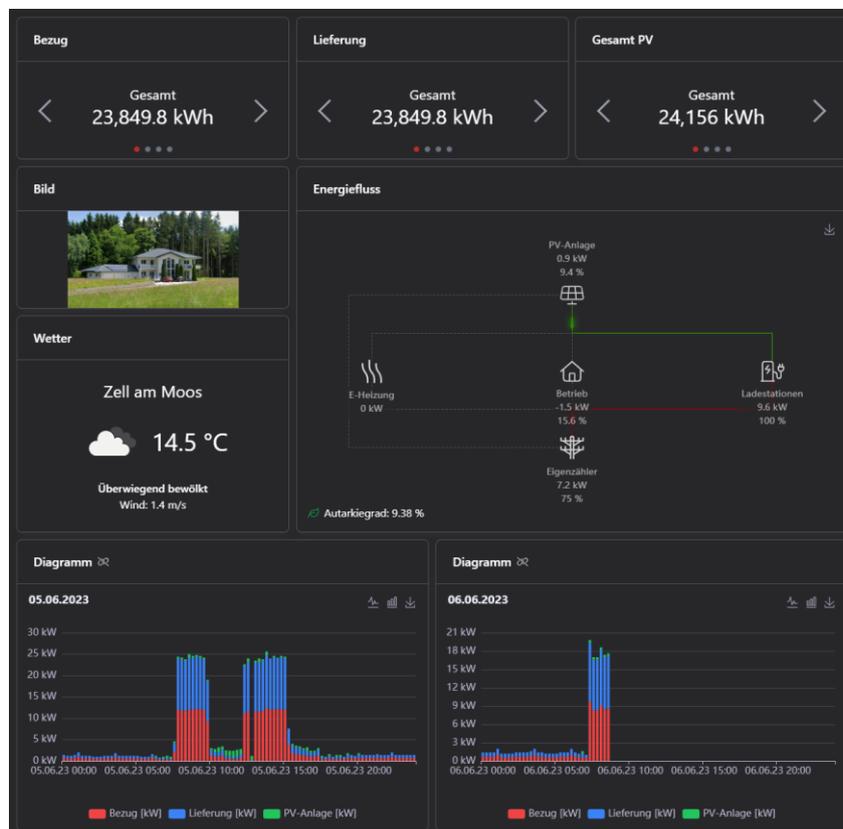


VERSION 1.1

Manual ASKI-Portal

Complex energy management and optimization solutions

Digitize, visualize and optimize energy consumption



| | | | | |
|---|---------------------------------|--------------------------|-------------|--------------|
| PREPARED 2025-06-04 ASKI | STATUS Released | SECURITY LEVEL Public | | |
| APPROVED Click or tap to enter a date. | DOCUMENT KIND Manual | | | |
| RESPONSIBLE ORGANIZATION ABB Electrification Smart Power | DOCUMENT ID. 9AKK108471A0171 | REV. B | LANG. EN | PAGE 1/23 |

Contents

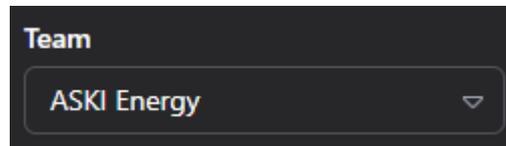
- 1. Menu..... 3**
- 2. Navigation area..... 4**
 - 2.1. Folder 4
 - 2.1.1. *Projects* 4
 - 2.1.2. *Meter groups* 4
 - 2.1.3. *Meter lists* 5
 - 2.1.4. *Data analysis & Databases (subscription-based option)* 6
 - 2.2. Project 7
 - 2.2.1. *Dashboards* 7
 - 2.2.2. *Reports* 8
 - 2.2.3. *Devices* 8
 - 2.2.4. *Meter groups* 8
 - 2.2.5. *Meter lists* 8
 - 2.2.6. *Data analysis & databases (subscription-based option)* 8
 - 2.2.7. *Events* 8
 - 2.3. Dashboards 9
 - 2.3.1. *Setting options* 9
 - 2.3.2. *Widgets* 10
 - 2.4. Devices 16
 - 2.4.1. *Info* 16
 - 2.4.2. *Current values* 17
 - 2.4.3. *Inputs/Outputs* 17
 - 2.4.4. *Load groups* 18
 - 2.4.5. *Flags* 18
 - 2.4.6. *Alarms* 19
 - 2.4.7. *Events* 19
- 3. Settings area 19**
 - 3.1. E-Mail Reports 19
 - 3.2. Lobby mode and playlists 19
 - 3.2.1. *Playlists* 19
 - 3.2.2. *Lobby mode* 20
 - 3.3. Team settings 20
 - 3.4. User settings 21
 - 3.5. Connection to third-party systems 22
- 4. Additional Information..... 23**
 - 4.1. Listing of related documents 23
- 5. Addendum 23**
- 6. Revisions..... 23**

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|------|
| Released | Public | 9AKK108471A0171 | B | EN | 2/23 |

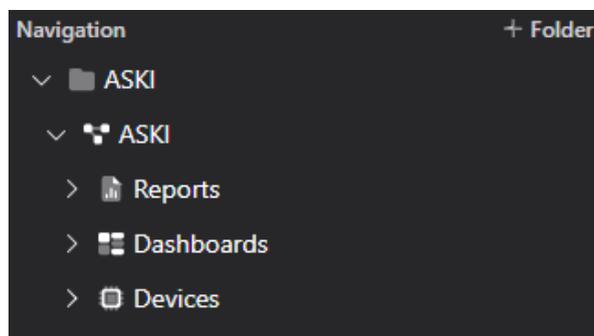
1. Menu

The menu is divided into the following items:

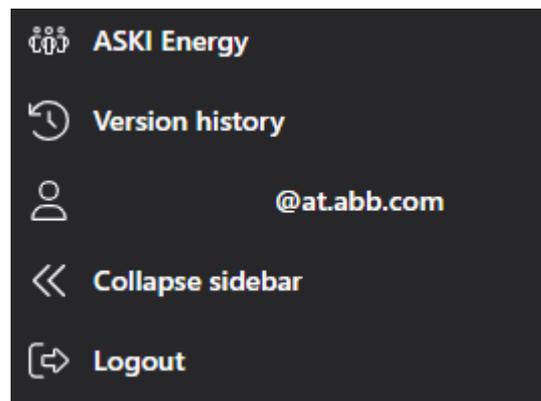
- **Team selection**
A team can be selected here. Users may choose only from teams they were invited to join.



- **Navigation area**
All folders, projects, reports, dashboards and devices that have been created for the selected team are displayed in this area.



