



Meta-Ess monitoring Introduction

for Distributors or Installers

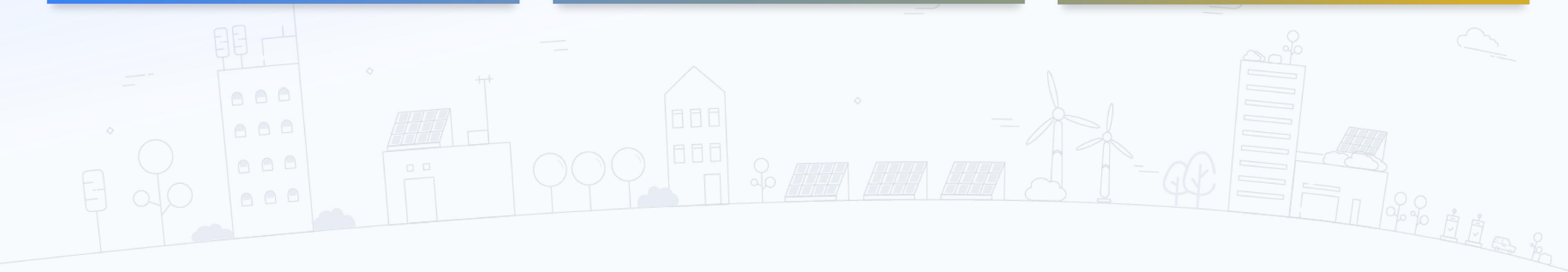
Release Data
2023.03
Updated to V2.2.0

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01 Monitoring Introduction



Monitoring Solutions

MetaEss Cloud



MetaEss Cloud is a self-developed official monitoring platform for end-users and distributors to monitor and manage their devices and plants. It features rich functions such as 24-hour load monitoring and devices and plants management, remote configuration and upgrading, organization management, alarms information, etc.

<https://www.meta-ess.com/>

MetaEss APP



MetaEss App is the portable version of the MetaEss cloud, allowing people to install it on their phones for monitoring and management of their devices and plants anytime, anywhere.



02 MetaEss Cloud



Sub-organization Account Creation

2.1

The organization account only can be created by its parent organization

- Sign in the organization account.
- Move the cursor to “Management” and click “Organization Management”.
- Click the “+” button.
- Fill in all blanks marked with asterisks such as distributor company name, contact person, email, country, and address.
- Click the “OK” button.
- The registered email will receive a registration succeeded notice with account and password information.
- Inform the email owner of the organization to sign in its account according to the email content, then complete the system settings.
- The new organization account will appear in your account.

Management

Organization Management

Company Name/Email/Organization Code



Create Subordinate Organization



* Superior Distributor Code: DB229000

* Company Name:

* Contact Person:

* Email:

* Country/Region: Select Country/Region

* Detailed Address:

Default password: SolarEnergy

Cancel

OK

Owner Account Creation

Create owner account and power plant at one time

- Sign in the distributor account.
- Move the cursor to “Management” and click “Plant Management”.
- Click “Add Plant”
- Fill in the email of the owner of the power plant.
- Fill in the other blanks marked with asterisks such as plant name, plant type, and total string capacity, and click “Next”.

Management

Plant Management

Device Management

Organization Management

Device Log

+ Add power plant

Related user mailbox :

* Plant Name:

* Plant Type:

Next

Owner Account Creation

Fill in the “Location” information

- Go to the next page of the “Location” setting.
- Select the plant located country or region by clicking the down arrow.
- Select the time zone of the plant location.
- Click the “Selection” button and a map will pop up, looking for the address on the map and double-click it. Or search the location by entering keywords in the search box.
- Click the “Confirm” button.
- Click the “Next” button.

Add power plant

Installation Info — 2 Location — 3 Add Device — 4 Revenue setting

* Country/Region: 中国大陆 (China mainland)

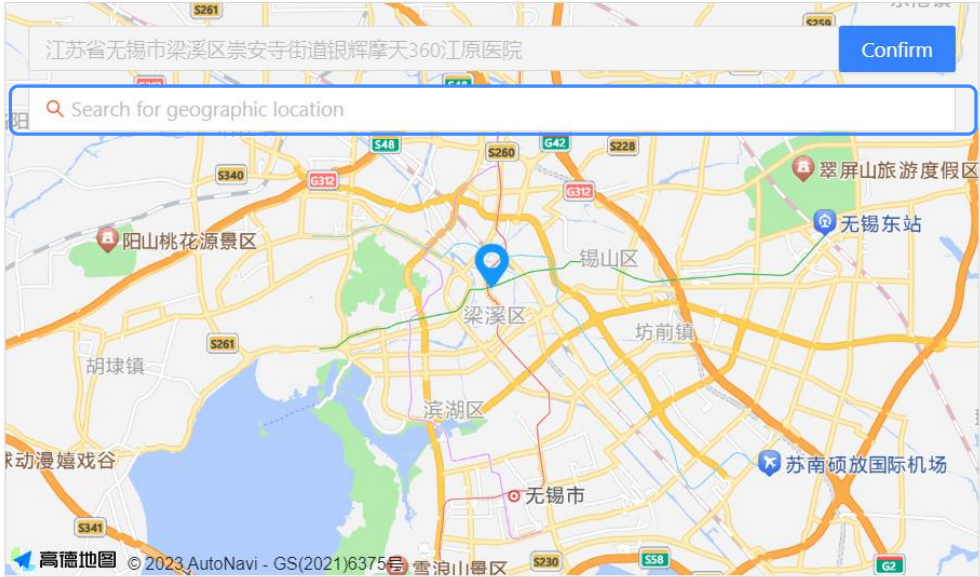
* Timezone: UTC+08:00 (Beijing)

* Location:

Detailed Address:

江苏省无锡市梁溪区崇安寺街道银辉摩天360江原医院

Search for geographic location



高德地图 © 2023 AutoNavi - GS(2021)6375 雪浪山景区

2.1 Owner Account Creation

Add “Device” information

- Fill in the inverter SN and check code (you can find it in the nameplate on the right side of the inverter).
- Name the device.
- Click the “Next” button.

Set “Electricity Price” information

- Set the electricity price according to the local subsidy policy or electricity price / Watt.
- Set the currency unit.
- Click the “Complete” button.
- An owner account with a plant inside is created successfully.

Add power plant

Installation Info — Location — **3 Add Device** — 4 Revenue setting

* SN:

* Check Code:

* Device Name:

Back Next

Add power plant

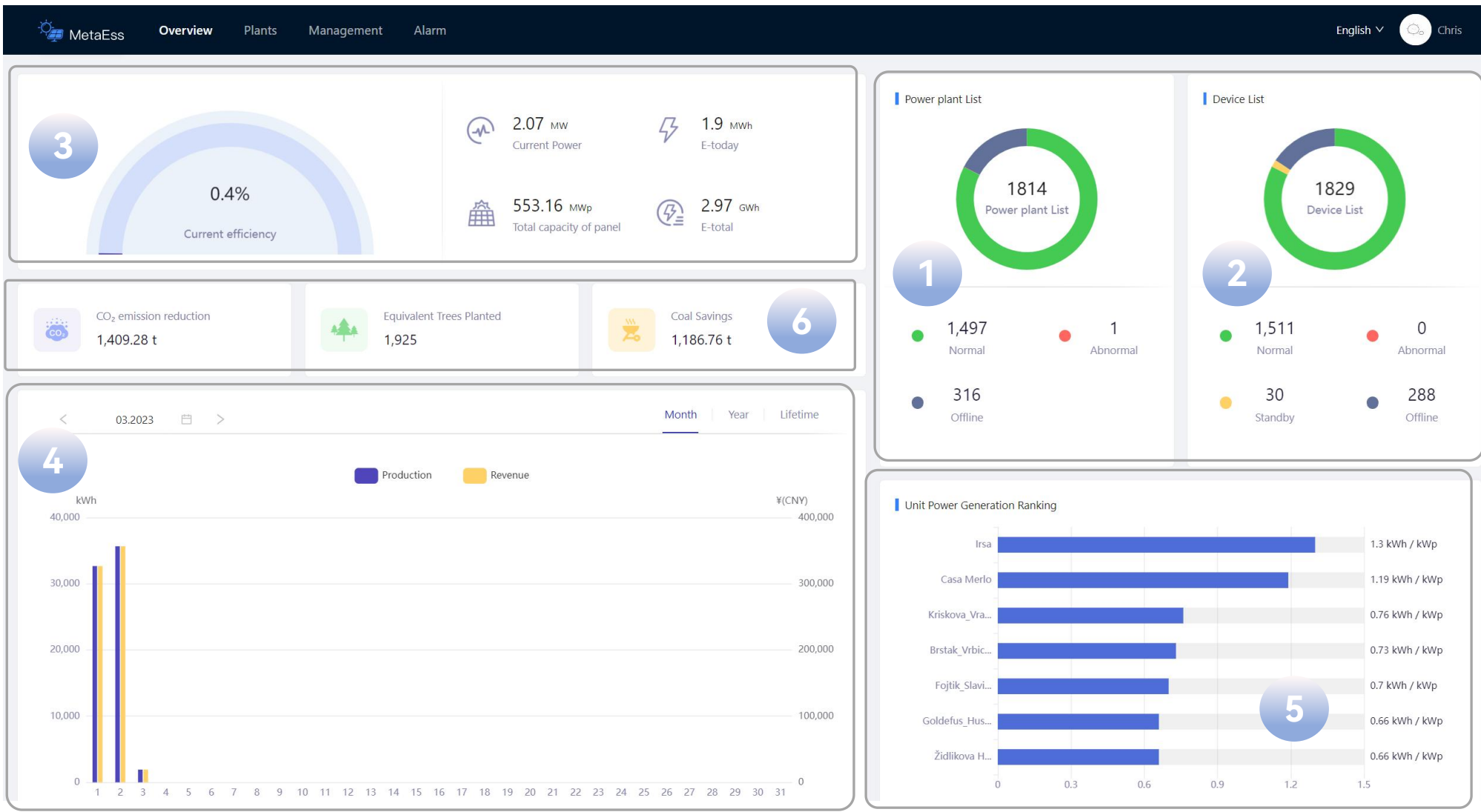
Installation Info — Location — Add Device — **4 Revenue setting**

* Revenue setting:

* Currency Unit:

Complete

Interface Introduction-Overview of All Plants



① All power plants are categorized and counted by the working status, the number in the circle is the normal plant quantity.

② All devices in power plants are categorized and counted by the working status, the number in the circle is the normal working device quantity.

③ Power plant system performance by different counting periods.

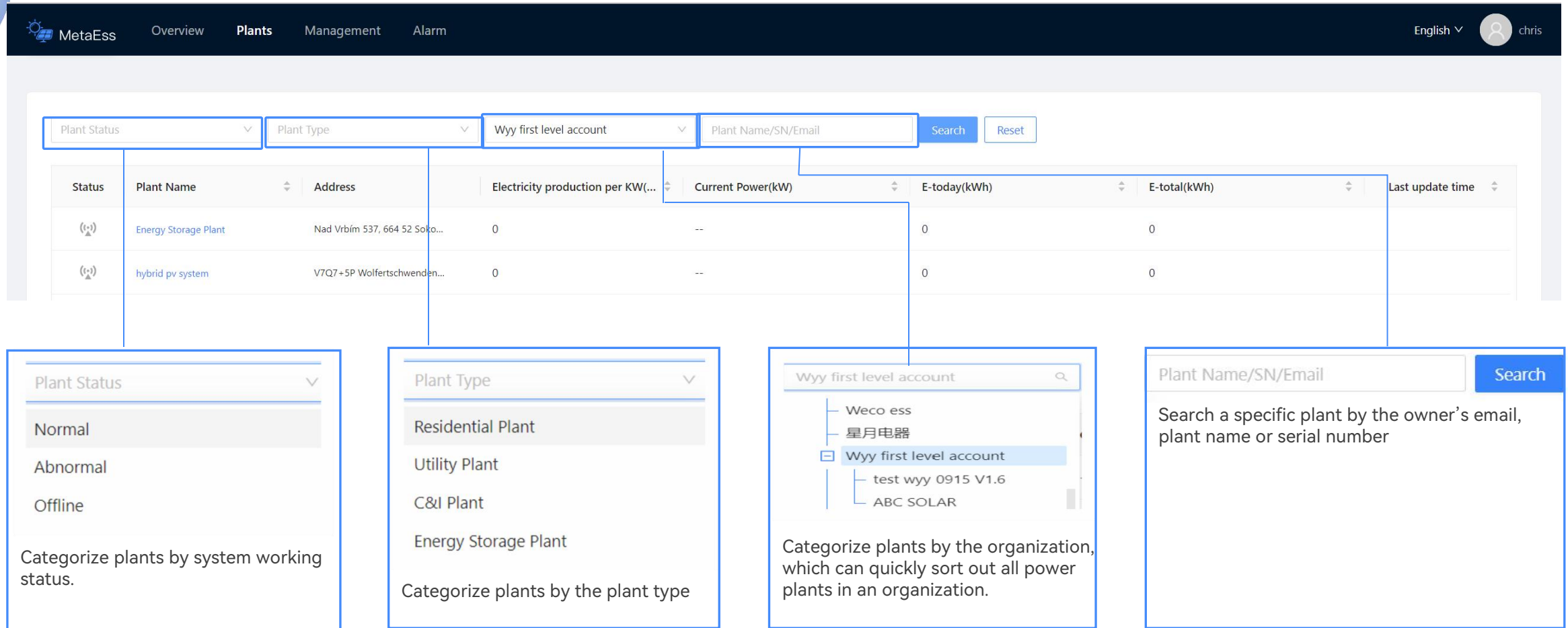
④ PV generation column.

