

# **InstaGen Monitoring Platform Introduction**

# 01 Overview

**SCALINTEG**

# InstaGen Monitoring Solutions

## InstaGen Cloud



InstaGen Cloud is Insta's 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.insta-cloud.co.uk/>

## InstaGen APP



InstaGen APP has the portable version of the platform, allowing people to install it on their phones for monitoring and management of their devices and plants anytime, anywhere.



# 02 InstaGen Cloud

**SCALINTEG**



# InstaGen Monitoring Platform

## **Sign-in Page**

- Choose the language
  - Create an “Owner Account”
- 

## **Plant Page**

- Create a new plant
  - View Plant’s Real-time Generation & Consumption
  - Add devices to plant
  - View Device Data & Export a Data Report
- 

## **Device Page**

- Configure the device
  - View the device log
  - Remote upgrade firmware
- 

## **Alarm Page**

- View the detailed information on alarms
- 

## **Report Page**

- Export a plant data report
- 

## **Manage Page**

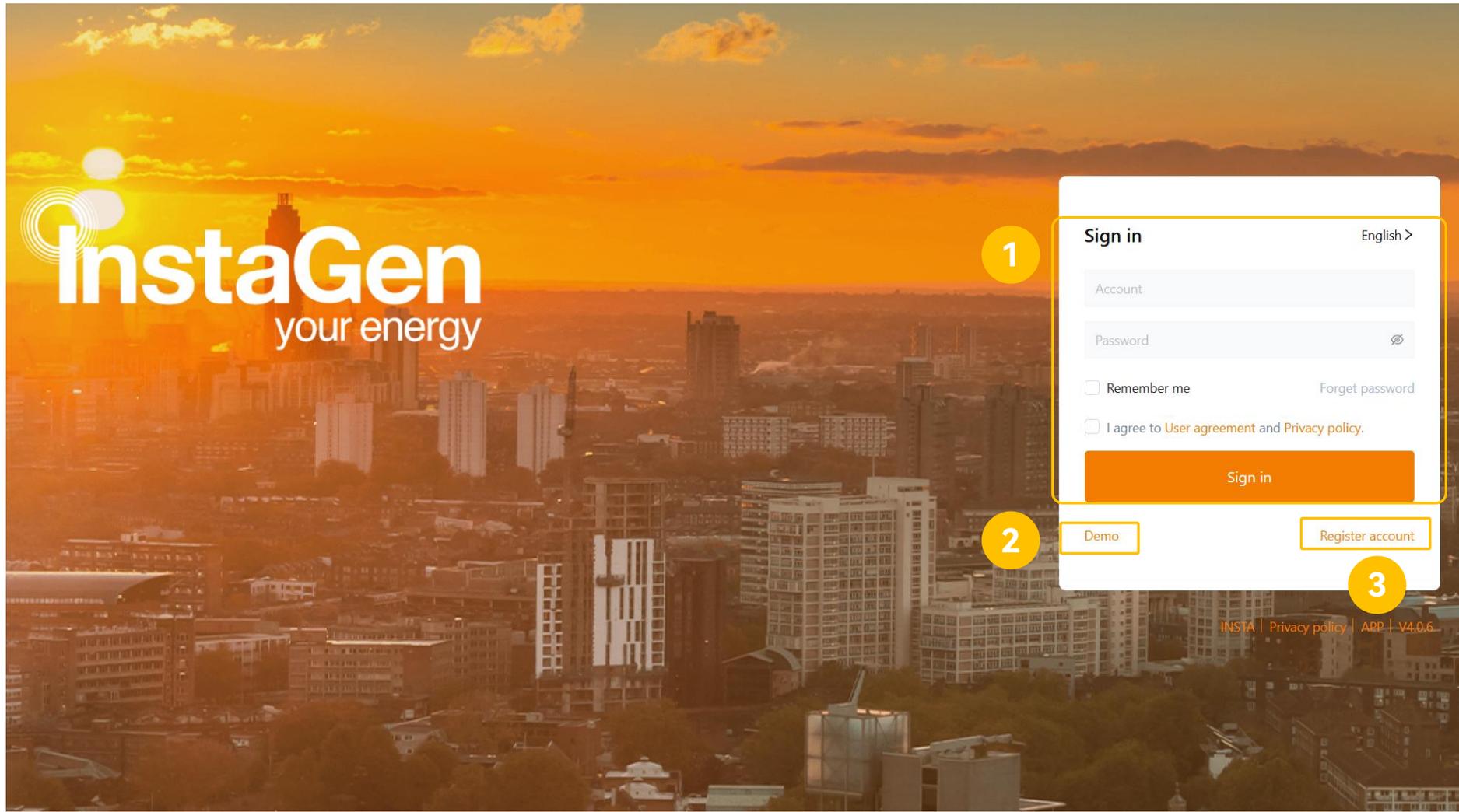
- Create a subordinate organization account
  - Create an internal account & limit the scope of jurisdiction
  - Set the push method of alarms
- 

- Feedback Function

# InstaGen Cloud 21 Main Pages

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# Main Page - Sign-in Page



- ① Sign in by account and password.
- ② InstaGen Cloud provides a demo account. Users can directly access the platform and experience its basic functions through the demo account.
- ③ Owner users can through the sign-in page to create the owner account.

# Main Page - Plant Page

The screenshot shows a dashboard for managing power plants. On the left is a dark sidebar with icons for Home, Reports, Alarm, and Manage. The main content area is titled 'Plants' and features a summary bar with four key metrics: Current power (0.00 kW), Production (0.00 kWh today, 1.25 MWh total), Revenue (0.00 ¥ today, 1.25 k ¥ total), and System/Battery capacity (7.00 kWp / 7.50 kWh). Below this is a filter bar with 'All(1)', 'Normal(1)', 'Abnormal(0)', and 'Offline(0)' tabs, and a 'New plant' button. A search bar with 'Search', 'Reset', and 'Advanced filtering' options is present. A table lists plant details for 'TestEVcharger', including address, production, power, and capacity. A large callout box (5) highlights the table, and another callout box (6) highlights the 'Operate' column actions.

① Power plant system performance by different counting periods.

② Quickly distinguish between power plants that are normal operating, abnormal, and offline.

③ Through this button can create a new plant.

④ Search for power plants through plant name, owner email, organization name, and advanced filtering options such as plant type, capacity, and grid connection time.

⑤ Detail information about the plant.

⑥ The operations that can be performed on a power plant, from left to right, are as follows: Modify, to modify the plant information; Devices, to redirect to the devices page; Delete, to remove the power plant.