- **Settings area**
Here you can see information about the selected team, view the version history, make changes to your user account, collapse the menu or menu sidebar and log out.



| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|------|
| Released | Public | 9AKK108471A0171 | B | EN | 3/23 |

2. Navigation area

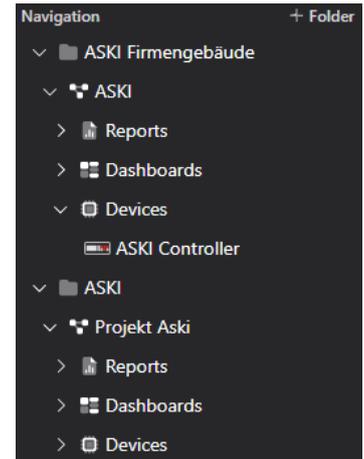
You will find your team's system in the navigation area. This consists of folders, projects, reports, dashboards and devices, which are nested together to form a tree structure.

Basically, the hierarchy works as follows:

Folders are the top layer of navigation.

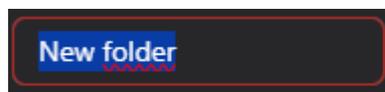
Additional folders, dashboards and projects can be added to the folders.

Devices and dashboards can be created in a project.

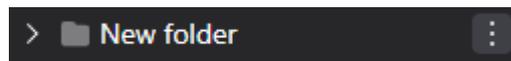


2.1. Folder

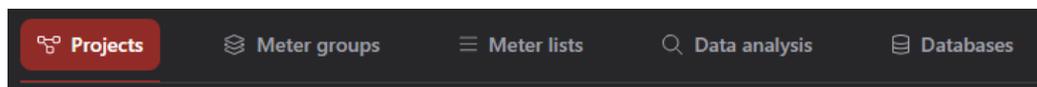
Use "+ Folder" to create a new folder. After pressing the button, an editable text field appears in the navigation area. Here you enter the name of the new folder.



The process is completed with the Enter button and a new folder is added to the navigation area. The folder can be renamed, deleted and moved using the 3 dots to the right of the folder name.



When you select this folder with a left-click, the following menu appears:



2.1.1. Projects

All projects created within a folder are displayed here.

2.1.2. Meter groups

Here you can group the individual meters of all devices located within the folder. The meter groups are used to add, subtract, multiply or divide the individual meter values - this has the advantage that you can work with the total value of the devices.

If a meter that performs more than one measurement is selected, a drop-down field appears next to the text field with all measurements, one of which must be chosen. You can use a search field to search for the meter group you have already created. If none exists yet, you can add predefined groups using "Add standard meter groups". Meter groups can be added, edited, deleted and saved.

Meter groups can also be used to map different cost centers, for example.

In the example, 2 charging stations are added together to obtain total values:

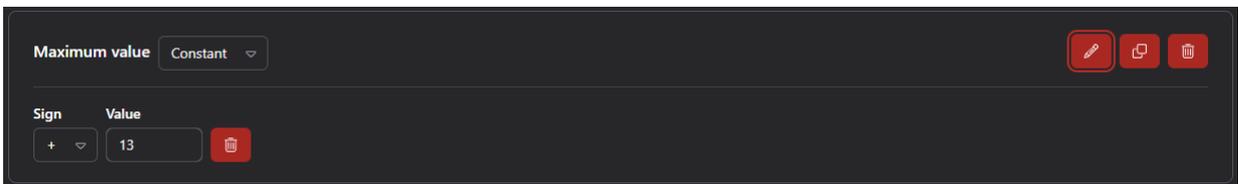
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|------|
| Released | Public | 9AKK108471A0171 | B | EN | 4/23 |



In the drop-down menu next to the name of the meter group, you have the choice of the following arithmetic operations:

- Addition and subtraction
- Multiplication and division
- Constant

This gives you the option of performing the above arithmetic operations when creating the meter groups. If you select "Constant", you have the option of defining limit, maximum and minimum values and displaying them in a chart (see [Widgets - Chart](#)).



2.1.3. Meter lists

Here you can summarize the individual meters and primarily created meter groups of the devices that are located within the folder in a list - this has the advantage that you can work with a lot of data at the same time.

If a meter that performs more than one measurement is selected, a drop-down field appears next to the text box with all measurements, where one must be chosen. You can use a search field to search for the meter lists you have already created. If none exist yet, predefined lists can be added via "Add standard meter list". Meter lists can be added, edited, deleted and saved.

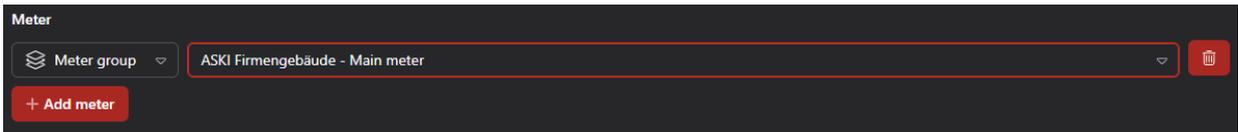


| | | | | | |
|----------|----------------|-----------------|------|-------|------|
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
| Released | Public | 9AKK108471A0171 | B | EN | 5/23 |

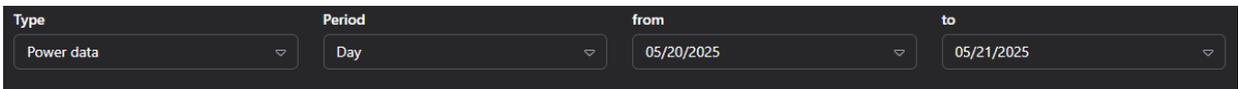
2.1.4. Data analysis & Databases (subscription-based option)

The difference between databases and data analysis is the larger scope of the data and you can enter a much longer period in the time range.

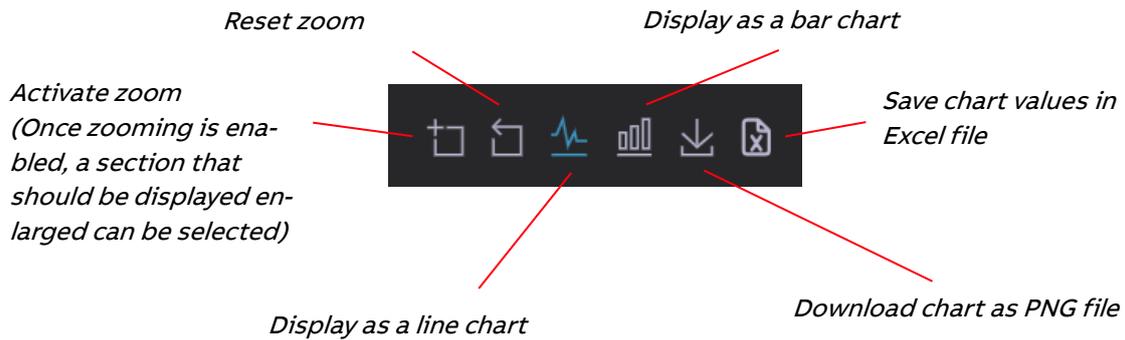
Power and consumption data from the meters, meter groups and meter lists of devices created within the folder can be compared here and displayed in a chart. The "Add meter" button can be used to add the values of a meter, a meter group or a meter list to the chart. The respective meter is deleted again with "Delete meter". If a meter that performs more than one measurement is selected, a drop-down field appears next to the text box with all measurements, where one must be chosen. If a colour has not yet been defined for a meter, it can be set using a colour dot.



