EMS Function Introduction

V1.0.1

PREPARED FOR VOLTHA ENERGY PROJECTS



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1 Technical Parameters of ES Series

1.1 Product Description

The ES series energy controller is an embedded energy controller developed by Shenzhen MEGAREVO Technology Co., Ltd. The controller collects data and signals from local equipment and ensures the safe, reliable, and economic operation of the energy storage system through internal logic. Adopting the Internet of Things architecture based on edge computing, the controller can download decision-making models through the background or cloud system to achieve intelligent operation of the energy storage system. This controller has various control modes such as peak-valley arbitrage, demand control, and photovoltaic-storage complementarity.



Figure 1.1 ES-01



Figure 1.2 ES-03



Figure 1.3 ES-02



Figure 1.4 ES-04

1.1.1 Technical Parameters of ES-01 to ES-03

- 1) Input Power: 1-channel DC9~36V
- 2) Power Consumption: <15W
- 3) CPU: Single-core 800MHz, ARM architecture, 32-bit, NXP
- 4) Operating System: Embedded Linux
- 5) Storage Capacity: < 64GB
- 6) Measurement Accuracy: Voltage <0.1%; Current <0.5%; Temperature <0.5°C; Time Resolution <0.1s
- 7) Monitored PCS Quantity: < 10
- 8) Ethernet 100M: 2 independent network ports
- 9) Operating System (OS): Linux
- 10) Communication Protocols: CAN, MODBUS, MQTT
- 11) Time Synchronization: NTP
- 12) Communication Interfaces: 5 RS485, 2 CAN
- 13) I/O Ports: 3DO, 6DI
- 14) Number of Connected Air Conditioners: < 10
- 15) Number of Connected Electricity Meters: < 8
- 16) Number of Connected Photovoltaic (PV) Inverters: < 10
- 17) USB Ports: 1
- 18) 4G Interface: 1

1.1.2 Technical Parameters of ES-04

- 1) Input Power: 1-channel AC220V (standard), 1-channel AC220V + 1-channel DC400~850V (optional)
- 2) Power Consumption: < 20W
- 3) CPU: Single-core 800MHz, ARM architecture, 32-bit, NXP
- 4) Operating System: Embedded Linux
- 5) Storage Capacity: < 64GB
- 6) Measurement Accuracy: Voltage <0.1%; Current <0.5%; Temperature <0.5°C; Time Resolution <0.1s
- 7) Monitored PCS Quantity: < 10
- 8) Ethernet 100M: 2 independent network ports
- 9) Operating System (OS): Linux
- 10) Communication Protocols: CAN, MODBUS, MQTT
- 11) Time Synchronization: NTP
- 12) Communication Interfaces: 7 RS485, 2 CAN
- 13) I/O Ports: 11DO, 14DI
- 14) Number of Connected Air Conditioners: < 10
- 15) Number of Connected Electricity Meters: < 8
- 16) Number of Connected Photovoltaic (PV) Inverters: < 10
- 17) USB Ports: 1
- 18) 4G Interface: 1

1.2 Installation and Wiring

1.2.1 Environmental Requirements

- 1) Standard operating temperature: -10°C to +55°C
- 2) Extreme operating temperature: -25°C to +55°C
- 3) Storage temperature: -40°C to +70°C
- 4) Operating humidity: 5% to 95% RH, no condensation or icing

1.2.2 Model Specifications

Model Specifications: ES-xx				
ES-01	10.1-inch display screen			
ES-02	SCADA functionality without display screen			
ES-03	7-inch display screen			
ES-04	Built-in ES-01/ES-02, configured according to the project site			