This block shows a detailed view of the filtering options. It includes a 'Plant type' selector with 'All', 'C&I Plant', 'Residential Plant', and 'Utility Plant' options. There are two 'Capacity' input fields, each with a range of '[0, 1000000]' and a unit of 'kWp'. A 'Grid connection time' field includes 'Start time' and 'End time' inputs with a calendar icon. 'Search' and 'Reset' buttons are at the bottom.

# Main Page - Devices Page (Device list)

The screenshot displays the InstaGen web interface for the 'Devices' page. The sidebar on the left contains navigation options: Plants, Devices, Alarm, Reports, and Manage. The main content area is titled 'Devices > Device list' and features a search bar with filters for organization, plant name, device type, and device model. Below the search bar is a table listing devices with columns for status, device SN, superior device, device name, plant name, device type, device model, remote location, slave firmware version, and operations. A dropdown menu for 'Please select organization' shows 'Demo Manager' and 'Demo account'. Two dropdown menus for 'Device type' and 'Device model' are also shown, listing various device categories and models. A pagination bar at the bottom indicates '2 in total' and '20 / page'.

St...	Device SN	Superior device	Device name	Plant name	Device type	Device model	Remote - Lo...	Slave firmware versio	Operate
	A1	--	Logger #1	Solinteg Wuxi Hybrid Plant #1	Collector	Logger1000	--	--	
	A2	89%	#1	Plant #4	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45	
	A2	89%	#2	Plant #4	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45	
	A2	89%	#1	Plant #3	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45	
	A2	89%	#2	Plant #1	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45	
	A2	89%	#1	Plant #2	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45	
	Z1	--	Diana Pereira - Samora Correia - PT	Plant #5	Hybrid Inverter	Hybrid-6K	LAN-/	V01.00.00.00-V22.16	
	51	42%	Sacharčuk_Malešovice	Plant #6	Hybrid Inverter	6.0K-25A-3P	WIFI-/	V01.00.00.00-V22.46	

- ① The Device Page has two sub-interfaces: "Device List" and "Firmware Upgrade". The current page is "Device List".
- ② Conduct searches by using various criteria such as the organization they belong to, the plant they are associated with, the device name, the type of device, and the model of the device.
- ③ Devices list and detailed information.
- ④ Operations of device - configure and device log.

# Main Page - Devices Page (Firmware upgrade)

The screenshot shows the InstaGen interface for the 'Firmware upgrade' section. On the left is a dark sidebar with navigation icons for 'Plants', 'Devices', 'Alarm', 'Reports', and 'Manage'. The main content area has a breadcrumb 'Devices > Firmware upgrade' and a search bar with filters for 'Start date', 'End date', 'Operator', and 'Device SN'. A 'Firmware upgrade' button is in the top right. Below is a table of upgrade records with columns for Operator, Firmware version, Creation time, Execution method, Status, Executic, Operation source, and Operate. A pagination bar at the bottom shows '1' of 20 pages.

Operator	Firmware version	Creation time	Execution method	Status	Executic	Operation source	Operate
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	13:48:29 2024.04.17	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	Vxx.00.xx.xx-Vxx.46.xx.xx	21:39:16 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	21:39:16 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	Vxx.00.xx.xx-Vxx.46.xx.xx	16:55:57 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	16:55:57 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	14:49:51 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	07:11:42 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	Vxx.00.xx.xx-Vxx.46.xx.xx	07:11:42 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	07:04:33 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	06:44:01 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	V01.xx.xx.xx-V25.xx.xx.xx	06:24:56 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄
d.danner@mtec-systems.com	Vxx.00.xx.xx-Vxx.46.xx.xx	06:24:56 2024.04.16	Immediate execution	● Upgrade successfully	Succeed	🖨️	🗑️ 🔄

- ① The Device Page has two sub-interfaces: "Device List" and "Firmware Upgrade". The current page is "Firmware upgrade".
- ② Search for historical upgrades through start&end time, operator or device SN code.
- ③ Detail information on historical upgrades or scheduled upgrades.
- ④ Operations for upgrades. From left to right, detail information, refresh and delete.
- ⑤ Through this button to arrange firmware upgrades.

# Main Page - Alarm Page

The screenshot shows the Alarm Page interface with the following components and callouts:

- 1**: Filter tabs for 'Current(1)', 'Historical(6)', and 'All(7)'. The 'Current(1)' tab is selected.
- 2**: Search filters including 'Please select organization', 'Plant name/SN/Owner email', 'Start date', and 'End date'. There are 'Search' and 'Reset' buttons and an 'Advanced filtering' dropdown.
- 3**: A table listing alarm details for 'Demo#4'.

Plant name	Device name	Device SN	Device type	Alarm type	Alarm name	Alarm status	Generation time	Op...
Demo#4	#2	A21230012053004A	Hybrid Inverter	Protection	Batt.Voltage Fault	Current alarm	09:41:18 2024.02.06	
- 4**: A magnified view of the 'Op...' button, which is a magnifying glass icon.

Below the table, there is a 'Please select organization' dropdown showing 'Demo Manager' and 'Demo account'. A calendar view shows the date '24' selected in April 2024. An 'Alarm type' section lists various fault categories like 'Protection' and 'Fault' with sub-categories. At the bottom right, it shows '2 in total' and '20 / page'.

① View current, historical, as well as all alarm messages.

② Search for alarm through organization name, plant name, time, and it also supports searching for alarm through more detailed protection or fault names.

③ Detail information of alarms.

④ Through this button can view more detailed information of the alarm, including possible causes and repair suggestions.

# Main Page - Report Page(Plant report)

The screenshot shows the InstaGen web interface for a plant report. The left sidebar contains navigation options: Power station statements, Export records, Plants, Devices, Alarm, Reports, and Manage. The main content area is titled 'Report > XXXXXXXX' and includes a search bar, a filter menu (Monthly, Annual, Total, Customize), and an Export button. Below the filter menu is a 'Select a template' button and a date selector (2024-03). The main table displays energy production and consumption data for the period of 2024-03-01 to 2024-03-15. A 'Plant info' section on the left provides details for the selected plant, Solinteg#1, including its type (Residential Plant), capacity (120 kWh), and battery capacity (100 kWh). A pagination bar shows 12 items out of 481.

