SUNGROW
Clean power for all

# User Manual

## iSolarDesign 4.1

iSolarDesign

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# About This Manual

### Target Group

This manual is applicable to plant designers. The plant designer is required to meet the following requirements:

- Understand the working principle and operation method of inverter.
- Be familiar with applicable local standards and relevant safety regulations on electrical systems.

### Symbols in the Manual

> **NOTE** indicates supplementary information, emphasis on specific points, or tips that might help to solve your problems or save your time.

### Requirements

| Item | Requirements |
| --- | --- |
| Browser | Chrome 60 and above, Safari 10 and above, Firefox 60 and above |
| Resolution | 1920*1080 (recommended); 1366*768 (supported) |

### Main Content

This manual is to provide readers with an overview of how to use iSolarDesign.

> User interfaces presented in this manual come from iSolarDesign V4.1. They are for reference only and may differ from the user interface you actually see.

> The supported scenarios vary by server. For details, see the following table.

| Supported Scenario | International Server | European Server | Australian Server |
| --- | --- | --- | --- |
| Residential | ✔ | ✔ | ✔ |
| Commercial and industrial | ✔ | ✔ | ✔ |
| Microinverter | ✖ | ✔ | ✖ |
| Optimizer | ✔ | ✔ | ✖ |
| RSD | ✔ | ✖ | ✖ |

# Contents

# 1 Common Operations

## 1.1 Account Registration

This section introduces the registration process of an iSolarDesign account.

**Prerequisites**

The computer can access the network.

**Procedure**

**Step 1** Enter https:// design.isolarcloud.com in the address bar of a browser. Press **Enter** to enter the iSolarDesign login interface.

**Step 2** Click  in the upper right corner to switch the language.

**Step 3** Click **Register** to enter the registration interface.

**Step 4** Enter the email address and click **Verification Code**.

**Step 5** Enter the verification code received in the mailbox.

> The verification code is valid in 30 minutes. If it takes more than 30 minutes to register an account, you need to register an account again.

**Step 6** Enter the password twice, and then click **Next**.

> Make sure that the password entered twice is the same and consists of at least 8 digits.

**Step 7** Enter **First Name** and **Last Name**, select **Country/Region** and **Time Zone**, tick **I have read and agreed to Terms of Service**, and click **Register**.

**--End**

## 1.2 Login

**Prerequisite**

This section introduces the steps for plant designers to log in to the iSolarDesign system.

**Prerequisites**

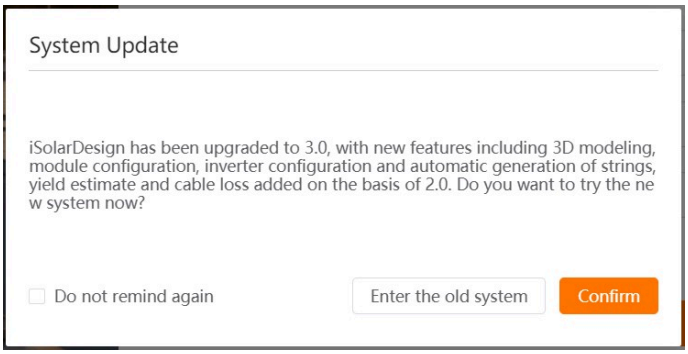
- The account and password are obtained.
- iSolarDesign works normally, and the computer can access the network.

**Procedure**

**Step 1** Enter https:// design.isolarcloud.com in the address bar of a browser. Press **Enter** to enter the iSolarDesign login interface.

**Step 2** Click in the upper right corner to switch the language.

**Step 3** Select the server address, enter the email address and password, and click **Login**. The prompt box below may pop up.




Click **Confirm** to enter the 3.1 system, and click **Enter the old system** to enter the home page of the 2.0 system. Tick **Do not remind again** and this box will not pop up later.

> Users can select **Remember Me** as needed to facilitate the next login.

**--End**

## 1.3 Logout

This section introduces the steps for plant designers to log out the iSolarDesign system.

**Prerequisites**

- Logged into the iSolarDesign system.

**Procedure**

Click **Logout** in the drop-down list of **User Account** in upper-right corner of the interface.

## 1.4 Reset Password

**Prerequisite**

This section introduces how to retrieve the password if the plant designer forgets it.

**Prerequisites**

- Already have an account.
- iSolarDesign works normally, and the computer can access the network.

**Procedure**

**Step 1** Enter https:// design.isolarcloud.com in the address bar of a browser. Press **Enter** to enter the iSolarDesign login interface.

**Step 2** Click **Reset Password** to go to the **Account and Security** interface.


**Step 3** Enter an email address and click **Next**.

**Step 4** Click **Send Verification Code.** Enter the verification code received in the mailbox and click **Next**.

> The verification code is valid in 30 minutes.

**Step 5** Enter a new password and click **Modify**.

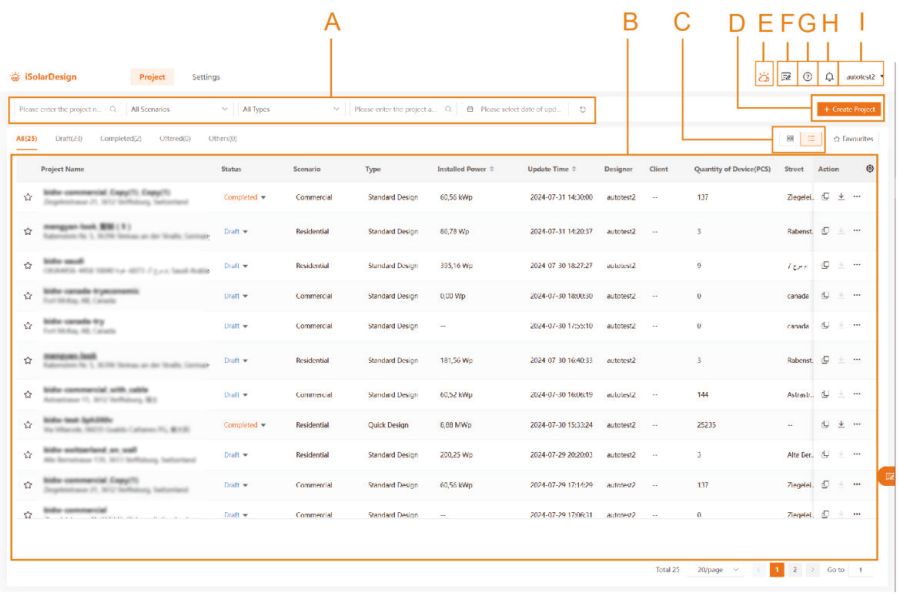
> The new password must meet the following requirements:
> **a.** The password consists of at least 8 digits.
> **b.** The password contains at least one letter and one number.

**Step 6** It is prompted that the modification is completed and the system automatically goes back to the login interface.

**--End**

# 2 Home

The home page after a successful login is as follows.



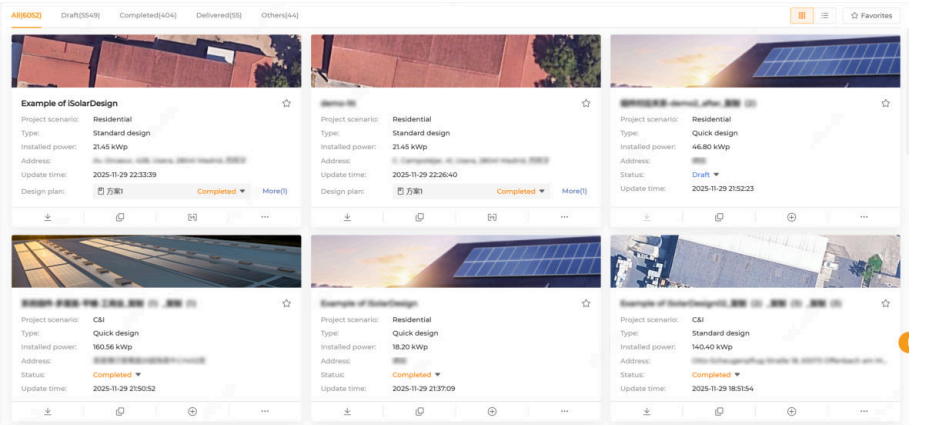

| No. | Name | Description |
|---|---|---|
| A | Search bar | Fill in conditions to search for the required projects. |
| B | Project list | The project that the user has created. See 3 Project Listfor details. |
| C | Switch between card/list display | The projects can be displayed in **Card View** or **List View**. See 3 Project List for details. |
| D | Create project | Click it to create a new project. See 4 Create Projects for details. |
| E | Go to iSolarCloud | Click to go to the iSolarCloud O&M system. |
| F | Feedback | Make suggestions for iSolarDesign on this interface. See 6 Feedback for details. |
| G | Help | Check out the **User Manual** and **Help Videos**. |
| H | Message | Click it to go to the notification interface. See 8 Messages for details. |

| No. | Name | Description |
| --- | --- | --- |
| I | User account | Display the current user account. Click it to go to the **Personal Settings** interface or to **Exit**. See 7 Personal Setting for details. |

# 3 Project List

After a successful login, users will go to the **Item** interface by default. Switching between **Card View** and **List View** is supported.

## 3.1 Card View




Projects in the card view are listed in a descending order of the latest update time and can be filtered by the project status above.

A card contains the following contents:

- **Project name**: The project name.
- **Project scenario**: Residential or C&I.
- **Installed power**: The total power of the project.
- **Address**: The address of the project. You can hover the cursor over the address to view the detailed address information.
- **Status**: The status of the project. The project status includes **Draft**, **Completed**, **Delivered**, and **Others**. Click ▼ to update the project status.

  > If the project is in the **Draft** status, the status cannot be changed.

- **Update time**: The latest update time of the project.

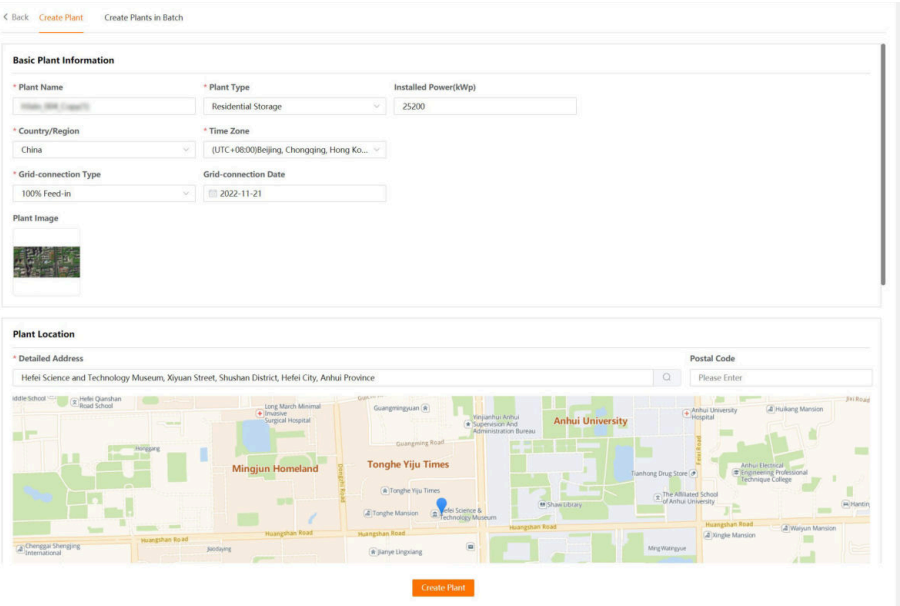
The following functions can be performed on the card:

> Some of the functions are contained in •••. Click it to expand and select the functions.

- Favorites/Remove from favorites: Click to add the project to **Favorite**, and click to remove the project from the favorites.

  > Click ☆ Favourites in the upper right corner of the page to view all the favorite projects, which are, by default, arranged in a descending order of the time they are added to the favorite list.

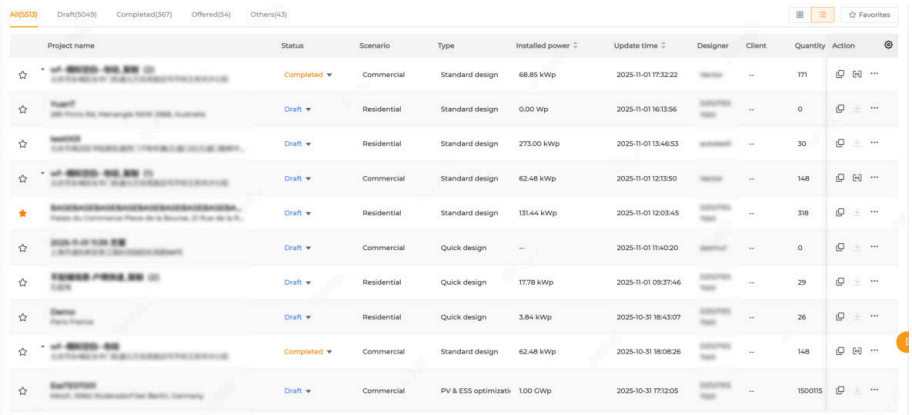
- Download: Click to download the project overview and layout.
- Copy: Click to copy the data of the current project. The name of the copied project defaults to **Project name_copy (1)**.
- **Plan comparison**: If a project has multiple plans, click to open the **Plan comparison** dialog box. After you select two plans to be compared, you will be directed to another page for detailed comparison.
- **Create plant**: Clicking it will direct you to the iSolarCloud platform. In iSolarCloud, **Basic plan information** is automatically filled. You need to enter information in **Owner information** and then click **Create plant**.




> If the project is in the **Draft** status, **Create plant** is disabled.

- **Add new plan**: Clicking it opens the **Add new plan** dialog box. After you enter the new plan name, you will be directed to the **View module layout** page, where you can design your new plans (up to five plans).
- **Share report**: Click **Share report** to send the report and layout file via email by entering the recipient name and email.
- **Delete**: Click to delete the project.

## 3.2 List View



Projects in the list view are listed in a descending order of the latest update time and can be filtered by the project status above.

The following contents are included:

- **Project name**: The project name.
- **Status**: The status of the project. The project status includes **Draft**, **Completed**, **Delivered**, and **Others**. Click ▼ to update the project status.

  > If the project is in the **Draft** status, the status cannot be changed.

- **Scenario**: Residential or C&I.
- **Type**: Either standard design or quick design.
- **Installed power**: The total power of the project.
- **Update time**: The latest update time of the project.
- **Designer**: The creator of the project.
- **Client**: The client name.
- **Creation time**: The time when the project is created.
- **Quantity of devices**: The number of inverters in the project.
- **Street**, **City**, and **Country**: The location information of the project.
- **Action**: Actions include **Copy**, **Plan comparison**, **Download**, **Create plant**, **Add new plan**, **Share report**, and **Delete**.
- **Column display**: Click ⚙ in the upper right corner of the list. Tick the columns to be displayed in the dialog box and click **Confirm**. Click **Reset** to restore the default list.

  > **Plant name** and **Action** are fixed columns and cannot be ticked.

# 4 Create Projects

**Prerequisites**

- You have logged into the iSolarDesign system.
- The computer has access to the network.

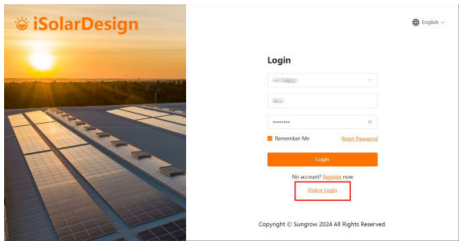
**Scenarios and Project Types**

The system applies to residential and C&I scenarios. Click the **Create project** button in the upper right corner of the page to start your design by choosing an intended scenario and a project type.

| Scenario | Project Type | Description |
|---|---|---|
| Residential | Quick design | Applicable to residential scenarios. No 3D modeling, with fast plan and report generation after project configuration. For details, see 4.1 Quick Design. |
| | Standard design | Applicable to residential scenarios. 3D modeling simulates a real environment to assist plant system design. For details, see 4.2 Standard Design. |
| C&I | Quick design | Applicable to small-scale C&I scenarios. No 3D modeling, with fast plan and report generation after project configuration. For details, see 4.1 Quick Design. |
| | Standard design | Applicable to small-scale C&I scenarios. 3D modeling simulates a real environment to assist plant system design. For details, see 4.2 Standard Design. |
| | Integrated energy system design | Capacity sizing and economic analysis of integrated PV-ESS (diesel generator) systems, supporting grid-connected, grid-connected/off-grid, and off-grid scenarios. For details, see 4.3 Integrated Energy System Design. |

## 4.1 Quick Design

- Log in as Visitor
  On the login page, click **Visitor login** to enter the **Quick design** page.



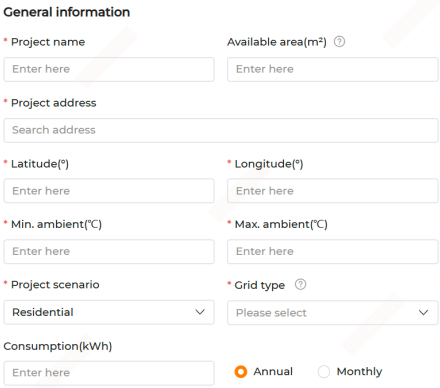

- Log in with an Account
  Log in to iSolarDesign, click **Create project** in the upper right corner, select **Residential** or **C&I** according to the desired scenario, and then select **Quick design**.