⑤ Plant generation ranking by unit performance.

⑥ Environmental performance

Interface Introduction-Plants

2.2



The screenshot shows the MetaEss interface with a navigation bar (Overview, Plants, Management, Alarm) and a user profile (English, chris). The main content area features a search bar with filters for Plant Status, Plant Type, Wyy first level account, and Plant Name/SN/Email. Below the search bar is a table with columns: Status, Plant Name, Address, Electricity production per KW(...), Current Power(kW), E-today(kWh), E-total(kWh), and Last update time. Two rows of data are visible: 'Energy Storage Plant' and 'hybrid pv system'.

Four callout boxes provide details for the search filters:

- Plant Status:** A dropdown menu with options: Normal, Abnormal, Offline. Description: Categorize plants by system working status.
- Plant Type:** A dropdown menu with options: Residential Plant, Utility Plant, C&I Plant, Energy Storage Plant. Description: Categorize plants by the plant type.
- Wyy first level account:** A search box with a tree view showing a hierarchy: Weco ess, 星月电器, Wyy first level account (selected), test wyy 0915 V1.6, ABC SOLAR. Description: Categorize plants by the organization, which can quickly sort out all power plants in an organization.
- Plant Name/SN/Email:** A search box with a blue Search button. Description: Search a specific plant by the owner's email, plant name or serial number.

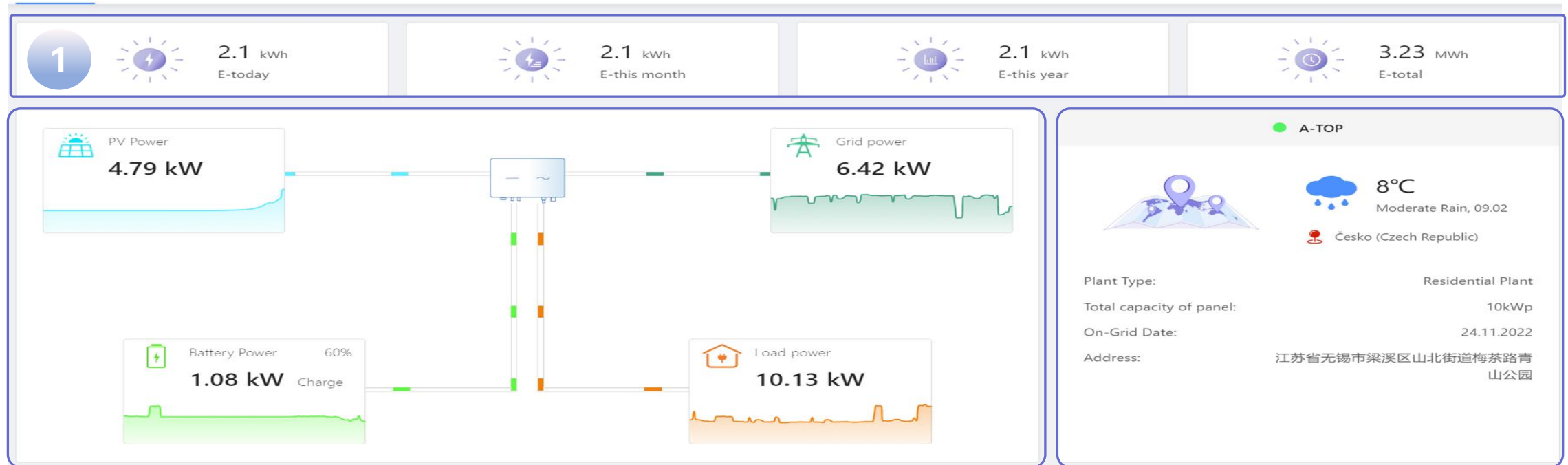
- All power plants your account manages will be listed on this page, and you can quickly sort them out by different dimensions.

Interface Introduction-Overview of a Single Plant

2.2

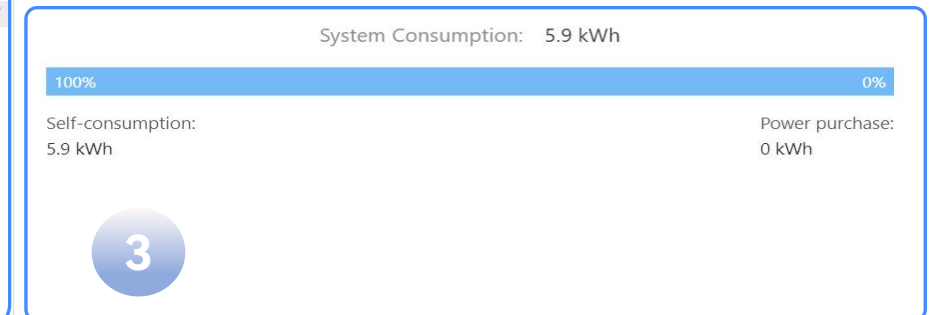
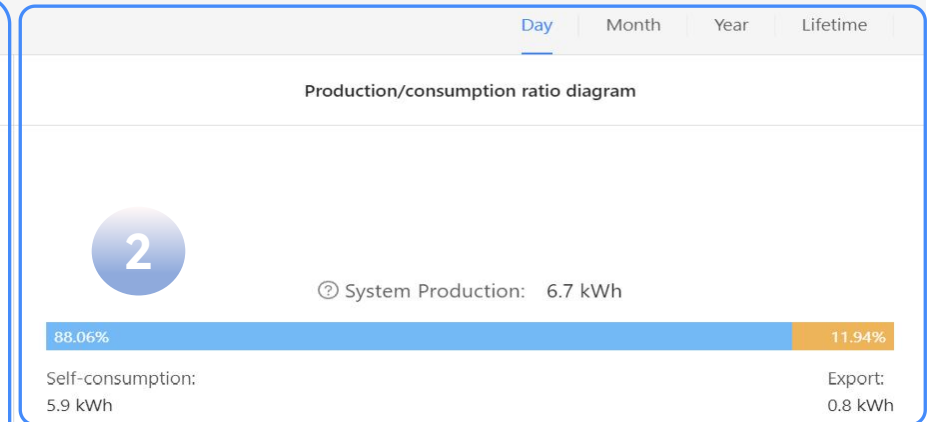
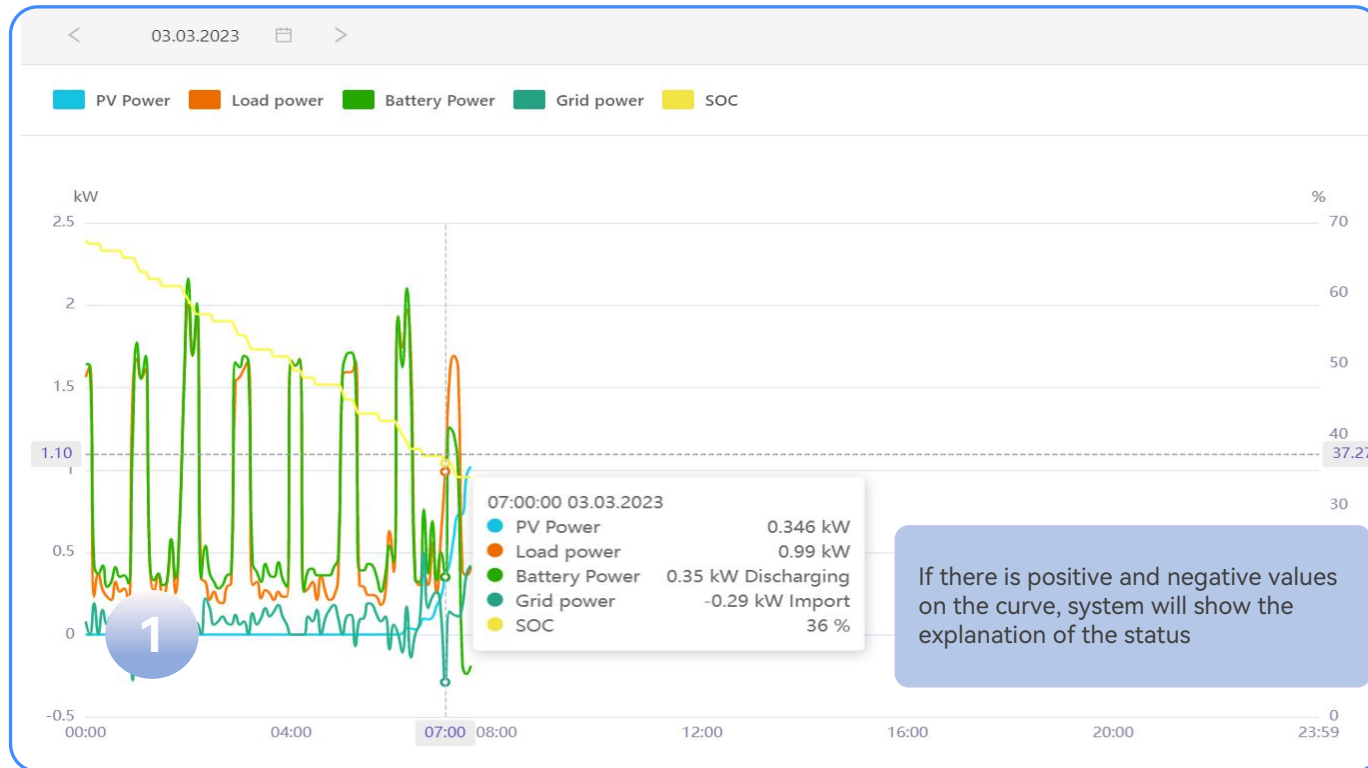
Plants / Energy Storage Plant

Overview Device List



- ① Single plant energy generation is counted by day/month/year and lifetime.
- ② Energy flow animation clearly shows the system energy generation and consumption.
- ③ Plant basic introduction includes address, type, weather, connection date and system capacity.

Interface Introduction-Overview of a Single Plant



- ① Real-time power curve of each module is shown in a single PV plant menu.
- ② The proportions of system production is calculated by dividing self-consumption into power export.
- ③ Self-consumption consists of total consumption of home appliance.
- ④ Load power = PV power + Battery power - Grid power


Interface Introduction-Device List/Device Details

2.2

Plants / Christele

Overview

Device List

Status	Device Name	SN	Device Type	Remote - Local	Model
	test	Z112200102430142	Inverter	WIFI	MHT-10K-25

← Real-time Info Historical info

Inverter basic parameters		Battery Parameters		Inverter AC parameters		
03:43:00 2023.02.09		03:43:00 2023.02.09		03:43:00 2023.02.09		
Device Status	Generating	Battery model	WattLi_HV	L1	L2	L3
Device Name	test	Battery Status	Normal	AC Voltage(V)	228.3	228.1 227.3
SN	Z11210010193014C	Battery Power	0.029 kW	AC Current(A)	0.1	0 0
Check Code	372798	Bi	234.3 V	AC power(kW)	0.02	0 0
Device Model	MHT-10K-25	Battery Current	0.1 A	Back-Up load voltage(V)	226.8	227 227
Rated Power	10.0 kW	Battery Temperature	21.7 °C	Back-Up load current(A)	1	0.3 1.2
Work Mode	General Mode	SOH	94.12 %	Back-Up load power(kW)	0.187	0.017 0.223
Export Limit	On	SOC	49.63 %	Frequency(Hz)	50.01	49.98 49.97
Feed in grid(%)	100.0 %	Charge current limit	30.0 A			
Total operation time	7397 H	Discharge current limit	30.0 A			
Inverter Temperature	26.8 °C	Min Cell Voltage	3.277 V			
Current Power	0.00 W	Max Cell Voltage	3.288 V			
Daily generation	0.00 Wh					
E-total	9.58 MWh					

Click the “Device List” to check all devices bound to the power plant.

Click the “Device Name” to check the detailed info of all system modules.

PV Side			
03:43:00 2023.02.09			
	Voltage(V)	Current(A)	Power(kW)
PV1	0	0	0

Interface Introduction-Device Curve

2.2

← Real-time Info **Historical info**

Click "Historical info" to view device info in the curve format.



Operation Management-Plant Creation

Management

Plant Management

Device Management

Organization Management

Device Log

+ Add power plant

Locate cursor at “Management” and click “Plant Management”. Click “Add power plant” in “Plant Management” menu to create a new plant. Fill in the required fields marked with *.