Date	Production (kWh)	Consumption (kWh)	Export energy (kWh)	Import energy (kWh)	Revenue from elec
2024-03-01	3.3	3.3	3.3	3.3	3.3
2024-03-02	4.8	4.8	4.8	4.8	4.8
2024-03-03	8.1	8.1	8.1	8.1	8.1
2024-03-04	2.1	2.1	2.1	2.1	2.1
2024-03-05	11.6	11.6	11.6	11.6	11.6
2024-03-06	12.1	12.1	12.1	12.1	12.1
2024-03-07	9.8	9.8	9.8	9.8	9.8
2024-03-08	31.2	31.2	31.2	31.2	31.2
2024-03-09	21.5	21.5	21.5	21.5	21.5
2024-03-10	17.6	17.6	17.6	17.6	17.6
2024-03-11	22.1	22.1	22.1	22.1	22.1
2024-03-12	12.8	12.8	12.8	12.8	12.8
2024-03-13	19.3	19.3	19.3	19.3	19.3
2024-03-14	12.6	12.6	12.6	12.6	12.6
2024-03-15	15.2	15.2	15.2	15.2	15.2

**Plant info**

Plant name Solinteg#1

Plant type Residential Plant

Capacity (kWh) 120

Battery capacity (kWh) 100

- ① The Report Page has two sub-interfaces: "Plant report" and "Export records". The current page is "Plant report".
- ② Search for and view subordinate power plants.
- ③ Display the detailed information of the selected plant.
- ④ Click here can select the time dimension for statistics - monthly/annual/total/custom.
- ⑤ Click here can choose the items to report through a template and also select the time period for the statistics.
- ⑥ Can choose "General" or "Concurrent" statistical method.
- ⑦ Can switch between the table and bar chart display methods.
- ⑧ Detail information of the report.
- ⑨ Export the report.

\*The page may change with updates, please refer to the actual website for the latest version.

# Main Page - Report Page(Export records)

InstaGen

Report > XXXXXXXX

Feedback | English

1 Export records

2 Report Name Generation time

Report name	Report type	Export object	Time scale	Generation time	Status	Operate
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Fail	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Fail	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Exporting	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Exporting	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4
Device_Professional params_20240102_20240105	Professional params	SN A112200100230097	15/03/2023-14/03/2024	21/03/2023	Success	4

6 months of data only

共 400 条 15/页 < 1 2 3 4 ... 5 > 前往 1 页

- ① The current page is "Export records".
- ② Search for reports through report name and generation time.
- ③ Detail information of reports.
- ④ The operation for reports, including re-generate, download, and delete.

\*The page may change with updates, please refer to the actual website for the latest version.

# Main Page - Manage Page(Organization)

The screenshot shows the 'Manage > Organization' page in the InstaGen application. The interface is divided into several sections:

- 1**: A dark sidebar on the left contains navigation icons for 'Plants', 'Devices', 'Alarm', 'Reports', and 'Manage'. The 'Manage' icon is highlighted with a yellow circle.
- 2**: A search bar at the top left of the main content area, labeled 'Username/Email address/Organization code', with a magnifying glass icon and a plus sign to its right.
- 3**: A plus sign button located to the right of the search bar, used for creating a new organization.
- 4**: A list of organizations, currently showing one entry for 'InstaGen'.
- 5**: A section titled 'Organization information' displaying details for the selected organization: Group name (InstaGen), Contact person (Bruce Allen), Contact email (Bruce.allen@instagroup.co.uk), Country/Region (United Kingdom (United Kingdom)), Organization code (DB249328), Creation time (16:50:21 04.09.2024), and Address (Insta House, Ivanhoe Road, Hogwood Business Park, Berkshire, Wokingham). An 'Edit' button is located at the top right of this section.
- 6**: A section titled 'Internal account' containing a table of users. The table has columns for 'No.', 'Username', 'Email address', 'Role', and 'Operate'. Two users are listed: 'Demo user' (Role: Super Administrator, Email: @integ.com) and 'TEST' (Role: Super Administrator, Email: @uxiang.dev). A '+ Add' button is at the top right of the table.
- 7**: A context menu (dropdown) that appears over the 'Operate' column of the table, containing icons for edit, reset password, and delete.
- 8**: A plus sign button located at the bottom right of the 'Internal account' table, used for adding a new internal account.

At the bottom right of the page, it indicates '2 in total' internal accounts.

- ① The Manage Page has three sub-interfaces: "Organization", "Owner" and "News Center". The current page is "Organization".
- ② Search for an organization by username, email address or organization code.
- ③ Through this button can create a sub-account.
- ④ Display various organizations and their affiliations.
- ⑤ Display the information of the organization.
- ⑥ Display the internal accounts under this account.
- ⑦ Modify/Reset password/Delete.
- ⑧ Through this button add a new internal account.

# Main Page - Manage Page(Owner)

The screenshot shows the 'Manage > Owner' page in the InstaGen application. The interface includes a dark sidebar on the left with navigation options: Organization, Owner, Feedback, and Notifications (all under a yellow callout '1'); Plants; Devices; Alarm; Reports; and Manage (highlighted with a yellow callout '1'). The main content area features a search bar (callout '2') with 'Username/Email address' placeholder, 'Search', and 'Reset' buttons. Below the search bar is a table of owner users (callout '3') with columns: No., Userna..., Email address, Plant guests, and Operate. The table contains four rows of user data. The 'Operate' column for each row contains three icons: a pencil (modify), a key (reset password), and a trash can (delete) (collectively callout '4'). At the bottom right, there is a pagination control showing '4 in total', a page selector with '1' selected, and '20 / page'.

No.	Userna...	Email address	Plant guests	Operate
1	dem...	...com	--	[Pencil] [Key] [Trash]
2	61...	...com	1	[Pencil] [Key] [Trash]
3	pe...	...mail.com	--	[Pencil] [Key] [Trash]
4	uct...	...arcuk.cz	--	[Pencil] [Key] [Trash]

① The current sub-page is "Owner".

② Search for owner users by username and email address.

③ Display the information of owner users.

④ Operations to the owner account, from left to right, are: modify - change the email address, reset the password, and delete the owner user.

# Main Page - Manage Page(News Center)

The screenshot shows the InstaGen Manage Page (News Center) interface. The left sidebar contains navigation options: Organization, Owner, Feedback, Notifications, Plants, Devices, Alarm, Reports, and Manage. The main content area displays a list of notifications under the 'Alarm' tab. A search bar and 'All read'/'Manage' buttons are located above the list. A 'Set' button is visible in the top right corner.

