

# Sungrow iSolarCloud – USER GUIDE

#### Introduction

iSolarCloud is a platform for the user to monitor and perform simple operations pertaining to the solar installation's yield. These operations pertain to smart IV curve diagnosis, channel management, device management, plant management, Security Configuration and license management.

### 1. Register and Download App

Please go to the website isolarcloud.com, click on "Register now", select "Owner" then follow the prompts and fill out the required sections.

Once you have completed registration, you can go either to the apple store (if using an Apple device) or onto Google Play Store (if using an android device) and download the iSolarCloud app. You can

Login

On opening the app, on the home page, you first click the  $\sim$  to manually switch the server address to "Australian Server".

USER REGISTRATION		Login	۵ …
Distributor/Installer	End User	Account	
Australian Server	×	Password	ğ
Email	@gmail.com ∨	LOGIN	
Send Verificati	Help	REGISTE	R
Verification Code		Forgot Password	
Password			
Confirm Password			
Country/Region	~	Account Scroll for datails	Done
Registering as E	nd User	Logging In once registrati	on successful

You can then log into the app utilising the username and password established after registering, then click "agree" and answer any questions that pop up.



## **Interface Description**

Click the menu "Home" to enter the corresponding interface, on which you can view plant information, share plants, etc.

Ö iSolarCloud	Plant Status	~	Commercial PV	V Plant Name	Device S/N	. Q	_ 4			SUNGRO
O&M 슈 Home	Plant Image	Plant Status	Plant Name	Plant Type	Installed Power 🗢	Real-time Power 😄	Today Yield 💠	Total Yield 💠	Equivalent Hours 💠	Operation
<ul> <li>▲ Fault</li> <li>④ Report</li> </ul>	٢	8 8 8 8	。 阳光产业园 SNW20200108	Commercial PV	-			1.024 GWh		C 🖞
	٠	8	D1234512345-广播升级	Commercial PV		0 W	0 kWh	71.736 MWh	0 Hour	· · ·
Advanced	٠.		A18100401305	Commercial PV	-			200 kWh	-	C 🝵
Message Center     10     Help     >	٢	0	51 Millumbinby red smart logger	Commercial PV	<u>.</u>		-	12.175 MWh	1.4	C 🗑
2	۲	<ul> <li>No. 10</li> <li>No. 10</li></ul>	21 Victoria st Taree	Commercial PV	-	7.897 kW	45.3	29.613 MWh	1.51 Hour	6
	ê. 	<b>A</b>	#4820 Cross Solutions	Commercial PV	-	7.977 kW	29.3 kWh	11.922 MWh	1.17 Hour	
	٢	<u>A</u>	DDDSAADDDSAA	Commercial PV	-		4 			
Account	٢	<u>A</u>	DSSS	Commercial PV						
Me 3		·					Total 64 10/	page \vee < 1	2 3 4 7	

5. Plant information list 6. Plant operation bar 7. Feedback

#### Menu bar

The menu bar displays main function categories of the iSolarCloud. Users can switch to the corresponding interface of different functions and perform related operations.

Function Page		Description		
Home	Display plant list			
	View detailed plant in	Iformation		
	Share or delete plants	S		
Fault	View fault information	n of plant devices		
Report	View plant statistics r	eports (daily report, weekly report, monthly report, annual		
	report and overall rep	ort); create self-destined reports.		
Curve	View plant power gen	View plant power generation curve		
Advanced	Settings	Set initial grid connection parameters of plant devices		
	Firmware update	Upgrade plant software device		
	String IV curve scan	Scan component I-V curve, diagnose component working		
	and diagnosis	status, and automatically locate faulty components		
	Live date	Display the measuring point interface and the curve		
		interface, and the measuring points that the current device		
		does not support		
	Alarm subscribe	Set plant plan manner		
	Energy Storage Unit	Check the overview of the energy storage unit and monitor		
	View	the real-time status of indicators		



PV unit view	Check the overview of the PV unit and monitor the real-
	time status of indicators
Other unit view	Check the access status of auxiliary equipment in
	industrial and commercial plants
Ground strategies	Display the control method uploaded by industrial ems to
	the cloud
Cloud strategies	Adjust the control method used to issue the energy storage
	scheduling plan

Only the distributor/installer has the permission of firmware update and string IV curve scan and diagnosis

### 2. Viewing Device Information

Select "Device Information" on the menu bar to enter the device information interface, on which you can view basic device information and alarm information.