The workflow of quick design is shown below:

| Item | Description |
|---|---|
| Project information | Fill in general information of the project. See 4.2.1 General Information for details. |
| Configure PV modules | Configure PV modules and PV arrays. See 4.2.5 View Module Layout for details. |
| Electrical design | Configure inverters and strings. The system will automatically recommend plans. See 4.2.6 Electrical Design for details. |
| Generate report | Display key project information, such as overview, yield forecast, and device list. The report can be downloaded locally. See 4.2.8 Generate Report for details. |

### 4.1.1 Project Information

**Step 1** Fill in **General information**.




| Parameter | Description |
|---|---|
| Project name* | User-defined name for the project. |

| Parameter | Description |
| --- | --- |
| Available area (m²) | Available area of the site where the PV modules are installed. |
| Project address* | Specific location of the project. |
| Latitude (°)* | Auto-filled with the latitude of the project address. |
| Longitude (°)* | Auto-filled with the longitude of the project address. |
| Max. (°C)* | Maximum ambient temperature in the place where the project is located. Range: 0 to 60. |
| Min. (°C)* | Minimum ambient temperature in the place where the project is located. Range:- 40 to 30. |
| Grid type* | Select an option based on the actual number of phases and the voltage. For the voltage parameters, refer to the rated AC voltage of the specific inverter model. |

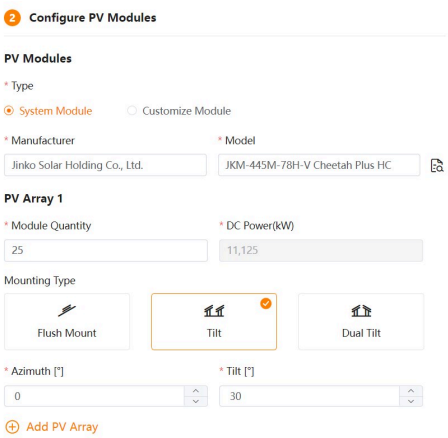
- Parameters with an asterisk (*) are required.
- To configure a project with microinverters, set the Project scenario to **Residential**, and ensure the selected **Grid type** is within the range supported by the microinverters, such as 1ph 220V.

**Step 2** (Optional) Fill in **Customer information**, including **Full name** and **Company**.

**--End**

### 4.1.2 Configure PV Modules

Complete all project information to configure modules.




**Step 1** Select a PV module type: **System module** or **Customize module**.

> Note: For users who access quick design via Visitor login, only **System module** can be selected.
> If system modules do not meet your requirements, you can customize modules.
>
> Select **Customize module**. Click  on the right. See 5.1 Custom Module for details.

**Step 2** Select a module manufacturer from the **Manufacturer** drop-down list. Select a module model from the **Model** drop-down list. Click  to view module details.

> For projects involving microinverters, modules with the following power ranges are recommended:
> - S1600S/S800S/S450S: 375 W–570 W modules.
> - S1000S: 375 W–650 W modules.

**Step 3** Set the number of modules in **Modules**.

**Step 4** Select a mounting type. Options include: **Flush mount**, **Tilt**, and **Dual tilt**.

If **Tilt** is selected, set the **Roof azimuth(°)** and **Roof tilt(°)**.
If **Dual tilt** is selected, set the **Ridge direction** and **Relative tilt**.

**Step 5** If there are multiple PV arrays, click **Add PV array** and refer to steps 2–4 for parameter configuration.

> To rename an array, click the  icon on the right and click anywhere outside the field to save the settings.

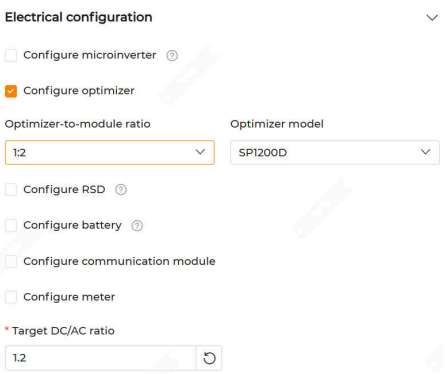
**--End**

### 4.1.3 Electrical Design

Electrical design includes electrical configuration and plan configuration.

**Step 1** Perform **Electrical configuration**. Based on site conditions, select **Configure microinverter**, **Configure optimizer**, **Configure RSD**, **Configure battery**, **Configure communication module**, and **Configure meter**, and set the **Target DC/AC ratio**.

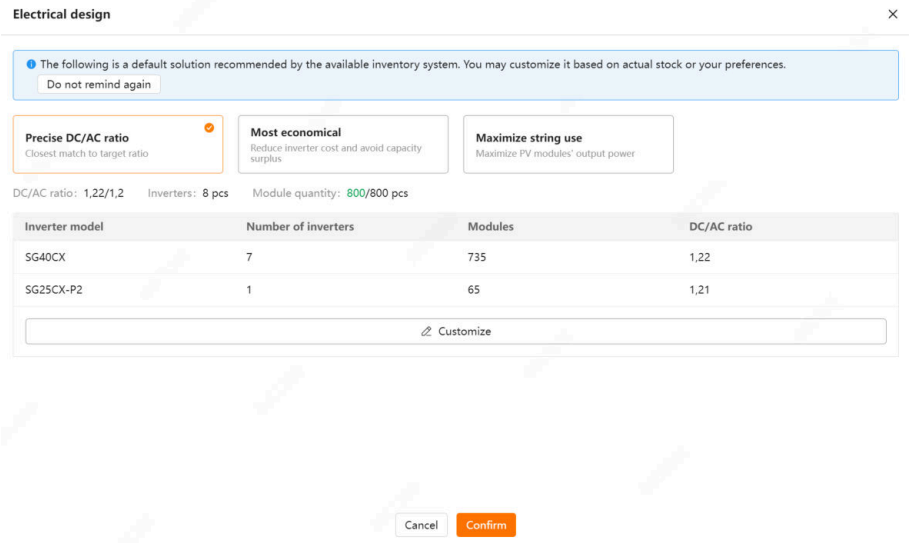
> The devices that are set up in the **Electrical configuration** section will be listed in the device list on the **Generate report** page.




- If **Configure microinverter** is selected, other options cannot be selected simultaneously, and the **Target DC/AC ratio** is 1:1 by default.
- If **Configure optimizer** is selected, set the **Optimizer type** and **Optimizer model** according to the project.
- If **Configure battery** is selected, enter the **Total capacity (kWh)**. The system will recommend an actual capacity based on the **total capacity**.

> **Total capacity (kWh)** is a required parameter. To ensure energy balance and system stability, the recommended actual capacity may differ from the target capacity. If this does not meet your requirements, you can manually adjust the plan.

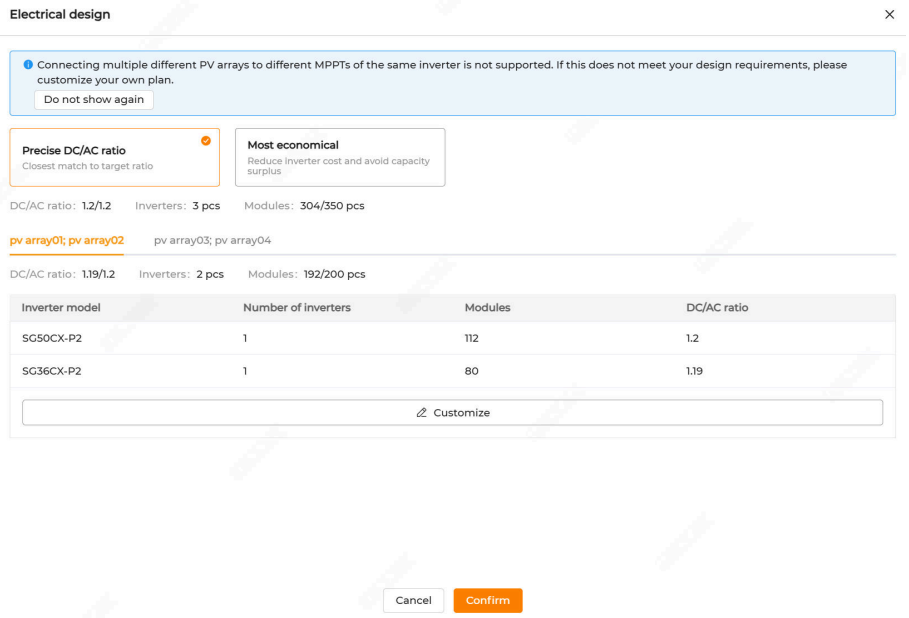
**Step 2** Perform **Electrical design**. Based on project conditions, select a system-recommended plan or customize the plan according to actual inventory or preferences.




- Precise DC/AC ratio: Closest match to the target DC/AC ratio.
- Most economical: Reduce inverter cost and avoid capacity waste.
- Maximize string use: Maximize the output power of the PV modules.

- Customize: Click **Customize** for any recommended plan to perform a custom design. You can modify, delete, add, or clear configurations.

When there are different PV arrays, the system will combine those with the same parameters, and connect them to the inverters in different groups. The grouping can be modified manually.




- System-recommended plans may vary based on module quantity and inverter power. If the number of modules or inverter power exceeds the upper limit, no recommended plan will be provided, and you can create a custom design.
- If no inverters are compatible with the current configuration, please modify the configuration list: country, grid type, PV configuration, and electrical settings.

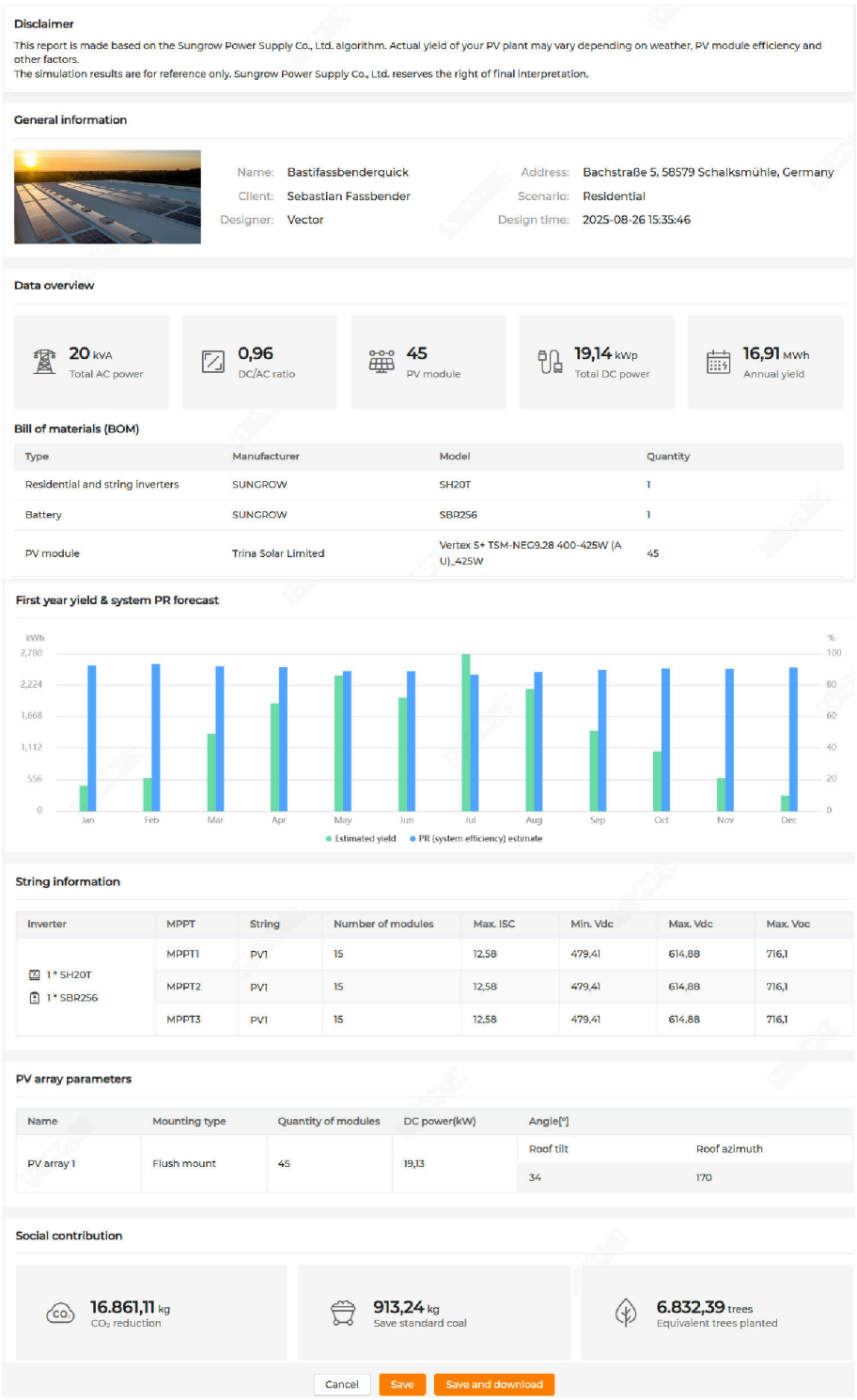
**Step 3** Click **Confirm** to go to **Quick design** and view the generated plan.

**Step 4** If needed, you can flexibly adjust the generated plan.

**--End**

### 4.1.4 Generate Report

After completing the operations specified in 4.1.1 Project Information, 4.1.2 Configure PV Modules, and 4.1.3 Electrical Design, click **Save and download**.



**Disclaimer**

This report is made based on the Sungrow Power Supply Co., Ltd. algorithm. Actual yield of your PV plant may vary depending on weather, PV module efficiency and other factors.
The simulation results are for reference only. Sungrow Power Supply Co., Ltd. reserves the right of final interpretation.

**General information**

Name: Bastifassbenderquick
Client: Sebastian Fassbender
Designer: Vector
Address: Bachstraße 5, 58579 Schalksmühle, Germany
Scenario: Residential
Design time: 2025-08-26 15:35:46

**Data overview**

20 kVA Total AC power
0,96 DC/AC ratio
45 PV module
19,14 kWp Total DC power
16,91 MWh Annual yield

**Bill of materials (BOM)**

| Type | Manufacturer | Model | Quantity |
|---|---|---|---|
| Residential and string inverters | SUNGROW | SH20T | 1 |
| Battery | SUNGROW | SBR256 | 1 |
| PV module | Trina Solar Limited | Vertex S+ TSM-NEG9.28 400-425W (AU)_425W | 45 |

**First year yield & system PR forecast**

kWh: 2,780 / 2,224 / 1,668 / 1,112 / 556 / 0
%: 100 / 80 / 60 / 40 / 20 / 0
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec
Estimated yield
PR (system efficiency) estimate

**String information**

| Inverter | MPPT | String | Number of modules | Max. ISC | Min. Vdc | Max. Vdc | Max. Voc |
|---|---|---|---|---|---|---|---|
| 1 * SH20T<br>1 * SBR256 | MPPT1 | PV1 | 15 | 12,58 | 479,41 | 614,88 | 716,1 |
| | MPPT2 | PV1 | 15 | 12,58 | 479,41 | 614,88 | 716,1 |
| | MPPT3 | PV1 | 15 | 12,58 | 479,41 | 614,88 | 716,1 |

**PV array parameters**

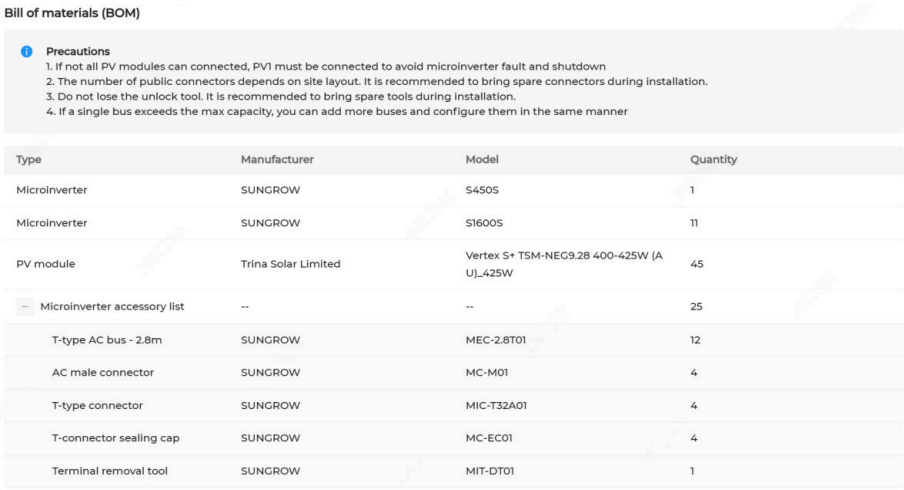
| Name | Mounting type | Quantity of modules | DC power(kW) | Angle[°] | |
|---|---|---|---|---|---|
| | | | | Roof tilt | Roof azimuth |
| PV array 1 | Flush mount | 45 | 19,13 | 34 | 170 |

**Social contribution**

16.861,11 kg $CO_2$ reduction
913,24 kg Save standard coal
6.832,39 trees Equivalent trees planted

Cancel Save Save and download

If microinverters are configured, the **Device list** also includes microinverter accessories.



Bill of materials (BOM)

Precautions
1. If not all PV modules can connected, PV1 must be connected to avoid microinverter fault and shutdown
2. The number of public connectors depends on site layout. It is recommended to bring spare connectors during installation.
3. Do not lose the unlock tool. It is recommended to bring spare tools during installation.
4. If a single bus exceeds the max capacity, you can add more buses and configure them in the same manner

| Type | Manufacturer | Model | Quantity |
|---|---|---|---|
| Microinverter | SUNGROW | S450S | 1 |
| Microinverter | SUNGROW | S1600S | 11 |
| PV module | Trina Solar Limited | Vertex S+ TSM-NEG9.28 400-425W (A U)_425W | 45 |
| − Microinverter accessory list | -- | -- | 25 |
| T-type AC bus - 2.8m | SUNGROW | MEC-2.8T01 | 12 |
| AC male connector | SUNGROW | MC-M01 | 4 |
| T-type connector | SUNGROW | MIC-T32A01 | 4 |
| T-connector sealing cap | SUNGROW | MC-EC01 | 4 |
| Terminal removal tool | SUNGROW | MIT-DT01 | 1 |

## 4.2 Standard Design

Log in to iSolarDesign, click **Create project** in the upper right corner, select **Residential** or **C&I**, and then select **Standard design**.