1. Organization menu (includes Owner, Feedback, Notifications)

2. Alarm tab

3. Set button

4. Search bar (Please enter content keyword...)

5. Notification list

Alarm Name	Plant Name	SN	Alarm Status	Time
Meter Comm Fault	楼顶50K	A112300106632049	Fault	11:08:13 24.04.2024
BMS Comm Fault	楼顶50K	A112300106632049	Protection	11:08:13 24.04.2024
BMS Comm Fault	充电桩模拟	A11230010203004C	Protection	19:22:19 10.04.2024
Mains Lost	充电桩模拟	A11230010203004C	Protection	18:34:23 10.04.2024
Meter Comm Fault	充电桩模拟	A11230010203004C	Fault	18:34:23 10.04.2024

① The current sub-page is "Notifications".

② Notifications are divided into alarms and system messages.

③ Through this button set the push method of alarms.

④ Search for notifications, as well as batch mark them as "All read" or batch delete notifications.

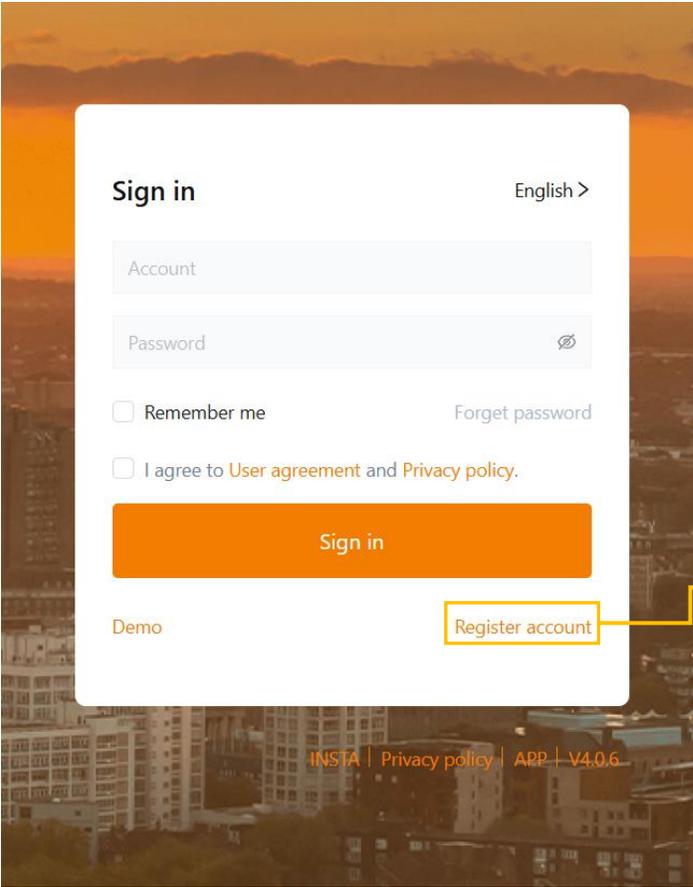
⑤ Notification list.

# InstaGen Cloud Main Functions

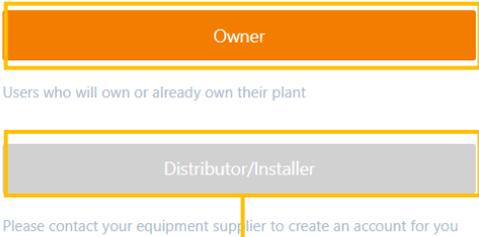
**SOLINTEG**

# Create an Owner Account

## Method 1: Created by owners' self



Owner users can register for an owner account on the sign-in page using their email address.



Distributors and installers need to use organizational accounts, which cannot be created here.

The image shows a registration form for an 'Owner user'. It starts with a back arrow and the text '< Owner user'. The form has several sections: 'Email address' with a 'Please enter' prompt; 'Verification code' with a 'Please enter the verification code' prompt and a 'Get code' link; 'New password' with a 'New password' prompt; and 'Confirm password' with a 'Confirm new password' prompt. At the bottom, there is a checkbox for 'I agree to <User agreement> and <Privacy policy>' and a grey 'Register' button.

# Create an Owner Account

## Method 2

Distributors or installers can create owner accounts for end users.

When a distributor or installer creates a power plant for an end user, they can directly enter the end user's email address. Once the power station is created, the initial password will be sent to the end user's email. The end user can sign into the InstaGen Cloud by the email address and initial password, without registering.

### New plant



1 Installation info ... 2 Location ... 3 Revenue setting

Owner email

\* Related organization

\* Plant name

\* Grid connection time

\* Plant type

Plants

Feedback | English

Current power(kW) 0.00

Production today(kWh) 0.00  
Production total(kWh) 4.60

Revenue today(£) 0.00  
Revenue total(£) 4.60

System capacity(kWp) 3.60  
Battery capacity(kWh) 0.00

All(1) Normal(0) Abnormal(0) Offline(1)

Plant name/SN/Owner email  Please select organization

Status	Plant name	Address	Electricity production per KW	Current power	Daily production	Last update time	Operate
(1)	21 Azalea Gardens	21 Azalea Gardens, Fleet, GU52 8UY, United Kingdom	0.00 kWh/kWp	0.00 kW	0.00 kWh	13:18:06 03.12.20	<input type="button" value="Edit"/> <input type="button" value="Print"/> <input type="button" value="Delete"/>

Plants

Devices

Alarm

Reports

Manage

On the Plant Page, click "New plant" to create a new plant.

# Create a New Plant

Plants

All(1)

Plant name/

Status

Alarm

New plant

Select "Plants" on the left side

Click "New plant" and then appear a new page

New plant ✕

1 Installation info ... 2 Location ... 3 Revenue setting

Owner email

\* Related organization

\* Plant name

\* Grid connection time

\* Plant type

\* Capacity  kWh

Battery capacity  kWh

Plant cover    
 Image upload

Max. size 10M, supported format: .jpg, .png, .svg, .gif

Next slide

# Create a New Plant

Fill in the required information such as the affiliated organization, grid connection time, plant type, and plant capacity, then click "Next".

New plant ×

1 Installation info ... 2 Location ... 3 Revenue setting

Owner email

\* Related organization

\* Plant name

\* Grid connection time

\* Plant type

\* Capacity  kWp

Battery capacity  kWh

Plant cover

Max. size 10M, supported format: .jpg, .png, .svg, .gif

Manually enter the address or authorize the platform to automatically retrieve it, then fill in the region and time zone, and then proceed to click "Next".

New plant ×

1 Installation info ... 2 Location ... 3 Revenue setting

\* Country/Region

\* Timezone

\* Location

Detailed address

Set the currency unit, selling price for electricity, and buying price for electricity to facilitate the calculation of revenue. Then click "Complete" to finish the creation.