Add power plant

1 Installation Info

2 Location

3 Revenue setting

Related user mailbox (✉): Please enter the email address of the owning user

* Plant Name: Please enter the power plant name

* Plant Type:

* On-Grid Date: 03/03/2023

* Total capacity of panel: Please enter total panel capacity kWp

Number of Solar Panel: Please enter the number of solar panel

* Organization Code: DB229000

Plant Image:

*Max. size 10M,supports .jpg, .png, .svg, .gif format

Although this field is not required, don't forget to fill it in with owner's email-address.

Organization code is filled in automatically. It depends on the organization creating this plant and will affect plant availability. For example, if parent organization creates this plant, it will be unavailable for sub-organization, but the plants created by sub-organization are available for parent organization.

You can choose to continue to add device to this plant or go into “Device Management” to add.

Add power plant

1 Installation Info

2 Location

3 Revenue setting

* Country/Region: 中国大陆 (China mainland)

* Timezone: UTC+01:00 (Prague)

* Location: Select

Detailed Address: Please enter the detailed address

Add power plant

1 Installation Info

2 Location

3 Revenue setting

* Revenue setting: 6

* Currency Unit: Kč (CZK)

Complete



Created successfully

Add Devices

Turn off

* SN: Please enter SN number

* Check Code: Please enter the checking code

* Device Name: Please enter the device name

Add Now

Operation Management-Plant Management

2.3

Management

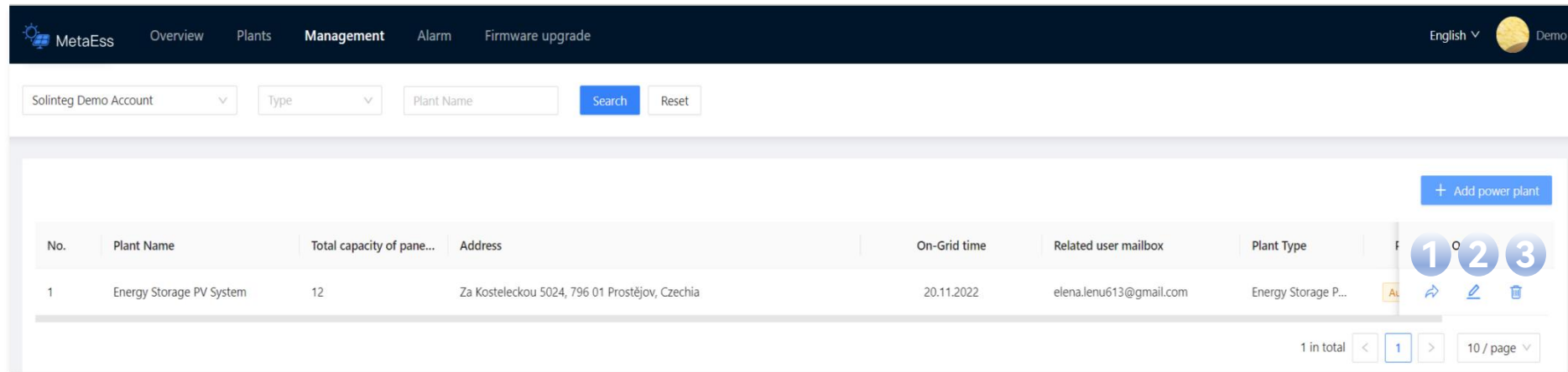
Plant Management

Device Management

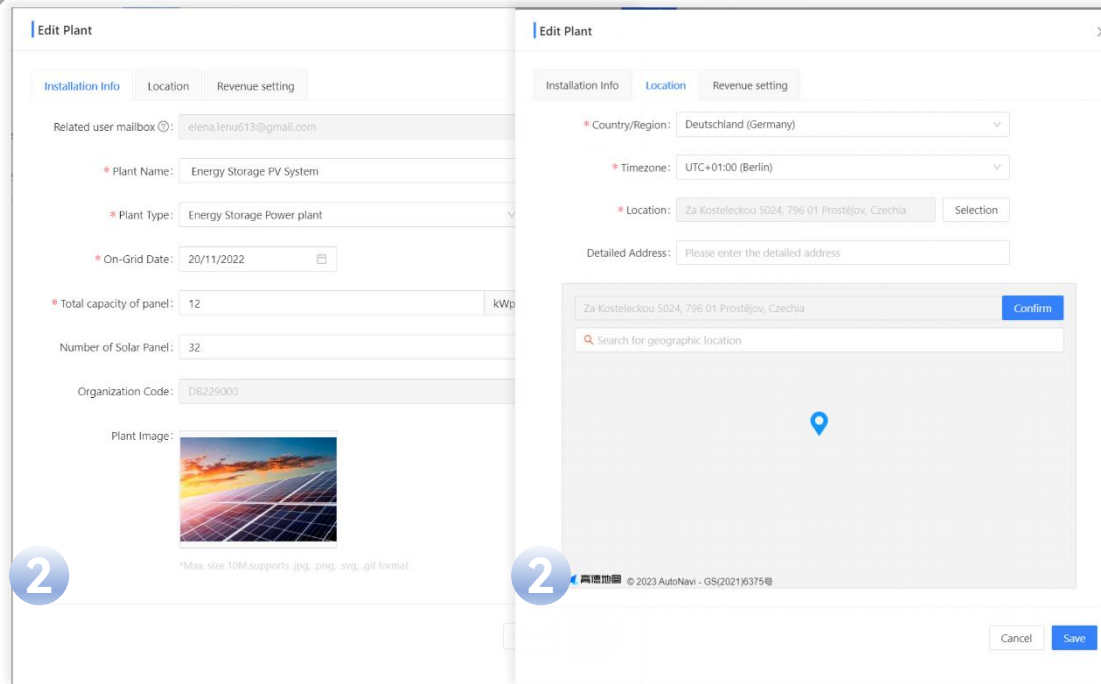
Organization Management

Device Log

Click “Management”, “Plant Management”, and you will see a list of plants in your account featured with some operation buttons.

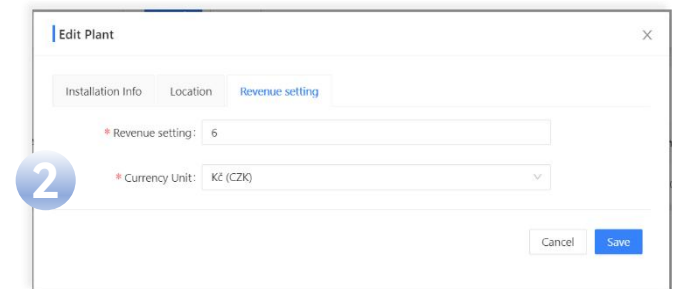


The screenshot shows the MetaEss Management interface. At the top, there are navigation tabs: Overview, Plants, Management (selected), Alarm, and Firmware upgrade. Below the navigation, there is a search bar with a dropdown for 'Solinteg Demo Account', a 'Type' dropdown, and a 'Plant Name' input field. A 'Search' button and a 'Reset' button are also present. On the right side, there is a '+ Add power plant' button. The main content area displays a table with the following columns: No., Plant Name, Total capacity of pane..., Address, On-Grid time, Related user mailbox, and Plant Type. The table contains one entry: No. 1, Plant Name 'Energy Storage PV System', Total capacity of pane... 12, Address 'Za Kosteleckou 5024, 796 01 Prostějov, Czechia', On-Grid time '20.11.2022', Related user mailbox 'elena.lenu613@gmail.com', and Plant Type 'Energy Storage P...'. To the right of the table, there are three numbered buttons: 1 (Add), 2 (Edit), and 3 (Delete). At the bottom right, there is a pagination control showing '1 in total' and '10 / page'.



The screenshot shows the 'Edit Plant' form. It has three tabs: Installation info, Location, and Revenue setting. The 'Installation info' tab is active, showing fields for: Related user mailbox (elena.lenu613@gmail.com), Plant Name (Energy Storage PV System), Plant Type (Energy Storage Power plant), On-Grid Date (20/11/2022), Total capacity of panel (12 kWp), Number of Solar Panel (32), and Organization Code (DB229000). There is a 'Plant Image' field with a placeholder image of solar panels. The 'Location' tab is also visible, showing fields for: Country/Region (Deutschland (Germany)), Timezone (UTC+01:00 (Berlin)), Location (Za Kosteleckou 5024, 796 01 Prostějov, Czechia), and Detailed Address (Please enter the detailed address). A map is shown below the location field. At the bottom, there are 'Cancel' and 'Save' buttons.

- ① Click to quickly enter the device management page.
- ② Click to edit the plant info such as installation info, location, and subsidy price.
- ③ Click to delete the power plant.



The screenshot shows the 'Edit Plant' form with the 'Revenue setting' tab active. It shows fields for: Revenue setting (6) and Currency Unit (Kč (CZK)). At the bottom, there are 'Cancel' and 'Save' buttons.

Operation Management-Device Add

Management

Plant Management

Device Management

Organization Management

Device Log

Step 1

Locate cursor at “**Management**” and click “**Device Management**” to enter main edit page.

Device Name	Model	Plant Name	SN	Check Code	Communication mode	Operate
<input type="checkbox"/>	test	MHT-10K-25	Christele	Z112200102430142	071356	RS485

1 in total

Step 2

Click “**Add Device**” button.

Add Device ✕

If your power plant is a parallel system with a host set up on the screen, simply add the host and the system will automatically find its associated device. If there is any abnormality in the wiring, you can modify it individually. After physical connection being normal, the modification will be automatically updated to the server.

* Related power plant:

Device Name	Check Code	Operate
No Data		

Step 3

Select the plant you want to add devices to, and then click “**Add Device**” to fill in the detailed information of devices.

Add Device ✕

If your power plant is a parallel system with a host set up on the screen, simply add the host and the system will automatically find its associated device. If there is any abnormality in the wiring, you can modify it individually. After physical connection being normal, the modification will be automatically updated to the server.

* Related power plant:

Device Name	SN	Check Code	Operate
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> <input type="checkbox"/>

Step 4

Input Device name, SN and Check code and then click submit to complete.

Operation Management-Device Management

2.3

Management

Plant Management

Device Management

Organization Management

Device Log

Method 1

Click “Management”, “Device Management” to enter the device management page.

Wyy first level account Plants Model Device Name/SN Search Reset

<input type="checkbox"/>	Device Name	Model	Plant Name	SN	Check Code	Communication mode	Master Firmware Vers..	Operate
<input type="checkbox"/>	INV#01	OGT-125K-P	110kWp PV Demo Site	000200016662103C	241333	GPRS	V3.5.5.0	✎ 🗑 ⚙
<input type="checkbox"/>	dyness	MHT-12K-25	dyness	A112200100430056	241973	WIFI	V0.0.0.0	✎ 🗑 ⚙
<input type="checkbox"/>	#01	MHT-12K-25	Pylon_test	A112200101130056	521176	WIFI	V0.0.0.0	✎ 🗑 ⚙

Method 2

Click the button behind the plant on the plant management page to enter the device management page.

+ Add power plant

No.	Plant Name	Total capacity of pane...	Address	On-Grid time	Related user mailbox	Plant Type	Operate
1	Energy Storage PV System	12	Za Kosteleckou 5024, 796 01 Prostějov, Czechia	20.11.2022	elena.lenu613@gmail.com	Energy Storage P...	🗑 🔗 ✎ 🗑

- Operate**

 - [✎](#) [🗑](#) [⚙](#) Click to edit the device name.
 - [✎](#) [🗑](#) [⚙](#) Click to delete the device from the plant (your history data cannot be restored if deleted the device).
 - [✎](#) [🗑](#) [⚙](#) Click to configure device parameters such as grid, power control, protection, feature, and battery parameters.
 - [👉](#) The parameter configuration only can be done by a qualified and well-trained engineer with guidance from MetaEss.

Operation Management-Device Parameter Configuration

2.3

Parameter Settings(test-device)

Grid Parameters

Safety code settings: 50Hz Default

Inverter reconnection time: 30

On-grid unbalanced output switch:

Peak load shifting:

Disclaimer

Set Refresh Cancel

Set according to local safety regulation requests.

Default to open to enable phase unbalanced output on the on-grid side

Default to off and if your country has the limitation of taking power from the grid, enable this function and set the maximum power allowed to take from the grid.

Parameter Settings(test-device)

Power Control

Export limit switch: Enable the Export limit if needed

Feed in grid(%): 100.0 %

PF setting: 1.000

Maximum output power:

Disclaimer

Set Refresh Cancel

Set the percentage of power allowed to be exported to the grid.

