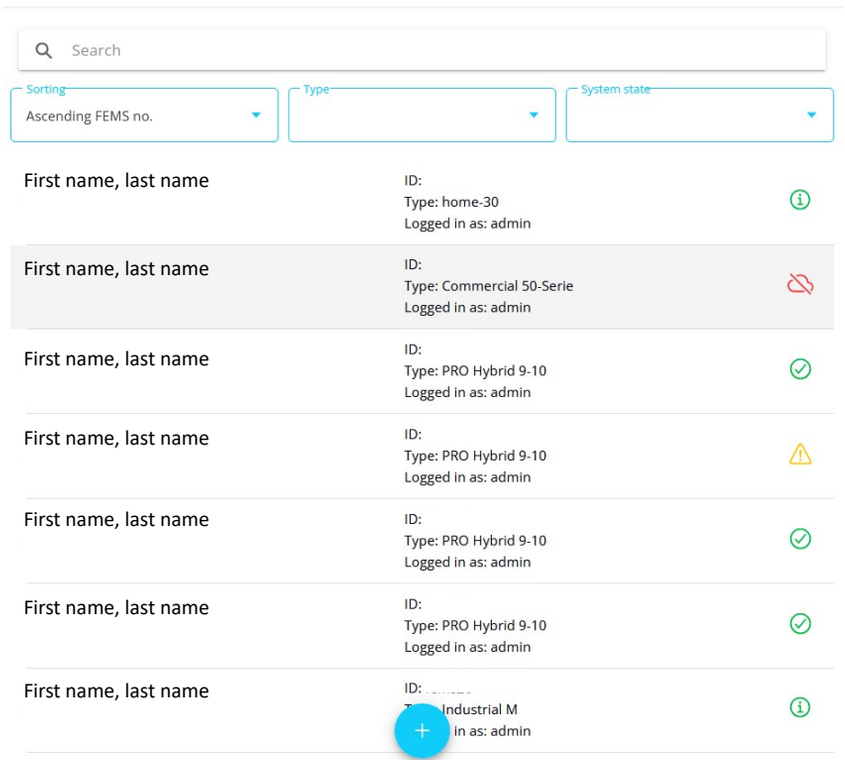


Image 4. EMS listing with multiple assigned EMS numbers

- The search bar can be used to search for specific EMS 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 — EMS Settings

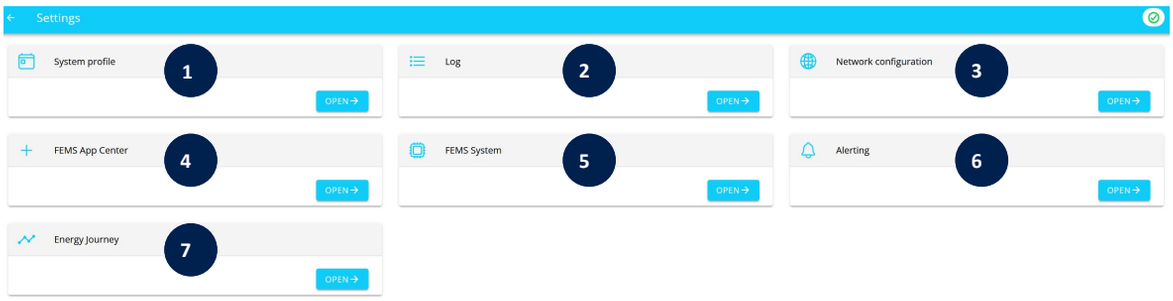


Image 5. EMS Settings

Click on the text to find out more about the respective setting:

1. **System profile**
2. **Log**
3. **Network configuration**
4. **EMS App Center**
5. **EMS System**
6. **Alerting**
7. **Energy Journey**