New plant ×

1 Installation info ... 2 Location ... 3 Revenue setting

\* Currency unit

\* Profit per kWh

\* Cost per kWh

# View Plant's Real-time Generation & Consumption

The flowchart will display real-time electricity generation and consumption.

Select "Plants" on the left side

Select the plant you want to view and click on the plant name.

The curve chart will display the variations in PV power, grid power, battery power, SOC value, and load consumption.

Usage percentage of production and consumption

**Production & Revenue**

Production today(kWh)	0.00
Production total(MWh)	1.26
Revenue today(€)	0.00
Revenue total(k €)	1.26

Today	Tuesday	Wednesday	Thursday	Friday
0/3°C	-1/2°C	-1/5°C	-1/4°C	-1/1°C

**TestEVcharger**

Plant type	Residential Plant
Capacity	7kWp
Grid connection time	2024.05.16
Battery capacity	7.5kWh
Plant address	374 933/7, 614 00 Brno-Maloměřice a Obřany, Czechia

Status	Plant name	Address
	Plant #5	Estr. das V
	Plant #6	Malešovic

**Revenue from electricity sales** 0.1 €

**Electricity bill savings** 1.2 €

Production (kWh)	1.30
Consumption (kWh)	5.30

Self-consumption	1.20 kWh	Import energy	4.10 kWh
Export energy	0.10 kWh	Self-sufficiency	1.20 kWh

**Curve Chart Data:**

Time	PV Power (kW)	Grid power (kW)	Battery Power (kW)	SOC (%)	Load power (kW)	EV charger production power (kW)
00:00	0.0	0.0	0.0	100	0.0	0.0
04:00	0.0	0.0	0.0	100	0.0	0.0
08:00	0.5	0.0	0.0	100	0.5	0.0
12:00	2.5	0.0	0.0	100	2.5	0.0
16:00	0.5	0.0	0.0	100	0.5	0.0
20:00	0.0	0.0	0.0	100	0.0	0.0
24:00	0.0	0.0	0.0	100	0.0	0.0

# Add Devices to Plant

Select "Plants" on the left side

Status	Plant name	Address
(+)	Solinteg Wuxi Hybrid ...	中华人民
(+)	Solinteg Wuxi On-Gri...	中华人民
(+)	Plant #3	100095,
(+)	Plant #4	Dc46, Sa

Select the plant you want to add devices to and click on the plant name.

Click "Devices" at the top of page.

Next slide

"Scan devices" can automatically add devices that have a physical communication connection with already added devices, such as datalogger, charging piles, and slave inverters after master-slave parallel connection. When you add new devices to an existing system, you can use "Scan devices" to quickly add them.

"Add devices" is often used for the first-time addition of devices or for adding individual devices that do not have a physical communication connection with each other. For master-slave parallel systems, it supports the function of automatically adding slave devices when adding the master device.

# Add Devices to Plant - "Scan devices" Button

When there are already devices added to the plant and there are new devices physically connected to them, you can use "Scan devices" to quickly add them.

← Overview **Devices** Alarm Scan devices Add devices

Stat...	Device name	Device SN	SOC	Superior device	Device type	Device model	Remote - Local	Slave firmware version	Operate
	GridConnectedPVInverter	A102400101202014	--	--	Grid-tied Inverter	OGS-3.6K	WIFI-/	V1-0008-0007	

If new devices cannot be scanned, please check whether the physical communication connection is normal.

Devices that have a physical communication connection with existing devices, such as datalogger, charging pile, or slave device in a master-slave parallel system, can all be scanned and quickly added to the plant.

Scan devices ×

A total of 0 devices are scanned this time

Device name	Device SN	Device type	Meter purpose	Operate
 No data				

Add all

Scan devices ×

A total of 3 devices are scanned this time

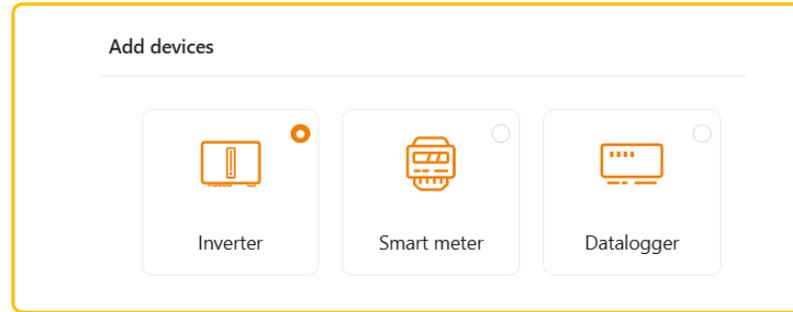
Device name	Device SN	Check code	Device type	Meter application	Operate
<input type="text" value="Please input"/>	A5456297645325	62427	Hybrid	<input type="text" value="Please select"/>	
<input type="text" value="Please input"/>	Z2478293812373	27463	Datalogger	<input type="text" value="Please select"/>	
<input type="text" value="Please input"/>	Z2478263814563	87251	Charging pile	<input type="text" value="Please select"/>	

Add all

# Add Devices to Plant - “Add devices” Button

Add devices

Click "Add devices" will bring up the window shown in the figure on the right.



Select the device type you want to add, currently including inverter, EV charger, smart meter and data logger.

Cancel Confirm

Add devices

\* Device name

\* Device SN

\* Check code

Different device need to input different information, as the left picture shows, the SN code, check code is needed if add a inverter.

Cancel Confirm

# View Device Data & Export a Data Report

**Method 1**

Select "Plants" on the left side

Status	Plant name	Address
	Plant #5	Estr. das V
	Plant #6	Malešovice

Select the plant which the device belongs to

Click "Devices" at the top of the page.

Device name	Device SN	Superior device	Device type	Device model	Remote - Local	Slave firmware version	Operate	
Sacharčuk_Malešovice	5112200100330129	95%	--	Hybrid Inverter	6.0K-25A-3P	WIFI-/	V01.00.00.00-V22.46.02.00	

**Method 2**

Select the device you want to view, and click the device name or the device's SN code.