#### **Querying Device**

- (a. Enter device S/N and device name and select device type and device state.
- (b. Click  $\bigcirc$  to view the corresponding devices

### Viewing Device Information

All devices in the plant are displayed in the tab form. Click the tab to view corresponding device information. You can view the general information, device alarm information, power curve, etc.

#### **Viewing General Information**

The basic device information includes measuring point data such as the general information, MPPT information, load information, battery information and grid information, as well as device information such as device status, model, S/N, manufacturer etc.

- (a. Click device name, and you will enter "General Information" interface by default.
- (b. Click  $\sim$  or  $^{\odot}$  behind the parameters to select time segment and time interval,

and click  ${}^{\bigcirc}$  . In this way, you can view history information.

- (c. Perform the following operations according to actual conditions.
  - Click the icon  $\mathcal{C}$  to refresh the interface information.
  - Click the icon \Xi to change the curve into report
  - Click "Save table data" to export the parameter information to the local.

#### Viewing Active Fault

View the list of alarms not closed

- (a. Click device name, and you will enter "General Information" interface by default
- (b. Click "Active Fault" to enter the corresponding interface
- (c. Enter time segment and fault classification, and select "Alarm processing state".
- (d. Click  $\bigcirc$  to view the corresponding faults



## Viewing Fault History

View the list of closed history alarms

- (a. Click device name, and you will enter "General Information" interface by default
- (b. Click "Fault History" to enter the corresponding interface
- (c. Enter time segment and fault classification
- (d. Click  $\bigcirc$  to view the corresponding faults

#### **Viewing Chart**

View power generation information displayed in the chart

- (a. Click device name, and you will enter "General Information" interface by default
- (b. Click "Chart" to enter the corresponding interface
- (c. Select time segment and click the icon  $\checkmark$  to select the time interval. The power generation statistical period can be set to 10 seconds, 5 minutes, 15 minutes, 30 minutes or 60 minutes.
- (d. Click  $\bigcirc$  to view the corresponding curve
- (e. Perform the following operations according to the actual conditions
  - Click the icon  $\bigcirc$  to refresh the interface information
  - Click the icon  $\equiv$  to change the curve into report
  - Click "Save table data" to export the parameter information to the local

#### Viewing Remote Signaling Status

- (a. Click device name, and you will enter "General Information" interface by default
- (b. Click "Remote Signaling Status" to enter the corresponding interface
- (c. View remote signaling status
- (d. Click  $\square$  to refresh the interface information
- (e. Click  $^{(0)}$  , select the time, and click  $^{(0)}$  , to view parameter history
- (f. Click 🖹 to export the table

## **Viewing Plant Information**

In the plant information list area, you can view plant information as well as configure plants.

This area displays plant state and other basic information.

Description of plant information parameters

Parameter	Description			
Plant Status	Running and communication states of the power plant			
	Normal running 오 , fault 😣 , alarm 🔺 , offline 💿 , connecting 🟫			
Plant Name	User self-defined name			
Plant Type	The type is determined based on application scenario and it can be			
	set on the "Plant configuration" interface			
Installed Power	The type is determined based on application scenrario and it can be			
	set on the "Plant configuration" interface			



Real-time Power	Real-time output power of the plant
Today Yield	Accumulative Power Yield of the Day
Total Yield	Accumulative Power Yield of the Plant

#### **Plant Information Introduction**

Parameters displayed may vary with plant types, and actual interfaces prevail.

Description is given by using residential energy storage plant as an example

- 1. Click the plant name on the "Home" page to enter the corresponding plant information interface
- 2. Click "Overview" on the menu bar to view detailed plant information

#### Viewing basic plant information

Basic plant information includes "today revenue", "today yield", "real-time power", "current month's yield", "total yield", "CO2 reduction", etc.