Operation Management-Device Parameter Configuration

2.3

Parameter Settings(test-device)

Grid Parameters

Level-1 UV protection threshold: 184.00 V

Power Control

Level-1 UV protection time: 1.60 s

Protection Parameters

Level-1 OV protection threshold: 276.00 V

Feature Parameters

Level-1 OV protection time: 1.60 s

Battery Parameters

Level-1 UF protection threshold: 48.00 Hz

Meter checking

Level-1 UF protection time: 2.00 s

Level-1 OF protection threshold: 52.00 Hz

Level-1 OF protection time: 1.00 s

Disclaimer

Set Refresh

Parameter Settings(test-device)

Grid Parameters

Master-Slave Setup: Single

Power Control

System Maintenance: Startup Set Stop Set Restart Set

Protection Parameters

Feature Parameters

Hybrid inverter work mode settings: General Mode Set Economic Mode Set UPS Mode Set Off-grid Mode Set Successfully

Battery Parameters

System Control: Hard

Meter checking

On/Off-grid switch:

MPPT parallel connection:

Disclaimer

Set Refresh Cancel

Master-slave function is only applied to the scenario that multiple inverters need to be connected in parallel.

This function can be used in case of the communication between inverter and meter or datalogger is interrupted. Hard control will limit the output power to 0, while soft control will limit the output power to feed-in grid power.

➔ The operation of protection parameters only can be done on the guidance of MetaEss after-sales engineer.

This function is default to enabled. Only under the status of this function enabled, the inverter will automatically switch to off-grid mode when the grid outage occurs.

The properly working inverter won't react to this operation, and the waiting mode inverter will enter working status after clicking this button.

The properly working inverter will enter waiting mode when clicking this button. You can maintain the battery or PV after powering off the inverter.

When the inverter works abnormally, click this button to restart the inverter and sometimes problem can be solved.

Operation Management-Device Parameter Configuration

2.3

Parameter Settings(test-device)
✕

Grid Parameters

Power Control

Protection Parameters

Feature Parameters

Battery Parameters

Meter checking

Battery model:

SOC on-grid protection:

On-grid End SOC: %

SOC Off grid protection:

Off-Grid End SOC: %

Battery charge and discharge group:

Disclaimer

Select compatible battery brands from the list

Battery will stop discharging power when the SOC of battery reaches the set value

Parameter Settings(test-device)
✕

Grid Parameters

Power Control

Protection Parameters

Feature Parameters

Battery Parameters

Meter checking

Start testing

Abnormal

Normal

Abnormal

Disclaimer

- ✕
The inverter is abnormal and the meter cannot be tested
- ✕
The meter connection is abnormal and the meter cannot be tested

This function is able to check the phase sequence of smart meter and the direction of CTs. Make sure the inverter, battery and smart meter normal before start this test.

Operation Management–Organization Management

Management

Plant Management

Device Management

Organization Management

Device Log

Click “Management”, “Organization Management” to enter organization management page to create accounts for your sub-level organizations or your internal team members.

Organization Account Creation

The method of creating organization account has been introduced on page 6, please go to page 6 for reference.

Company Info Internal Account Add Account

No.	Username	Email	Role	Operate
1	Demo	grogu_gi@163.com	Super Administrator Me	edit refresh delete

Add Account ✕

* Username:

* Email:

* Role:

Default password:

Cancel OK

Permissions of the role:

Administrator has the privilege of operating and managing all accounts, plants, and devices.

O&M can manage all plants, devices, and sub-level organizations.

Visitor can only view all plants and devices.

No.	Username	Email	Role	Operate
1	Demo	grogu_gi@163.com	Super Administrator Me	edit refresh delete
2	claire.guo	mengmeng_cool@126.com	O&M	edit refresh delete

Internal Account Creation

Click “Internal Account”
 Click “Add Account”
 Input the account info as the system requested and click the “OK” button.

MetaEss Overview Plants **Management** Alarm Firmware upgrade

Company Name/Email/Organization Code +

Solinteg Demo Account +

ABC SOLAR

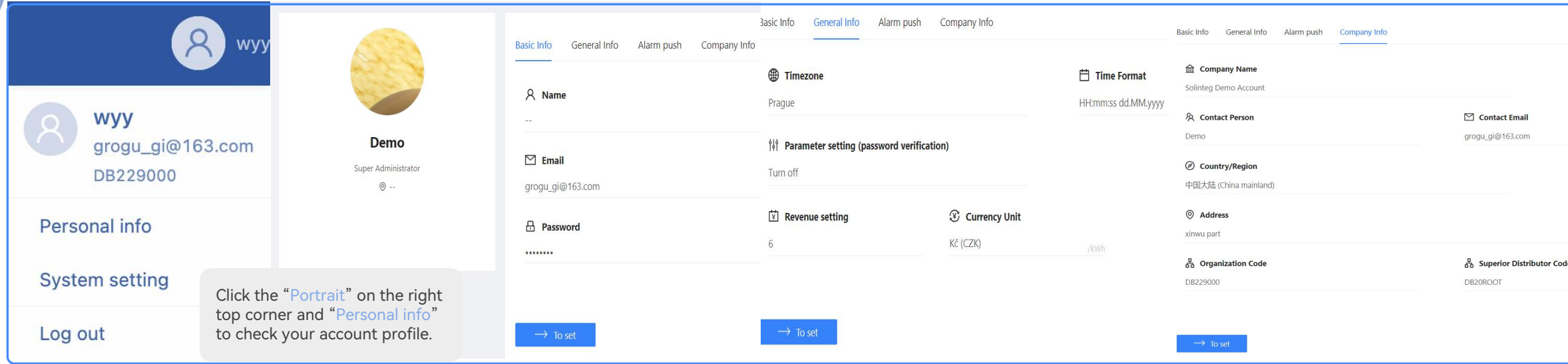
Company Info Internal Account

Company Name	Solinteg Demo Account
Contact Person	Demo
Contact Email	grogu_gi@163.com
Country/Region	中国大陆 (China mainland)
Address	xinwu part
Organization Code	DB229000
Creation time	15:12:42 01.09.2022

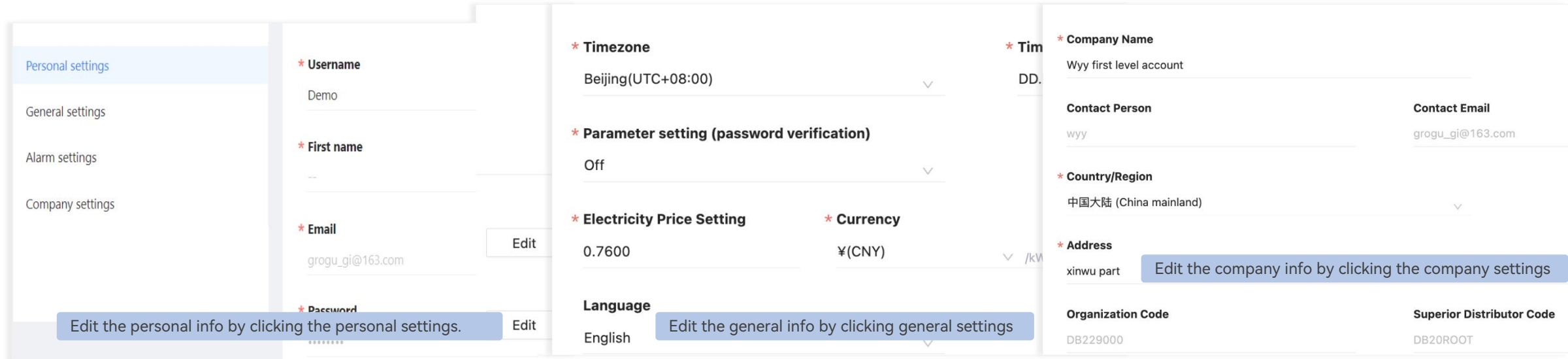
Search the organization account by entering company name, email or organization code.

Check all organization accounts that are managed by you by clicking the unfold button.

Operation Management-Account Settings



This screenshot shows the account settings interface. On the left is a user profile card for 'wyy' (grogu_gi@163.com, DB229000) with options for 'Personal info', 'System setting', and 'Log out'. The main area has tabs for 'Basic Info', 'General Info', 'Alarm push', and 'Company Info'. A callout box points to the 'Portrait' icon in the top right of the profile card and the 'Personal info' link, stating: "Click the 'Portrait' on the right top corner and 'Personal info' to check your account profile."



This screenshot provides a detailed view of the settings form. On the left is a sidebar menu with 'Personal settings' selected. The form fields include:

- Personal settings:** Username (Demo), First name, Email (grogu_gi@163.com), Password.
- General settings:** Timezone (Beijing(UTC+08:00)), Parameter setting (password verification) (Off), Electricity Price Setting (0.7600), Currency (¥(CNY)), Language (English).
- Company settings:** Company Name (Wyy first level account), Contact Person (wyy), Contact Email (grogu_gi@163.com), Country/Region (中国大陆 (China mainland)), Address (xinwu part), Organization Code (DB229000), Superior Distributor Code (DB20ROOT).

Callout boxes provide instructions: "Edit the personal info by clicking the personal settings.", "Edit the general info by clicking general settings", and "Edit the company info by clicking the company settings".

Alarm-Alarm Setting



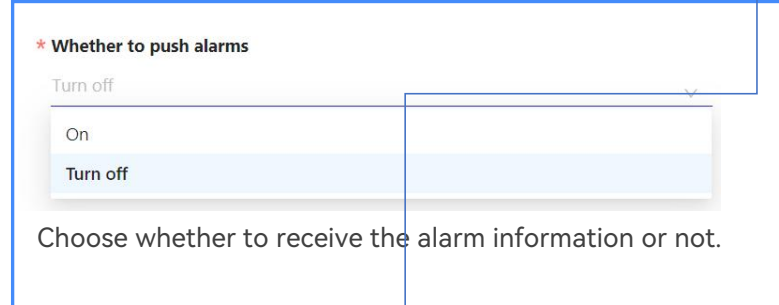
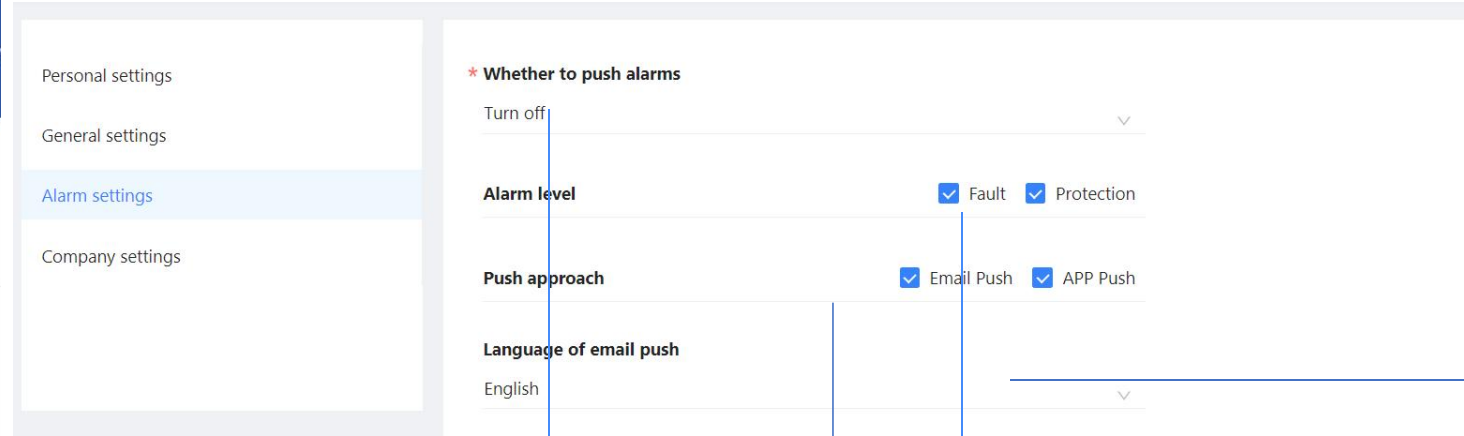
 **wyy**
grogu_gi@163.com
DB229000

Personal info

System setting

Log out

Click the “Portrait” on the right top corner and “Personal info” to check your account profile.



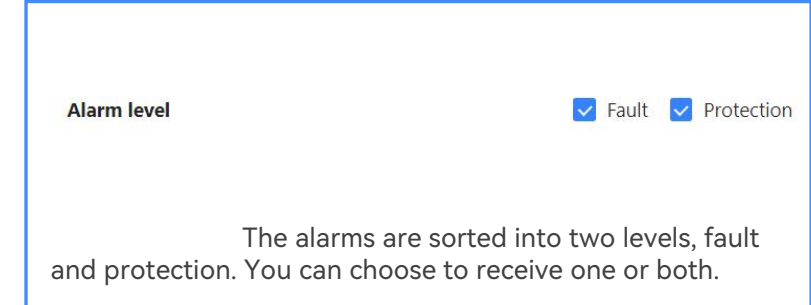
*** Whether to push alarms**

Turn off

On

Turn off

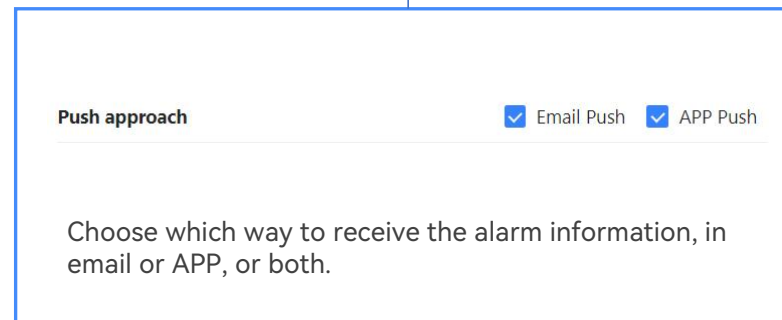
Choose whether to receive the alarm information or not.