Device Overview Page

Next slide

	A212300102930049	89%	--	#1	Plant #2	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45.02.00	
	Z112300200831256	--	--	Diana Pereira - Samora Correia - PT	Plant #5	Hybrid Inverter	Hybrid-6K	LAN-/	V01.00.00.00-V22.16.02.00	
	5112200100330129	68%	--	Sacharčuk_Malešovice	Plant #6	Hybrid Inverter	6.0K-25A-3P	WIFI-/	V01.00.00.00-V22.46.02.00	

# View Device Data & Export a Data Report

## Real-time info Page

← Real-time info Power/Production Professional parameters Alarm

Device Name SN A1 Last update time 04:58:11 2024.10.09

### Inverter basic parameters

Device Status	Normal	Work Mode	Economic Mode	Meter status
Feed in grid	On	Feed in Grid	0.5kW	Total operation time
Inverter Temperature	46.3°C	Device Type	Hybrid Inverter	Device Model
Rated Power	40.00kW	Slave Firmware Version	V03.01.01.02-V05.54.07.00	Check Code
Communication mode	WIFI-/	Device role	Independent	Connection date
PV Power	1.89kW	Daily PV generation	6.00kWh	Total PV generation
				1.75MWh

### Inverter AC parameters

	L1
AC Voltage(V)	236.6
AC Active Current(A)	3.3
AC Power(kW)	0.79

### PV Side

	Voltage(V)	Current(A)	Power(kW)
PV1	340.5	0.1	0.03
PV2	436.4	0.2	0.09
PV3	339.0	0.1	0.03
PV4	333.4	5.2	1.74

### Battery

Battery_ID Set	Pylon_HV	Master BMS SN	--	Battery Capacity	39.072kWh
Battery Temperature	26.0°C	Charging and Discharging status	--	BMS communication status	Normal
Battery power	0.00kW	Battery current	0.0A	Battery voltage	551.8V
SOC	99.00%	SOH	100.0%	Min Cell Voltage	3.325V
Max Cell Voltage	3.330V	Charge current limit	14.8A	Discharge current limit	37.0A

### Load

	L1	L2	L3
Backup Load Voltage(V)	236.3	237.2	236.8
Backup Load Active Current(A)	0.3	0.2	0.3
Backup Load Power(kW)	0.06	0.05	0.06
Backup Frequency(Hz)	50.04	50.05	50.04
On-grid load power(kW)	0.53	0.65	0.57

### Meter

Meter Total Power	0.48kW	Meter L1 power	0.21kW	Meter L2 power	0.12kW
Meter L3 power	0.15kW				

Real-time information about the parameters of inverter, PV side, inverter, meter, battery and load.

# View Device Data & Export a Data Report

## Power/Production Page

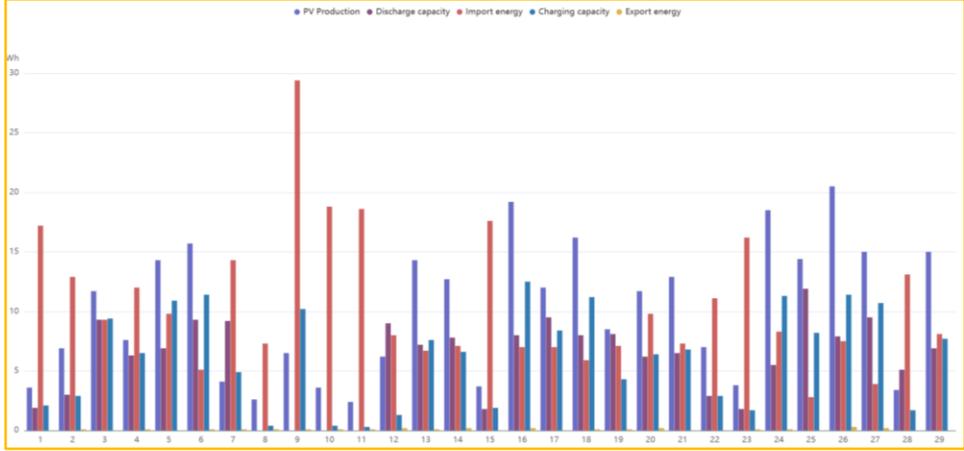
Freely select the desired time to view

Switch to day/month/year/total statistics chart



The day statistics chart uses a line graph to display the changes in PV power, battery power, grid power, and SOC every five minutes.

The month/year/total charts use a bar graph to compare the PV production, battery charge/discharge capacity, and export energy to the grid.



# View Device Data & Export a Data Report

## Professional params Page

Select the date you want to check.

Export a data report

Select the parameters you want to view, multiple selections are allowed, but the units of the selected parameters must not exceed two. After clicking "confirm", a data line chart will be generated.



Line Chart

# Configure the Device

**Method 1**

Select "Plants" on the left side

Select the plant which the device belongs to

Click "Devices" at the top of the page.

Device name	Device SN	Superior device	Device type	Device model	Remote - Local	Slave firmware version	Operate	
Sacharčuk_Malešovice	5112200100330129	95%	--	Hybrid Inverter	6.0K-25A-3P	WIFI-/	V01.00.00.00-V22.46.02.00	

**Method 2**

In the row of the device you want to configure, find the "Operate" column, and click the button shown to enter "Parameter settings" page.

Sta...	Device SN	Superior device	Device name	Plant name	Device type	Device model	Remote - Local	Slave firmware version	Operate	
	A21230015823004C	89%	--	#1	Plant #4	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45.02.00	
	A21230012053004A	89%	--	#2	Plant #4	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45.02.00	
	A212300175430040	89%	--	#1	Plant #3	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45.02.00	
	A21230011673004A	89%	--	#2	Plant #1	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45.02.00	
	A212300102930049	89%	--	#1	Plant #2	Hybrid Inverter	MHT-10K-25	WIFI-/	V01.00.00.00-V17.45.02.00	
	Z112300200831256	--	Diana Pereira - Samora Correia - PT	Plant #5	Hybrid Inverter	Hybrid-6K	LAN-/	V01.00.00.00-V22.16.02.00		
	5112200100330129	68%	--	Sacharčuk_Malešovice	Plant #6	Hybrid Inverter	6.0K-25A-3P	WIFI-/	V01.00.00.00-V22.46.02.00	

# Configure the Device

## Grid connection parameter

Grid connection parameter is a configuration channel open to highly specialized distributors or installers, which includes professional configurations such as over-voltage and under-voltage settings, over-frequency and under-frequency settings, active and reactive power output control, various protection parameters, and low-voltage ride-through settings.

For more information, please get in touch with the after-sales technical team

🔗 Grid connection par... ▾

Protection parameters

Grid connection para...

Reactive power control

Voltage related active ...

Active response to fre...