The type (power or consumption data), the time unit (day, month, year) and a time range can also be set.



Further setting options:



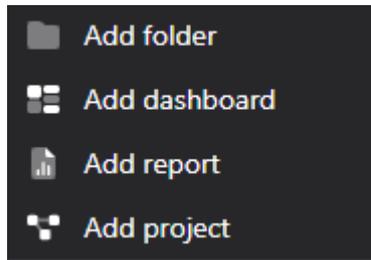
The comparison between a meter group and a meter could look like this:



| | | | | | |
|----------|----------------|-----------------|------|-------|------|
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
| Released | Public | 9AKK108471A0171 | B | EN | 6/23 |

2.2. Project

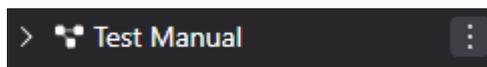
To create a new project in a folder, click on "Add project" under the 3 dots of the respective folder.



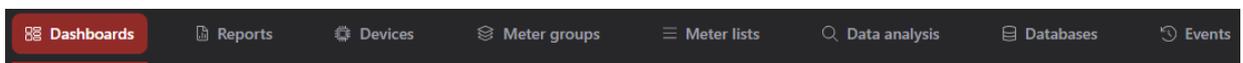
After pressing the button, an editable text field appears in the navigation area. Here you enter the name of the new project.



The process is completed with the Enter button and a new project is added to the folder in the navigation area. A project can be renamed, deleted and moved using the 3 dots to the right of the project name.

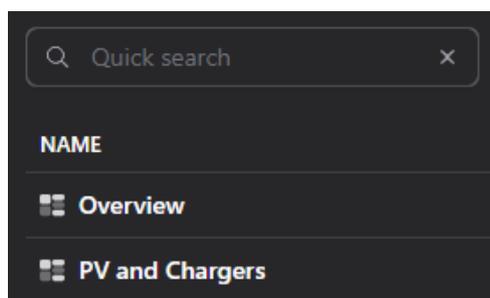


If this project is selected, the following information will be displayed.



2.2.1. Dashboards

Shows an overview of the dashboards created in this project.

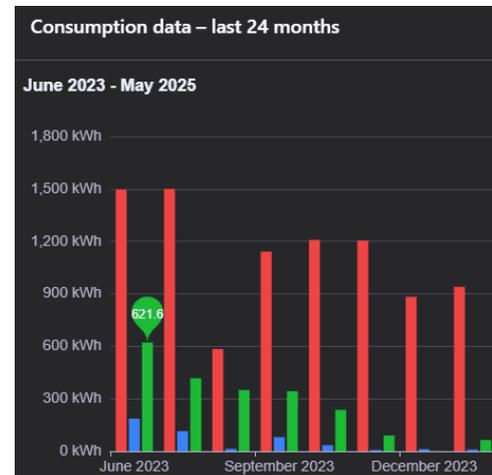


| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|------|
| Released | Public | 9AKK108471A0171 | B | EN | 7/23 |

2.2.2. Reports

The difference between dashboards and reports is like the difference between data analysis and databases. Reports can also include charts and tables, but the data does not come from the controller; instead, it comes from a database and is therefore much more extensive. The automatically generated reports can be sent as an e-mail to a selected recipient. You can only select a recipient who is also invited to the team (see [Team settings](#)).

| Performance data – last 2 years | | | | | |
|---------------------------------|--------------|---------------|------------|------------|----------|
| Meter/group | January 2024 | February 2024 | March 2024 | April 2024 | May 2024 |
| <u>Netzbezug [kW]</u> | 12.55 | 13.4 | 13.32 | 12.99 | 13.98 |
| <u>PV-Anlage [kW]</u> | 2 | 2.41 | 3.9 | 12 | 3.43 |
| <u>Lieferung ins Netz [kW]</u> | 1.23 | 1.56 | 2.53 | 2.87 | 2.48 |



2.2.3. Devices

All devices that have been added to this project are displayed here.

| DEVICE NAME | SERIAL NUMBER | DEVICE TYPE |
|-------------|---------------|------------------|
| Mini Test | | ALS-Mini-sx-xp |
| Profi Test | | ALS-Profi-s(x)xp |

2.2.4. Meter groups

See [Meter groups](#)

2.2.5. Meter lists

See [Meter lists](#)

2.2.6. Data analysis & databases (subscription-based option)

See [Data analysis & databases](#)

2.2.7. Events

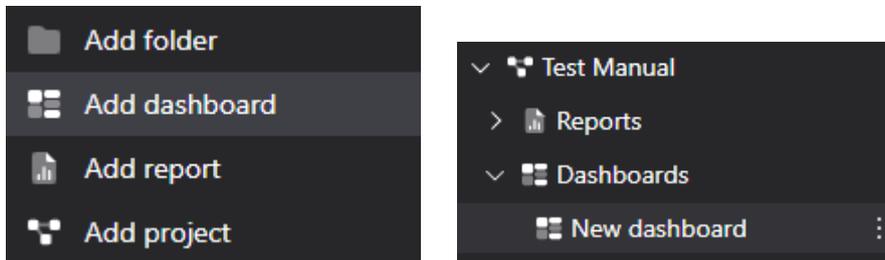
Log of all project-related events, including timestamps indicating which user modified what and when.

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|------|
| Released | Public | 9AKK108471A0171 | B | EN | 8/23 |

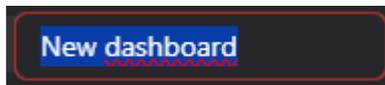
2.3. Dashboards

In information management, a dashboard is a graphical user interface that is used to visualize data.

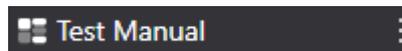
To create a new dashboard, select "Add dashboard" from the three-dot menu of the relevant folder or project – under Dashboards (three dots).



After pressing the button, an editable text field appears in the navigation area. Enter the name of the new dashboard here.