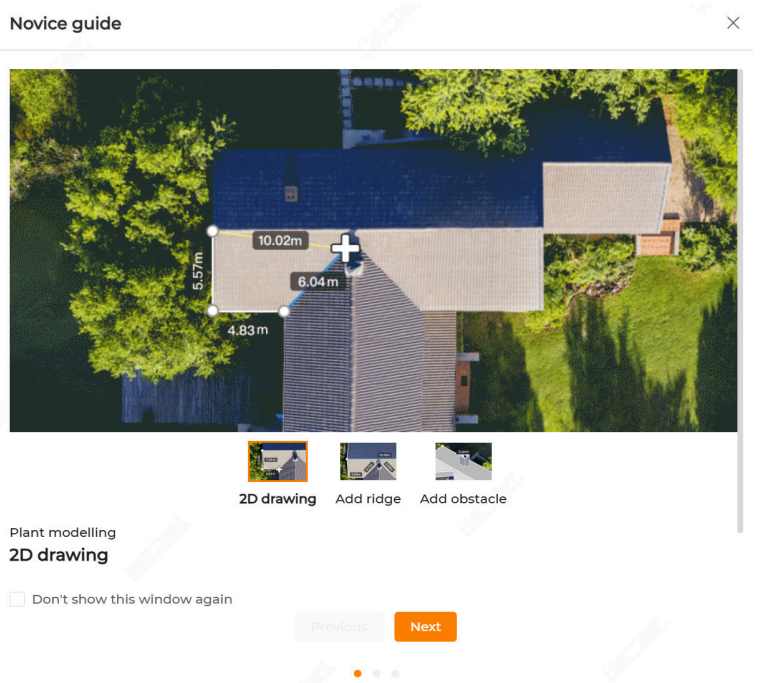
The workflow of quick design is shown below:

| Item | Description |
|---|---|
| General information | Fill in general information of the project. See 4.2.1 General Information for details. |
| Tariff and load settings | Set the tariff, load, and power consumption settings. Energy storage strategy is available in C&I ESS scenarios. See 4.2.3 Tariff and Load Settings for details. |
| Plant modeling | Draw the system layout and switch between 2D and 3D views. See 4.2.4 Plant Modeling for details. |
| View module layout | Configure PV modules on the roof. See 4.2.5 View Module Layout for details. |
| Electrical design | Complete the inverter and string configuration and check the DC- and AC-side cable loss. See 4.2.6 Electrical Design for details. |
| Economic analysis | Provide the data of project cost to check the possible cost of plant design. See 4.2.7 Economic Analysis for details. |
| Generate report | Display key project information, such as overview, device list, as well as yield and revenue forecast. The report can be downloaded locally. See 4.2.8 Generate Report for details. |

### 4.2.1 General Information

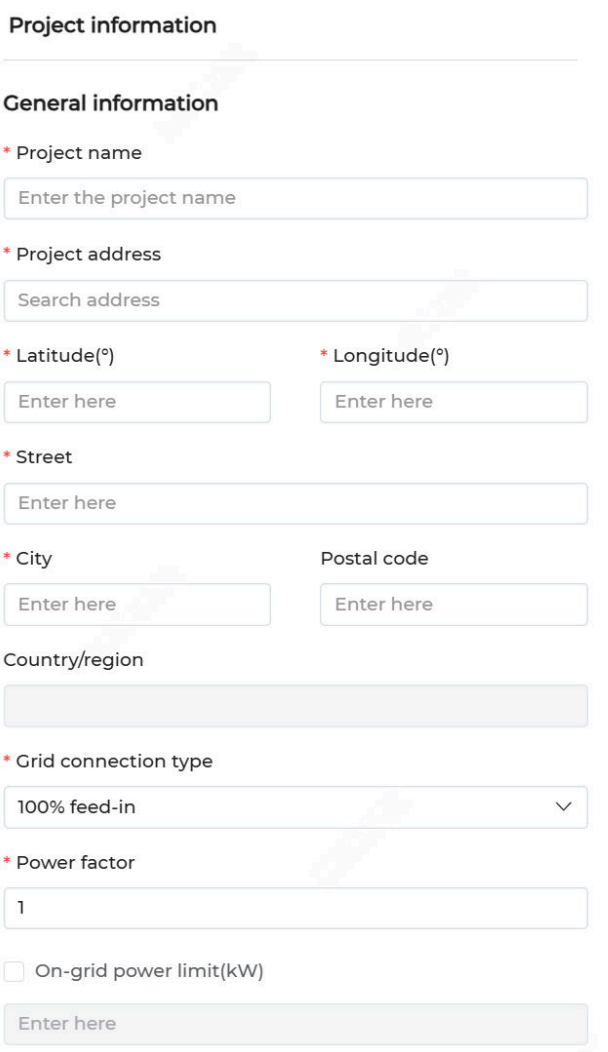
#### Prerequisite

#### Novice Guide




After clicking **Standard design**, the **Novice guide** window will pop up. This helps you understand how to work with the key functions.

**Step 1** Fill in **General information** of the project.

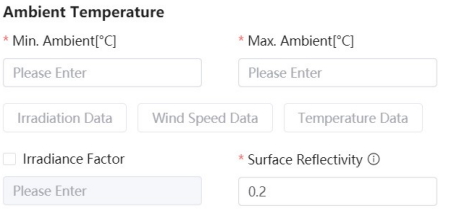



| Parameter | Description |
|---|---|
| Project name* | User-defined name for the project. |
| Project address* | Set the specific address of the project. You can scroll the mouse wheel to zoom in or out and drag the map to aim the site with the location icon. |
| Latitude (°)* | Auto-filled with the latitude of the project address. |
| Longitude (°)* | Auto-filled with the longitude of the project address. |
| Street, City* | The street and city where the project is located, which can be automatically generated after the project address is confirmed. |
| Postal code | The postal code of the user's address. |

| Parameter | Description |
| --- | --- |
| Grid connection type* | Select **100% feed-in**, **Self-consumption**, **Zero export**, or **Off-grid** as needed. |

Parameters with an asterisk (*) are required.

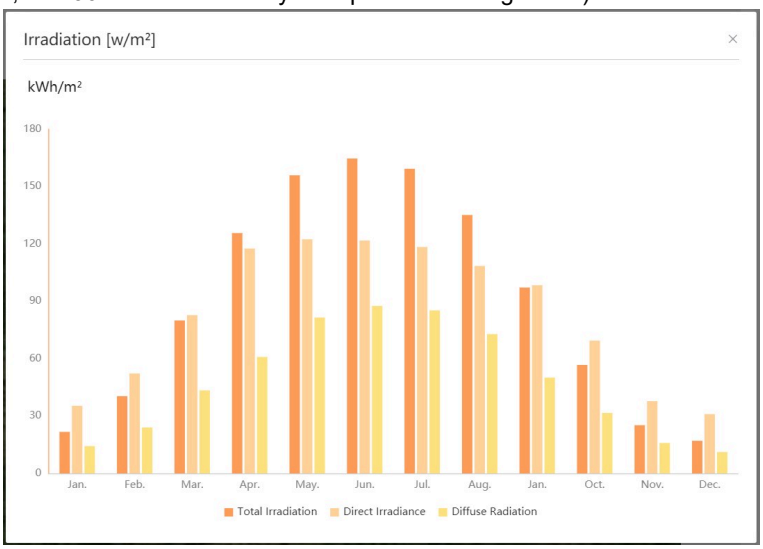
**Step 2** Fill in **Ambient temperature**.



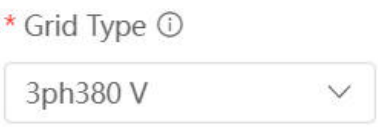

| Parameter | Description |
| --- | --- |
| Min./Max.* | The lowest/highest ambient temperature allowed at the project location.<br>After the project location is set, the minimum/maximum temperature of the project location is automatically filled in. You can also specify or adjust the temperature in the input box. |
| Irradiance data, Wind speed data, Temperature data | After filling in the address, click **Irradiation data**, **Wind speed data**, and **Temperature data** to see the estimated value of the data for one year. |

Parameters with an asterisk (*) are required.

**Irradiance data** includes direct normal irradiance (DNI), diffuse horizontal irradiance (DHI), and global horizontal irradiance (GHI).
GHI is defined as the total solar irradiance received on a horizontal surface at ground level, including both DNI and DHI. Formula: GHI = DHI + (cosθ × DNI) (where θ is the solar zenith angle, 0° indicates the sun's rays are vertical to the ground, and 90° indicates the rays are parallel to the ground.)




**Step 3** Select the **Grid type**. Click and select an option based on the actual number of phases and the voltage. For the voltage data, refer to the rated AC voltage of the specific model of the inverter.




**Step 4** (Optional) Fill in the **Customer information**, including **Full name** and **Company**. You can also add remarks here.

**Step 5** (Optional) Upload **Attachment**: Select a file or drag and drop it into the attachment box to upload. The uploaded file can be downloaded locally.

**Step 6** Click **Next** to finish the project configuration.

**--End**

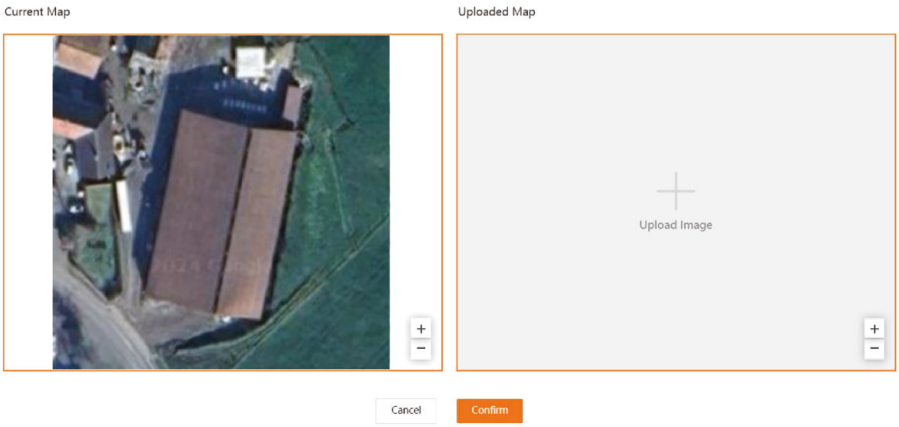
### 4.2.2 Uploading Map

**Prerequisite**

If the roof image taken from the map does not assist the user in drawing the roof, the user can upload the map for adjustment.

> Before uploading the map, input the project address to determine the roof image.

**Step 1** Click to upload the map. The interface is shown in the figure below.




**Step 2** Click **Upload image** and select a local image.

**Step 3** After uploading the map, place the two anchor points and on the current map and the uploaded map at the same positions to mark the same coordinates.

**Step 4** Click **Confirm**.

**--End**

### 4.2.3 Tariff and Load Settings

**Step 1** Select whether to enable **Energy storage strategy** (disabled by default). If enabled, you must configure the following parameters.

> If the project involves a C&I ESS scenario, enable **Energy storage strategy**.


a. Select a strategy. Options include **Self-consumption** and **Self-consumption + time plan**.

b. Set the **Threshold on power purchase (demand control) (kW)** and **Threshold on power feed-in (demand control) (kW)**.

c. **Advanced settings**, including **ESS settings** and **Energy storage degradation**. Default values are provided. You can click **Edit** to modify them as needed.

**Step 2** Configure **Grid connection settings**. You can select **Grid-connected** (default) or **Grid-connected/off-grid**.

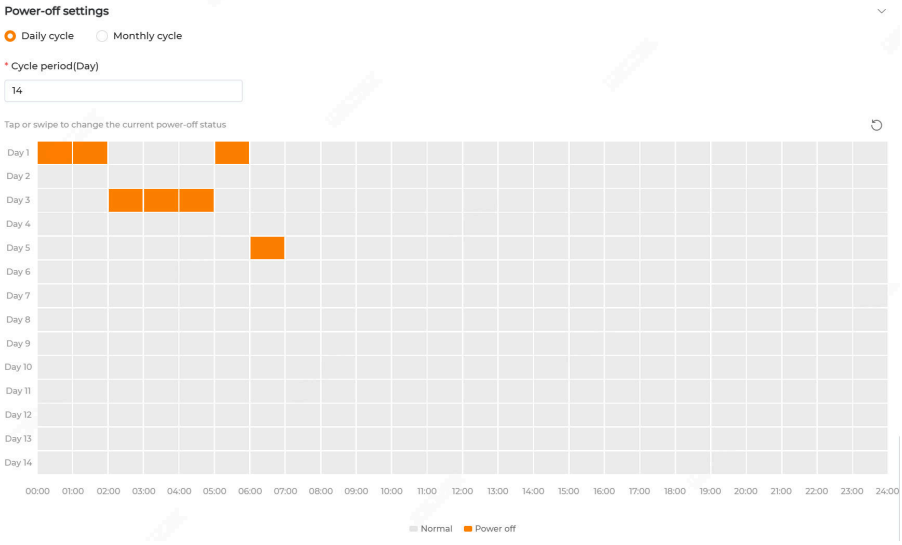
**Step 3** Configure **Tariff settings**. For details, see 4.2.3.1 Tariff Setting.

**Step 4** Configure **Load settings**. For details, see 4.2.3.1 Tariff Setting.

**Step 5** Configure **Power-off settings**.

> When **Grid-connected/off-grid** is selected in the **Grid connection settings** section, **Power-off settings** must be configured.

- Daily cycle: Set the **Cycle period (Day)**. The system automatically generates the day-time table shown below. Click time slots to configure the normal/power-off schedule for each day within the cycle.




- Monthly cycle: In the month-time table, click time slots to configure the power-off plan for each month of the year.

**Step 6** After completing the tariff and load settings, click **Next**.

**--End**

### 4.2.3.1 Tariff Setting


**Step 1** Define **Feed-in tariff**, which is the price of PV yield transmitted to the grid.

**Step 2** Define **Power purchase tariff**, which is the price of energy purchased from the grid.

**a.** Choose **Tariff type** from the options **Fixed tariff** or **Time-of-use tariff**.

**b.** With **Fixed tariff**, set up **Power purchase tariff** and **Charge basis**. **Charge basis** includes **Demand charge** and **Capacity charge**.

**c.** With **Time-of-use tariff**, set **Charge type** to **Demand charge** or **Capacity charge**.

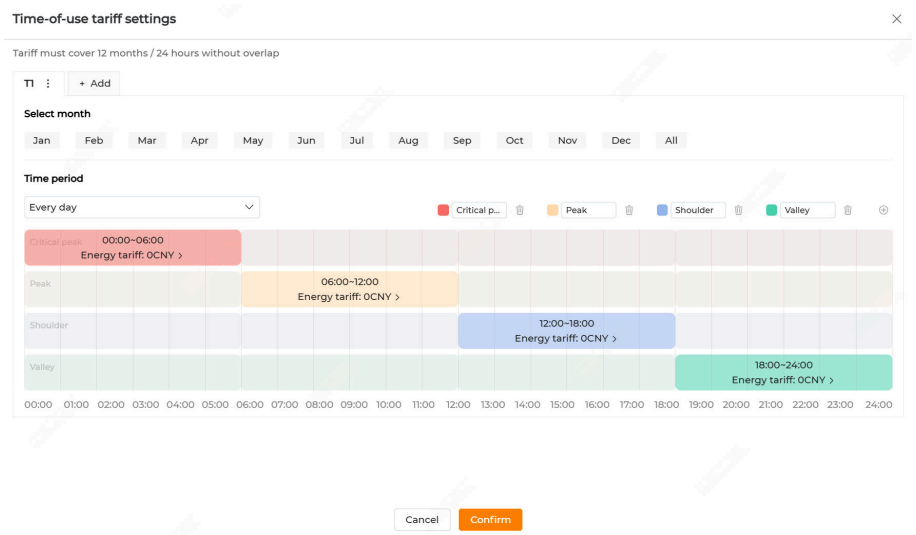
- In case of a demand charge, set **Maximum demand mode** to **Monthly demand cost** or **Time-of-use demand charge**. For the monthly demand cost, set **Monthly demand tariff**.
- In case of a capacity charge, set **Transformer capacity**.

You can follow the two methods below to configure the time-of-use tariff.

> The tariff must cover 12 months or 24 hours and cannot overlap.

Method 1:

**1.** Click the icon on the right.




2. Select the months to be configured.
3. In the **Time period** dropdown list, set the time plans for **Every day** or **Working days & non-working days**.
4. To add a time plan, click on a vacant time slot in the time period. To modify the duration of an existing time plan, drag and drop it to the left or right.
5. Click on a time plan to fill in the energy tariff for the time slot.

> If **Maximum demand mode** is set to **Time-of-use demand charge**, define the **Demand charge** for each time slot.

Method 2:

If a tariff template is pre-configured, click **Tariff template**, choose one, and import.

**Step 3** Choose the tariff growth rate from the options **Fixed growth rate** or **Custom growth rate**. It is used to estimate the annual growth rate of energy purchases.

**--End**

### 4.2.3.2 Load Settings

**Step 1** Choose how you want to configure the load, including **Model generation**, **Import load profile**, and **Enter tariff bill**.

**Step 2** When you work with **Model generation**:

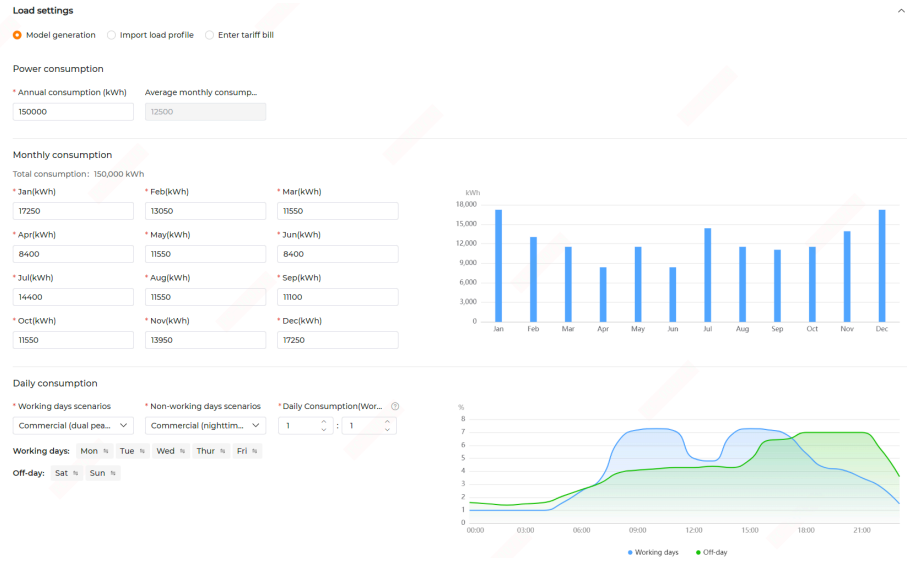
a. Set the **Annual consumption**, and the system will automatically calculate the average monthly consumption.

b. **Monthly consumption** is calculated based on annual consumption and specific consumption scenarios. If the annual consumption data is updated, the monthly consumption will be recalculated accordingly.

c. Set the **Working days scenarios** and **Non-working days scenarios** according to the electricity demand peak hours each day.