1. System profile

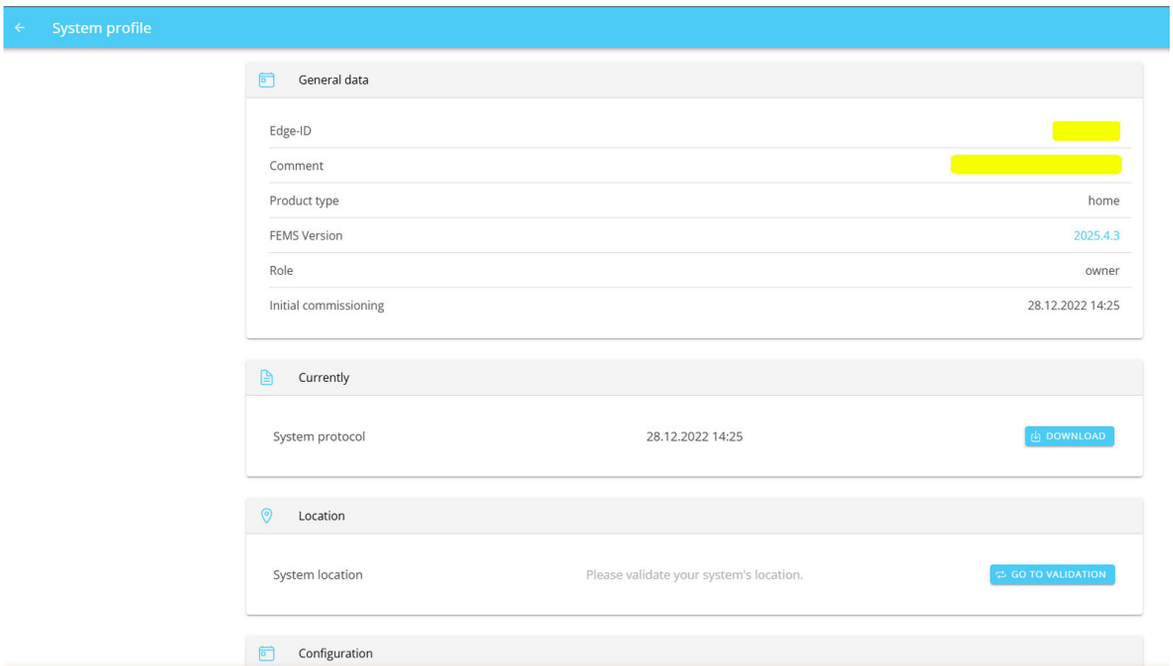


Image 6. System profile

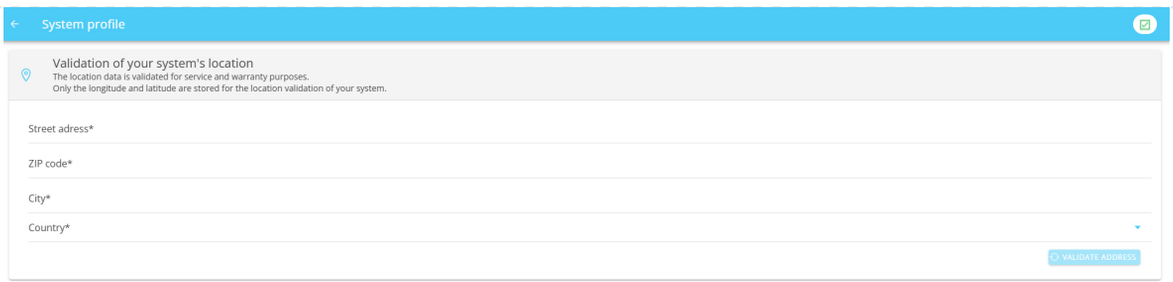
The **General data** field contains information about the EMS:

- Edge ID or EMS 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 Heckert Solar system
- The version number of the installed EMS
- The role of the logged-in user

The **Currently** field allows you to download the commissioning report and, if available, other system reports as PDF.