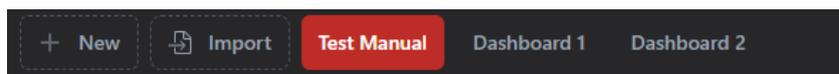


The process is completed with the Enter button and a new dashboard is added to either a folder or a project in the navigation area. A dashboard can be renamed, deleted and moved using the 3 dots to the right of the dashboard name.



2.3.1. Setting options

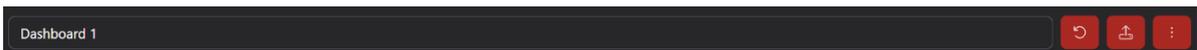
With "New" you can create a new dashboard. If you want to import an existing dashboard, you can do this by clicking on "Import" (select exported dashboard in the file manager). The dashboards that have already been created are also listed here.



To edit a dashboard, the following button must be pressed:



You can now edit the dashboard.



| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|------|
| Released | Public | 9AKK108471A0171 | B | EN | 9/23 |

 **Discard dashboard**
Everything that has not been saved is deleted or discarded.

 **Publish dashboard**
Dashboard is saved.

 **Selection of several settings**
Duplicate, export, activate lobby mode or delete dashboard.



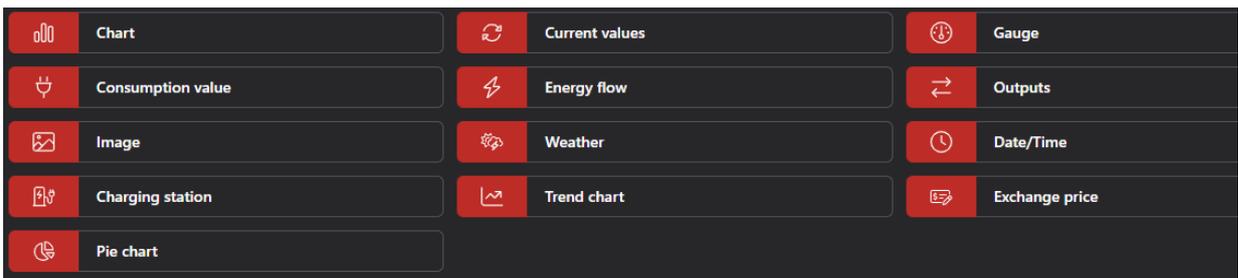

-  Duplicate dashboard
-  Export dashboard
-  Activate lobby mode
-  Delete

2.3.2. Widgets

A widget is an element on a user interface that can be used interactively.

Setting options

To add a widget to the dashboard, one of the following elements must be selected by clicking on it:



Note: A widget can only be added to a dashboard that is editable.
(see *Setting options*)

There are 3 symbols in the top right-hand corner of the newly inserted widget:

- Settings:  As soon as a widget has been inserted, it must be set or configured. The settings menu varies depending on the widget - but usually includes title, data source, ...
- Duplicate:  Copy the widget and paste it again at the end of the dashboard.
- Delete:  Deletes the widget

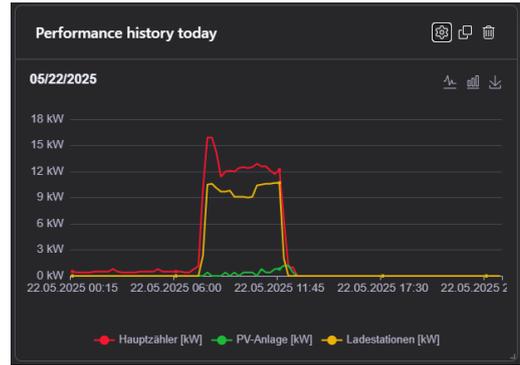
Chart

With this widget, the performance and consumption data of the individual meters and meter groups can be displayed in a chart and thus compared.

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 10/23 |

Setting options:

- Title of the widget
- Chart type (bar, line and range chart)
- Type of data (performance and consumption data)
- Stacking multiple values
- Period
- Meters or meter groups to be displayed in the chart



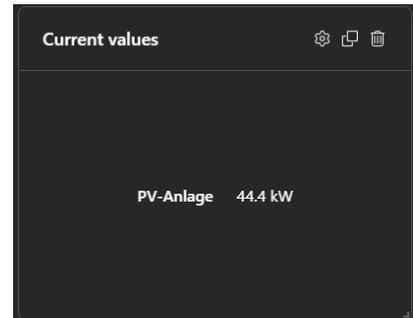
The consumption data can also display price and CO2 savings.

Current values

This widget lists the name and power consumption of certain meters or meter groups and is updated every 5 seconds.

Setting options:

- Title of the widget
- Meters or meter groups to be listed in this widget



Gauge

This widget displays the performance of a selected meter or a selected meter group in the form of a speedometer. The difference to the "Current value" widget is that only a single value can be displayed, which is then visually represented.

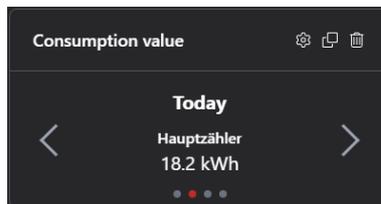
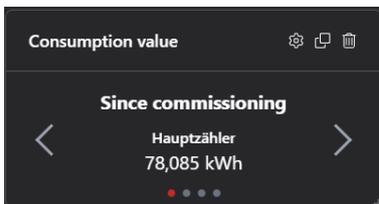
Setting options:

- Title of the widget
- Meter or meter group
- Minimum and maximum value of the gauge

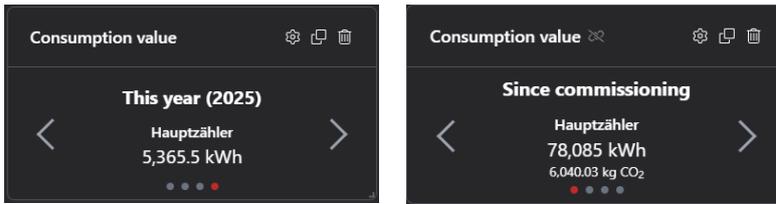


Consumption value

With this widget, the consumption value, costs, and CO2 savings of specific meters or meter groups can be displayed over a certain period as needed. Using arrows, users can switch between different time periods.



| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 11/23 |



Setting options:

- Title of the widget
- Meters or meter groups
- Standard period (Since commissioning, Today, This month, This year, Switch automatically)
With "Switch automatically", the system automatically switches between the specified time periods after a few seconds (manual operation of the arrows is not necessary).
- Display consumption data (kWh)
- Show price
- Show CO2 savings
- Display degree of self-sufficiency