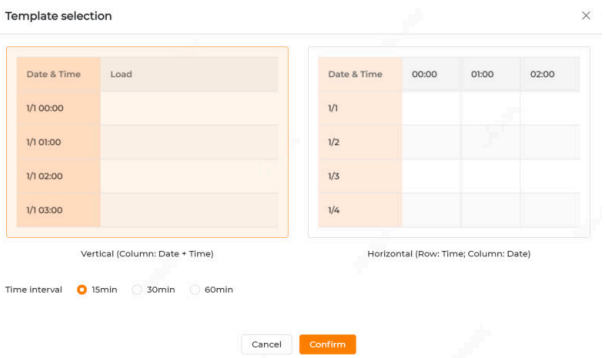
**d.** Define **Daily consumption (workday: non-working day)**, which is used to compare the average daily electricity consumption on working days and non-working days to support the time-based allocation of power resources.

Once the settings are completed, you can view the forecast for monthly and daily energy use on the page.




**Step 3** When you work with **Import load profile**, click or drag a file to the upload section to import the load data.

> If you do not have a template, you can obtain it by choosing the option **Click to download template**. Importing electricity consumption data of less than one year is allowed, and the missing data will be automatically filled to cover a whole year.




**Step 4** When you work with **Enter tariff bill**:

**a.** Define **Monthly consumption** and **Max. demand** of each month. Upon completion, the pages display the electricity usage and the maximum demand curve.

**b.** In **Advanced settings**, set up **Maximum load power**, **Minimum load power**, and **Average load power**.

c. Based on the electricity demand peak hours each day, set the **Working days scenarios** and **Non-working days scenarios**, and define **Daily consumption (workday: non-working day)**.

> If the data is incomplete, please enter the data spanning at least one month, and the missing data of other months will be automatically filled to ensure data continuity.

**--End**

### 4.2.4 Plant Modeling

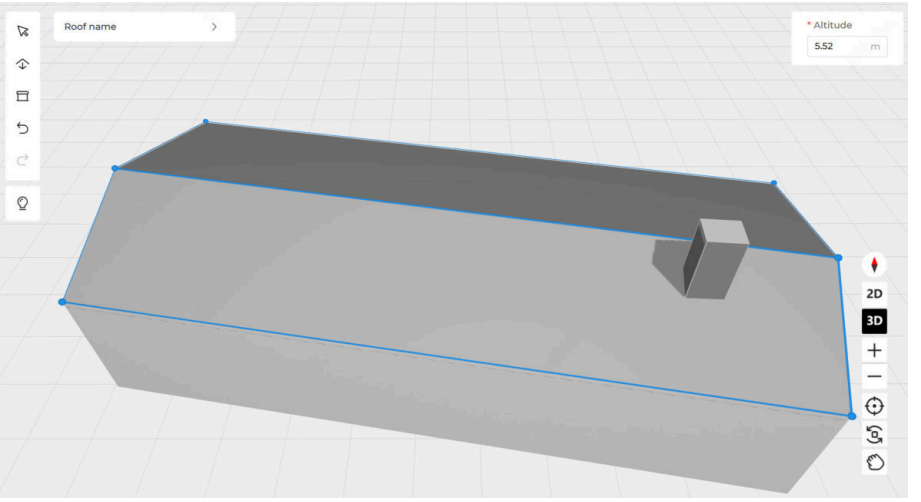
Use **Plant modeling** to draw graphics on the selected pictures, indicating the edges of and obstacles on the roof, adjusting the scale, removing the background, switching between 2D/3D views, etc. The interface is shown below:


A. Operation bar B. Drawing area C. Map options

**Operation Bar**

- : Select. Click to select a line segment or a node, and drag and drop it.
  - In 2D view: You can modify the length of a selected line segment, or drag an endpoint or line segment in any direction to adjust the roof shape.


- In 3D view: You can modify the roof height in three methods:
  - Drag a selected line segment up or down to raise or lower the two points on that edge by the same distance.
  - Double-click an endpoint and drag it up or down to move the entire roof up or down by the same height. Rooftop obstacles will be automatically recalculated and adjusted based on the new height.
  - Select an endpoint and enter a height value.




- Hold the Ctrl key and choose individual points, line segments, and obstacles by single clicks, or select them in batch by mouse drag.

- : Draw. Two methods are available:
  - : Click **Polyline drawing** to draw a complex rooftop to reflect its real shape.

Select any points on two edge lines to draw the ridge line.

- : Use **Rectangle corner to corner** to create rectangles.

- : Obstacle. Click to draw obstacles on the picture.

  In 2D view, you can copy, paste, rotate, and move obstacles.

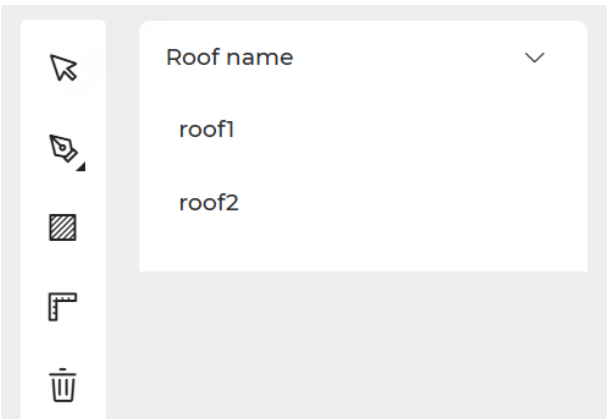
- : Scale. Click and select a line segment to modify the length, and the remaining line segments and obstacles will be scaled accordingly.
- : Delete. Click to delete the selected object.
- : Background. Click to remove or keep the background.
- : Undo. Click to go back to the previous step.
- : Redo. Click to resume the undo step.
- : Zoom in. Click to enlarge the drawing area.
- : Restore. Click to restore to the initial state.

**Drawing Area**

A 2D view of the project location is displayed by default. If you upload a map in **Project information**, the satellite map is displayed overlapping with the uploaded map according to the positioning points.

**Roof Name**

A roof is named automatically after drawing. To modify the name, choose the roof and then click to define a custom name.




**Map Options**

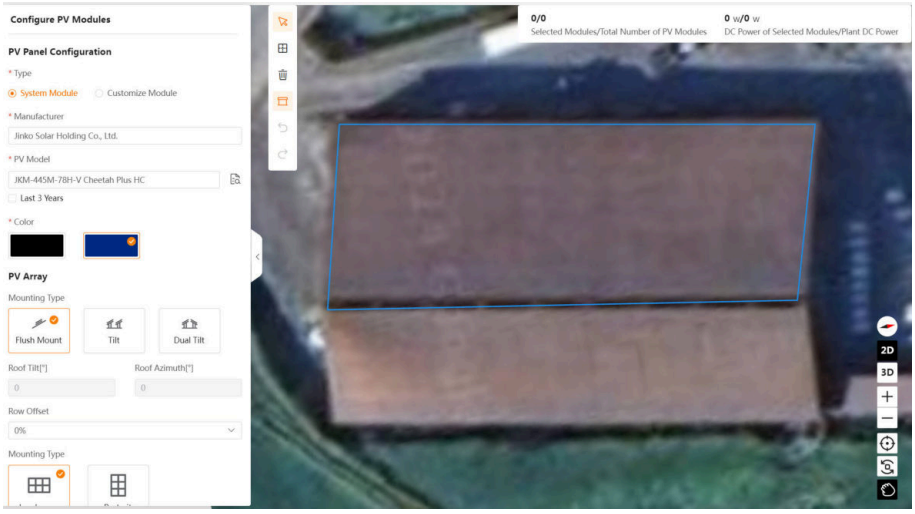
- : Orientation, indicating the orientation of the current view. The view automatically adjusts to north up and south down when you click it.

- 2D : Click it to switch to the 2D view.
- 3D : Click to switch to the 3D view.
- : Reset the view. Click to reset the orientation of the view, and place the drawing area in the middle of the picture.
- : Zoom in. Click it or scroll the mouse wheel forward to enlarge in the view.
- : Zoom out. Click it or scroll the mouse wheel back to shrink the view.
- : Rotate the view. After clicking it, press and hold the left mouse button in the drawing area to rotate the view.
- : Move horizontally. After clicking it, press and hold the left mouse button to move the view.
- : Reset the height. In the 3D view, click to reset the height of all objects in the drawing area.

### 4.2.5 View Module Layout

#### Prerequisite

**View module layout** allows you to deploy PV modules on the roof drawn in 4.2.4 Plant Modeling.




**Step 1** Fill in the information in **PV module configuration**.

- Select a PV module type: **System module** or **Customize module**.

> If system modules do not meet your requirements, you can customize modules, by selecting **Customize module** and clicking on the right. For details, see 5.1 Custom Module.

- Select a module manufacturer from the **Manufacturer** drop-down list.
- Select the module model from the **PV module model**. You can click to view the details about the selected PV module.
- Select the **Color** of the PV modules.
- Select **Loss analysis**, which by default is disabled. Once enabled, it allows you to specify **Dust loss (%)**, **Diode loss (%)**, and **Backsheet irradiance loss (%)**.

**Step 2** Fill in the **PV subarray** information.

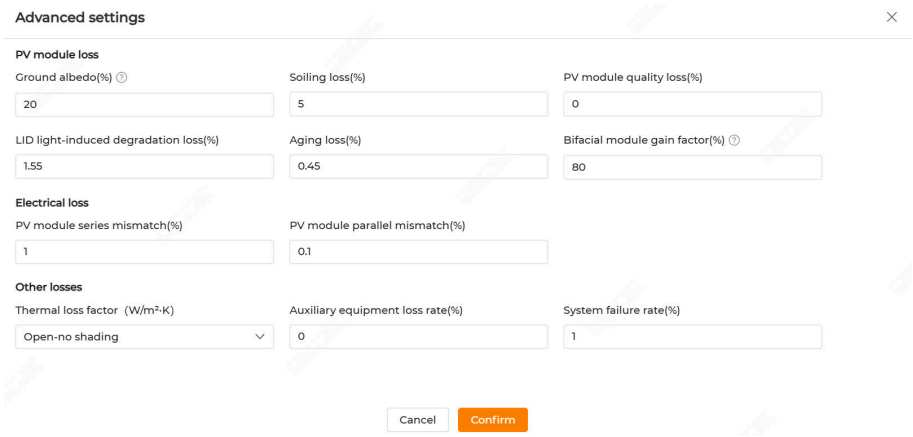
- According to the root orientation, select one of the following **Mounting type**: **Flush mount**, **Tilt**, or **Dual tilt**.
  - If you select **Flush mount**, choose **Offset**.
  - If you select **Tilt**, fill in **PV module azimuth**, **PV module tilt**, **Frame size**, and **Height**.
  - If you select **Dual tilt**, fill in **Ridge orientation** and **Relative tilt**.
- Set the module layout as **Horizontal** or **Vertical**. Fill in the **Column spacing**, **Row spacing**, and **Distance from obstacles/edge**.

**Step 3** Select a roof. Click **Manual arrangement**, click it with the left mouse button, and drag to create PV module layout as you want. Click **Automatic arrangement** to fill the whole roof with modules.

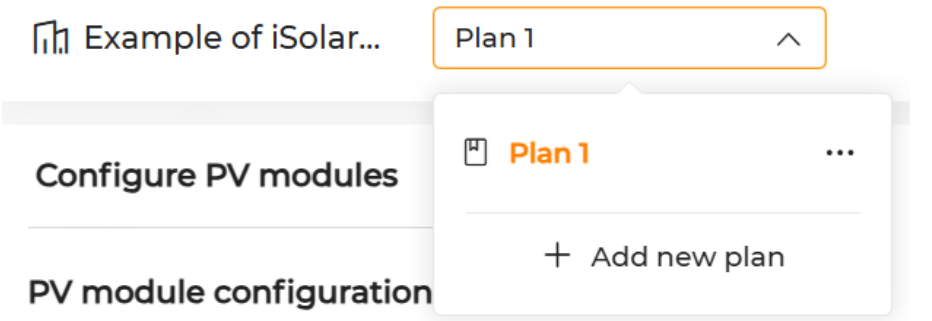
When you work with **Manual arrangement**, click to draw guides to divide the roof into different areas for module configuration as shown below.


You can select any one of the PV modules to copy, move, delete, rotate and adjust accordingly for precision.

**Step 4** Click **Advanced settings** to define information like PV module loss, electrical loss, and other loss.




**Step 5** Plan comparison is available for the standard design. To add a new plan, click the **Plan** field in the upper left corner and click **Add new plan** to define a plan name. You can add, modify, and delete plans if needed.




**Step 6** Click **Configure PV modules**, and then click **Next**.

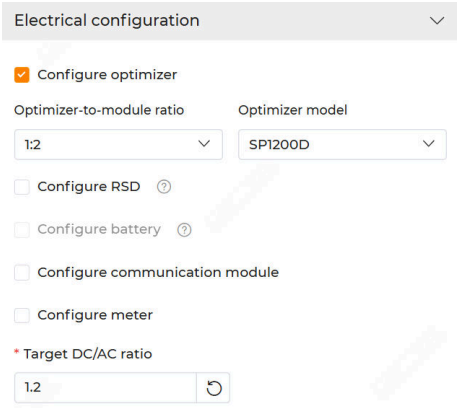
**--End**

### 4.2.6 Electrical Design

Go to "Electrical Design" after finishing PV module arrangement and complete the electrical configuration (DC and AC sides). After this, you can check the wiring distance between different devices and the power loss.

#### 4.2.6.1 Electrical Configuration

**Step 1** Perform **Electrical configuration**. Based on site conditions, select **Configure optimizer**, **Configure RSD**, **Configure communication module**, and **Configure meter**, and set the **Target DC/AC ratio**.




- If **Configure optimizer** is selected, set the **Optimizer type** and **Optimizer model** according to the project.
- In the case of energy storage, the system will recommend the optimal total storage capacity.

> **Total capacity (kWh)** is a required parameter.
> **Actual capacity**: In manual designs, the total battery capacity is automatically calculated based on the actual designs. To ensure energy balance and system stability, the recommended actual capacity may differ from the target capacity. If this does not meet your requirements, you can manually adjust the plan.

**--End**

#### 4.2.6.2 Configure Inverters and Strings

**Step 1** Click **Start design** to open the **Electrical design** window.

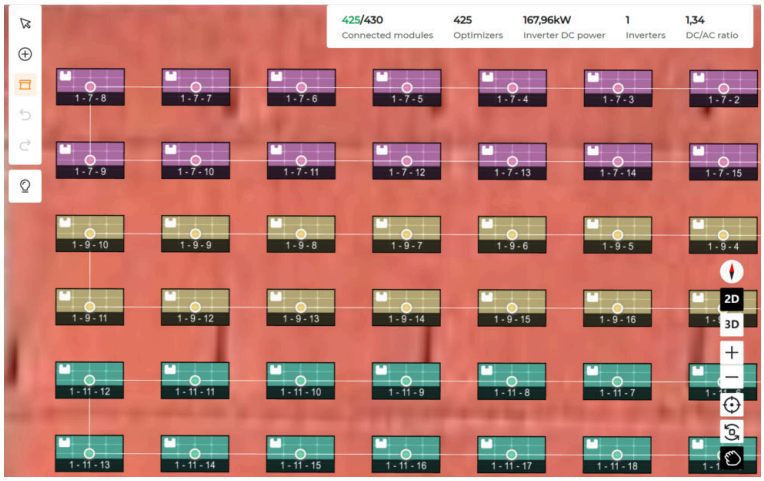
**Step 2** Based on project conditions, select a system-recommended plan or customize the plan according to your actual inventory or preferences.

- Precise DC/AC ratio: Closest match to the target DC/AC ratio.
- Most economical: Reduce inverter cost and avoid capacity waste.
- Maximized string use: Maximize PV modules' output power.
- Customize: Click **Customize** for any recommended plan to perform a custom design. You can modify, delete, add, or clear configurations.

> - System-recommended plans may vary based on module quantity and inverter power. If the number of modules or inverter power exceeds the upper limit, no recommended plan will be provided, and you can create a custom design.
> - If no inverters are compatible with the current configuration, please modify the configuration list: country, grid type, PV configuration, and electrical settings.
> - When there are multiple roofs, the system will combine the PV arrays with the same parameters, and connect them to the inverters in different groups. The grouping can be modified manually.

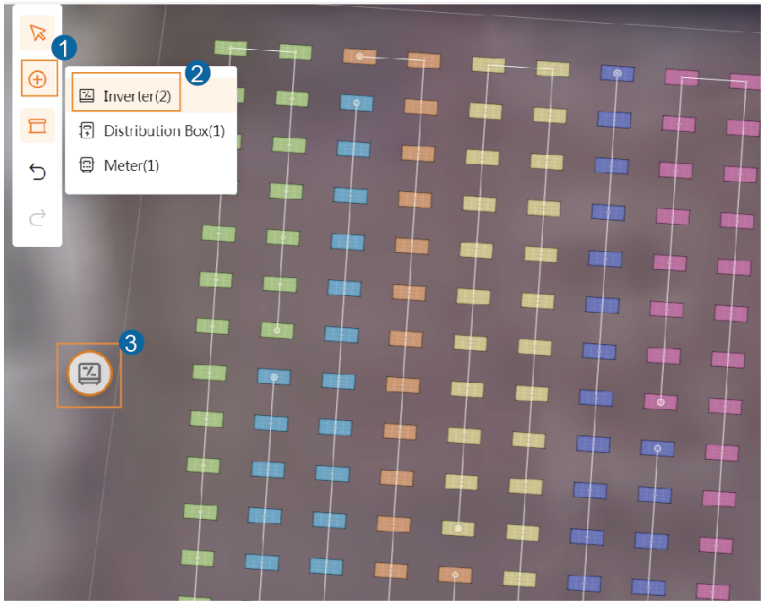
**Step 3** Click **Confirm**. The generated plan will be displayed on the page, and the module connections will be automatically created on the right.