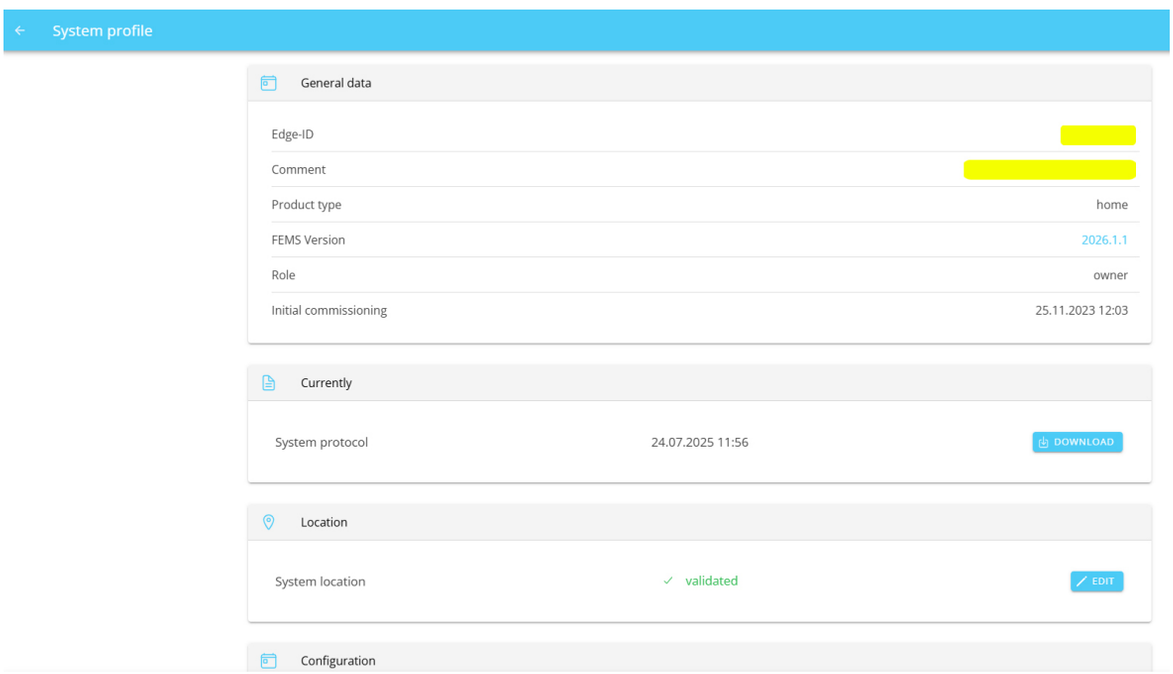
You can validate the location of the system via the **Location** field. This is required e. g. for the use of the FEMS App weather.

If you click on **[GO TO VALIDATION]**, the following input mask appears:



The address data is not saved, but only used to validate the location. Only the GPS coordinates are stored.

Once the **system's location has been validated**, the System profile looks like this:



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

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

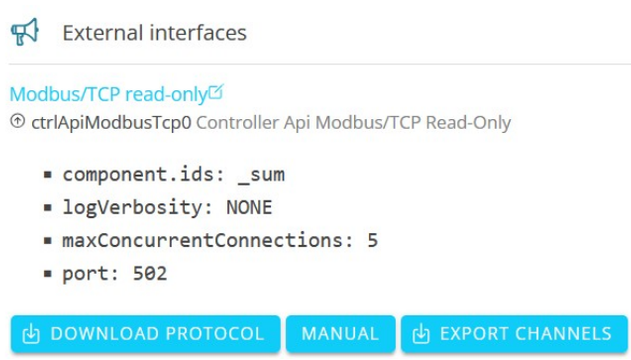


Image 7. Modbus/TCP channel settings

Nur für INSTALLER:
In diesem Beispiel sehen die Komponente der FEMS App Modbus/TCP Read Access, deren

Channel-Protokoll und Channel-Einstellungen als CSV-Tabelle heruntergeladen werden können.
Außerdem werden Sie von hier per Button zur zugehörigen Modbus/TCP-Anleitung auf docs.fenecon.de weitergeleitet.

2. Log

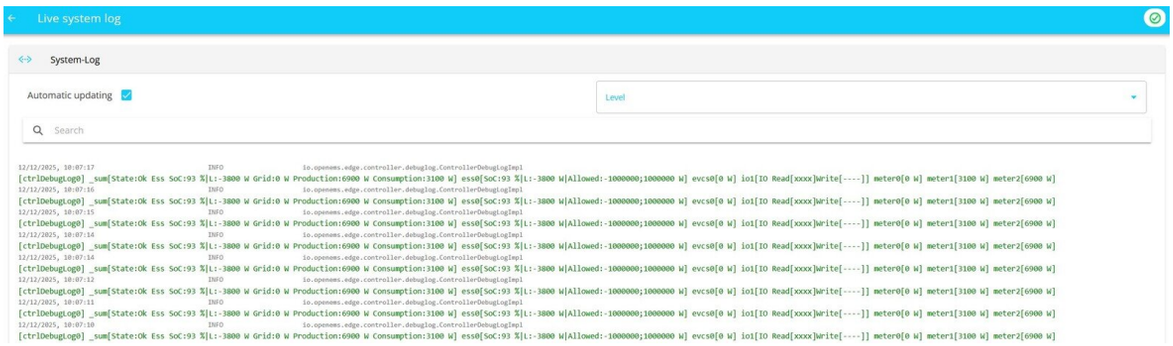


Image 8. System log

The Log displays a live system log.