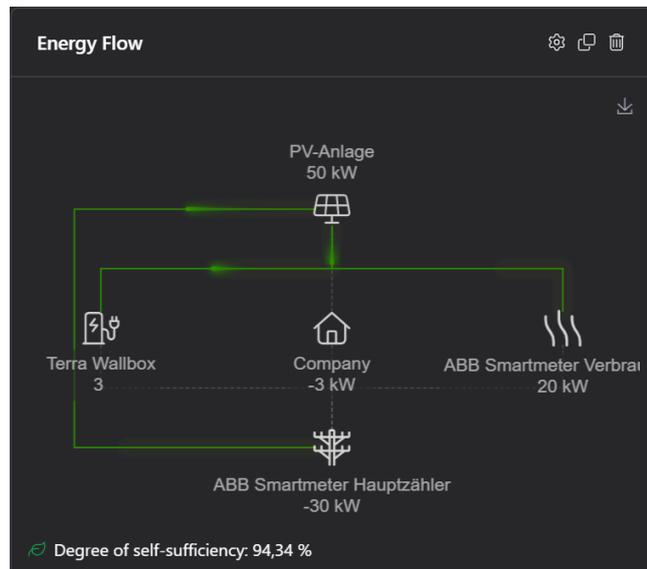
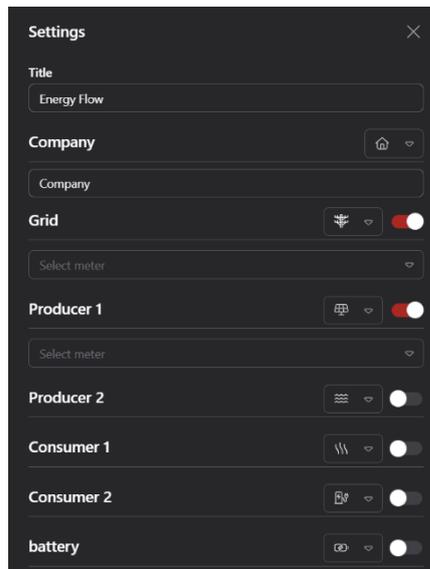
Energy flow

This widget displays the energy flow of a system. Depending on requirements, 1 grid, 2 generators, 2 consumers and 1 battery can be added to the network. If a meter or a meter group that performs more than one measurement is selected, a drop-down field appears next to the text box with all measurements, where one must be chosen. For a detailed view, you can change the icons of the devices using predefined icons.

If the generator and grid supply are set, the degree of self-sufficiency is also displayed.

Setting option:

- Title of the widget



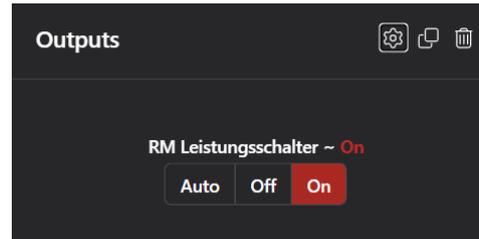
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 12/23 |

Outputs

This widget provides an overview of inputs/outputs, load groups, and flags that can be manually switched on and off

Setting options:

- Title of the widget
- IOs, load groups or flags that should be switched on and off manually in the widget



Image

This widget offers the possibility to add an image to your dashboard.

Setting options:

- Title of the widget
- File (possibility to upload an image file)
- Display mode (centering and filling)
- "Fill" - fills the image in the entire widget area
- "Center" - places the image in the middle and does not change the size of the image

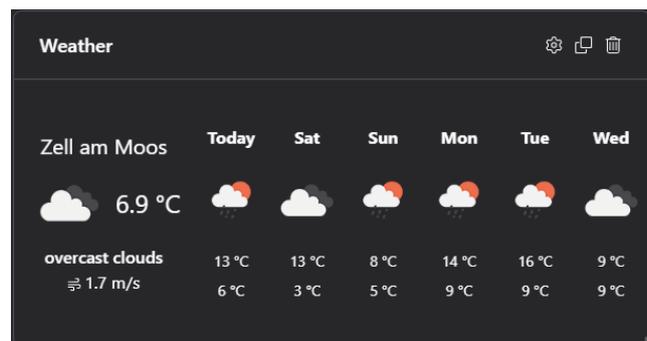


Weather

This widget provides information about the weather of a selected location.

Setting options:

- Title of the widget
- City
- Weather forecast

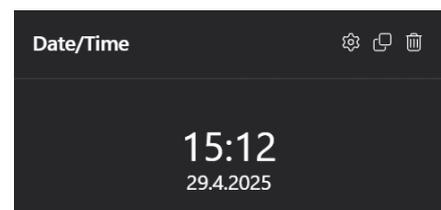


Date / Time

This widget provides information about the date and time.

Setting option:

- Title of the widget



Charging station

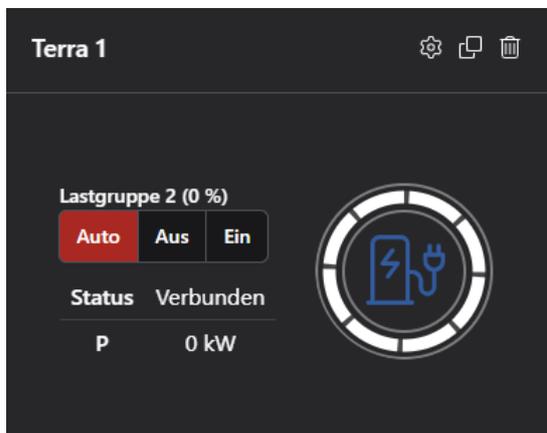
This widget provides information about the set charging station. In addition, a status can be selected and controlled using the button- or switch-view.

Setting options:

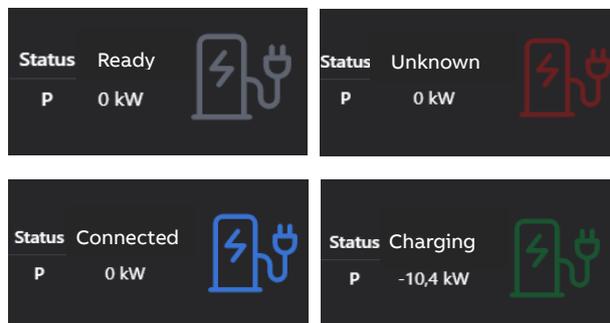
- Title of the widget
- Meter or charging station
- Show names

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 13/23 |

- IO, load group or flag that is to be controlled manually for the widget
- Push-button or switching view



The color of the charging station symbol reflects the status of the charging station:

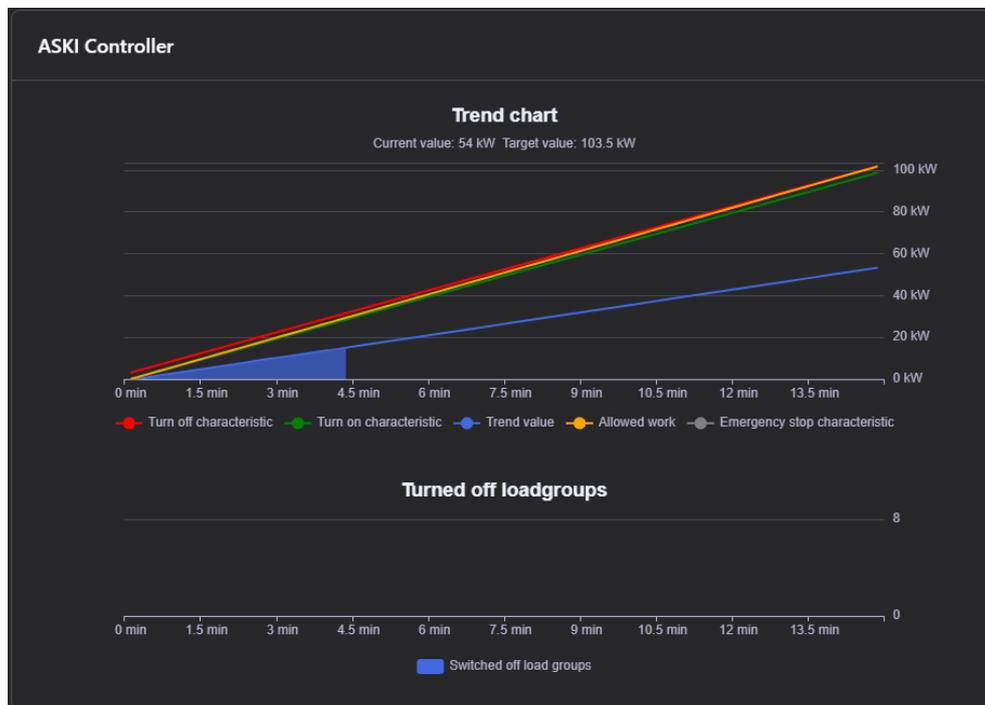


Trend chart

This widget displays the trend chart. Values such as the current value, setpoint and characteristic curves such as the switch-off characteristic curve, the switch-on characteristic curve, the trend value, permitted work and the emergency stop characteristic curve are displayed. Additionally, the switched-off load groups are also displayed.

Setting options:

- Title of the widget
- Device from which the data is to be read



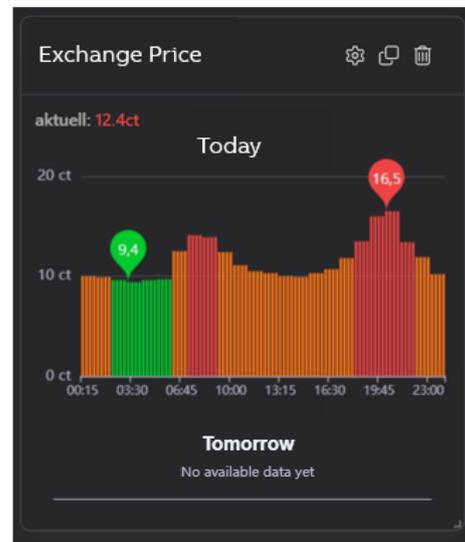
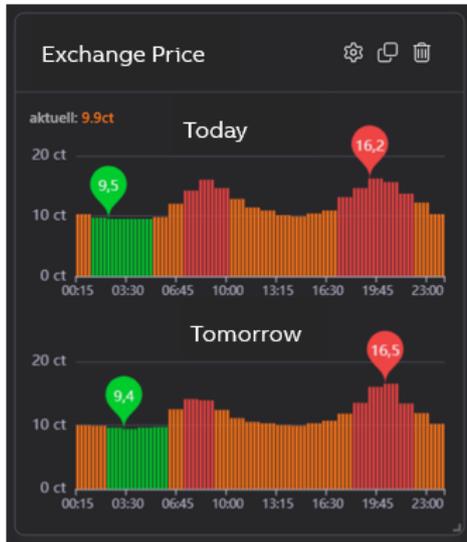
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 14/23 |

Exchange price

This widget shows the exchange price. The current daily values and, depending on the update time set on the device, the values for tomorrow are displayed.

Setting option:

- Title of the widget



Pie chart

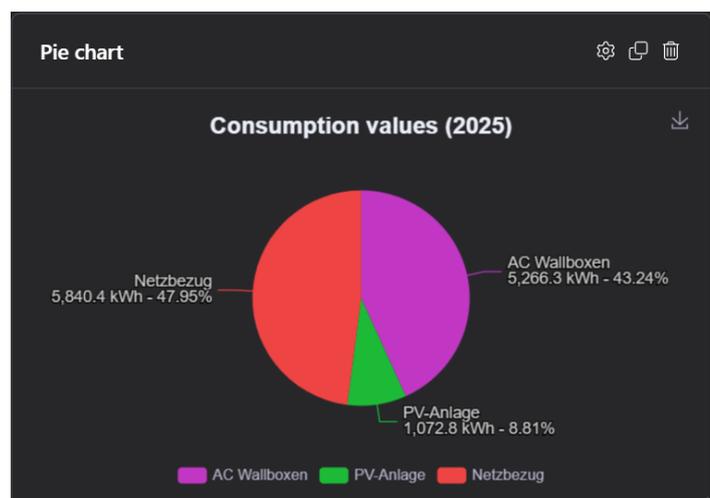
Like the chart, this widget can be used to display consumption data from the individual meters and meter groups in a chart and can therefore be compared.

In contrast to the chart, instantaneous values can also be displayed here.

Setting options:

- Title of the widget
- Type of data (consumption values, instantaneous values)
- Period (today, this month, this year)
- Display name, value and percentage
- Meters or meter groups to be displayed in the chart

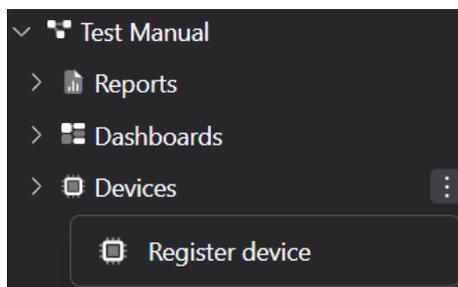
In the widget itself, the chart can also be saved as an image using the following symbol at the top right:



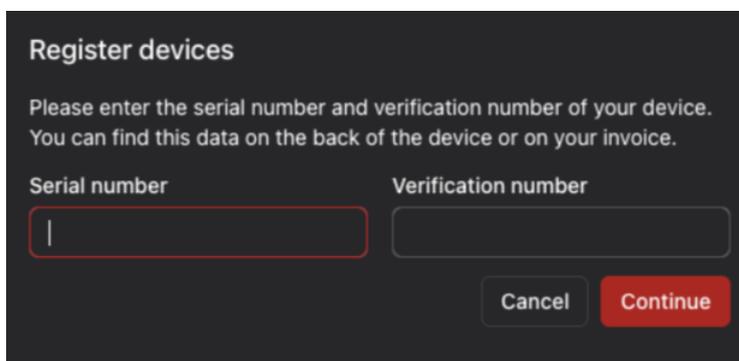
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 15/23 |

2.4. Devices

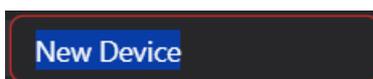
To add a new device, click on "Register device" under the 3 points of the respective project in the "Devices" submenu.