> If optimizers/RSDs are configured, short codes will be automatically generated for modules on the right after the plan is generated, as shown in the following figure:



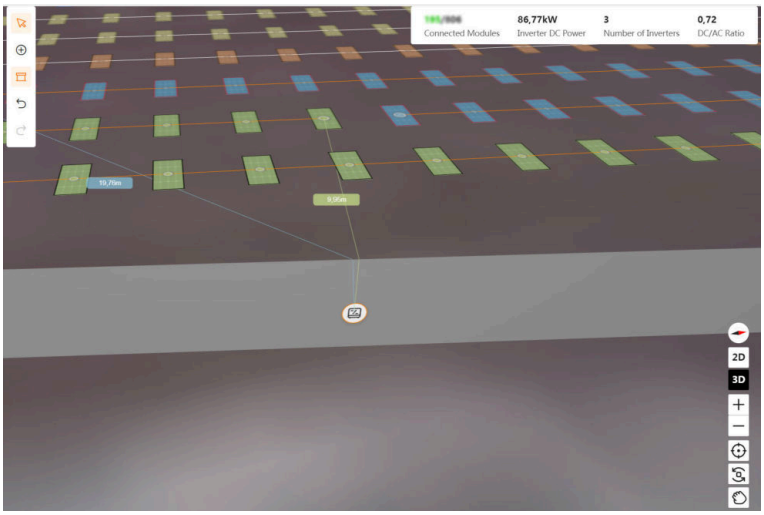

**Step 4** If needed, you can click **Edit plan** to flexibly adjust the generated plan.

**Step 5** Click ⊕ in the toolbar to add other devices to the canvas and check the wiring.

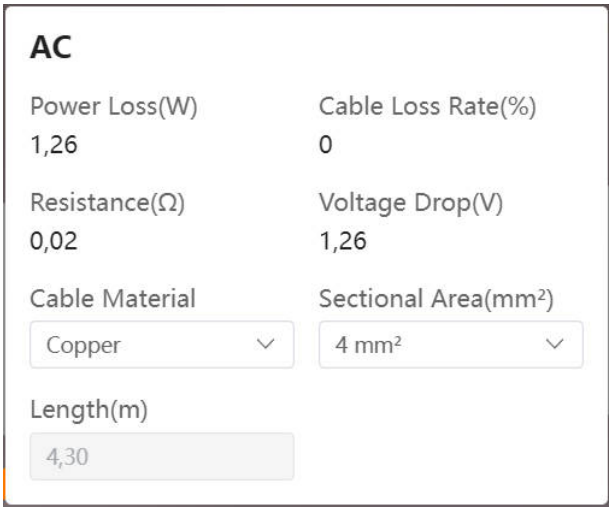



You can drag and drop the device to a proper position in the canvas.
After adding all inverters and distribution boxes/grid-connection cabinets to the canvas, you can view the power loss information.

**Step 6** Click **3D** to move the inverter to the wall and view the design in a 3D perspective.




**Step 7** Select a cable to check its power loss and other information. Below is an example of an AC cable.

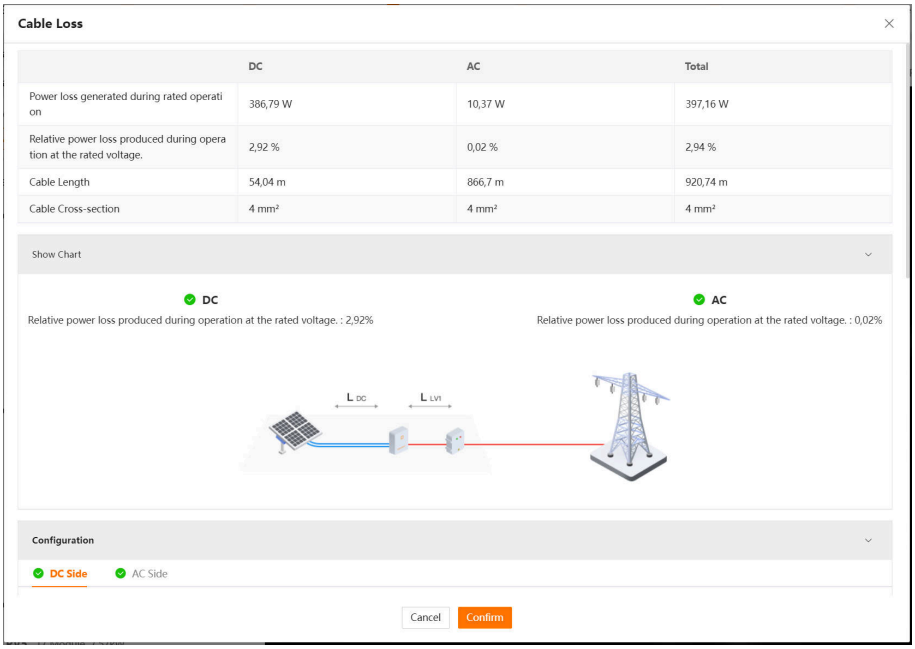



**--End**

### 4.2.6.3 Cable Loss

Click **Loss Calculation** on the left to check the **Cable Loss**.

- **DC**: Cable loss from the module to the inverter.
- **AC**：Residential: cable loss from the inverter to the power distribution box; commercial: cable loss from the inverter to the grid-connection point.

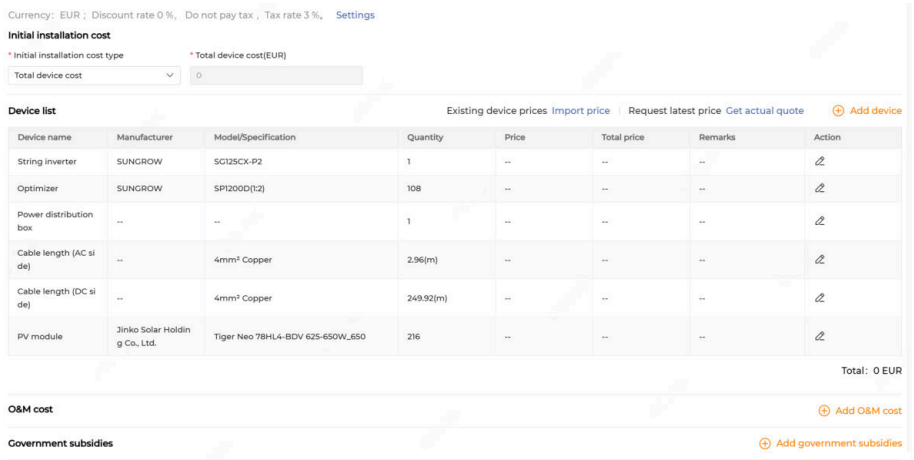



You can set the materials and specifications of the cables used on the DC side and AC side. The system will then calculate the **Resistance**, **Power Loss**, **Voltage Drop**, and **Cable Loss Rate** of the cables accordingly.

> ⚠ in the status column indicates an overly high cable loss. In this case, it is suggested to adjust the cable parameters or the position of the inverter.

### 4.2.7 Economic Analysis

You can provide the project cost in **Economic analysis** to evaluate the possible cost of the plant design.




**Step 1** Click **Settings** and define **Basic economic parameters**.

| Parameter | Description |
| --- | --- |
| **Currency** | Select the common currency in the place where the project is located. |
| **Discount rate (%)** | It is used to discount expected future earnings back to their present value. When the future earnings are certain, the lower the discount rate, the higher the present value. Changes in the discount rate will result in huge differences in asset valuation results. |
| **Pay tax or not** | If **Yes** is selected, set the **Tax rate (%)**. |
| **Tax rate (%)** | National income tax rate. |

**Step 2** Set the **Initial installation cost**.

| Type | Description |
| --- | --- |
| **Fixed price** | Enter the price. |
| **Total device cost** | Provide the unit price of the device in **Device list**. The **Total device cost** will then be auto-filled by the system. |
| **Price per watt** | Enter the price per watt in **PV system cost** and **ESS cost**. The system will then calculate the **Initial installation cost** automatically. |

**Step 3** Maintain the device list.

Two methods are available:

- Click  in the **Action** column of a device in the **Device list** to edit the unit price or add remarks for the device.

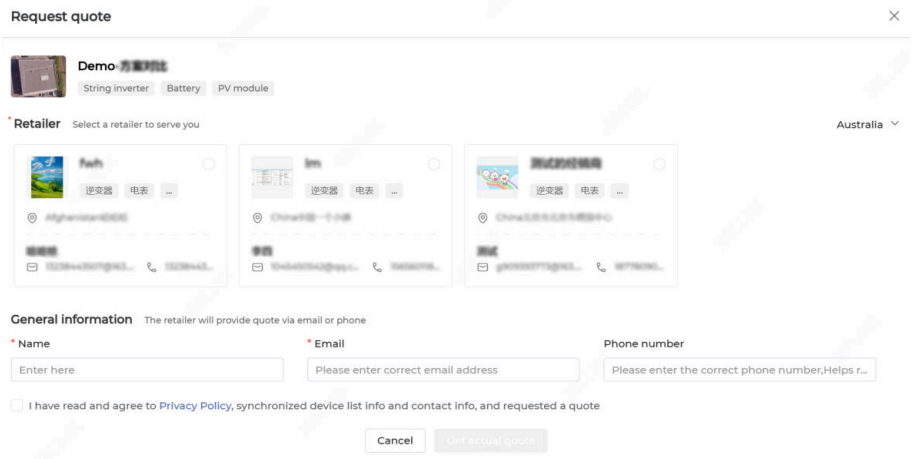
  > **Sync to "Device price" list in "Settings"**: If this option is selected, this change will be saved in **Settings > Device price** for reuse next time.

- Import from the device price list.
  - If the device price list is updated, click **Import price** to input the unit price to the system.
  - If the device price list is not updated, clicking **Go to set** directs you to **Settings > Device price**, where you can click **Add device** to update the price.

To add a new device, click **Add device**.

Request the latest device price:

> It is supported only on the Australian server.




a. Click **Request latest price**.
b. Select a retailer.
c. After filling in the general information, the retailer will provide a quotation via email or phone.

**Step 4** Define **O&M cost**. Specify the **PV O&M cost** and **ES O&M cost**, and the system will calculate **Total O&M cost**.

**Step 5** If any subsidies are granted by the government to the project, click **Add government subsidies** to add the relevant information.

| Subsidy Type | Description |
|---|---|
| **Fixed subsidy** | a. Select **Yes** or **No** in **Pay tax or not**.<br>b. Set the **Max. subsidy**. |
| **Based on installation cost** | a. Select **Yes** or **No** in **Pay tax or not**.<br>b. Set the **Subsidy proportion (%)**.<br>c. Set the **Max. subsidy**. |
| **Based on yield** | a. Select **Yes** or **No** in **Pay tax or not**.<br>b. Set the **Subsidy period (year)**.<br>c. Set the **Subsidy per kWh**. |
| **Based on installed capacity** | a. Select **Yes** or **No** in **Pay tax or not**.<br>b. Set the **ROI** (return on investment).<br>c. Set the **Max. subsidy**. |
| **Based on battery capacity** | You cannot select this option if there is no battery in the device list.<br>a. Select **Yes** or **No** in **Pay tax or not**. |

| Subsidy Type | Description |
| --- | --- |
| | **b.** Set the **Subsidy proportion**.<br>**c.** Set the **Max. subsidy**. |

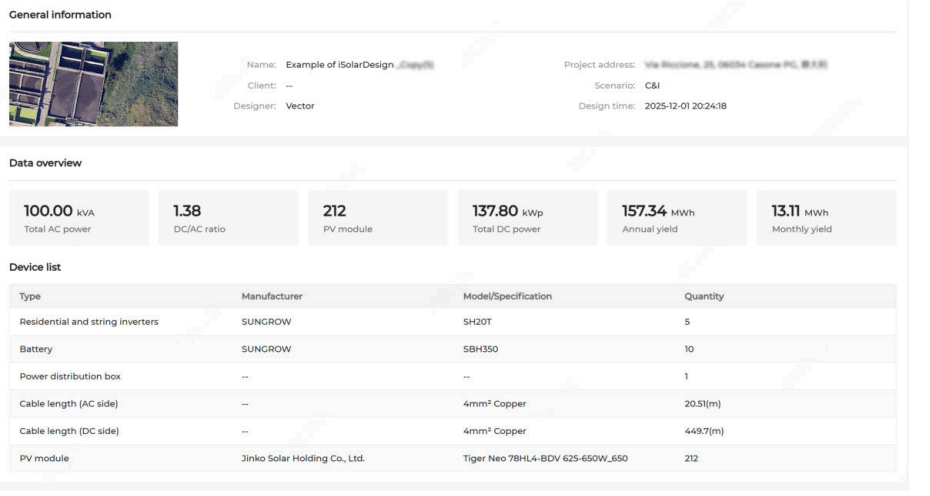
**--End**

### 4.2.8 Generate Report

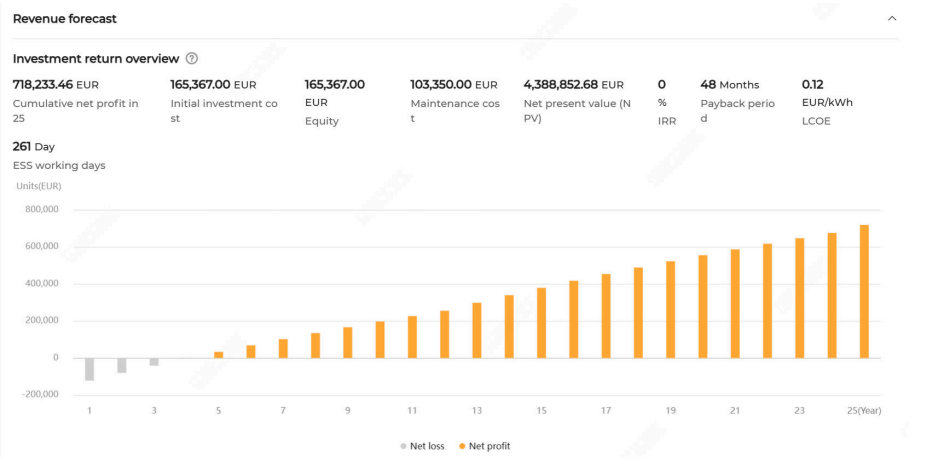
After completing the above settings, go to the **Generate report** page.

The report includes the following information:

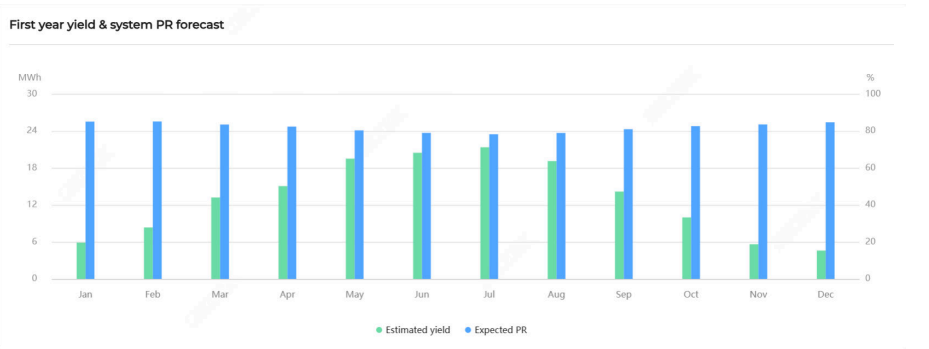
- General information, Data overview, and Device list




- Revenue forecast

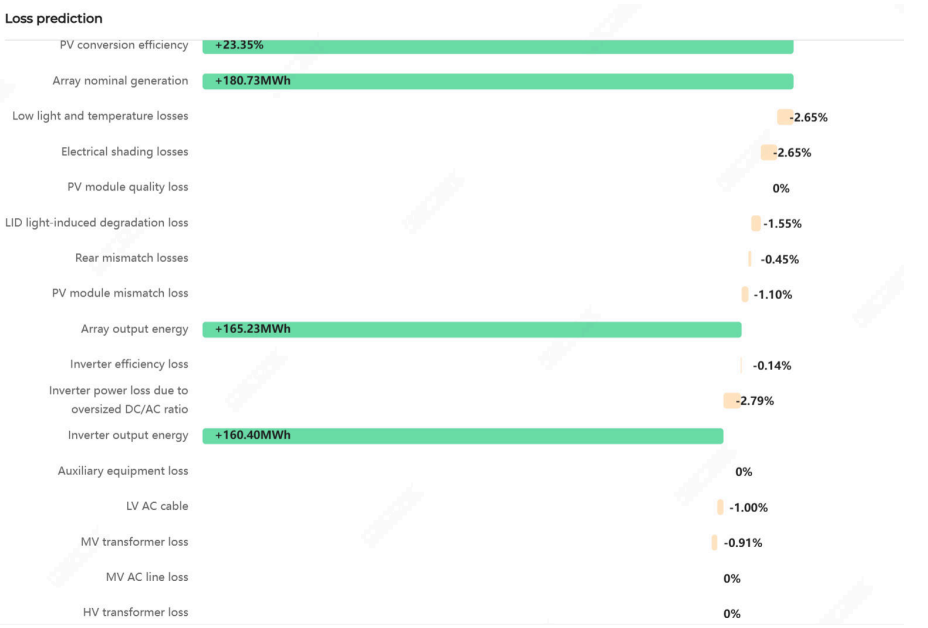



- First year yield & system PR forecast

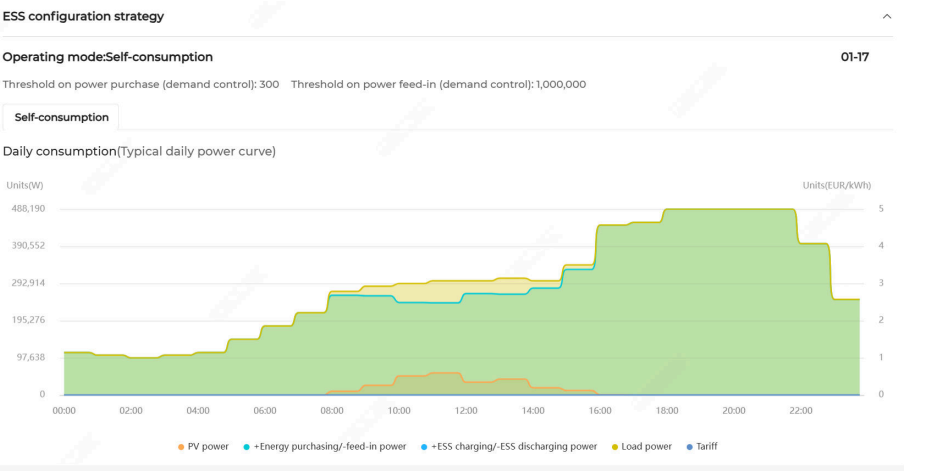



- Tariff analysis and forecast

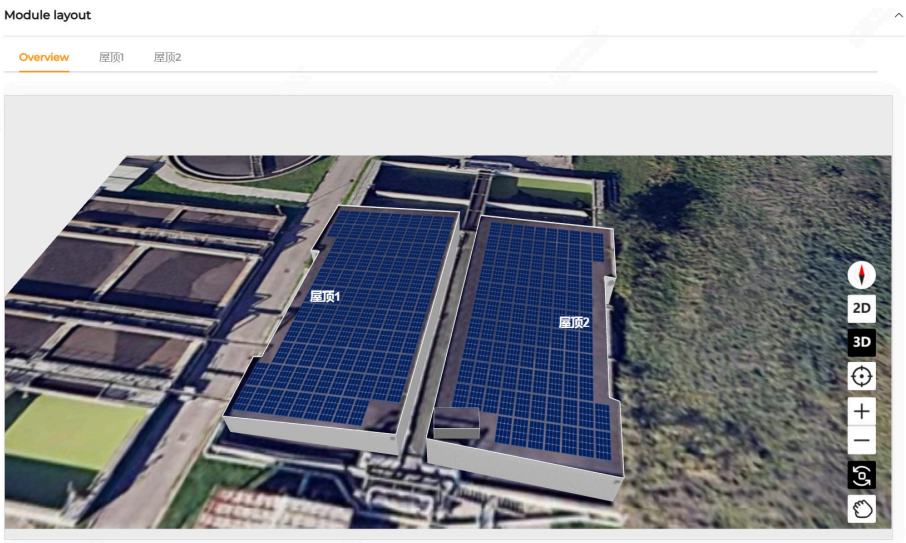

- Loss prediction




- ESS configuration strategy (for C&I projects)