3. Network configuration

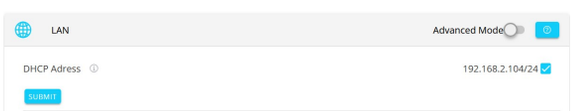
This feature is currently only available to installers.

The network settings of the EMS — 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 EMS no longer being accessible in the network.

Standard view

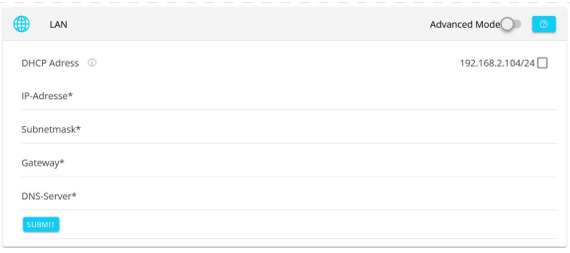
By default, the EMS is configured as shown here:



DHCP

An IP address is automatically assigned to EMS 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:



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

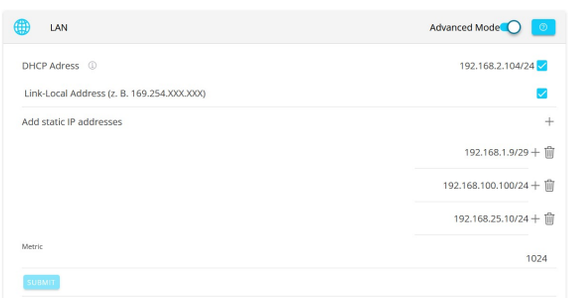
IP address of the internet gateway, default: IP address of the router (e. g. 192.168.0.1).

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

The FEMS is assigned a so-called link-local address within the network in the format 169.254.xxx.xxx. For more information, visit Wikipedia

Adding static IP addresses

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

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

4. EMS App Center

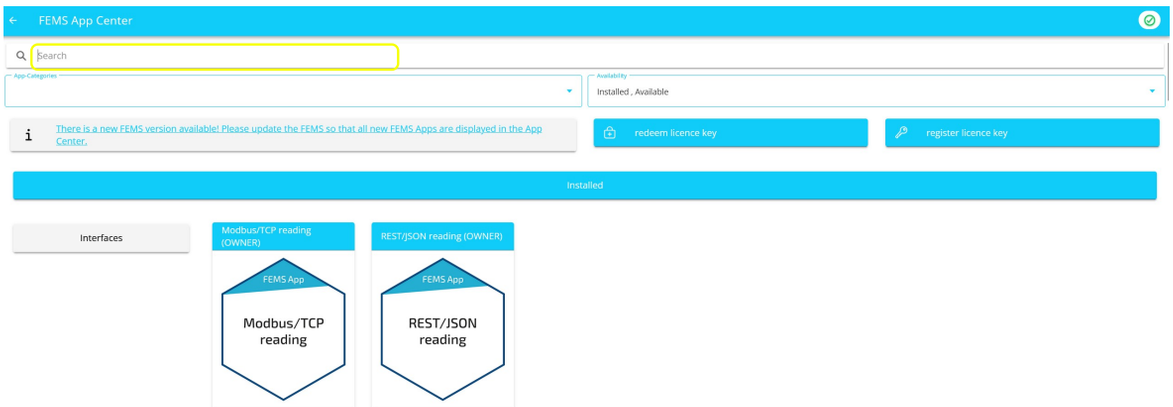


Image 9. EMS App Center

In the EMS App Center, you install additional EMS 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 EMS App Center.