#### Viewing power flow diagram

You can view information such as real-time power, feed-in power, load power, and battery charging/discharging power. The power flow diagram of the energy storage system is as follows:



The line with an arrow indicates energy flow between connected devices, and the arrow pointing indicates energy flow direction. Gray line indicates that the connected devices are in an offline state.



#### Viewing and exporting plant data

Plant data can be viewed and exported based on time segment "Day", "Month", "Year" and "Total".

- 1. Click "Day", "Month", "Year", or "Total" to select the desired period.
- 2. Perform the following operation according to actual conditions.
  - Click the icon  $\square$  and  $\equiv$  in the upper right corner to display the data in chart form and table form respectively.
  - Click the icon in the upper right corner to export the plant data, where the exported file is in .xlsx format by default.

#### Viewing the calculation standards

The bottom of the overview page shows data related to energy saving an emission reduction, including CO2 reduction, standard coal saving, equivalent tree planting etc.

Click the icon 0 to view the calculation standards for energy conservation and emissions reduction of PV power generation

The following takes a PV storage plant as an example to illustrate detailed operation

1. Click a plant name on "Home" to view the information of a single plant.

#### **Viewing ES Information**

Eday-charge, Eday-discharge, cumulative charge, and cumulative discharge.

#### Viewing 7-Day Charge/Discharge Information

Charge/Discharge histogram for the last 7 days.

#### **Viewing Plant Overview**

3D diagram of PV/ES/Load/Grid and corresponding active power and remaining charge.

The plant overview is shown below.

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#### II Plant Overview



#### **Viewing PV Information**

PV daily yield, total PV yield, and PV installed capacity

#### **Viewing 7-Day Yield Information**

Yield histogram for the last seven days.

## **Plant Configuration**

This section describes how to modify plant information and how to set the tariff.

## **Modifying Plant Information**

This section describes how to edit basic plant information



#### Prerequisites

It is <u>strongly recommended</u> you get in touch with DS Energy customer support, to facilitate the changes mentioned below, especially pertaining to the Time of Use and Tariff.

#### Procedure

- (a. Click "Plant configuration" ->"Tariff" to enter the corresponding interface
- (b. Fill in the basic plant information

Parameter	Description
Plant Name	User self-defined name
Owner's email	The email address of the end user, used for receiving fault and alarm
	notification messages
Power installed	Plant installed power
	Click "Setting" and a setting window pops up
	Click 🖉 to enter the power value, in kWp.
	Click "Confirm"
Plant type	It can be set to "100% feed-in" "Self-consumption", "Zero Export" or "Off-grid"
Location	The system automatically obtains the longitude, latitude and detailed address
	of the plant.
	Users can manually modify longitude, latitude, and detailed address of the
	plant
Image	Click "image upload" to select a local image and upload it
Country (Region)	Country (region) where the plant is located at
Time zone	Time zone of the plant
Time of	Time at which iSolarCloud commences to monitor the plant
connection	
Grid-connected	It is the time of creating the plant by default.
date	Click the icon ${}^{igsim}$ to modify the grid-connection time
Plant delivery	Delivery address and zip code for spare parts
address and zip	

Notes: \* indicates fields that must be filled in.

- The end user assigns the distributor/installer to manage the plant, and fills in the distributor/installer organisation code which can be obtained from the corresponding distributor/installer.
- If the end user changes another distributor/installer to manage the plant, click the button to modify the organisation code, so that the plant will be managed by another distributor/installer.
- The distributor/installer can change the organisation code to transfer the plant to another distributor/installer for management.
- Click "Save".



## Tariff

The tariff is used to calculate revenue.

This section describes how to set a specified tariff and TOU tariff.