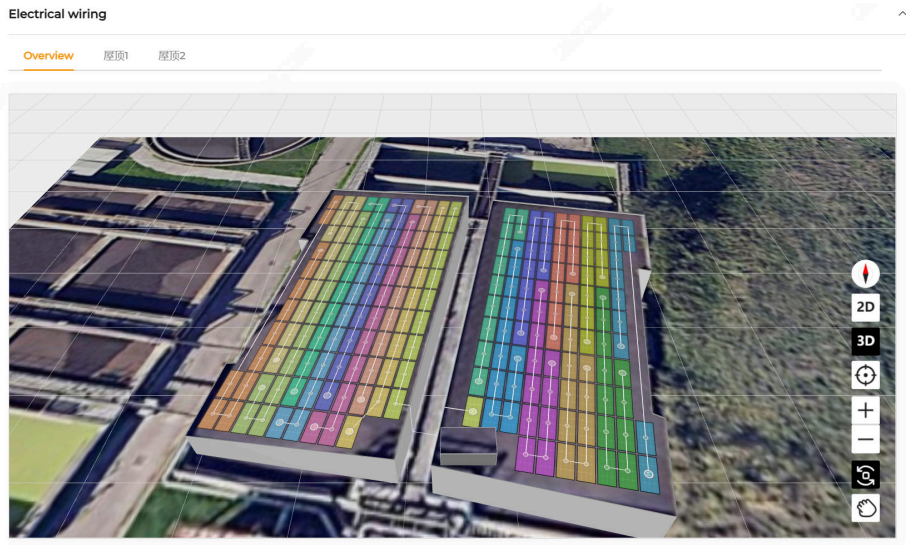



- Module layout




PV layout

- Electrical wiring



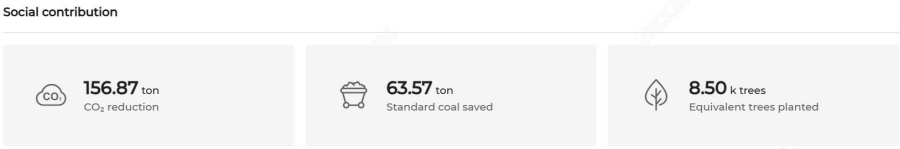

Electrical wiring diagram

| Inverter | MPPT | String | Number of modules | Max. ISC | Min. Vdc | Max. Vdc | Max. Voc |
|---|---|---|---|---|---|---|---|
| No. 1<br>SH20T<br>2 * SBH350 | MPPT1 | PV1 | 12 | 14.38 | 505.59 | 629.68 | 742.28 |
| | MPPT2 | PV3 | 12 | 14.38 | 505.59 | 629.68 | 742.28 |
| | MPPT3 | PV5 | 12 | 14.38 | 505.59 | 629.68 | 742.28 |
| No. 2<br>SH20T<br>2 * SBH350 | MPPT1 | PV1 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | | PV2 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | MPPT2 | PV3 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | MPPT3 | PV5 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| No. 3<br>SH20T<br>2 * SBH350 | MPPT1 | PV1 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | | PV2 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | MPPT2 | PV3 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | MPPT3 | PV5 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| No. 4<br>SH20T<br>2 * SBH350 | MPPT1 | PV1 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | | PV2 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | MPPT2 | PV3 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | MPPT3 | PV5 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| No. 5<br>SH20T | MPPT1 | PV1 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | | PV2 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |
| | MPPT2 | PV3 | 11 | 14.38 | 463.45 | 577.2 | 680.42 |

**PV subarray parameters**

| Name | Mounting type | Quantity of modules | DC power(kW) | Angle[°] | |
|---|---|---|---|---|---|
| PV array 1 | Flush mount | 100 | 65.00 | Roof tilt | Roof orientation |
| | | | | 0 | 0 |
| PV array 2 | Flush mount | 112 | 72.80 | Roof tilt | Roof orientation |
| | | | | 3.43 | 167.07 |

- Social contribution



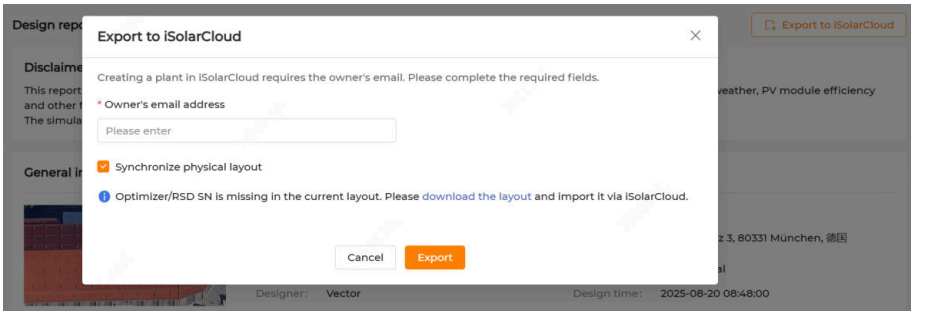

This page supports the following functions:

- Customize report content: Click the **Custom** icon in the upper left corner to select the information you want.
- Save and download: Click **Save and download** to save the report locally.
- Export to iSolarCloud: If optimizers/RSDs are configured in the project, you can export the project information and physical layout to iSolarCloud.
- Plan comparison: Click **Plan comparison** in the upper right corner to flexibly compare key indicators between the default plan with another one, which helps you to make informed decisions.
- Share report: Click **Share report** in the upper right corner to send the report and layout file via email by entering the recipient name and email.

### 4.2.8.1 Export to iSolarCloud

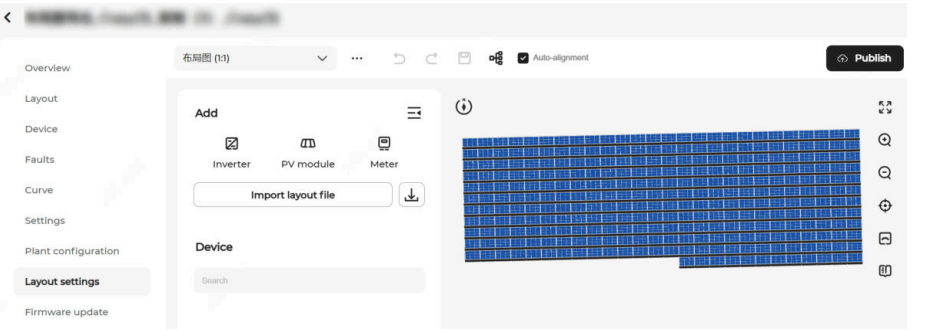
This section describes how to export the project information and physical layout to iSolarCloud in scenarios with optimizers/RSDs.

**Step 1** Click **Export to iSolarCloud** in the upper right corner, enter the **Owner's email address**, and select **Synchronize physical layout** as needed. Then click **Export**.

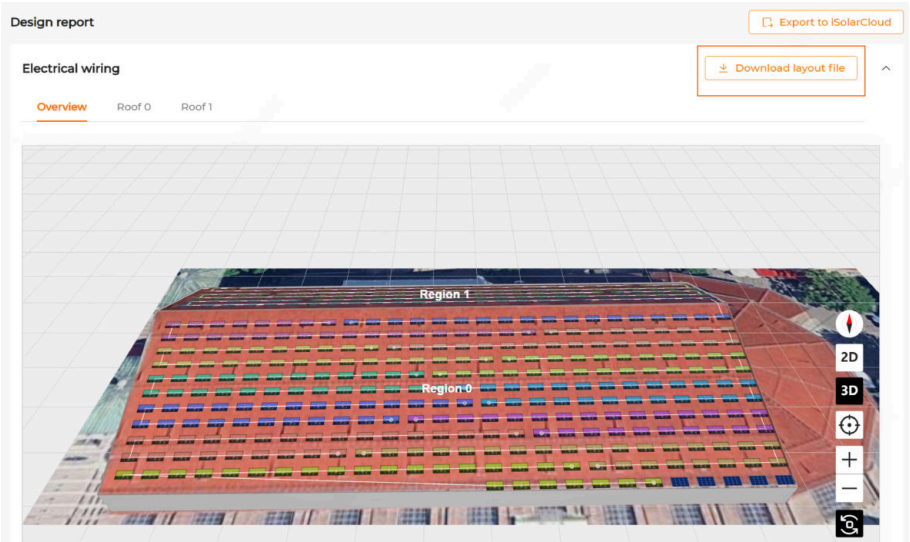



Project information and physical layout can only be exported once.

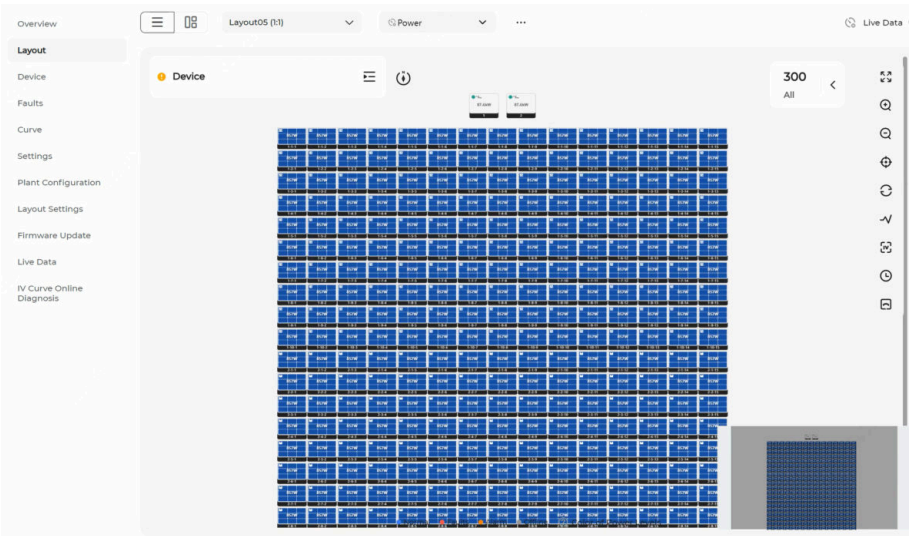
**Step 2** In iSolarCloud, you can view the imported general information and physical layout of the plant. (Note that optimizer/RSD short codes are not shown in the modules of the layout.)



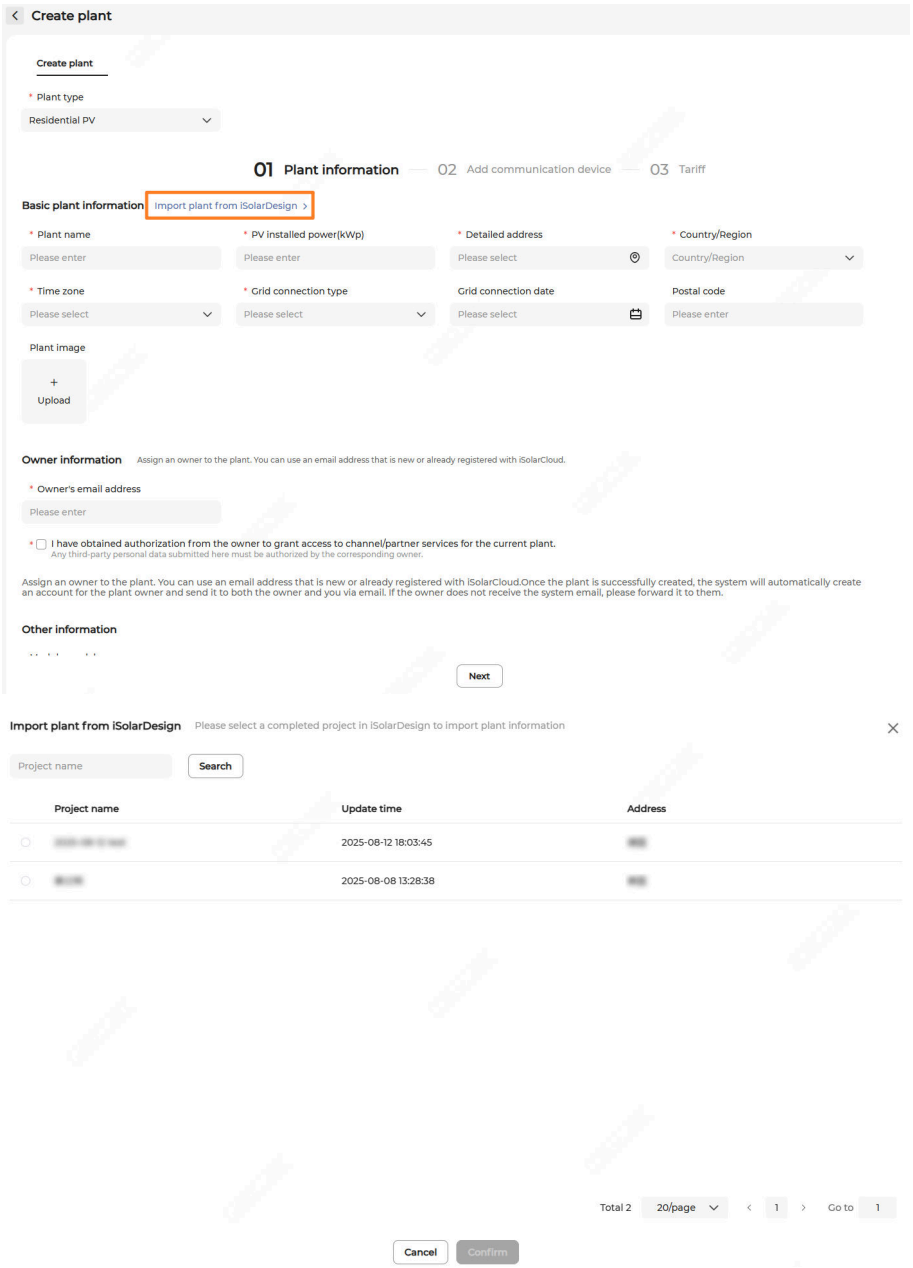

**Step 3** On the **Design report** page of iSolarDesign, click **Download layout file** to download the layout file with optimizer/RSD short codes (in Excel format).




**Step 4** After entering the device S/Ns in the Excel file, import the layout file into iSolarCloud. The system will generate a physical layout with optimizer/RSD short codes, as shown in the following figure. For details, see *iSolarCloud User Manual*.




In addition to the above method, you can also import the information of a **Completed** project from iSolarDesign directly when creating a plant in iSolarCloud. For details, see *iSolarCloud User Manual*.




**--End**

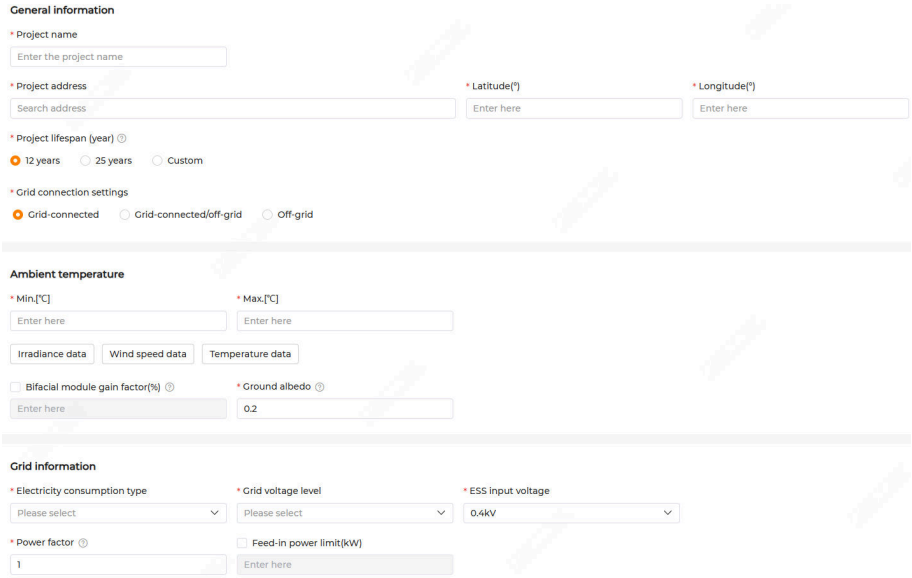
## 4.3 Integrated Energy System Design

After logging in to the iSolarDesign system, click the **Create project** button in the upper right corner of the page and go to **C&I > Integrated energy system design**.