1.3 System Functions

Function		Description				
	SCADA	Data display of equipment, including topology diagrams, status, alert information, etc.				
	PCS	Analog, status, real-time data, and alert information of PCS.				
Monitoring	BMS	Analog, status, information, alerts, SOC, SOH, and other data of batteries.				
	Air Conditioning	Analog, status, information, and alerts of air conditioning systems.				
	Other Equipment	Display of information from fire-fighting equipment, environmental monitoring equipment, etc.				
Alort	Operational Alert	Alerts such as PCS alarms, air conditioning alarms, battery alarms, etc.				
Alen	Communication Alert	Communication anomaly alerts.				
Scheduling	Multiple Scheduling Strategies	Operations such as peak shaving, steady-state expansion, and transient expansion.				
	PCS Logs	Recording of alarms generated during PCS commissioning.				
Las	BMS Logs	Recording of alarms generated during BMS commissioning.				
Log	Air Conditioning Logs	Recording of alarms generated during air conditioning commissioning.				
	Air Conditioning Logs	Recording of remote/local scheduling commands.				
	Charging Statistics	Charging curves for today, this month, and this year.				
	Discharging Statistics	Discharging curves for today, this month, and this year.				
Statistics	Power Generation Statistics	Power generation curves for today, this month, and this year.				
	Power Purchase Statistics	Electricity purchase curves for today, this month, and this year.				
	Power Sale Statistics	Electricity sale curves for today, this month, and this year.				
	Remote Upgrade	Remote upgrade of PCS, remote upgrade of BMS (customizable according to customer requirements).				
Maintenance	Remote Debugging	Remote debugging of on-site equipment.				
	Remote Parameter Modification	Remote modification of device setup parameters.				

1.3.1 SCADA Equipment Monitoring

Data display of key equipment throughout the system, including topology diagrams, status, alert information, etc.

13:43:06 2024-11-13 **3** High Mode Device PV power generation: Battery charge electricity: Param Battery disccharge electricity: 625.8kWh Record 322.1V -322.4A 322.2V -322.5A System 10A Load electricity consumption: 425.9kWh Grid-purchased electricity: 327.2kWh Grid-sold electricity:

As shown in Figure 1.5 of the System Monitoring page.

Figure 1.5 System Monitoring Page



🖒 Home	
Hode	(00:00, 0) (00:00, 0)
Device	389-
Param	278-
Record	167-
🛞 System	56-
	0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 -56-
	-167-
	-278-
	-389-
	-500-

1.3.3 EMS Energy Control

Through this interface, you can set the control mode of the energy storage system, including scheduling methods, time-of-day control methods, and various other types.

🔓 Home			MEGAR	
D Mode	Parallel: Parallel-i✔ Work: se	elf-use 🗸 Contro	l: MPS 🗸	Schedule Mixed
Device	DCAC			
Param	Grid connect mode	Off-grid 🗸	DG ECP(kW)	3420kW
	Constant power(kW)	20kW	DG FCP(kW)	3421kW
C Record	Grid expansion enable	Disable 🗸 🗸	Grid ECP(kW)	3422kW
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Grid capacity(kW)	0	Grid FCP(kW)	0kW
System	Generator charge limit(kW)	0kW	Grid EDP(kW)	0kW
	Generator capacity(kW)	0kW	Grid FDP(kW)	0kW
	Start charge SOC(%)	0%		
	Stop charge SOC(%)	0%		
	L DCDC			
	work partern	cv 🗸	Constant current	95A
	Boost or Buck	BUCK 🗸	DCDC switch	Shutdown 🗸
	Constant voltage	0V	Out-Ring centralized	Enable 🗸

 Table 1.1
 Control Mode Table

	The system will schedule the charging and discharging of energy based on the electricity price
Peak-valley mode	curve (operation time periods can be manually set or data can be acquired through the API
	interface of the local power grid).
Standy state evenesion	The energy storage system adjusts charging and discharging power and energy storage to solve
Steady-state expansion	the problem of insufficient transformer capacity.
Tronsiont organism	The energy storage system adjusts charging and discharging power and energy storage rapidly
I ransient expansion	(on the millisecond level) to help solve the problem of insufficient line capacity.
	In grid-connected mode, the battery is maintained in a fully charged state. When power is lost,
Backup power mode	the energy storage system supplies power to the load to prevent important loads from being
	disconnected.
Hadan' dana da	According to customer needs, set the operation strategy of the photovoltaic and energy storage
Hybrid mode	integrated system to achieve optimal results.