Alarm level

Fault Protection

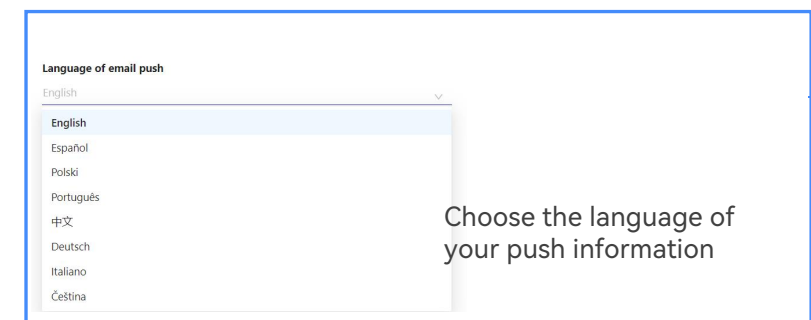
The alarms are sorted into two levels, fault and protection. You can choose to receive one or both.



Push approach

Email Push APP Push

Choose which way to receive the alarm information, in email or APP, or both.



Language of email push

English

English

Español

Polski

Português

中文

Deutsch

Italiano

Čeština

Choose the language of your push information

Alarm-Alarm Search

2.4

MetaEss
Overview
Plants
Management
Alarm
English ▾
chris

Alarm type ▾

Alarm Status ▾

Alarm name ▾

Start date → End date

Plant Name/SN

Search

Reset

Plant Name	Device Name	SN	Alarm type	Start time	Alarm name	Alarm Status	Operate
11	YG	9112200100130198	Protection	11:38:31 13.02.2023	Mains Lost	Unrepaired	
batterlutionDEMO	batterlutionDEMO-01	A112200100130048	Protection	09:59:40 13.02.2023	Mains Lost	Unrepaired	
11	YG	9112200100130198	Protection	22:59:27 12.02.2023	Mains Lost	Unrepaired	

Alarm type ▾

Fault

Protection

Categorize plants/devices by alarm type

Alarm Status ▾

Unrepaired

Repaired

Categorize plants/devices by alarm status

Alarm name

Abnormal grid voltage

Bus Voltage Fault

ISO Over Limitation

Categorize plants/devices by directly input the alarm name

Start date → End date

Feb 2023

Su	Mo	Tu	We	Th	Fr	Sa
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	1	2	3	4
<	<	7	8	9	10	11

Categorize plants by alarm start date and end date


Plant Name/SN

Search

Search a specific plant by the owner's email, plant name or serial number

- All alarm information of your plants the account manages will be listed on this page, and you can quickly sort them out by different dimensions.

Alarm-Alarm Operate


Plant Name	Device Name	SN	Alarm type	Start time	Alarm name	Alarm Status	Operate
11	YG	9112200100130198	Protection	11:38:31 13.02.2023	Mains Lost	Unrepaired	


Operate



Click the "Operate", check the alarm information details

[↩ Back](#)

Plant Name: 11 

Device Name: YG 

SN: 9112200100130198

Start time : 03:49:46 11.02.2023

Alarm type: Protection

Alarm name: Mains Lost

Alarm Status: Repaired

Recovery time: 03:50:00 12.02.2023

Cause analysis:
 Grid power outage, AC switch or circuit is disconnected.

Treatment measures:
 1. Check whether the mains supply is lost.
 2. Check whether the AC cable wiring is correct.

Alarm device basic information

Alarm start time

Alarm level, protection or fault

Alarm name description

Restored or not repaired

Alarm recovery time

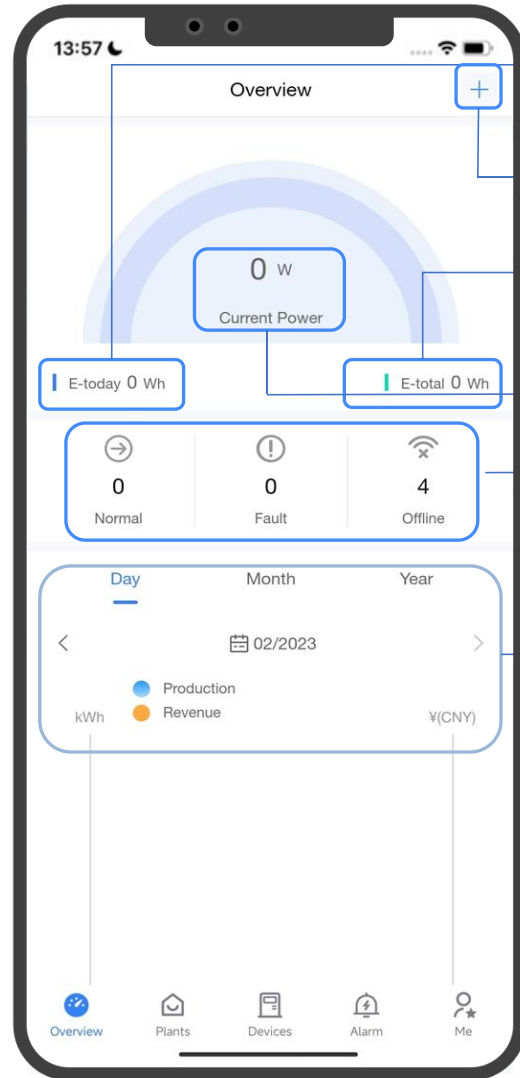
Why alarms appear

How to check and settle the alarms

03 MetaEss APP



Overview



Today's total PV generation

Plant creation

Total PV generation

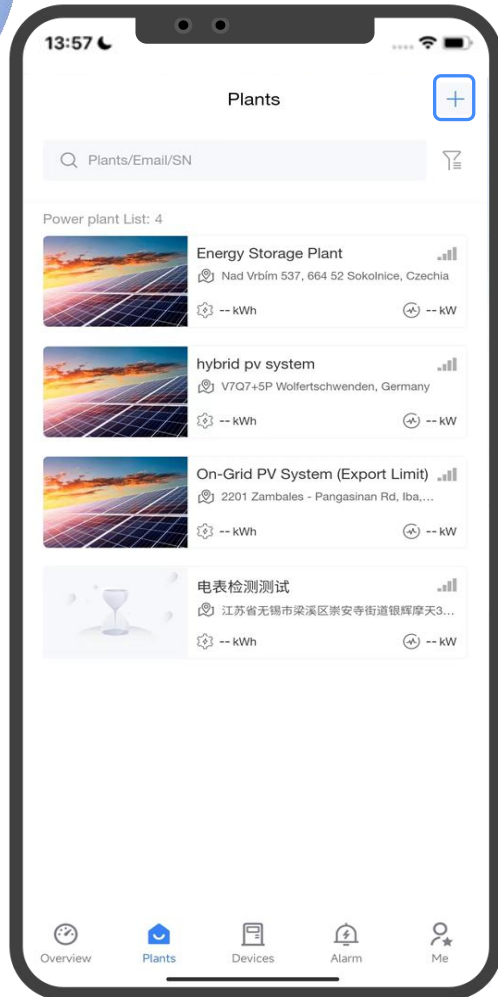
Real-time PV generation


Numbers of properly working, faulty and offline plants. Tap them for more details.

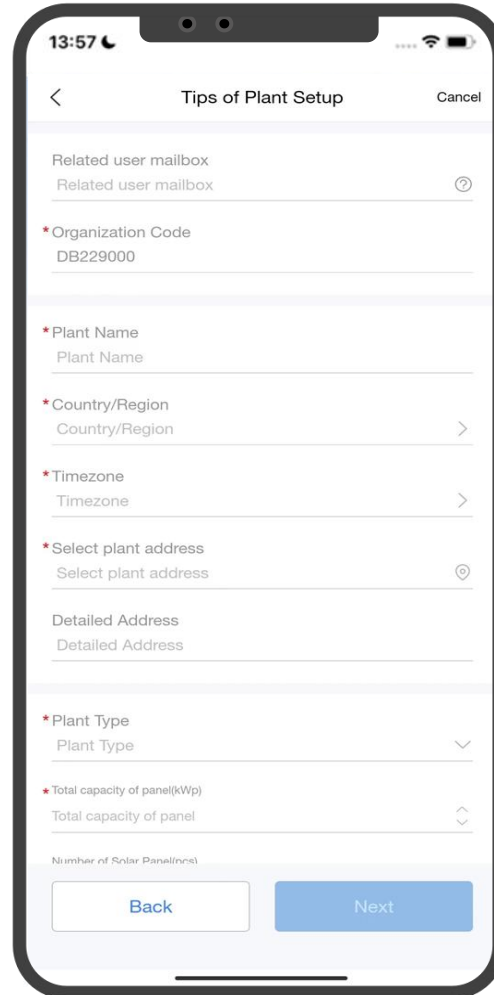
Production and Revenue sum of each day, each month and each year

Plants-Creation

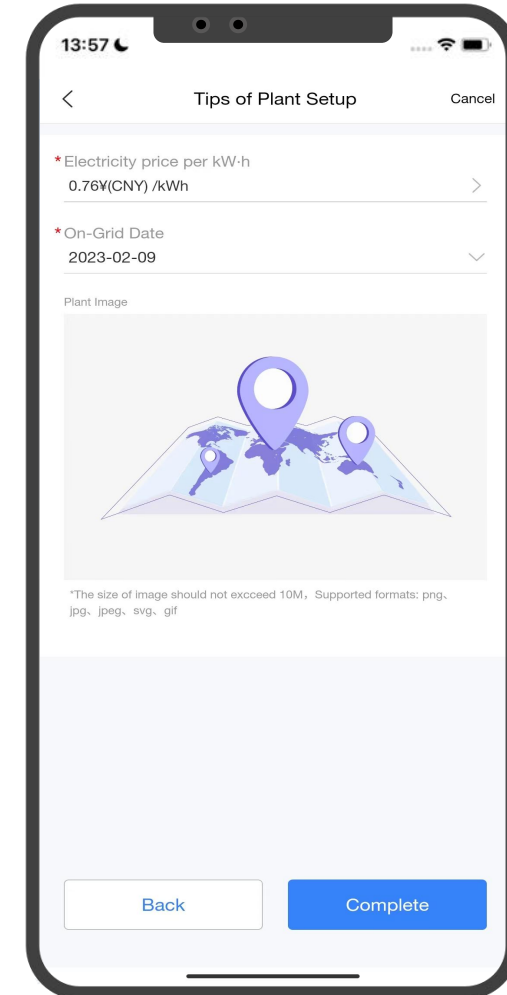
3.2



Tap  button on the upper-right corner of "Plants" page to create a new plant.

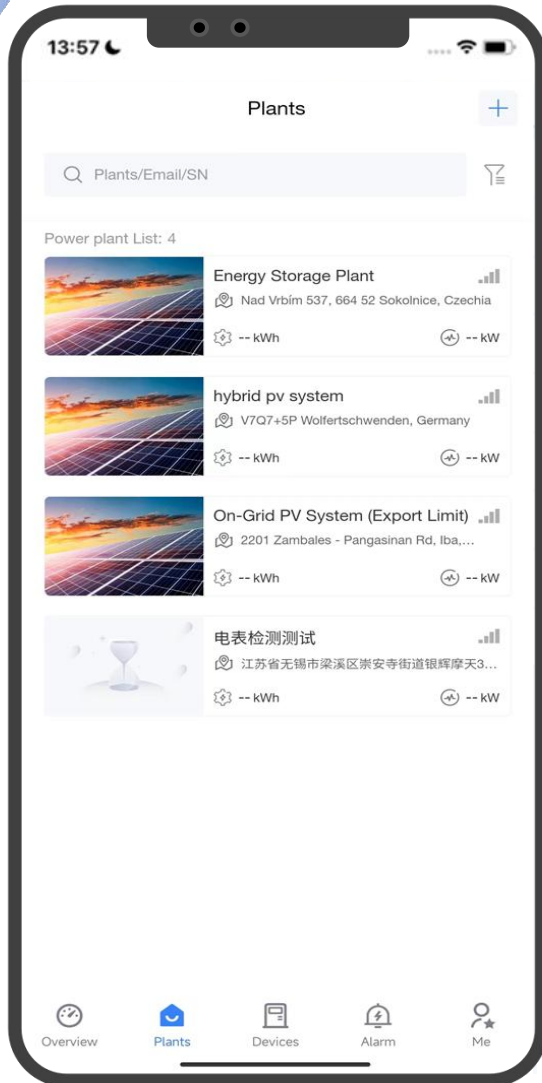


Fill in the required fields. Please pay attention to 2 points. One is that related user email address is required, and the other one is organization code which will affect plant availability.