The process and report generation are shown below:

| Name | Description |
| --- | --- |
| General information | Fill in the general information of the project. It supports grid-connected, grid-connected/off-grid, and off-grid scenarios. See 4.3.1 General Information for details. |
| Tariff and load | Set tariffs and load information. See 4.3.2 Tariff and Load for details. |
| Planning settings | Configure the settings of the PV system and ESS. See 4.3.3 Planning Settings for details. |
| Economic analysis | Provide the project cost to evaluate the possible cost of plant design. See 4.3.4 Economic Analysis for details. |
| Report generation | View the key information about the project, for example, data overview, device list, yield, and revenue forecast. The report can be downloaded and saved locally. See 4.3.5 Report Generation for details. |

### 4.3.1 General Information




**Step 1** Enter **General information**: Define the **Project name**, **Project address**, **Project lifespan**, and **Grid connection settings**.

**Grid connection settings** can be set to **Grid-connected**, **Grid-connected/off-grid**, and **Off-grid** operations.

**Step 2** Enter **Grid information**: Specify **Electricity consumption type**, **Grid voltage level**, and **ESS input voltage** based on actual conditions.

> The required parameters in the **Grid information** section may vary by location and scenario. The actual interface shall prevail.

**Step 3** Upon completion, click **Next**.

**--End**

### 4.3.2 Tariff and Load

**Step 1** Enter the feed-in tariff.

**Step 2** Fill in the power purchase tariff. For details about setting up **Power purchase tariff**, see 4.2.3.1 Tariff Setting.

> In grid-connected and grid-connected/off-grid scenarios, you need to define the feed-in tariff and power purchase tariff. In off-grid scenarios, you need to define the off-grid tariff.

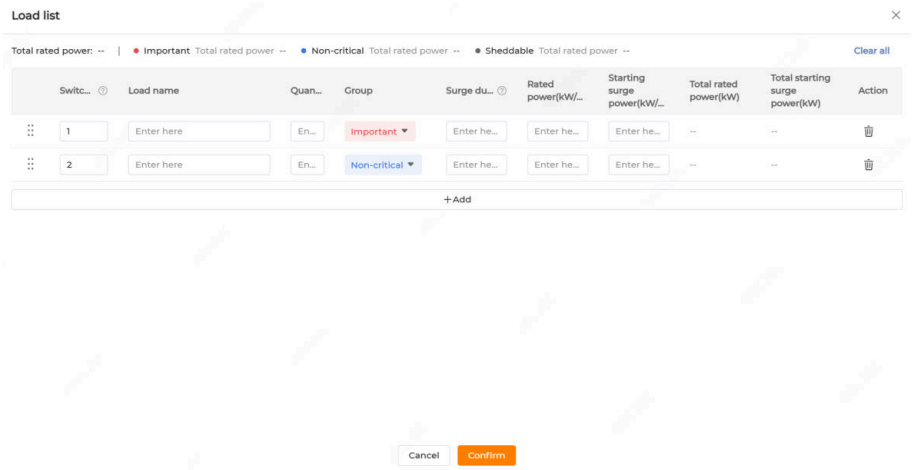
**Step 3** Set up loads. For details, see 4.2.3.2 Load Settings.

**Step 4** Fill in the load list, which is available for grid-connected/off-grid scenarios. It is used for load modeling simulation and capacity recommendation of the energy system. Enter the detailed load data or import a load template, so that the system can accurately calculate PV, ESS, and diesel generator capacities.

How to enter load data

**a.** Click **Go to add** to display the **Load list** dialog box.

**b.** Configure the load-related parameters as prompted.




**c.** Click the **Add** button for a new row for more load parameters.

**d.** Choose **Confirm**.

How to import a load template

**a.** Click **Import a load template** and choose a pre-configured load template in the dialog box.

If there are no pre-configured load templates, click the **Complete them now** button to enter the **Load template** page and choose the **Add** button to create a new template.

**b.** Click **Confirm**.

After completing the load settings, set the **Black start mode settings** to **Manual startup sequence** or **Recommended startup sequence**.

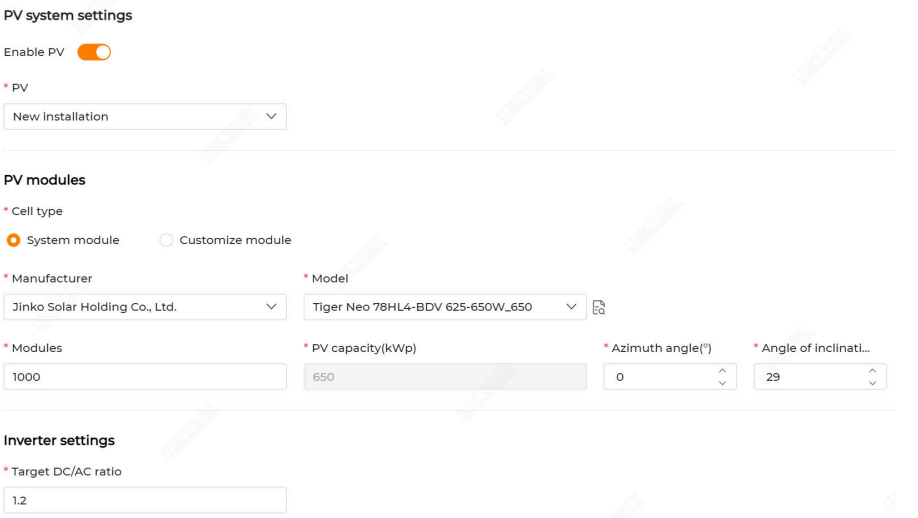
**Step 5** Configure the power-off settings, which are available for gird-connected/off-grid scenarios. Select a cycle mode of **Daily cycle** or **Monthly cycle**. Then, define the power-off plans by clicking the corresponding time periods in the table that follows.

**Step 6** Click **Next**.

**--End**

### 4.3.3 Planning Settings

**Step 1** Configure the **PV system settings**. Switch on the **Enable PV** option to set **PV** to **New installation** or **Existing PV & ESS configuration**.

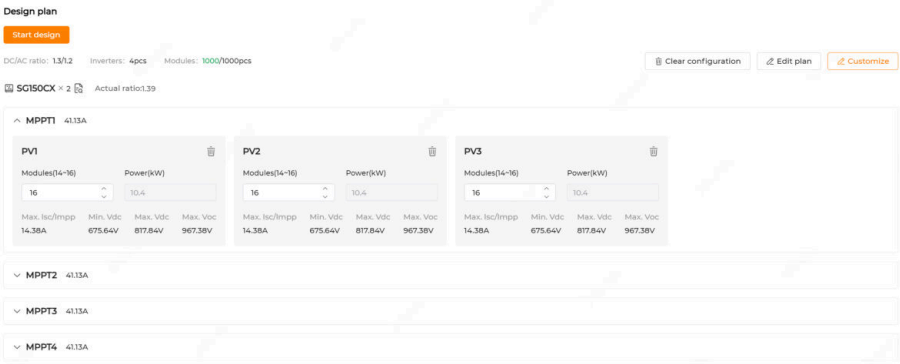



When **New installation** is selected for PV

**a.** Complete the settings for PV modules and target DC/AC ratio.

**b.** When designing a plan, you can select a system-recommended plan or customize one.

- Click **Start design**. The system will generate an optimal plan, and you can modify the parameters directly. To revise the plan, click **Edit plan**.




- Click **Customize** to design a custom plan based on actual inventory or your preferences.

When **Existing PV & ESS configuration** is selected for PV

**a.** Define **PV capacity**.

**b.** Set **Load data type** to **Total load** or **Net load**.

- Total load: Total electricity consumption of all electric appliances.
- Net load: Total load minus energy yield of the existing PV systems, usually obtained from the gateway meter.

**Step 2** Complete the **ESS settings**.


**a.** Select an option in the drop-down list **ESS capacity planning method (liquid-cooled ESS cabinet)**.

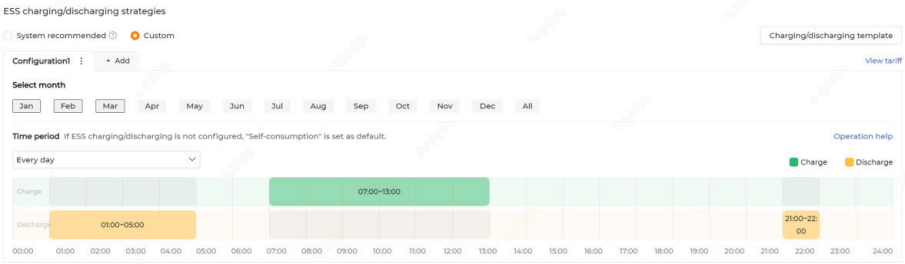
If you select the **Specified ESS capacity** method, click **Add device** on the right to select the ESS model and quantity.

**b.** Set up the ESS operation strategy, which includes **Self-consumption** and **Self-consumption+Time-of-use power**. Specify the option **Threshold on power purchase (demand control)/Threshold on power purchase (capacity control)**.

> In the case of **Self-consumption+Time-of-use power**, set **ESS charging/discharging strategies** to **System recommended** or **Custom**.
> Off-grid scenarios support **Self-consumption** only.

**ESS charging/discharging strategy**

- System recommended: The system intelligently matches charging and discharging settings based on the predefined time-of-use tariffs.
- Custom: You can leverage the **View tariff** function on the upper right corner of the table to customize the charging and discharging time plans for each month. If the time slots are not defined with the charging or discharging strategies, the self-consumption mode will be applied in those slots.

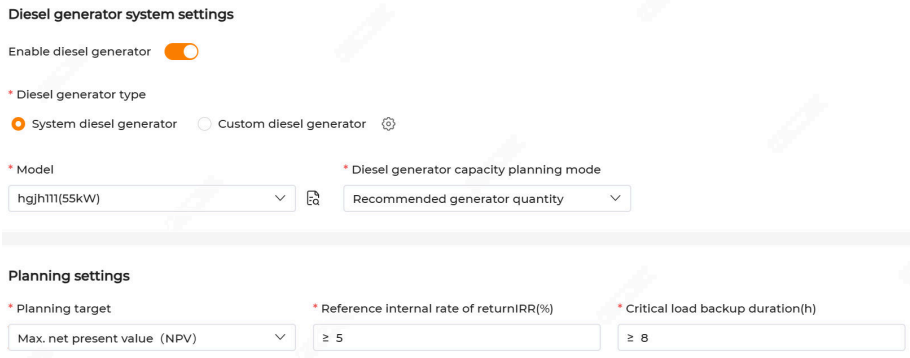



1. Select the months to be configured.
2. In the **Time period** dropdown list, set the time plans for **Every day** or **Working days & non-working days**.
3. To add a time plan, click on a vacant time slot in the time period. To modify the duration of an existing time plan, drag and drop it to the left or right.

> Click the button **Charging/discharging template** on the right side of the page to set up or import a pre-configured template.

**c.** In the **Advanced settings** section, some parameters are pre-configured. Click the **Edit** button on the right to modify ESS settings and SOH degradation types.

**Step 3** Configure the **Diesel generator system settings**, which are available for grid-connected/ off-grid and off-grid scenarios.




**a.** Switch on the option **Enable diesel generator**.

**b.** Set the **Diesel generator type** to **System diesel generator** or **Custom diesel generator**.

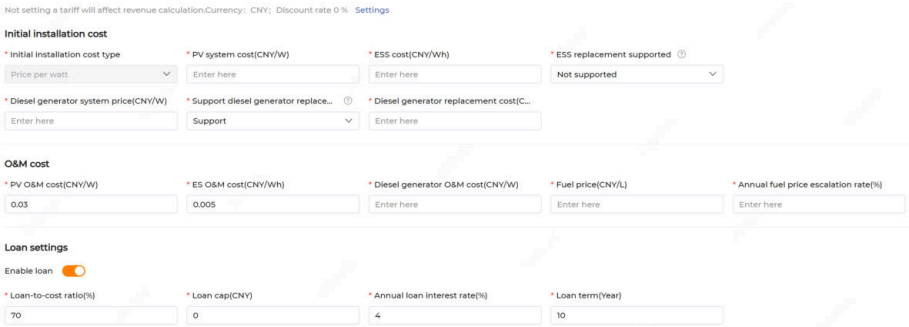
**c.** Enter the **Model** and set the **Diesel generator capacity planning mode** to **Recommended generator quantity** or **Specify generator quantity**.

**Step 4** Complete the **Planning settings**. Define **Planning target** and other parameters as needed.

**Step 5** Upon completion, click **Next**.

**--End**

### 4.3.4 Economic Analysis




**Step 1** Enter the initial installation costs.

**Step 2** Enter the O&M costs.

**Step 3** If there is a loan in the project, switch on the **Enable loan** option and define the relevant data.

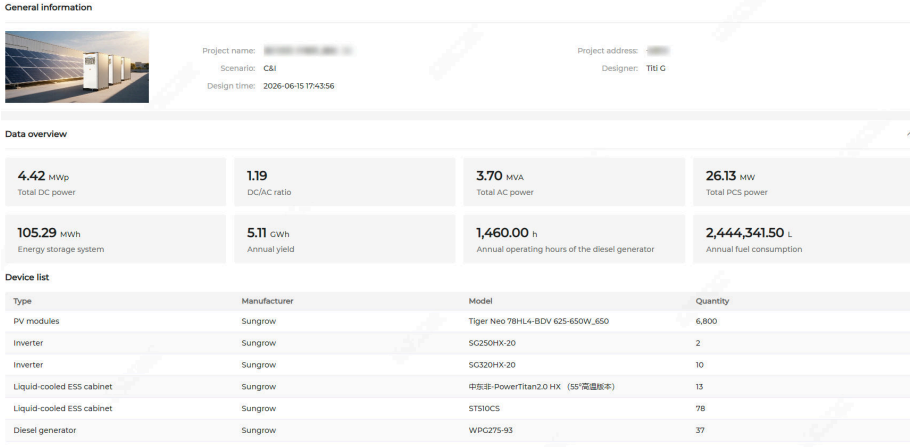
**--End**

### 4.3.5 Report Generation

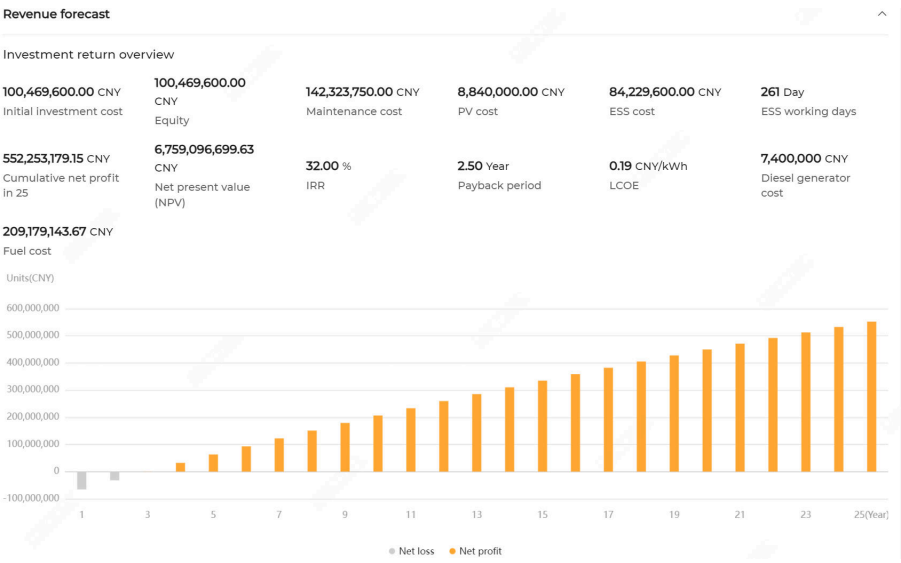
After completing the settings above, go to the **Generate report** page for key information.