LVRT

LVRT

LVRT switch

Entry voltage

Lock out voltage

Point 1 voltage

Point 1 protection time

Point 2 voltage 22.1

Point 2 protection time 1951

Point 3 voltage 69.0

Point 3 protection time 3100

Point 4 voltage 84.0

Point 4 protection time 2081

Point 5 voltage 115.0

Point 5 protection time 5000

### Protection parameters

10-min overvoltage protection switch  Off  On

#### OV/UV settings

Level-1 UV protection threshold 195.5 V

Level-1 UV protection time 740 ms

Level-1 OV protection threshold 264.5 V

Level-1 OV protection time 500 ms

Level-2 UV protection threshold 184.0 V

Level-2 UV protection time 120 s

Level-2 OV protection threshold 276.0 V

Level-2 OV protection time 120 ms

#### OF/UF settings

Level-1 UF protection threshold 47.50 Hz

Level-1 UF protection time 400 ms

Level-1 OF protection threshold 52.00 Hz

Level-1 OF protection time 400

Level-2 UF protection threshold 47.50

Level-2 UF protection time 400

Level-2 OF protection threshold 52.00

Level-2 OF protection time 400

### Active response to frequency deviation (FP)

#### Power response to overfrequency (OFP)

Overfrequency FP curve switch  Off  On

Overfrequency threshold 50.20 Hz

Overfrequency threshold power 100.0 %

Overfrequency end point frequency 51.50 Hz

Overfrequency end point power 48.0 %

Overfrequency slope 40.00 %/Hz

Overfrequency droop 0.00 %

Overfrequency recovery threshold 50.10 Hz

Overfrequency deactivation time 1 s

Overfrequency power recovery rate 100.0 %/min

### Grid connection parameter

Grid connection switch  Off  On

Active power increase gradient 8.0 %Pn/min

#### Starting to generate power

Lower voltage 195.5 V

Upper voltage 253.0 V

Lower frequency 49.50 Hz

Upper frequency 50.10 Hz

Observation time 60 s

#### Reconnection after tripping

Lower voltage 195.5 V

Upper voltage 253.0 V

Lower frequency 47.50 Hz

Upper frequency 50.10 Hz

Observation time 300 s

# Remote Upgrade Firmware



InstaGen

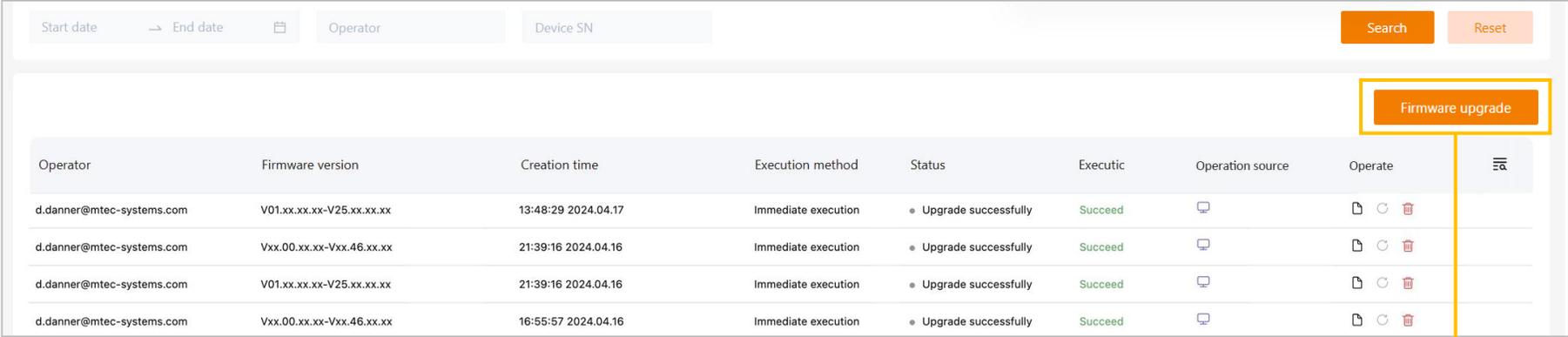
- Device list
- Firmware upgrade

Plants

Devices

Alarm

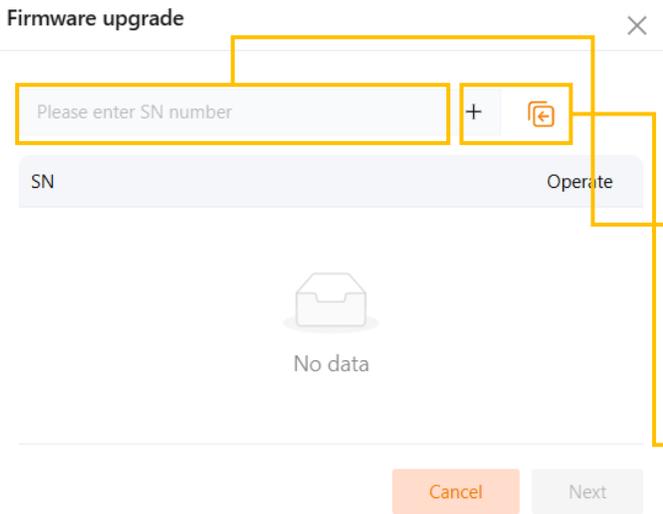
Select "Devices" on the left side and select the "Firmware upgrade"



Start date → End date Operator Device SN Search Reset

Operator	Firmware version	Creation time	Execution method	Status	Executic	Operation source	Operate
d.danner@mtec-systems.com	V01.xx.xx-V25.xx.xx	13:48:29 2024.04.17	Immediate execution	• Upgrade successfully	Succeed		
d.danner@mtec-systems.com	Vxx.00.xx.xx-Vxx.46.xx.xx	21:39:16 2024.04.16	Immediate execution	• Upgrade successfully	Succeed		
d.danner@mtec-systems.com	V01.xx.xx-V25.xx.xx	21:39:16 2024.04.16	Immediate execution	• Upgrade successfully	Succeed		
d.danner@mtec-systems.com	Vxx.00.xx.xx-Vxx.46.xx.xx	16:55:57 2024.04.16	Immediate execution	• Upgrade successfully	Succeed		

Click "Firmware upgrade" and then pop up a new window.



Firmware upgrade

Please enter SN number +

SN Operate

No data

Cancel Next

Method 1: Support manual entry of the SN code. After entering, click the "+" to add.

Method 2: Support batch addition of SN codes by importing an Excel file. The left side is the import button, and the right side is the template for the Excel file.

# Create Subordinate Organization Account

**InstaGen**

- Organization
- Owner
- Feedback
- Notifications

Plants

Devices

Alarm

Reports

Manage

Manage > Organization

Username/Email address/Organization code

InstaGen

Click the “+” sign to create a new organization account.