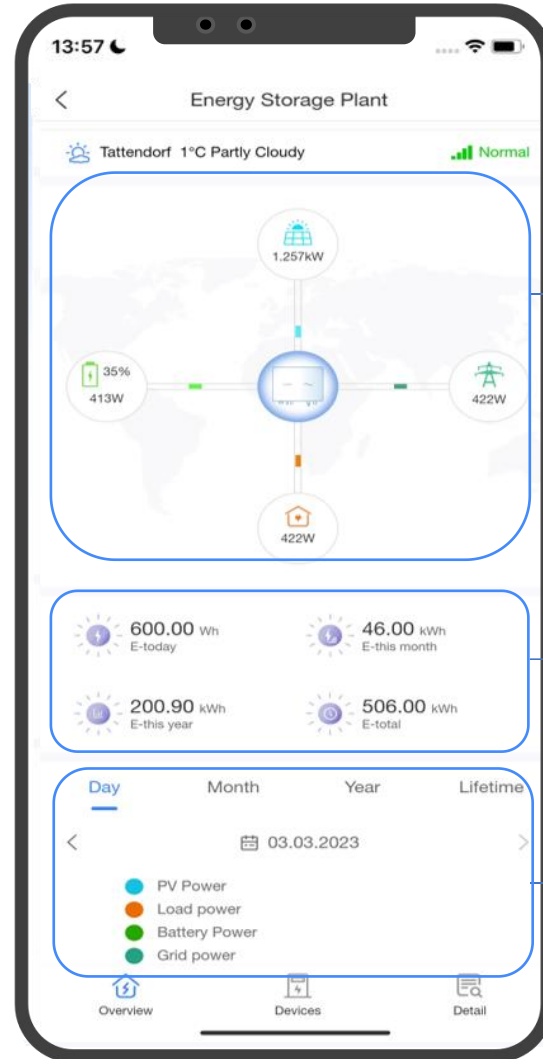
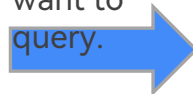


Fill in electricity price based on local regulations and on-grid date. If everything is ok, tap "complete" to finish plant creation.

Plants-Overview



Input the plant name , owner's email address or SN of devices bound to this plant to search the plant, and then tap the plant you want to query.



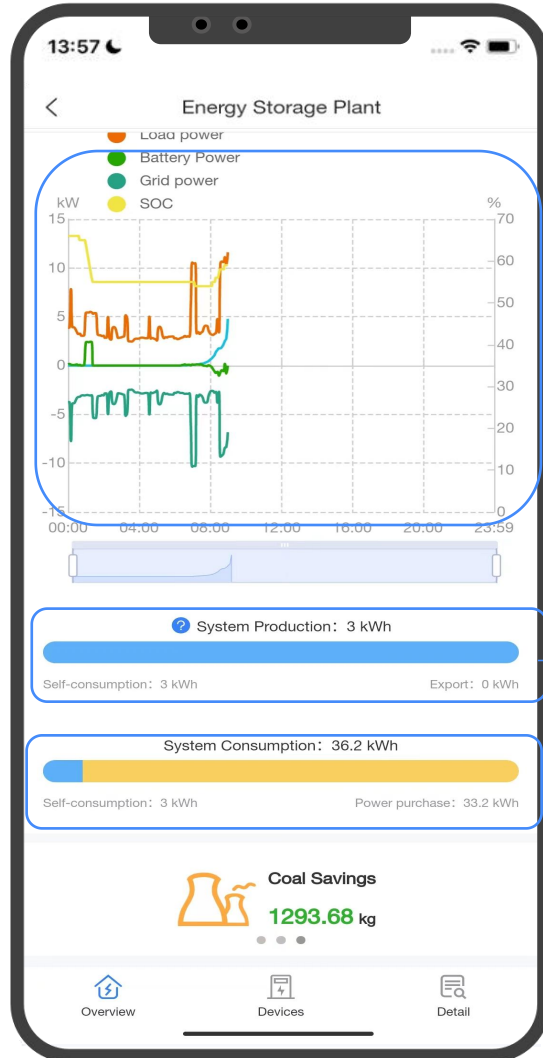
Energy flow animation clearly shows the system energy generation and consumption.

E-today: today's total PV generation
 E-this month: total PV generation this month
 E-this year: total PV generation this year
 E-total: total PV generation since the inverter is installed

Specific data counted by time, day, month and year

Plants-Overview

3.2



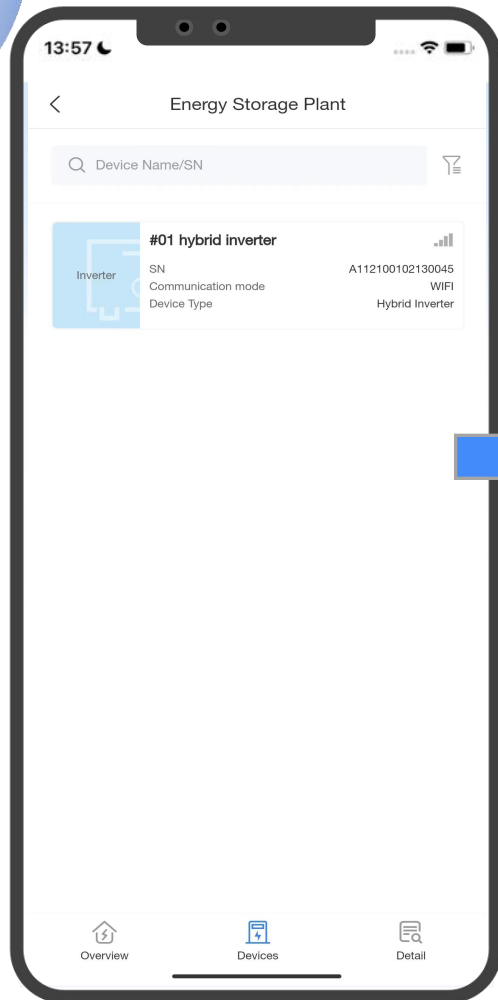
Real-time power curve of each module
 $\text{Load power} = \text{PV power} + \text{Battery power} - \text{Grid power}$

The proportions of system production is calculated by dividing self-consumption into power export.

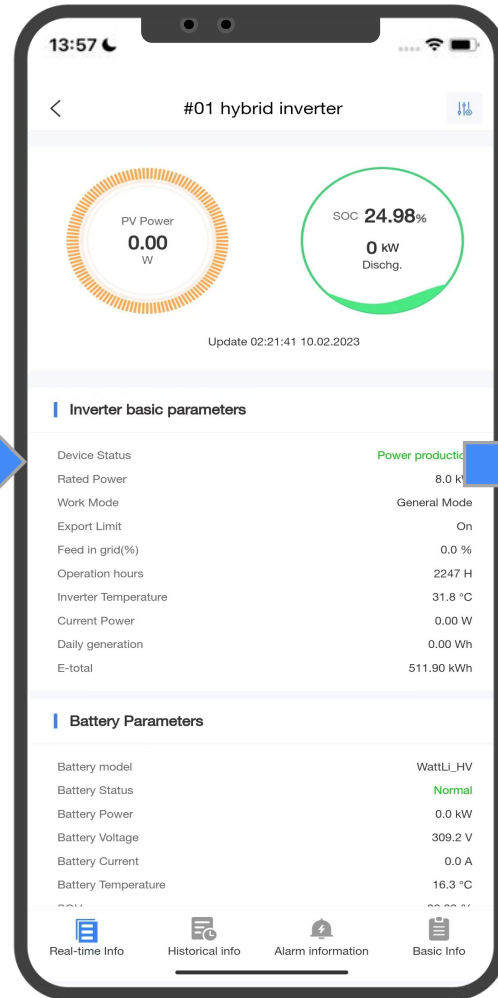
Self-consumption consists of total consumption of home appliance.

Plants-Devices

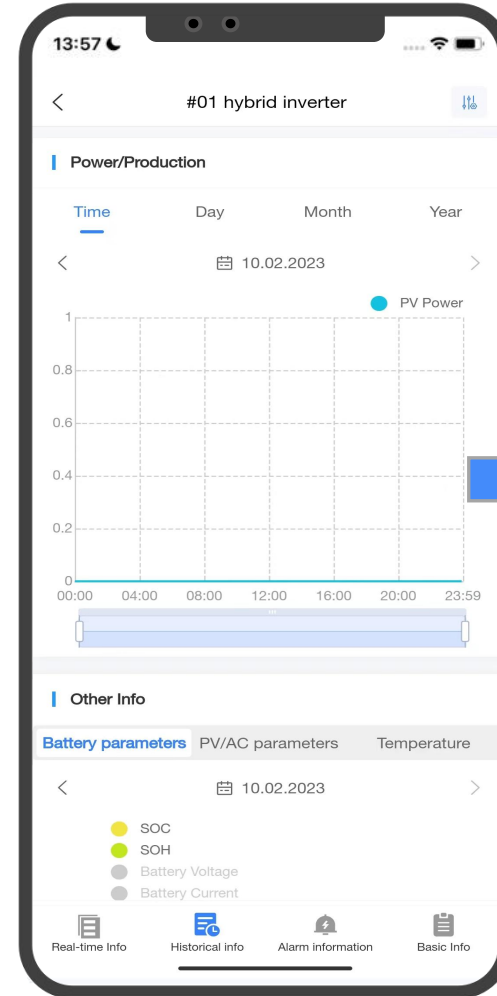
3.2



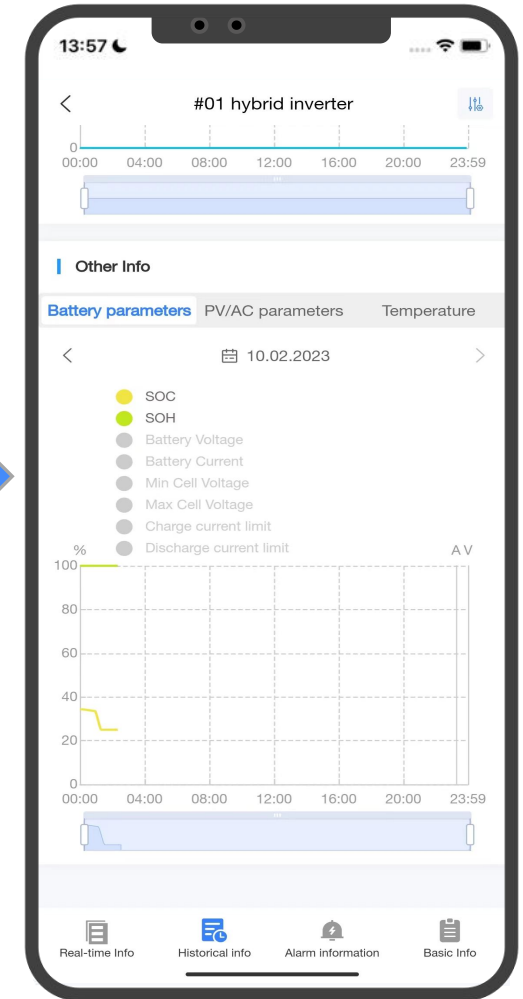
Tap "Devices" in "Plants" menu and the devices bound to this plant will be listed.



Select the device you want to query and more details will show. In "Real-time Info", you can find specific real-time information of each module tied to this device.

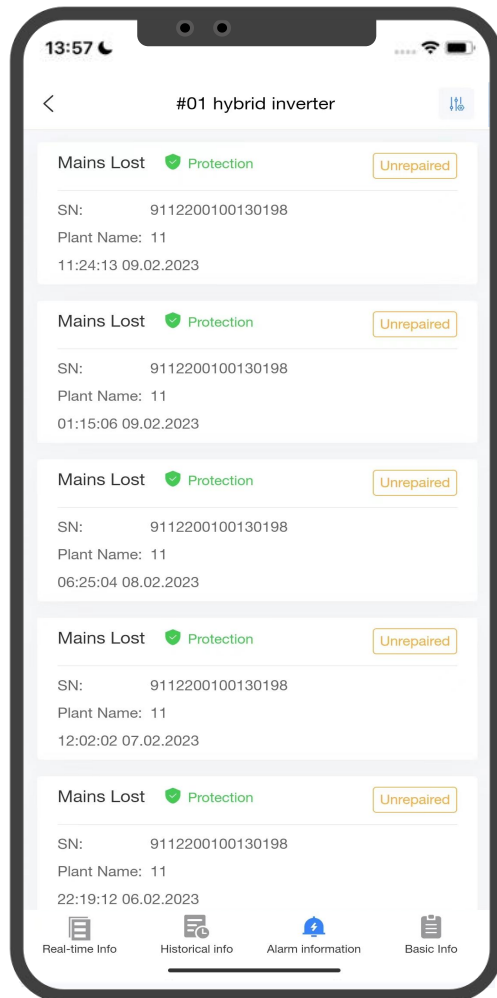


Tap "Historical Info" on the bottom of the page, and trend of power and other parameters are easier for you to refer to.