The report includes:

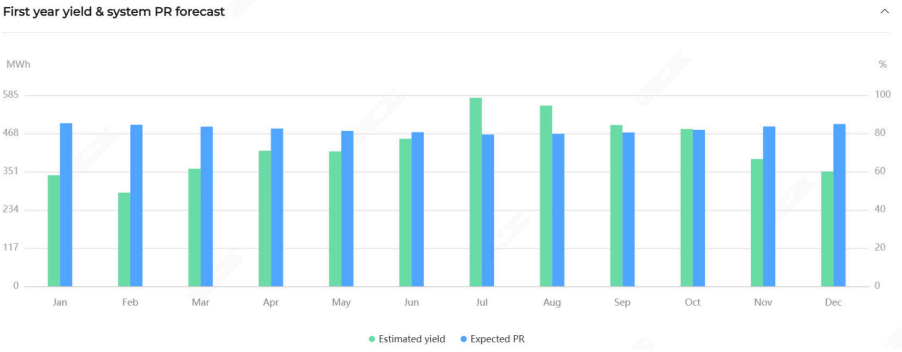
- General information, data overview (including device list)



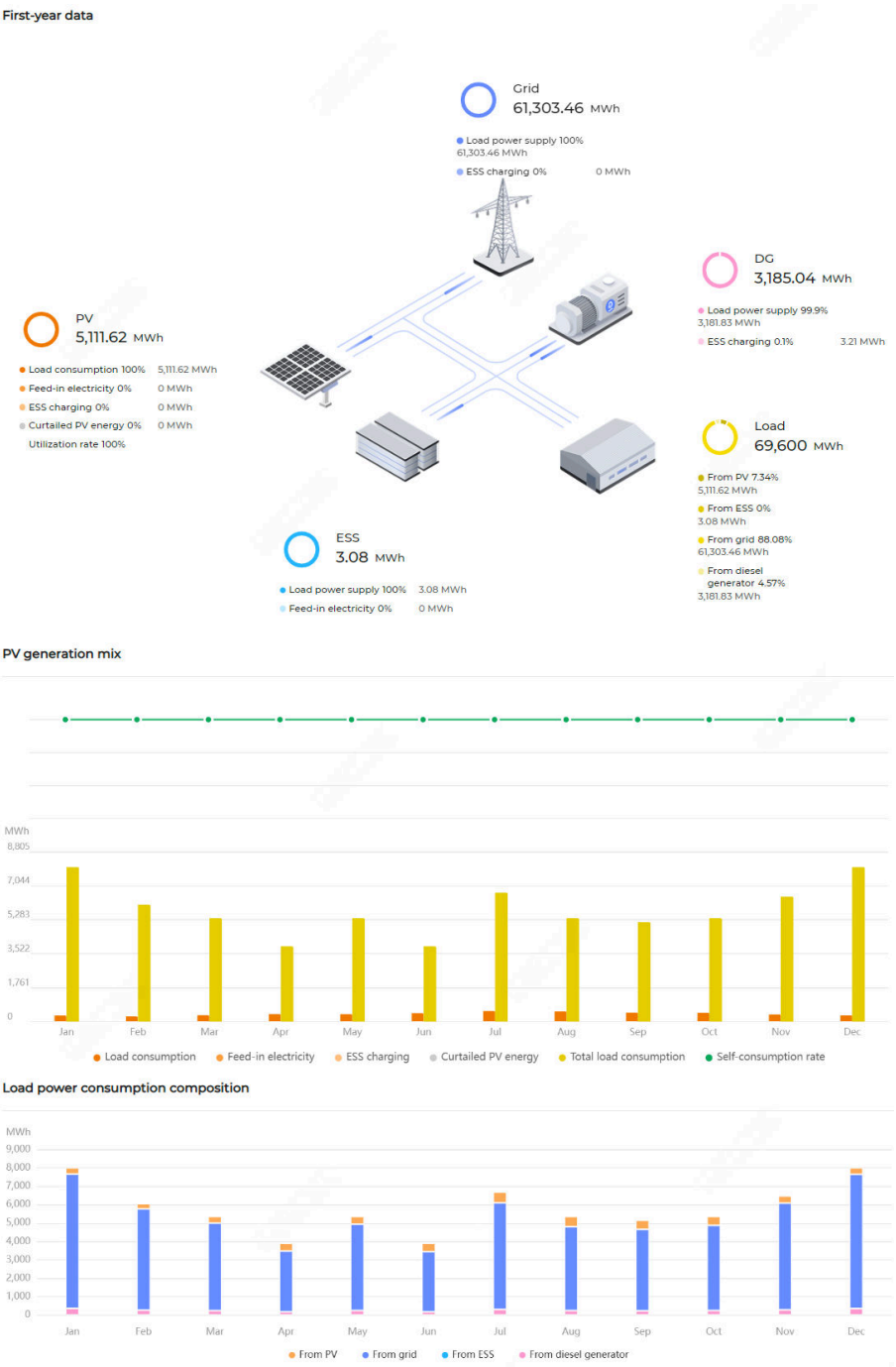

- Revenue forecast




- First-year yield and system PR forecast



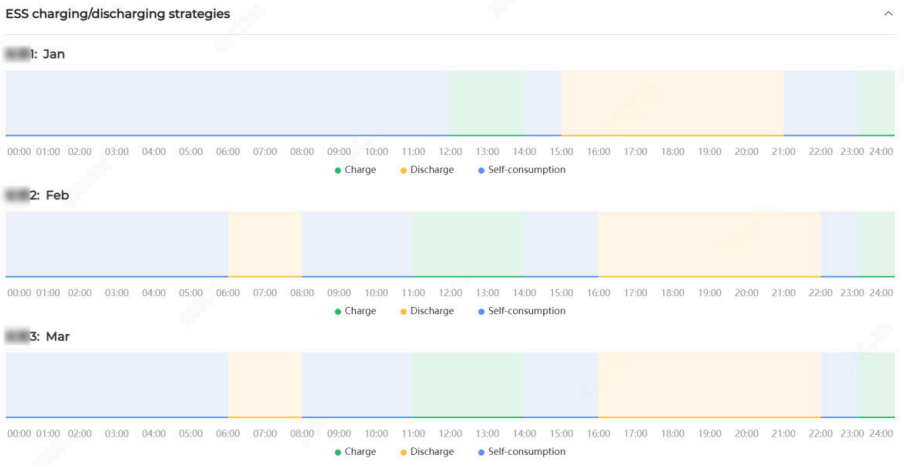

- Energy management



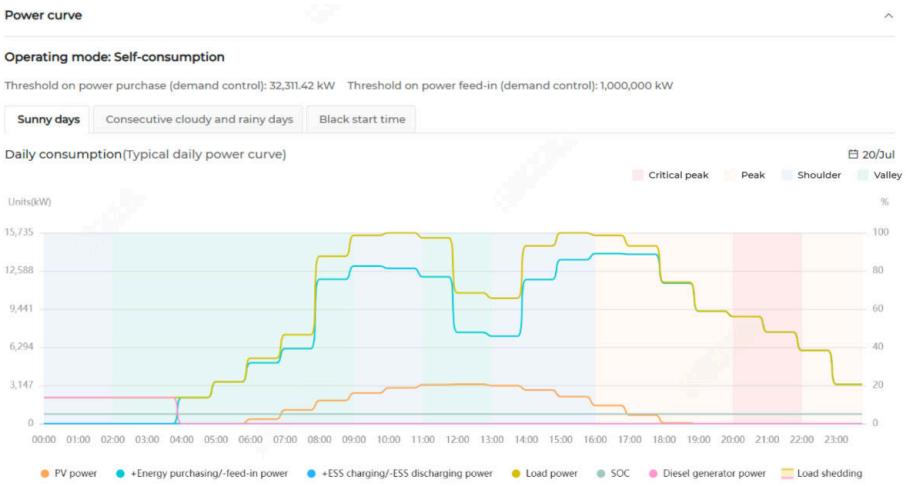

- Tariff analysis


- ESS charging/discharging strategy

> If defined in **Planning settings**, the ESS charging and discharging strategies are displayed in the report.




- Power curve


Power curve
Operating mode: Self-consumption
Threshold on power purchase (demand control): 32,311.42 kW
Threshold on power feed-in (demand control): 1,000,000 kW
Sunny days
Consecutive cloudy and rainy days
Black start time
Daily consumption(Typical daily power curve)
20/Jul
Critical peak
Peak
Shoulder
Valley
Units(kW)
%
15,735
12,588
9,441
6,294
3,147
0
100
80
60
40
20
0
00:00 01:00 02:00 03:00 04:00 05:00 06:00 07:00 08:00 09:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00
PV power
+Energy purchasing/-feed-in power
+ESS charging/-ESS discharging power
Load power
SOC
Diesel generator power
Load shedding

# 5 Settings

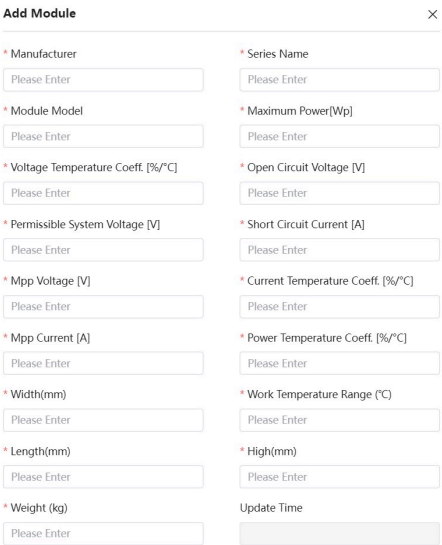
Log in to iSolarDesign and click **Settings** at the top of the page to manage **Modules**, **Device price**, and **Tariff template**. These settings can be directly applied when creating a project, reducing the need for repeated configuration.

## 5.1 Custom Module

You can add a custom module if a module beyond those provided in the system is required.

Log in to the iSolarDesign system, and click **Settings** at the top of the screen to go to the **Customize Module** page.

- Add one custom module
  Click **Add Module**, set the parameters for the module, and click **Confirm**. The module will then be added.




- Add custom modules in group
  1. Click **Download Template** to download the template file to your local system, and fill in the module information.
  2. Click **Import Template** to import the template that carries the module information. The modules will then be added.
- Delete one module

  Click in the Action column to delete the corresponding module.
- Delete modules in group

Select modules of different models, and click **Batch Delete** to delete them in group.

- Edit module information

  Click in the Action column to edit the information about the corresponding module.

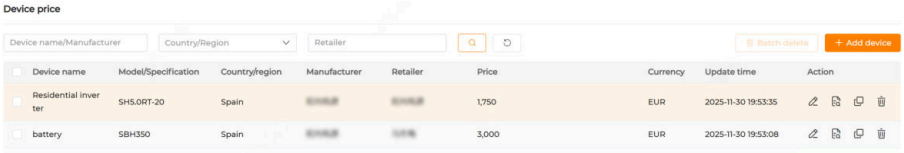
- View module information

  Click in the Action column to view the information about the corresponding module.

## 5.2 Device Price

After device prices are configured, they can be directly imported when you maintain the device list in economic analysis.

You can add, edit, view, copy, and delete devices.




## 5.3 Tariff Template

After a tariff template is configured, it can be directly imported when you configure time-of-use tariffs.

You can copy, add, and delete tariff templates.


To create a new tariff template, click **Add** and set the relevant parameters. For detailed instructions, see Method 1 for setting time-of-use tariffs in step 3 of 4.2.3.1 Tariff Setting.

## 5.4 Custom Diesel Generators

Common diesel generator models are pre-configured in the system. If they do not meet your requirements, you can customize expected models.

**How to add diesel generators**

1. Click **Settings > Custom diesel generator**.
2. Click **Add diesel generator**.
3. Fill in the general parameters and diesel generator parameters as prompted.
4. Click **Confirm**.

More operations

In the **Action** column, you can edit, view, copy, and delete the existing diesel generators.

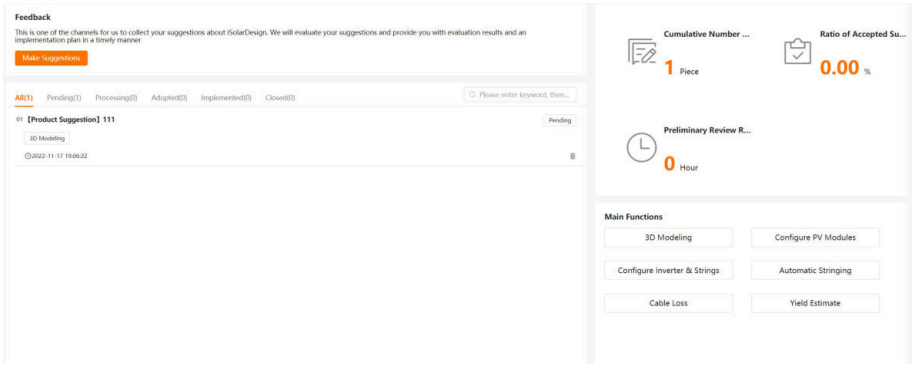
## 5.5 Load Templates

Adding load templates allows you to import them directly when setting up the load list.

Click the **Add** button to specify relevant information. Upon saving, a template is added.

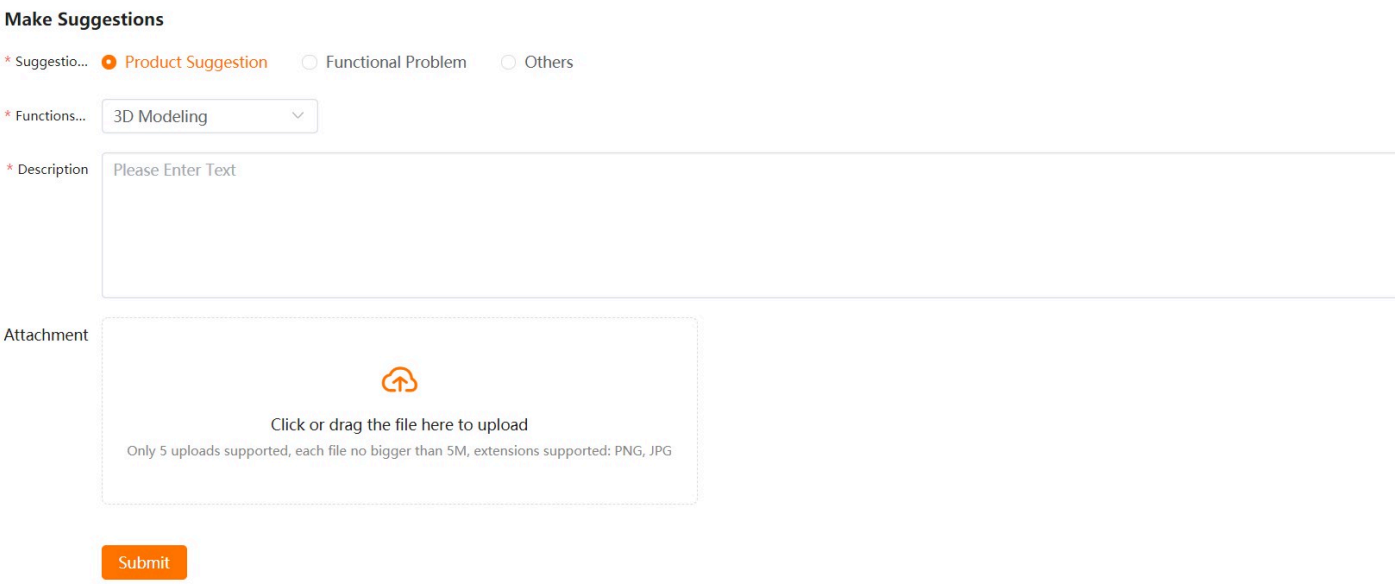
# 6 Feedback

Users can submit suggestions on the **Feedback** interface. Click to enter the corresponding interface. Users can only view their own suggestions on this interface.




### Add Feedback

Click Make Suggestions to enter the **Make Suggestions** interface, as shown in the following figure.




Select **Suggestion Type**, **Functions Involved**, and enter **Description**. Uploading **Attachment** is optional. Click **Submit**.

> At most 5 attachments can be uploaded, and each file should be no more than 5M. Only PNG and JPG files are supported.

### Feedback List


On this interface users can view the status and quantity of suggestions that have been submitted. The status includes **All**, **Pending**, **Processing**, **Adopted**, **Implemented**, and **Closed**.

Click  to delete the suggestion, while the administrator's reply will also be deleted.

### Feedback Details


Click one of the suggestions to go to the **Details** interface. On this interface users can view the **Suggestion Type**, **Functions Involved**, **Description**, and **Attachment**.

Click  to reply to the customer service.

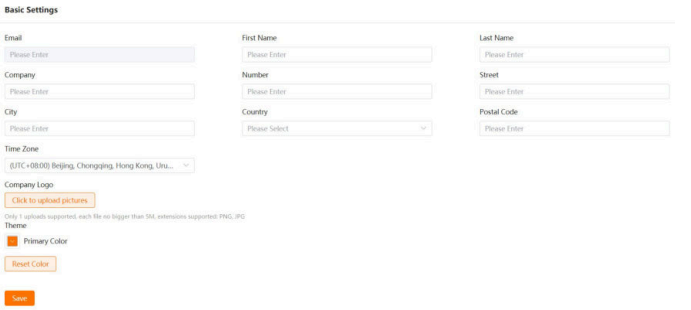


> If there is no reply text, the user cannot reply to the customer service.

# 7 Personal Setting

**Personal Setting** consists of three functions: **Basic Settings**, **Security Settings**, and **Data Settings**.

### Basic Settings

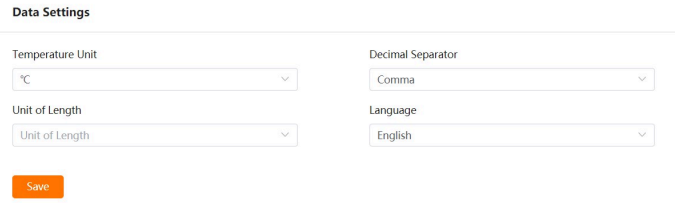



On this interface users can modify the basic information of the account.

### Security Settings

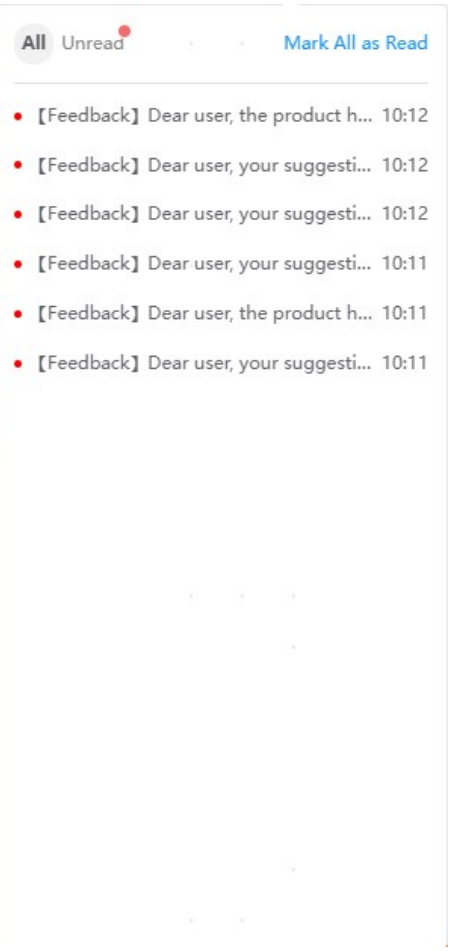

On this interface users can modify the email address, delete the account and change the password.

### Data Settings




On this interface users can modify the **Temperature Unit**, **Decimal Separator**, **Unit of Length**, and **Language**. Click **Save**.

# 8 Messages




On this interface users can view system messages. The **All** tab is displayed by default. Users can click **Unread** to view unread messages.

Click **Mark All as Read** to change the status of all unread messages to read.

# 9 Contact Information

In case of questions about this product, please contact us.

For detailed contact information, please visit: **https://en.sungrowpower.com/contactUS**.

Sungrow Power Supply Co., Ltd.

www.sungrowpower.com