#### Prerequisites

It is <u>strongly recommended</u> you get in touch with DS Energy customer support, to facilitate the changes mentioned below, especially pertaining to the Time of Use

#### Procedure

- (a. Click "Plant configuration" ->"Tariff" to enter the corresponding interface
- (b. Set the tariff to a specific value or set the TOU tariff
- (c. Setting the tariff to a specific value

Specific value: the tariff is the same for all time segments

- (i. Select a charging unit
- (ii. Enter the tariff
- (iii. Click "Save"
- (d. Setting TOU tariff

TOU tariff: the tariff is different at different time segment

- (i. Select a charging unit
- (ii. Enable "TOU tariff".
- (iii. Fill in start time, end time, and price
- (iv. Optionally, click "Add" to set time segment and tariff
- (v. Optionally, repeat the foregoing step to set TOU tariff for multiple time segments within a day
- (vi. Fill in "Price in other time period".
- (vii. Click "Save"

Click  $\times$  to delete the corresponding setting item

TOU tariff should cover 24 hours and be different in each time segment

## Fault

Click "Fault" on the menu bar to enter the fault list interface and view plant alarm information

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2000 L T 2004		Plant Name	Alarm Type	Fault Code	Alarm Name	Device Name	Occurrence Time	Operation
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2. Plant list

2. Fault query

3. Fault information list

4. Operation bar

## Plant List

Display information on the plants, devices, and measuring points

### **Querying Faults**

#### Procedure

- 1. Select the fault tab "Active" or "Fault History".
- 2. Set time segment, where the default time segment is one year
- 3. Enter the alarm name and fault code and select alarm type.
- 4. Click  $\bigcirc$  to view the corresponding faults

#### **Fault Query Bar**

Users can search corresponding faults by setting corresponding conditions

## **Other Functions**

Parameter	Description
Fault	To query a fault recording task, enter the task name, device name, device S/N,
Recording Task	and fault name in the search box.
	Click "View" to view the fault recordings for the corresponding task
Fault	Set refresh time in the upper right corner of the interface, where the minimum
Recording Task	interval is 5 minutes, and click $^{ m cl}$ to refresh the fault list
Batch Close	Select multiple faults in the fault list, and click "Batch close" in the upper right
	corner to close faults in batch
Fault Report	Click the icon 🗈 in the upper right corner to export faults within specified
	time segment, where the exported file is in .xlsx format by default



#### **Fault Information List**

In the fault information area, users can view information such as plant name, alarm type, fault code, alarm name, device name, and occurrence time. In addition, users can view fault details and close the faults. Click the plant name to jump directly to the single plant overview, and click the device name to jump directly to the device detail interface.

#### **Plant Operation Bar**

- 1. Click to view fault details
- 2. Click  $\times$  to close faults
- 3. Click he to deliver the fault recording task.

### **Closing Fault**

#### Procedure

- 1. Click the icon  $\times$  on the operation bar, to enter the fault closing interface
- 2. Fill in processing opinion
- 3. Click "Close fault".

## Repair

The section describes how to repair devices

#### Procedure

- (a. Click device name, and you will enter "General Information" interface by default
- (b. Click "Repair" at the bottom of the interface to enter the corresponding interface
- (c. Please get in touch with DS Energy on the following number (07) 3051 2051
  Who will errorge for a sustamer support orginaar to investigate

Who will arrange for a customer support engineer to investigate and attempt to repair the fault remotely. If this is not possible, then

(d. DS Energy will aid you in filling out the fault information, instruct on how you can upload a fault picture, and ultimately coordinate a site assessment.

Parameter	Description			
Fault	Fault and warning			
Classification				
Processing	Estimated time for processing the fault.			
time	Includes emergency, 1 hour, 8 hours, 1 day, 3 days, 3 days above			
Source	Cause of the fault			
	Includes manual inspection, routine maintenance, interval test, device			
	maintenance, device rebuilding, system note, and other sources			

(e. If the remote repair method is successful, you will be able to view the repair information on the fault interface.



## Report

View plant statistics reports (daily report, weekly report, monthly report, annual report, overall report and plant report); or create self-defined reports.

#### **Interface Description**

Click the menu "Report" to enter the report interface and view report information

All Customized Report Statistics Reports Customized Report			 	0	0
Add	236589 — Plant Report(Day)	123 Plant Report(Day)	test Plant Report(Day)	· · · · · · · · · · · · · · · · · · ·	
III Plant Report(Day)	E22				
Statistics Reports					1. C.
Daily Report	weekly keport	Monthly Report	Annual Report		
Plant Report				2	

1. Display area 2. Report push configuration

The figure is for reference only. The actual interface may be different and shall prevail

#### Display Area

Content displayed in the area varies with function interfaces.