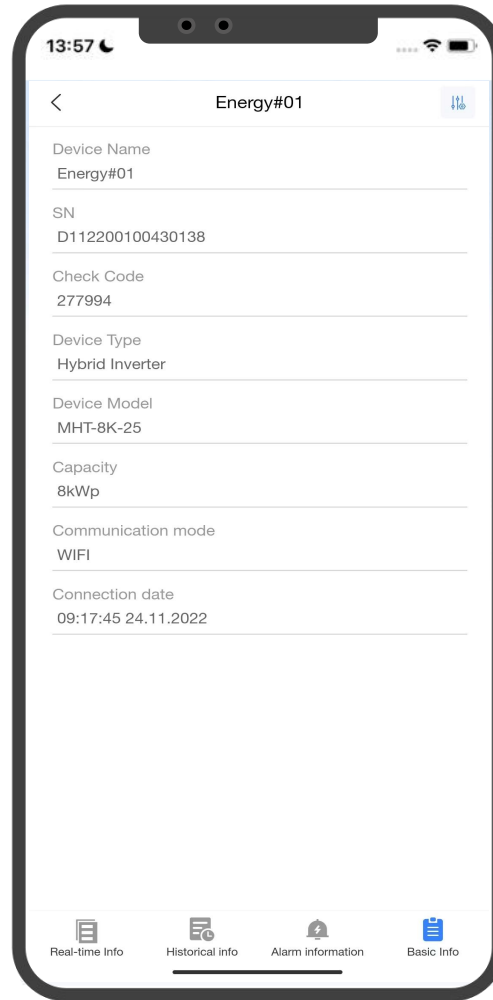


Slide "Historical Info" page to see more detailed information and more parameter curves can be generated by selecting them from the list.

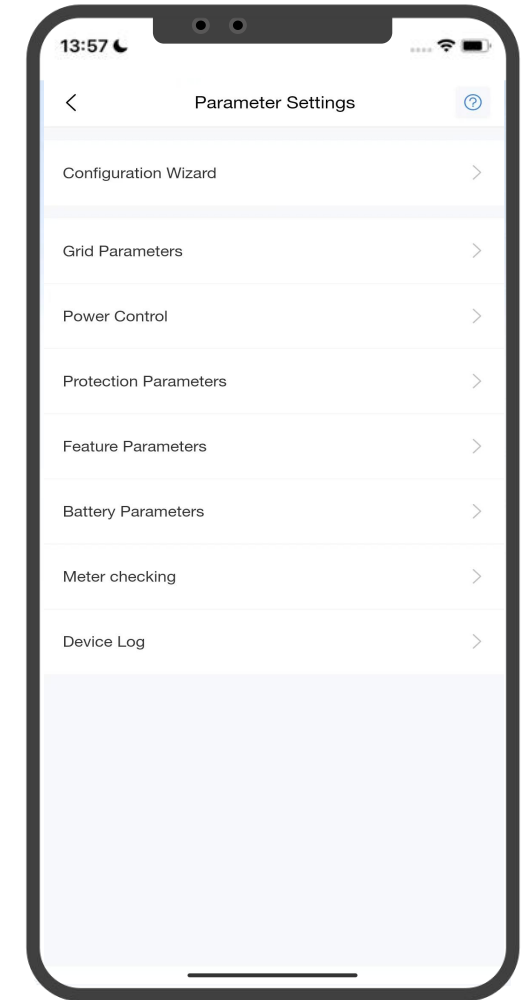
Plants-Devices




Tap "Alarm information" and all alarms occurring to this device will be sorted by generation time. Select one you want to check and more details will show.



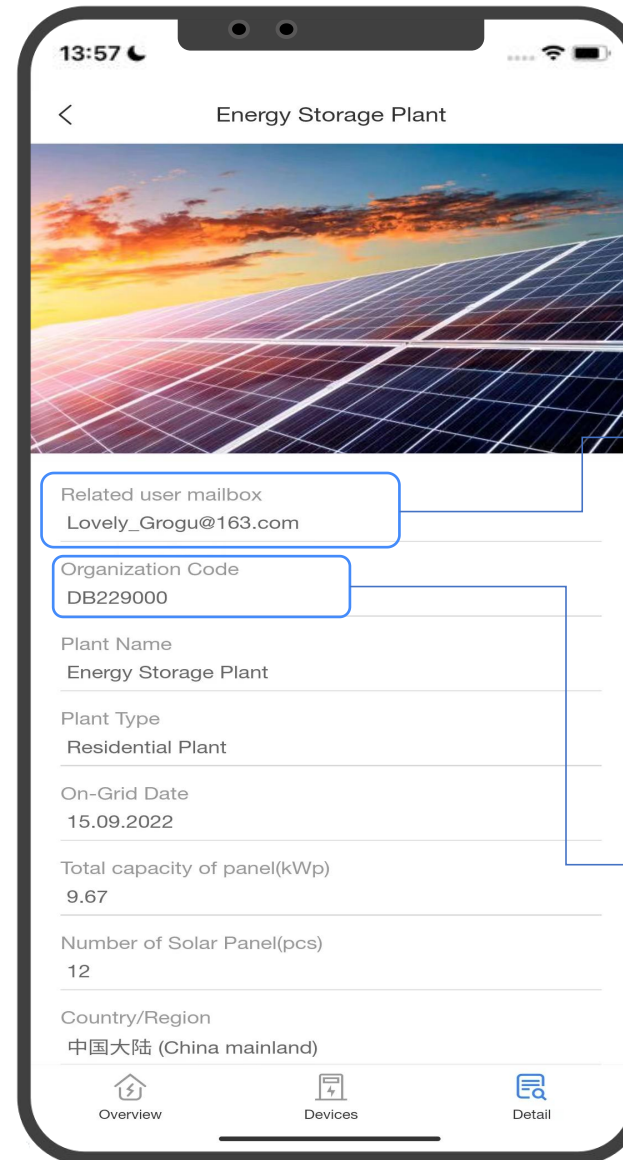
Tap "Basic Info" and basic information of this device will appear.



In each menu of "Devices", you can find  button on the upper-right corner. Parameter settings can be configured in this page but configurations only can be modified or set by a qualified and well-trained engineer with guidance from MetaEss.

Plants-Detail

When you enter “Detail” in “Plants” menu, plant information will appear in details. Please be noted that this page is not able to be modified.



13:57

< Energy Storage Plant

Related user mailbox
Lovely_Grogu@163.com

Organization Code
DB229000

Plant Name
Energy Storage Plant

Plant Type
Residential Plant

On-Grid Date
15.09.2022

Total capacity of panel(kWp)
9.67

Number of Solar Panel(pcs)
12

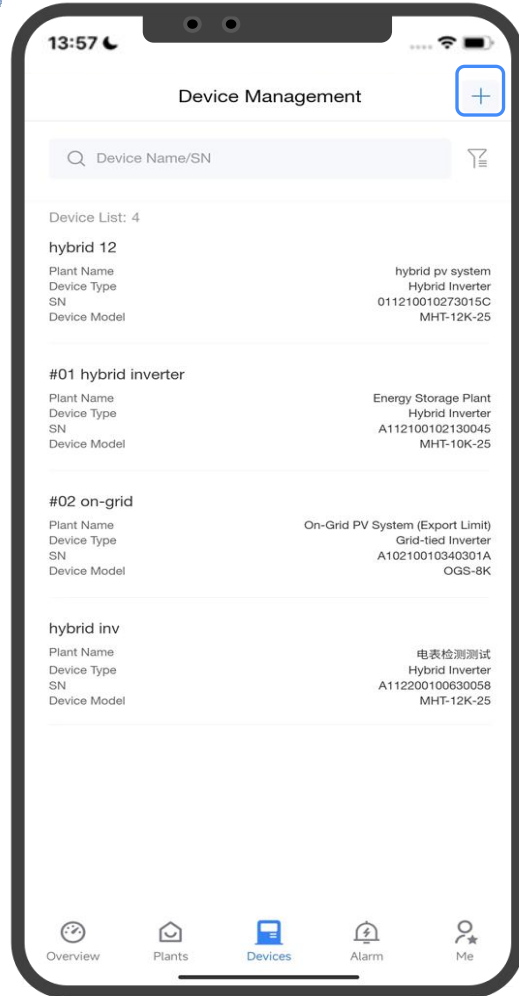
Country/Region
中国大陆 (China mainland)

Overview Devices Detail

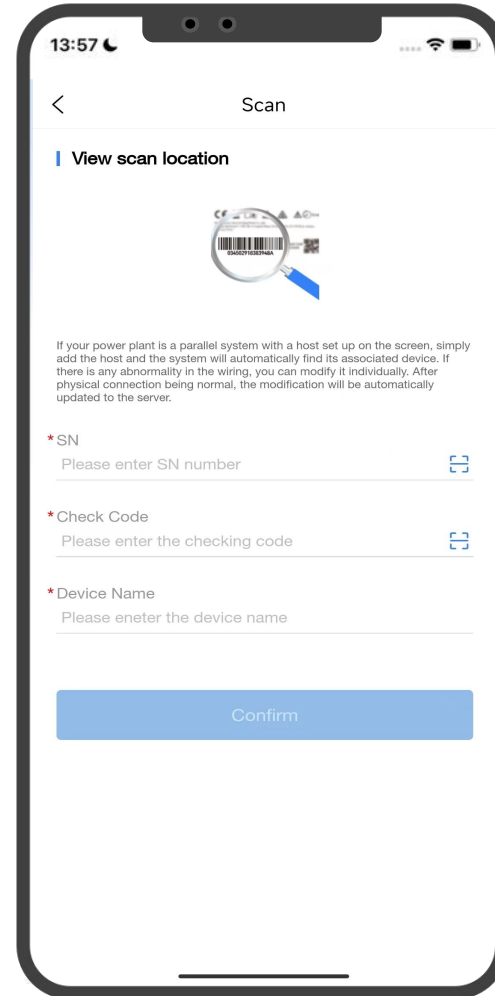
When you create plants and need to fill in required fields, related user email address is not required. If you don't input owner's email address, it will be filled in with creator's one automatically.

Organization code is filled in automatically. It depends on the organization creating this plant and will affect plant availability. For example, if parent organization creates this plant, it will be unavailable for sub-organization, but the plants created by sub-organization are available for parent organization. It can only be modified by the one who creates this plant or you can contact MetaEss after-sale department.

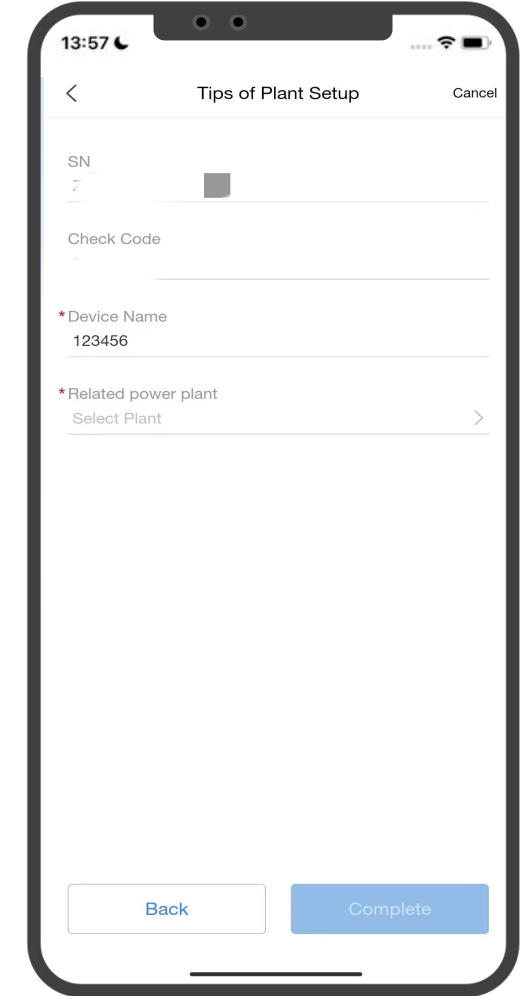
3.3 Devices-Add



Tap **+** button on the upper-right corner of "Devices" page to add a new device to an existing plant.