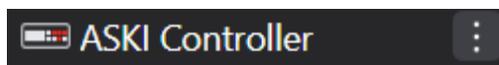
After pressing the button, a window opens where the serial and verification number of the controller you want to add must be entered. As soon as these have been entered correctly, you can click on "Continue".



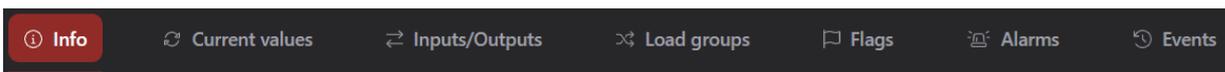
After pressing the button, an editable text field appears in the navigation area. Here you enter the name of the new device.



The process is completed with the Enter button and a new device is added to a project in the navigation area. The device can be renamed, deleted and moved using the 3 dots to the right of the device's name.



If you now select this project, the following information is displayed.



2.4.1. Info

Device information is displayed here (manufacturer, serial number, device, device version and name).

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 16/23 |

| | | |
|----------------------|------------------------------|--------------------------|
| Hersteller ASKI | Controller Profi-SxXP | Name Hauptstation alt |
| Seriennummer 7233 | Controller-Version v20.4v | |

A complete list of all meters within the device is also provided.

| Meter | | | | |
|-----------------|------------------|------------|----------------|----------|
| Name | Consumption unit | Power unit | Current values | Status ⓘ |
| Analog Input 1 | | °C | ✓ | ✓ |
| > Awattar | | | ✓ | ✓ |
| > Bus-Zaehler 1 | | | ✓ | ✓ |

2.4.2. Current values

The meter ID, the name, the type of measurement (voltage, current, power, ...) and the value (volts, amps, watts, ...) of all meters are listed here and updated every 5 seconds. You can use the search field to filter for specific values.

| # | Name | Measurement | Value |
|---|--------------------|-------------|--------|
| 1 | Awattar | Preis | 8.4 ct |
| 2 | Awattar | Out | 35 % |
| 3 | Lastkontrollsystem | Hauptzähler | 0 kW |
| 4 | Lastkontrollsystem | Sollwert | 125 kW |

2.4.3. Inputs/Outputs

Overview of all inputs and outputs that can be switched on and off manually. You can use the search field to filter for specific inputs/outputs.

| Filter | | |
|----------------------|-------|--|
| Enter search term... | | |
| Name | Value | State |
| Digital I/O 1 | Off | |
| Digital I/O 2 | 100 % | <input type="button" value="Auto"/> <input type="button" value="Off"/> <input type="button" value="On"/> |
| Digital I/O 3 | Off | |

| | | | | | |
|----------|----------------|-----------------|------|-------|-------|
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
| Released | Public | 9AKK108471A0171 | B | EN | 17/23 |

2.4.4. Load groups

Overview of all load groups that can be switched on and off manually. You can use the search field to filter for specific groups.

| Filter | | |
|----------------------|-------|-------------|
| Enter search term... | | |
| Name | Value | State |
| Lastgruppe 1 | 100% | Auto Off On |
| Lastgruppe 2 | 0% | Auto Off On |
| Lastgruppe 3 | 0% | Auto Off On |

Load group switching

Below the table of load groups are the corresponding switching processes. Information such as the load group number, the name of the load group, the time when the load group was switched on or off, the status and reason for switching and the seconds for which the load group was switched off can be displayed. A date picker can be used to call up the switching operations for a specific day. If the date has not yet been set, the data for today is displayed. The search field for load groups also filters the switching operations.

| 05/23/2025 | | | | | |
|----------------|-------------|----------|-------|--------------|--------------------------------|
| Load group no. | Designation | Time | State | Reason | Shutdown duration (in seconds) |
| 0 | ACU-LG1 | 08:02:45 | OFF | Optimisation | |
| 0 | ACU-LG1 | 08:15:31 | ON | Optimisation | 766 |
| 1 | ACU-LG2 | 08:02:45 | OFF | Optimisation | |
| 1 | ACU-LG2 | 08:15:52 | ON | Optimisation | 787 |

2.4.5. Flags

Overview of all flags that can be switched on and off manually. You can use a search field to filter for specific flags.

| Filter | | |
|----------------------|-------|-------------|
| Enter search term... | | |
| Name | Value | State |
| Flag Ladestation | 100% | Auto Off On |
| Flag 2 | 100% | Auto Off On |
| Flag 3 | 100% | Auto Off On |

| | | | | | |
|----------|----------------|-----------------|------|-------|-------|
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
| Released | Public | 9AKK108471A0171 | B | EN | 18/23 |

2.4.6. Alarms

Overview of all alarms that can be acknowledged using the "Acknowledge" button, deactivated using "Deactivate" and deleted using "Delete". You can use the search field to filter for specific alarms.

| Filter | | |
|----------------------|------------------|-------------|
| Enter search term... | | |
| Name | State | |
| E-Lad | Active | Acknowledge |
| Busgeräte | Acknowledged | Deactivate |
| TCP-Modul | No longer active | Delete |
| Alarm 10 | No longer active | Delete |

2.4.7. Events

Under the "Events" tab, you will find a list of registered activities of the active users from this project. For example, it is archived when someone switched a load group, flag,

3. Settings area

3.1. E-Mail Reports

Displays an overview of all reports and provides information on when and how often an automatic email is sent to which recipients.

3.2. Lobby mode and playlists

Dashboards are displayed here in full screen mode. Lobby mode offers a clear and focused view, ideal for presentations or public displays.

3.2.1. Playlists

Create playlists

- Click on **Playlists** in the sidebar.
- Create a new playlist and add several dashboards to be displayed.
- For each playlist, select how long a dashboard should be displayed before switching to the next one.
- Press the **play button** to start the playlist and automatically display the dashboards in the specified order.

Playlists allow you to seamlessly display a series of dashboards one after the other. Ideal for events, trade fairs or information stations where several topics need to be covered.