#### **Report push configuration**

The report can be sent to the reserved e-mail box through configuration

#### **Custom Report**

Users can create self-defined reports according to demands

#### Procedure

- 1. Click the menu "Report" to enter the "All" tab by default
- 2. Click "Custom report" to enter the corresponding interface.
- 3. Click "Add" and enter the Page Report interface by default.
  - Select the report type, report period, and the parameter indicators to be displayed
  - Click "Save", enter the report name, and click "Confirm" to add the new report to the custom report.
- 4. Click "Add" and then click "EXCEL Report".



- Select the report type, report period, plant (multiple choices supported) and the parameter indicators to be displayed (Multiple choices supported)
- Click "Generate Comparison Excel" or "Generate Statistics Excel" to generate the corresponding EXCEL report according to your needs
- Click "Task List" in the upper right corner to view the operation time and status of historical custom reports.

#### View Custom Report

#### Procedure

- 1. Click "Report" on the menu bar to enter the "All" tab by default
- 2. Click "Custom report" to enter the corresponding interface.
- 3. Click the custom report tab you want to view to enter corresponding interface
- 4. Tick the plant (multiple choices supported) and click  $\equiv$  to set the time to display the plant report for the day.
- 5. Click "Switch Table" to switch the table style.
- 6. Click "Modify" to modify the custom report settings.
- 7. Click "Delete" to delete custom report.
- 8. Click 🖹 to export the table.

#### **Statistics Report**

You can view statistics report of a plant, and the report types include daily report, weekly report, monthly report, annual report, overall report and plant report.

The procedure of viewing daily report, weekly report, monthly report, annual report, and overall report are the same, and description is given by using the steps of viewing dailt report as an example. The procedure of viewing plant report is different from others, refer to "view plant report" for more details.

#### **View daily Report**

#### Procedure

- 1. Click the "Report" on the menu bar to enter the "All" tab by default
- Click "Statistics report" -> Daily Report" to enter the corresponding interface, on which statistics information of the plant on the current day is displayed by default, including today yield, today revenue, etc.
- 3. Perform the following operations according to actual conditions.
  - Viewing report on the specific day
  - Click the icon , select the desired date. Corresponding data will be displayed. • Exporting report

Click "Export" to export the report locally.

#### **View Plant Report**

#### Procedure

1. Click the "Report" on the menu bar to enter the "All" tab by default



- 2. Click "Statistics report" -> Plant Report" to enter the corresponding interface.
- 3. Tick the pant in the plant list on the left (Multiple options available) to view the plant report. By default, the interface will display the daily statistics of the plant, such as daily yield, total yield, daily purchased yield energy, daily feed-in energy, daily equivalent hours, etc.
- 4. According to the actual situation, perform the following operations.
- 5. Click "Day", "Month", "Year", "Total" to view the daily, monthly, yearly, or the total report of the plant
- 6. Click and select the date to view the plant report data for the corresponding date.
- 7. Click  $\checkmark$  to switch the report data interval time.
- 8. Click "Switch Table" to switch the table format
- 9. Click "Screening Column" to filter the data displayed in the report
- 10. Click "Task List" to view the history of downloaded reports
- 11. Exporting Report

Click "Export" to export the plant report locally

Click  $\stackrel{\scriptstyle{\frown}}{}$  behind "Export" and select "Export All Plants" to export all plant reports locally.

## **Plant Sharing**

End user can assign plants to other end users or distributor/installer for management.

### Prerequisites

Only the end user can share plants, and the distributor/installer does not have the sharing permission but can receive shared plants.

#### Procedure

- 1. Click the icon  $\square$  on the operation bar, to enter the sharing interface.
- 2. Click "ADD Share" and the ADD Share window pop up.
- 3. Fill in the "Shared email" select sharing authority (Read Only or Management)

#### Description of sharing permission

Parameter	Description		
Read - only	Users can only view data of the plant		
Management	Users can manage the plant but cannot delete the plant		

## 4. Click "Confirm" to finish the sharing operation

Plants can be shared to at most 6 users who have the management permission, but the number of users who can view plant information is not limited. The user cannot share the plants shared to him by the end user to other users.