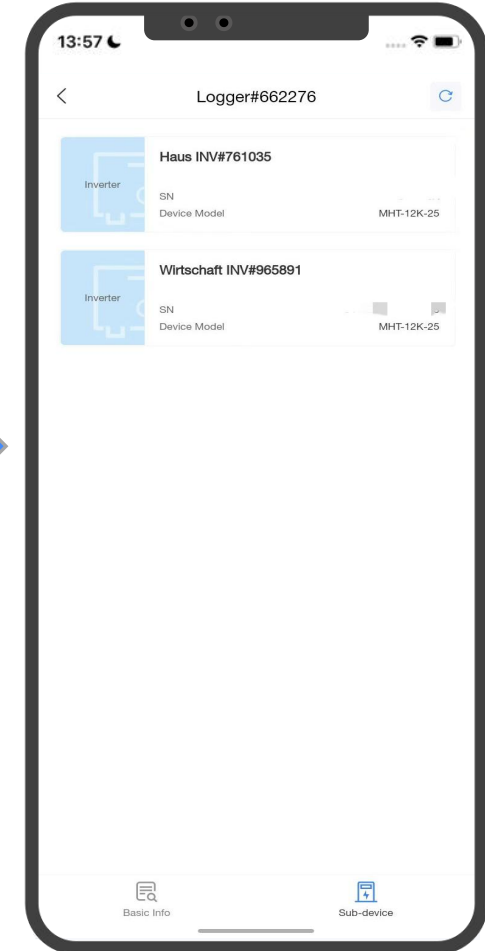
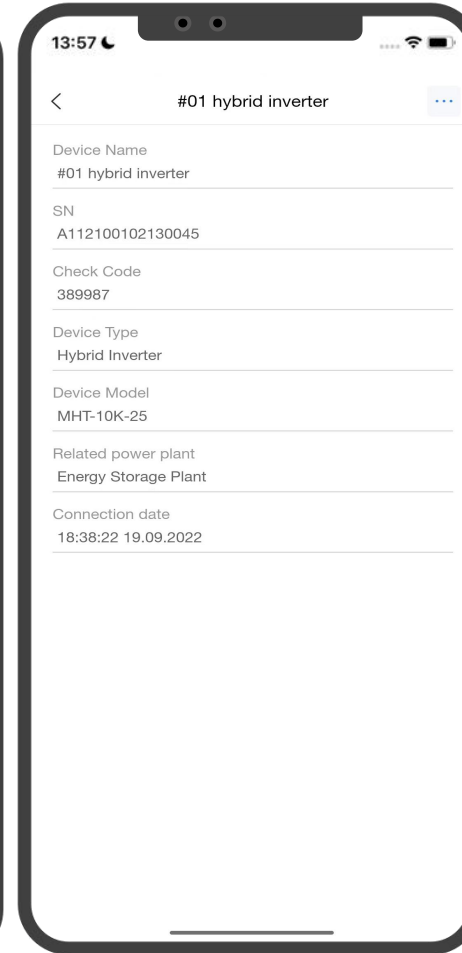
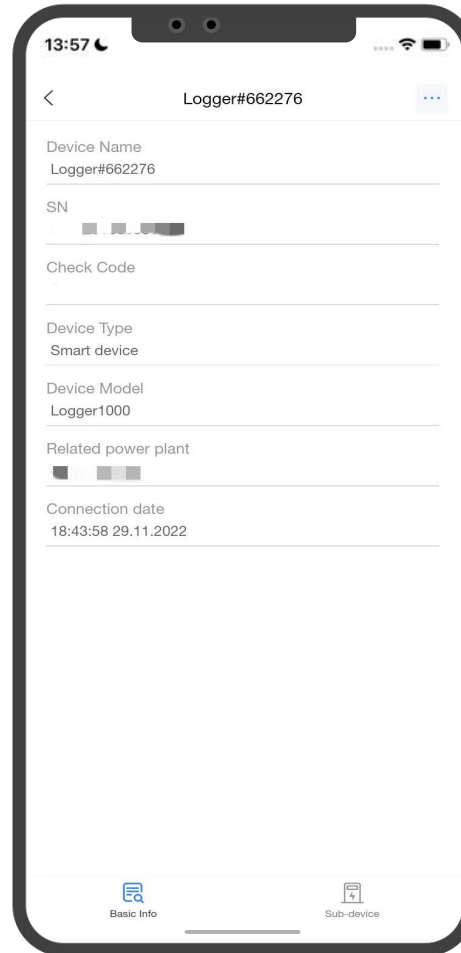
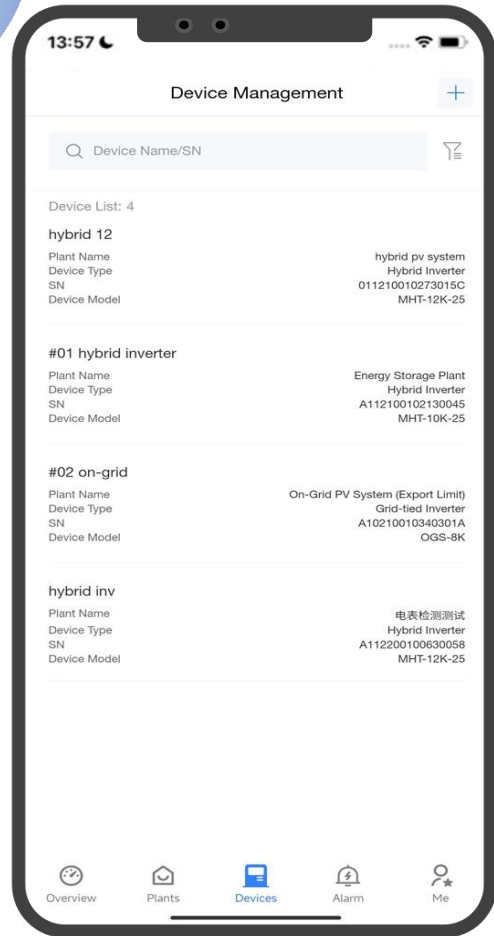


Input device information. SN and Check Code can be filled in by scanning bar code on the nameplate or entering them manually.




Select the plant you want to bind to. Please be noted that only existing plants can be found, and if the plant does not exist, please go back to "Plants" menu to create a new one.

3.3 Devices-Basic Info



Once you enter "Devices" menu, the devices belonging to your organization or sub organizations will be listed. You can find the devices by entering device name or SN in search box.

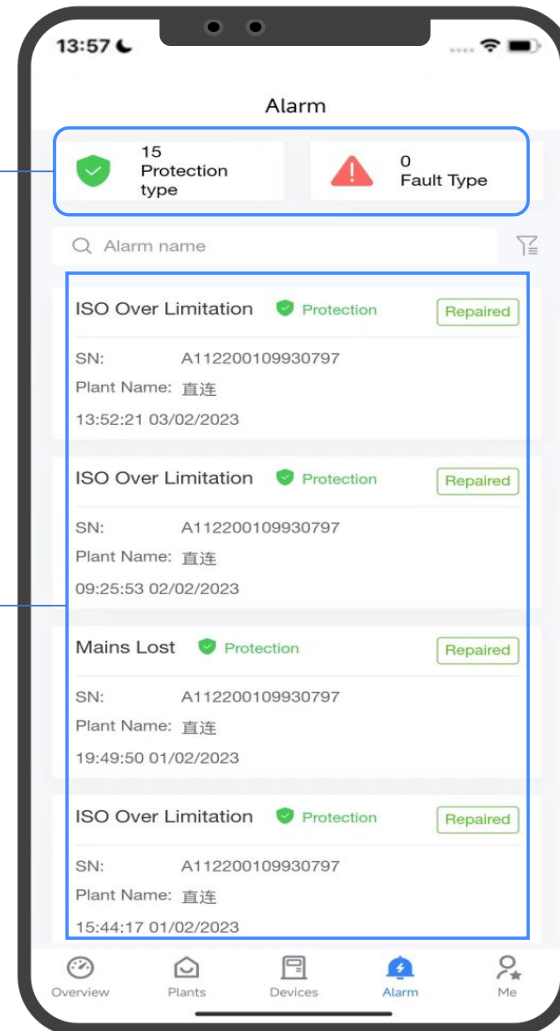
Tap the device you searched, and the basic information of this device will appear. You can delete this device or modify device name by tapping  button on the upper-right corner of this page.

If what you look for is a smart device like a datalogger or a meter, tap "sub-devices" on the bottom so that the inverters bound to this device will be listed.

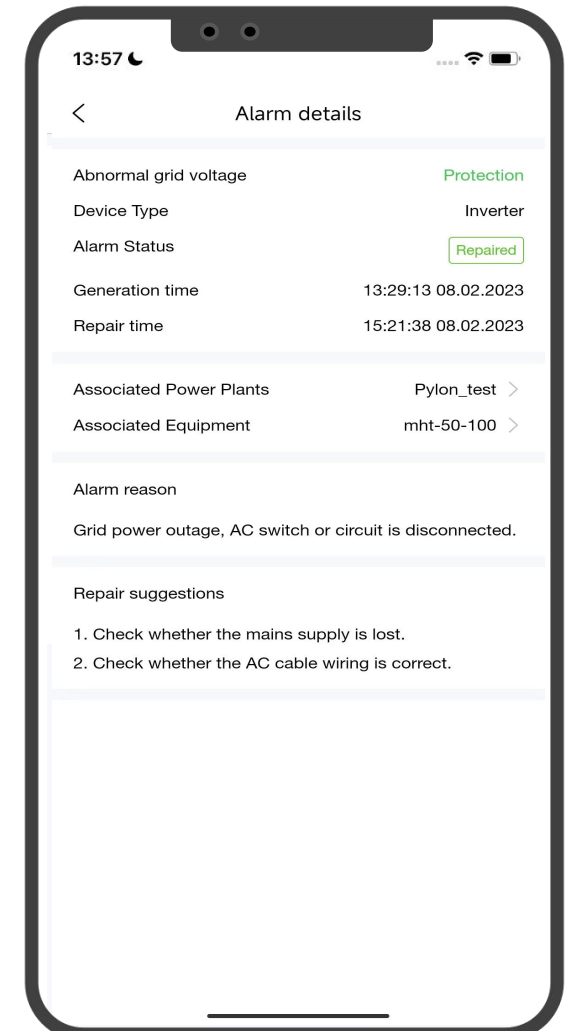
Alarm

Alarm is classified into two major types. One is Protection type and the other one is fault type. The plant's number of each alarm will show.

All alarms are sorted by alarm generation time.

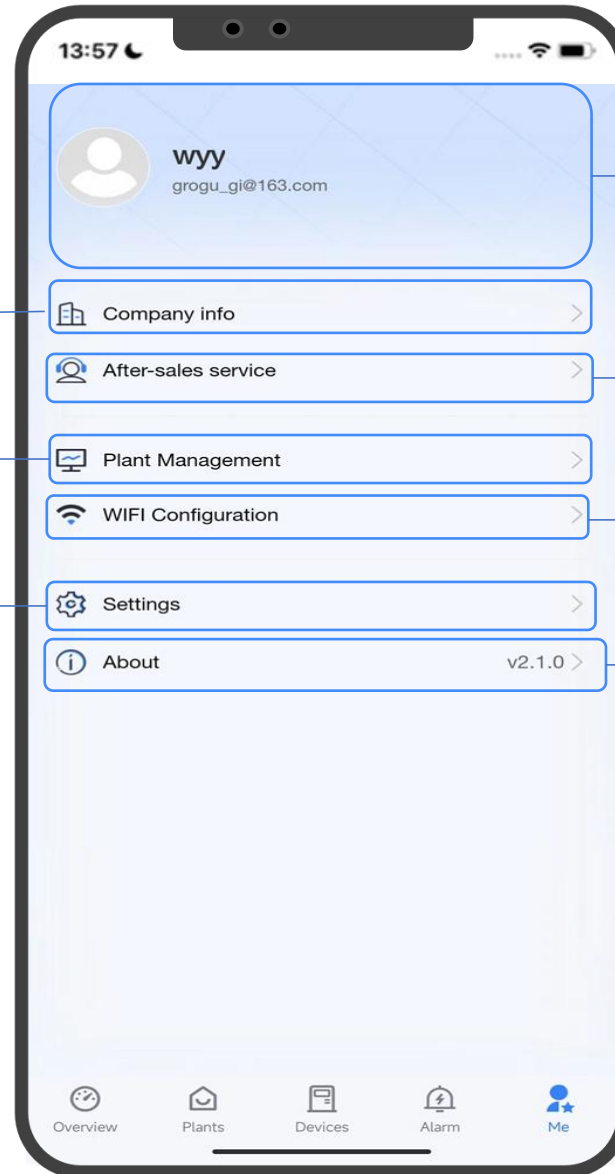


Tap the device you want to check so that you can read more details.



Me

3.5



Personal information like username, email address and password can be changed by tapping it.

Company name, address and region can be modified in this menu.

After-sale service email addresses all around the world are listed.

Same as "Plants" menu on the bottom of the page. Please refer to 3.2 Plants part.

Enable location feature and WIFI connected to the devices can be configured. Quick Use Guide can be referred to for more details.

Functions involved in this part are as follow:

- ①Email address replacement and password change
- ②Revenue setting like electricity price and currency
- ③Alarm notification method: email or app push
- ④Time zone change
- ⑤Default language change
- ⑥Some common FAQs
- ⑦Switch account

The version of current app is shown and the latest one can be achieved in this part.

Thank You