5. EMS System

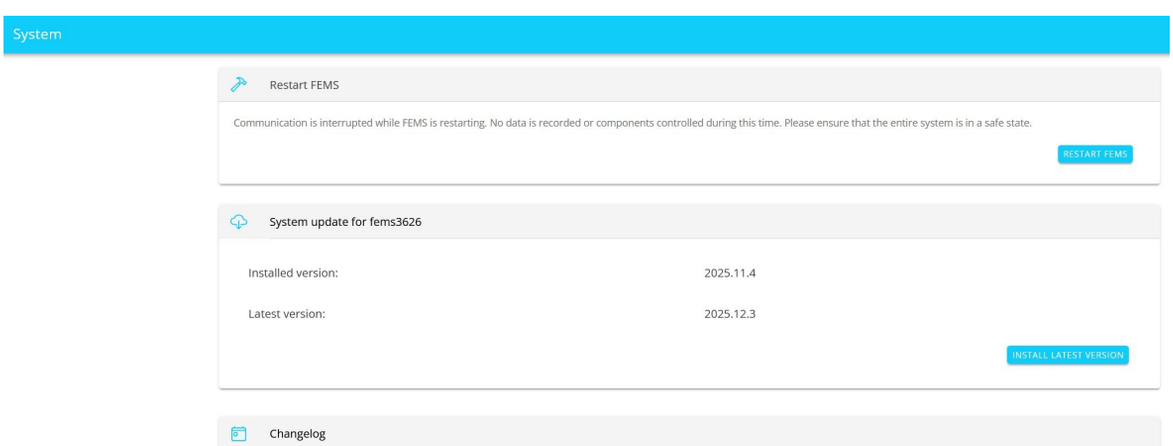


Image 10. EMS System

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

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

6. Alerting

This is an alerting service that notifies you by e-mail as soon as the EMS has been offline for a certain period of time, i. e. there is no connection to the Heckert Solar 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 EMS 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:

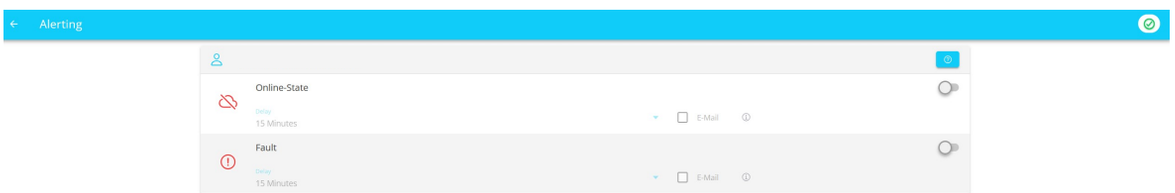


Image 11. Settings — Alerting

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

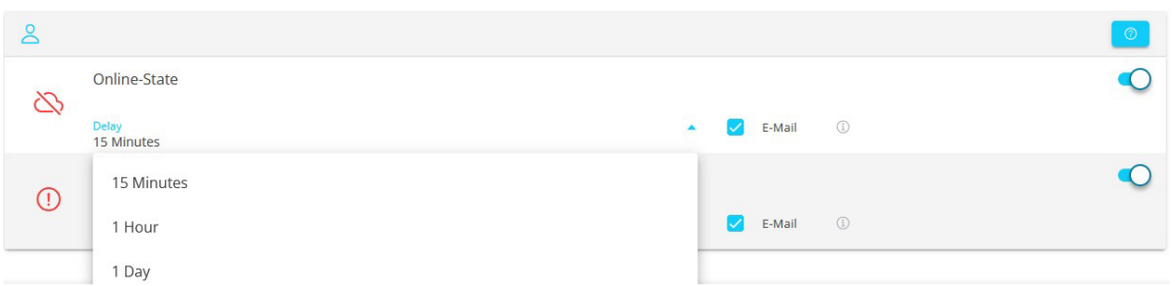


Image 12. Alerting — Detailed view

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 EMS 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 your entries by tapping or clicking **[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 EMS is offline