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 19/23 |

3.2.2. Lobby mode

Activation of the lobby mode

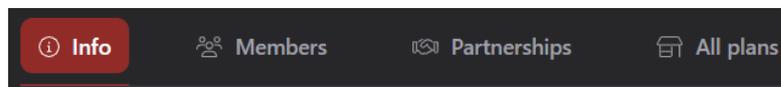
- Go to your dashboard and select the **Activate lobby mode** option under Settings (3 dots). Your dashboard is then displayed in full-screen mode, without distractions from other user interface elements.

Lobby mode is ideal for presentations where you want to ensure that the audience only sees the most important information.

3.3. Team settings



These settings can generally be divided into Info, Member Area, and Partnerships. Additionally, under "All Plans," you can see an overview of all available licensing models.



In the info area you can find information about:

- the system (number of projects, devices and dashboards, meter groups),
- the license (type of license and period of validity),
- the members (number of members),
...of the selected team.

Basic
1104

Licence until 31.5.2028 Days remaining

4 / 10
Team members

4 / 10
Devices

4 / 4
Projects

8 / 8
Dashboards/Reports

23
Meter groups

In the member area, all users are displayed with information such as e-mail, name and the role that is decisive for authorization in the system. Access can also be managed here to determine which areas the user has access to. In this overview, the created users can also be deleted again via the "Remove" button if necessary.

User

Invite user

| EMAIL | ↑ NAME | ↓ ROLE | ↓ ACCESS |
|-------|--------|--------|----------|
|-------|--------|--------|----------|

People can be invited via their e-mail address using the "Invite user" button. The role of the user you want to add can also be set directly here.

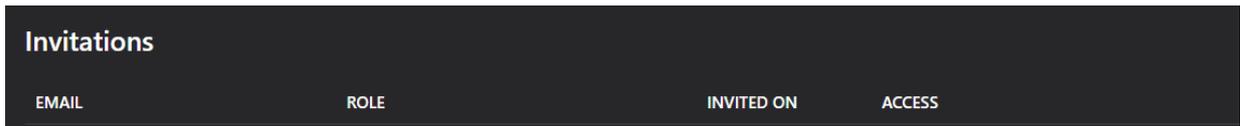
| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 20/23 |

There are different user roles:

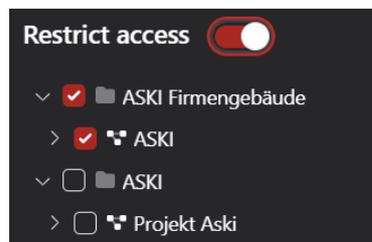
- Member - read only
- Member (without database) - Member, no access to the database
- Administrator - read and write authorization
- Administrator (without database) - Administrator, no access to the database
- Administrator (without switching authorization)

An email will be sent to the specified address, allowing the person to join the team.

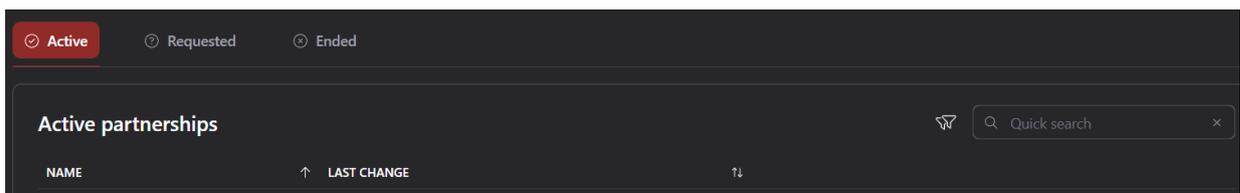
The outstanding invitations are then listed under "Invitations".



You can change a user's access with "Manage access". A dialog box opens where you can restrict access using a switch. As soon as this is activated, the entire navigation area is displayed. You can now select what the user may ultimately see in their navigation.

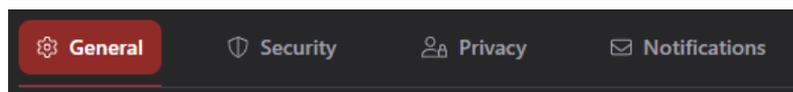


The partnerships area works in a similar way like the members area. The only difference is that it is designed to act as an administrator for several "teams". Unlike members, teams are not invited via email; instead, they must request membership from a "partner." In the following area you will see an overview of the active, requested and terminated partnerships.



3.4. User settings

These settings can be divided into a general and a security area.



The logged-in user can change in the general area the:

- Profile picture,
- E-mail address,
- Display name,
- Language settings,

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 21/23 |

- the appearance of the portal with the setting options "Light mode", "Dark mode" and "Use system settings".

If the "Use full width" function is activated, all pages are adjusted to the maximum width of the screen. If this is deactivated, the width is limited.

In the "Security" section, you can activate or deactivate two-factor authentication. This is proof of identity, whereby the user receives a code on another device and must then enter it in the portal.

In privacy settings, you can also choose whether to allow the sending of statistics or not.

In the notification's settings, you can allow push notifications from the portal in your browser. These notifications can later be disabled again in the security settings of your browser.

3.5. Connection to third-party systems

An API interface is used to connect to a process- or building management system.

This also enables integration into a common ERP system (e.g. SAP).

You can find a list of our API interface at: <https://api.portal.aski.at/swagger/index.html>

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 22/23 |

4. Additional Information

4.1. Listing of related documents

| Ref # | Document Kind, Title | Document No. |
|-------|----------------------|--------------|
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

5. Addendum

6. Revisions

| Rev. | Page (P)/Chapt. (C) | Description | Date Dept./Init. |
|------|---------------------|----------------------------|------------------|
| A | | Creation of basic document | 12.07.2023/LHU |
| A | | Portal Version 1.0 | 13.07.2023/LHU |
| A | | Changes, fine-tuning | 05.09.2023/LHU |
| A | | Changes, fine-tuning | 05.12.2023/LHU |
| A | | Changes, fine-tuning | 30.01.2023/LHU |
| A | | Revision and updating | 29.11.2024/CKR |
| B | | Revision and updating | 05.06.2025/CKR |

We reserve the right to make changes in the interests of technical development. Information is provided without guarantee. We protect our rights.

All intellectual property, including trademarks and copyrights, is the property of their respective owners.

Any unauthorized use of such intellectual property is expressly prohibited.

ABB AG | Irrseeblick 47 | A-4893 Zell am Moos | www.aski-energy.com

T +43 6234 200 10-0 | aski-office@at.abb.com

| STATUS | SECURITY LEVEL | DOCUMENT ID. | REV. | LANG. | PAGE |
|----------|----------------|-----------------|------|-------|-------|
| Released | Public | 9AKK108471A0171 | B | EN | 23/23 |