# 1.3.4 BMS Battery System

Battery stack, a battery stack is composed of one or more battery clusters. Corresponding system page:

🔓 Home				MEGAREVO	13:44:00 2024-11-13
Bo Mode		Converter	BMS	Air-condition	BAS
- Device	BMS-1				
Param	60%				
C Record					
💿 System	Battery SOC: 60% Battery SOH: 1009	́ю %			
		-			

1) Battery cluster data

G Home					$  \bigoplus_{2024-11-13}^{13:44:04}$
Go Mode		Converter	BMS	Air-condition	BAS
Device	Stack	Cluster < 1/5 >			
Param	60%	Total voltage Total current	700V 50A	Average cell Volt Average cell Temp	3322mV 6.5°C
Carl Record	Total volt 100V	Cluster SOC	7%	Cluster SOH	10%
<u> </u>	Total curr 5A	Max cell volt SBMU	0	Accu char capacity	0
رِي _َ System	Max cell volt 4122mV	Max cell volt numb	15	Accu disc capacity	0
	Min cell volt 4126mV	Max cell volt value	3333mV	Precharge voltage	0
	Arren cell welt 4107mW	Min cell volt SBMU	0	Charge capacity	0
	Aver cell volt 412/mv	Min cell volt numb	16	Discharge capacity	0
	Max cell temp 35°C	Min cell volt value	3300mV	Max charge current	0A
	Min cell temp 30°C	Max cell temp SBMU	0	Max discharge current	0A
	Aver cell temp 0°C	Max cell temp numb	17	Positive Insulation	0kΩ
	Allow char curr 411 5A	Max cell temp value	6.6°C	Negative Insulation	0
	Allow disc curr 411.6A	Min cell temp SBMU	0	Cell voltages	More
	More	Min cell temp numb Min cell temp value	18 6.3℃	Cell temperatures	More

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## $2\,)\,$ Temperature information of all cells in the battery cluster

🔓 Home						<u></u>	13:44:12 2024-11-13
👫 Mode		Cell temp 1	30°C	Cell temp 29	0°C	on	BAS
- Device	Stack	Cell temp 2	30°C	Cell temp 30	0°C		
		Cell temp 3	30°C	Cell temp 31	0°C		
Param		Cell temp 4	30°C	Cell temp 32	0°C	Volt	3322mV
Record		Cell temp 5	0°C	Cell temp 33	0°C	Temp	6.5°C
	Total Total	Cell temp 6	0°C	Cell temp 34	0°C	pacity	10% 0
🛞 System	Max ce	Cell temp 7	0°C	Cell temp 35	0°C	bacity	0
	Min ce	Cell temp 8	0°C	Cell temp 36	0°C	oltage	0
	Aver ce	Cell temp 9	0°C	Cell temp 37	30°C	pacity	0
	Max ce					- current	0A
	Min ce			close		ge current	0A
	Aver ce.	· comp				lation	0kΩ
	Allow cl	nar curr 411.5A	Max cell te	mp value	6.6°C Negati	ve Insulation	0
Allow disc curr 411.6A More			Min cell te	mp SBMU	0 Cell vo	oltages	More
			Min cell ter Min cell ter	Min cell temp numb 18 Min cell temp value 6.3°C		mperatures	More

# 3) Voltage of all battery cells

🕝 Home									<b>* 11</b> (13:44:08 2024-11-13
G Mode		Cell voltage 1	3000mV	Cell voltage	113	0mV	<b>_</b> 0	n	BAS
= Device	-Stack-	Cell voltage 2	3000mV	Cell voltage	114	0mV			
		Cell voltage 3	3000mV	Cell voltage	115	0mV			
Param		Cell voltage 4	3000mV	Cell voltage	116	0mV	V	olt	3322mV
Record		Cell voltage 5	3000mV	Cell voltage	117	0mV	Г	"emp	6.5°C
	Total c	Cell voltage 6	3000mV	Cell voltage	118	0mV	р	acity	0
्र्ि System	Max ce	Cell voltage 7	3000mV	Cell voltage	119	0mV	Da	acity	0
	Min ce	Cell voltage 8	0mV	Cell voltage	120	0mV	1	tage ity	0
	Aver ce	Cell voltage 9	0mV	Cell voltage	121	0mV	p	acity	0
	Max ce	J					n	urrent	0A
	Min ce			close			ge 1	e curre	ent OA
	Aver ce.		May call to	mn voluo	6.6°C	Nogoti	la Inc. Inc. 1	lotion	ORG2
Allow char curr 411.5A Allow disc curr 411.6A		Min cell ter	mp value	0.0 C	Negativ		lation		
		Min cell ter	np sbmo	18	Cell vo	ltages		More	
		More	Min cell ter	Min cell temp value 6.3°C		Cell temperatures		More	