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

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

7. Energy Journey

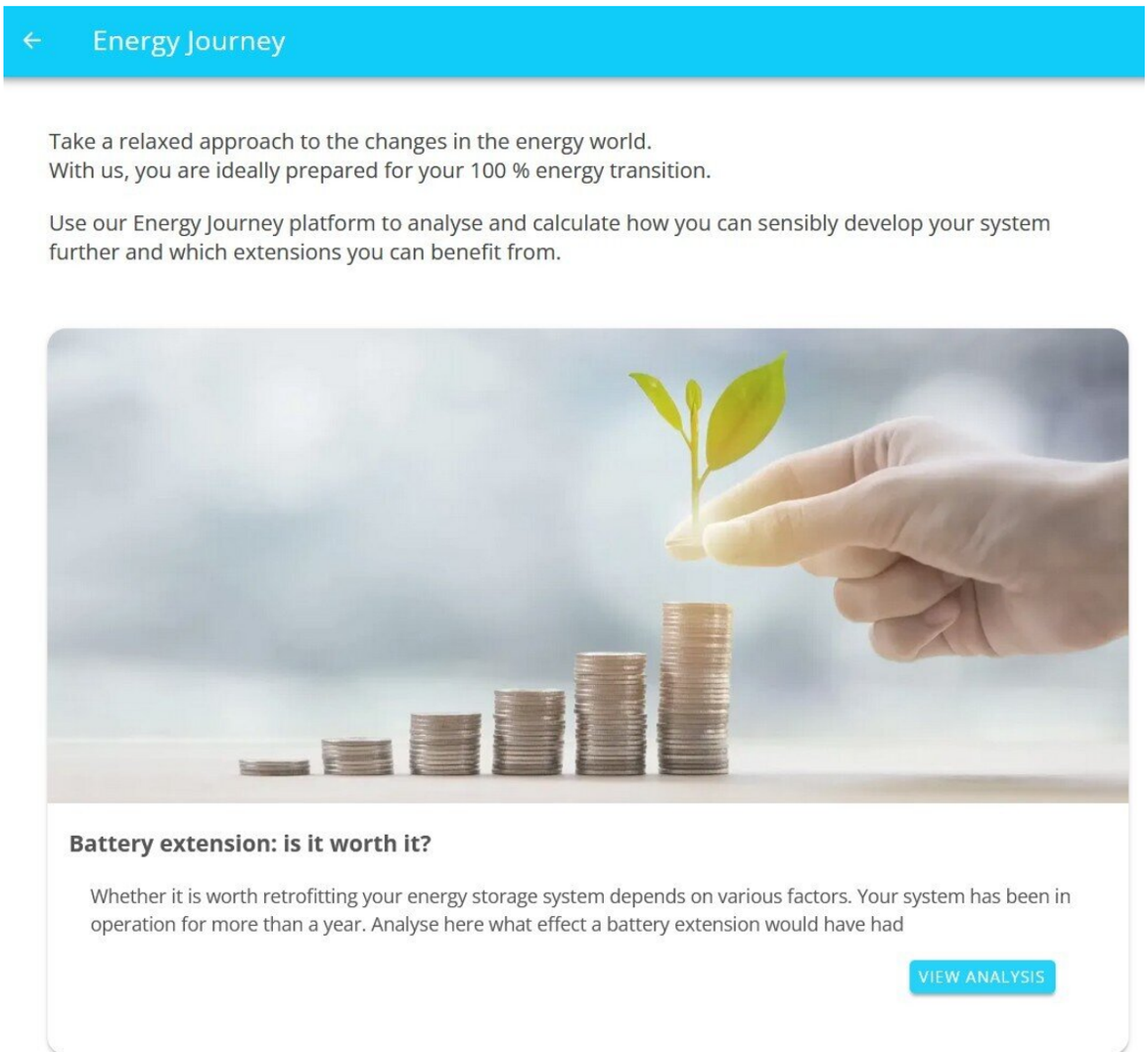


Image 13. Energy Journey — Start

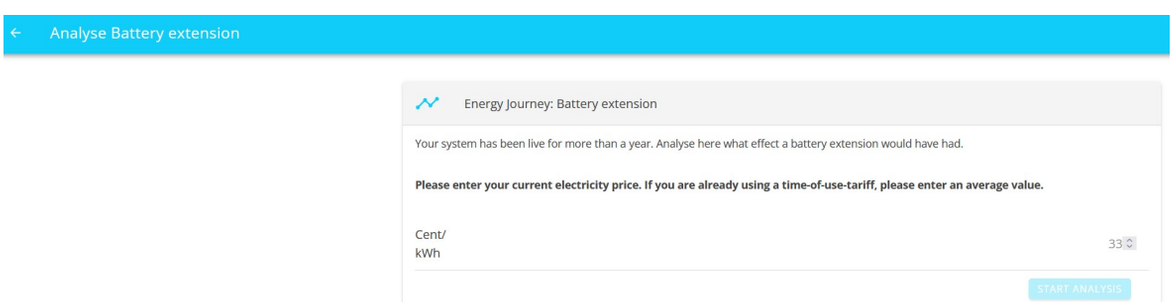


Image 14. Energy Journey — Analysis

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:*	44.98	46.98	46.98	46.98	46.98
Charging and discharging capacity of the storage in kW:** (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)

* 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 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.

Image 15. Energy Journey — Battery extension