#### **Subsequent Procedure**

Once the sharing is cancelled, the user to whom a plant is shared cannot view or manage the plant any more.

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- The end user cancels the sharing
  - (i. Click the icon  $\square$  on the operation bar, to enter the sharing interface
  - (ii. Click the icon  $\overline{\mathbb{U}}$  on the operation bar, to cancel the sharing
  - The user to who a plant is shared cancels the sharing
  - (i. Click the icon  $^{b}$  in the plant operation area, and a window pops up.
  - (ii. Click "Confirm"

### **Plant Publicity**

When "Publish plant" is turned on, the plant can be shared to visitors.

### Prerequisites

The end user has the permission of turning on "Publish plant".

The user has plants

## Procedure

- (i. Click the icon  $\square$  on the operation bar, to enter the sharing interface
- (ii. Turn on the "Publish plant" switch, so that visitors can view the plant data.

## Subsequent Procedure

The end user cancels plant publicity

- (i. Click the icon  $\square$  on the operation bar, to enter the sharing interface
- (ii. Turn off the "Publish plant" switch, so that visitors can view the plant data.
- (iii. Click the icon  $^{ab}$  in the plant operation area, and a window pops up.
- (iv. Click "Confirm"

## Curve

Click "Curve" on the menu bar to enter the "Curve" interface and view the curve of the plant and device.





1. Plant list 2. Time range 3. Refresh time 4. Query template 5. Display area

## Plant list

Display information on the plants, devices and measuring points

#### Time range

Set the time range and time interval

#### **Refresh time**

The refresh time is 5 min by default (the minimum refresh interval). Tick "Refresh time", and click the icon 🔨 to increase the value or click the icon 💟 to decrease the value.

### Query template

Save template: save the current search conditions as a template for future using.

Template library: use the existing templates.

### **Display area**

Display the plant or device information, such as curve and report.

### **Viewing Curve**

## Procedure

- 1. Click "Curve" on the menu bar to enter the corresponding interface.
- 2. Select parameters of a corresponding device in the plant list to add a parameter curve. The upper display area displays curve within a day by default. The lower part displays parameter list. You can change the curve type and statistical patter.
- 3. Optionally, click the icon in the upper right corner of the interface to display the parameters in the table form. Click "Export", select a desired location, and click "save" to save the report locally.

## Subsequent Processing

- Deleting a single curve Click the icon in the parameter list area, to delete the corresponding curve
- Deleting all curves
   Click the icon <sup>10</sup> in the title bar of the parameter list area to delete all the curves

## Alarm Search.

- 1. Select a plant from the plant list.
- 2. Enter the alarm name in the search bar, click  $\checkmark$  and select the open status
- 3. Click  $\bigcirc$  to view information about alarms that meet the query criteria.



## Feedback.

### Submit feedback

- 1. Click the icon 🖾 in the lower right corner, to access the "Feedback" interface.
- 2. Select product type, plant, device type, and device S/N, fill in problem description, add contact information (optionally), and upload screenshots and files (optionally).
- 3. Click "Submit" to finish the operation

### My feedback

- 1. Click the icon 🖾 in the lower right corner to access the "Feedback" interface.
- 2. Click the icon 🖾 in the upper right corner to access the "My Feedback" interface.
- 3. Enter the "All" tab by default. Alternatively, change the tab to "Pending", "Processing", or "Already Closed" to view the corresponding feedback.
- 4. Perform the following operations if necessary
  - Query feedback

Fill in the problem/work order No., and click the icon  ${\bf Q}\;$  , to view the corresponding feedback

- Reply feedback

Select the question to be replied, click "Reply", fill in your opinions, upload screenshots and files (optionally), and click "Submit"

- Close problem

Select the question to be closed, click "Close Problem", and click "Confirm" on the pop-up window.

It is advisable to get in touch with your installer, DS Energy, at the following if you have questions about your monitoring.

Email: <a href="mailto:solartech@dsenergy.com.au">solartech@dsenergy.com.au</a>

Phone: 07 3051 2061