# 1.3.5 Dynamic Environment System



# 1.3.6 System Configuration

G Home			MEGAR	13:44:40 2024-11-13
Hode Contraction				
Device		<u>æ</u> ≞		
Param		4	$m^{*}$	
A Record				
🛞 System	CONV	BAT	AIR	EMS

# 1.3.7 Alarms and Logs

## You can enter through the menu.

G Home		13:44:56 2024-11-13
Hode Mode	ModificationTime	RecordEvent
E Davias	1 2024-04-01 06:29:03	workMode: Battery priority -> Optimal mode
Device	2 2024-04-01 06:29:01	workMode: Manual mode -> Battery priority
🐤 Param	3 2024-04-01 06:29:00	workMode: -> Manual mode
	4 2024-04-01 06:28:30	controlMode: -> EMS remote
Record		
( System		
System		

# 2 APP Function

# 2.1 Login Function

1) Users can log in using email + password or username + password.

L	ittle Su	un
온 Username		
🔒 Password		
Verify Code		-iyel
	Login	
Register	l Virtual Demo	Forgot Password

- 2) Users without accounts need to register first. Click the registration button at the bottom left to register.
- a. Enter your email to get a verification code, and click next after successful verification.

<	Register
	Email
	Please enter Email
	Verify Code
	Please enter verify code Send
	Next
	I have read and agree (T&Cs) (Privacy Policy)

b. Fill in the registration information.



c. Registration successful.



- 3) Forget password
- a. Click "forget password" and enter the email for verification.



b. After successful verification, enter a new password and confirm it.



c. Password reset successful, use the new password to log in.



4) There is also a "guest" button below the login button, allowing users to browse the app without registration.

Lit	tle S	Sun
오 Username		
A Password		
Verify Code		<b>SUjN</b>
	Login	
Register	I	Forgot Password
	/irtual Den	0

# 2.2 Power Station

Q Please	enter the power	station name	) +
5 Online	2 Warning	0 Offline	5 Total
🚯 Singa	pore		
2024/09/20 14:55:00	2 kW Power 51 kWh E-Today	21280.54SGD Total Yields 76500 kWh E-Total	
🚯 Cape	Town		
2024/09/20 09:55:00	4 kW Power 55 kWh E-Today	31395.5ZAR Total Yields 82500 kWh E-Total	
🚯 Berlin	1		
2024/09/20 08:55:00	2 kW Power 56 kWh E-Today	31901.97EUR Total Yields 84000 kWh E-Total	
🚯 Brasíl	ia		
2024/09/20 03:55:01	kW Power 53 kWh E-Today	37986.72BRL Total Yields 79500 kWh E-Total	
New	York	Event (	 8 Me

# 2.2.1 Create Power Station

<	Create Plant	< System	ı Info	<	Yield Info
Name		Plant Type		Currency	
Address		PCS Capacity(kWp)		Yield	
					⊖ Fad Data
		Photovoltaic Capacity(kWp)		Start Date	
		Battery Capacity(kWp)			
		Install Date(kWp)		Start Time	End Time
Longitude	Latitude	0		Price	
Please enter the f					
Time zone					
UTC+08:00 Beijin	g,Chongqing,Hong Kong,Urumqi				
	Next	Ne	đ		Submit

## 2.2.2 Delete Power Station

Q Please enter the power static	on name +					
5 2 Online Warning Update Time *	0 5 Offline Total	5 Online Warning Update Time \$	0 Offline Total			
General Singapore		🚯 Singapore				
2 kW Power 2024/09/20 51 kWh 14:55:00 E-Today		2 kW Power 2024/09/20 14:55:00 E-Today				
🚱 Cape Town		<u>a</u>				
4 kW Power 2024/09/20 55 kWh 99:55:00 E-Today		After deletion you wi any content of this p want to continue?	Int Il not be able to see ower station, do you			
🚯 Berlin		Cancel	Confirm			
2 kW Power 2024/09/20 08:55:00 E-Today		2 kW Power 2024/09/20 08:55:00 E-Today	31901.97EUR Total Yields 84000 kWh E-Total			
_ <b>_</b>		💮 Brasília				
Edit		kW Power 2024/09/20 3:55:01 E-Today				
		New York	 Event Me			