### Creating an Organization

- \* Superior organization: InstaGen
- \* Group name: Please enter
- \* Contact person: Please enter
- \* Contact email: Please enter
- \* Address: Please enter
- \* Country/Region: Please select
- \* Organization code: DB24C144

Cancel Confirm

Fill in as required.

The organization code is randomly generated and does not need to be filled in.

After clicking “Confirm”, the initial password will be sent along with the confirmation email to the email address provided.

# Create Internal Account & Limit the Scope of Jurisdiction

Manage > Organization

Username/Email address/Organization code

**Organization information**

Group name	InstaGen
Contact person	Bruce Allen
Contact email	Bruce.allen@instagroup.co.uk
Country/Region	United Kingdom (United Kingdom)
Organization code	DB249328
Creation time	16:50:21 04.09.2024
Address	Insta House, Ivanhoe Road, Hogwood Business Park, Berkshire, Wokingham

**Internal account**

No.	Username	Email address	Role	Operate	
1	Bruce Allen	Bruce.allen@instagroup.co.uk	Super Administrator		

1 in total

Select the organization to which you want to add the internal account.

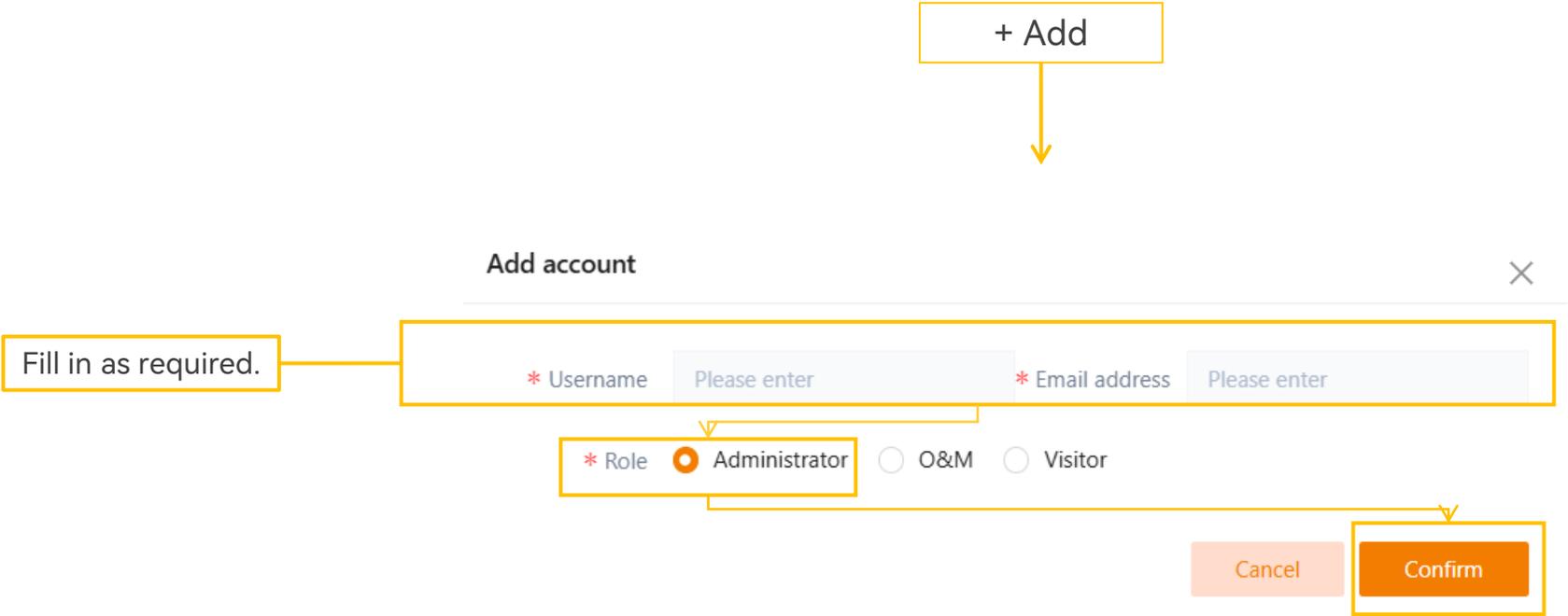
Click "Add" as shown in the figure.

Next slide

# Create Internal Account & Limit the Scope of Jurisdiction

## Administrator Role

The administrator role account has the authority to create and manage all internal accounts, access and modify all power plants and devices.



# Create Internal Account & Limit the Scope of Jurisdiction

## O&M Role

When creating an O&M role account, you can assign a management scope to it based on the organization or plant, allowing the O&M account to view and manage plants and devices within its management scope.

+ Add

Method 1: Divide internal account permissions based on organization unit.

Add account

\* Username Please enter \* Email address Please enter

\* Role  Administrator  O&M  Visitor

Scope of jurisdiction  Organization  Plants

Scope of jurisdiction

0 organizations currently selected  Select all

>  InstaGen

Cancel Confirm

Method 2: Divide internal account permissions based on plant unit.

Add account

\* Username Please enter \* Email address Please enter

\* Role  Administrator  O&M  Visitor

Scope of jurisdiction  Organization  Plants

Scope of jurisdiction

0 plants currently selected

>  InstaGen

Please select an organization on the left side.

Cancel Confirm

# Create Internal Account & Limit the Scope of Jurisdiction

## Visitor Role

Visitor role account can also have their access scope set when they are created, but visitor account only has view permission.

Method 1: Divide internal account permissions based on organization unit.

**Add account** [Close]

\* Username  \* Email address

\* Role  Administrator  O&M  Visitor

\* Scope of jurisdiction  Organization  Plants

\* Scope of jurisdiction

0 organizations currently selected  Select all

- >  InstaGen

+ Add

Cancel Confirm

Method 2: Divide internal account permissions based on plant unit.

**Add account** [Close]

\* Username  \* Email address

\* Role  Administrator  O&M  Visitor

\* Scope of jurisdiction  Organization  Plants

\* Scope of jurisdiction

0 plants currently selected

- >  InstaGen

Please select an organization on the left side.

Cancel Confirm

\*The page may change with updates, please refer to the actual website for the latest version.

# Set the Push Method of Alarms

Find the "Set" button.

Click "Set", then a new window will pop up.

The option to enable or disable alarm notifications can be selected.

Whether to push alarms:

Alarm level:  Error  Warning  Info

Push method:  Mail  Notifications

Push language: English

Cancel Confirm

Set the alarm level - fault, protection or both. And set the puch method - by email, by news center or both.

**THANK YOU**