# 2.2.3 Authorization Information



#### 2.2.4 Power Station Details

<	Overview		<	Device List		<	Event	
		3 ower(kW)	Logger PCS-H		Converter over current Warming sn: Z0000000000-1 Plant: Singapore		Warning	
	3 Power(kW)							
	Capacity(kWp)		kW Power	kWh E-Today		Source: PCS-H		
<b>53</b> kWh Today	1325 kWh 15900 kWh Month Year	<b>79500</b> kWh Total	© 2024-09-20 15:00:00	€ rocky		© 2024-04-01 16:35:00		
						Converter over curren	t	Warning
Power Flow		Detail >				sn: Z00000000000-1 Plant: Singapore		
₩ 3kW						Source: PCS-H		
						© 2024-04-01 11:35:00		
Ī								
E 1kw		21/W						
Generation F	Purpose							
	Consumption	20 kWh						
E-Today	Export	20 kWh						
34KVV	Charging	14 kWh						
<b>^</b>	\$	B	<b>^</b>		B	A	¢	E
Overview				Device				Event

The power station list in the APP includes all power stations under the account.

Power Station Module Functions:

1) Power Station Name Filtering: The top input box allows for precise and fuzzy filtering to view the desired power stations.

2) Power Station Status Filtering: Four status options below the input box enable filtering to view power stations within a specific range.

3) Update Time Filtering: Clicking on the update time filter allows sorting power stations in ascending or descending order based on their update time.

4) Create Power Station: Clicking the "Add Power Station" button in the top-right corner allows adding a new power station.

5) Edit Power Station: Clicking the expand button on the right of a single power station and selecting "Edit Power Station" brings up the editing interface, which is similar to the one for creating a power station.

6) Delete Power Station: Clicking the expand button on the right of a single power station and selecting"Delete Power Station" initiates the deletion process (with a secondary confirmation).

7) Authorize Power Station: Clicking the expand button on the right of a single power station and selecting "Authorization Information" redirects to the authorization list, where you can switch identities, cancel authorizations for existing merchants, or add new authorized merchants by clicking the top-right corner.

8) Power Station Details: Clicking on a single power station leads to its details, which are divided into three modules (Overview, Equipment, Alerts).

a. Overview: Contains basic information about the individual power station (generation information,

energy flow topology diagram, power generation usage chart, power generation data chart, power station weather, energy conservation and emission reduction).

b. Equipment: The equipment list in the power station details only displays the equipment information of the current power station, with functions similar to those of the equipment module.

c. Alerts: The alerts list in the power station details only displays the alert information of the current power station, with functions similar to those of the alerts module.

## 2.3 Equipment

Devic	e List	Q
Logger PCS-H		
5 0 Online Warning	0 Offline	5 Total
zoooooooooo     zoooooooooo     zoooooooo		
Power	E-Today	
© 2024-09-20 15:00:00	💣 Singapore	
	kWh	
Power	E-Today	
© 2024-09-20 10:00:00	💣 Cape Town	
20000000002		
	kWh	
Power	E-Today	
© 2024-09-20 09:00:00	💣 Berlin	
<u> </u>		
	kWh	
	Event	8

#### 2.3.1 Parameter Settings

Device List	Q	Setting(Z0000000000-1)	Self-generation and self-consumption
Logger PCS-H		Self-generation and self-consumption	DCAC settings
5 2 0 5 2 0		Battery priority	Grid connected mode of PCS 🕥
Online Warning Offline		Optimum mode	● Off-grid ● On-grid ● Automatic Renewal
<b>20000000000-1</b>		Manual	Control ave de 🔿
2 kW kWh		Lithium battery setting parameters	
© 2024-09-20 15:05:00		Lead-acidbattery setting parameters	Cocal Remote Renewal
20000000001-1		Function parameters	Start charging SOC(1 ~ 100) 🕑
5 kW kWh		System parameters	0 Renewal
Power E-Today			
🕓 2024-09-20 10:05:00 🔰 💣 Cape Town			DG capacity(1 ~ 630) 📀
2000000002-1			600 Renewal
3 kW kWh			Grid expansion enabling
Power E-Today			
() 2024-09-20 09:05:00 @ Berlin			Prohibition of grid expansion
Preferences			
Operation Strategy			Grid capacity 📀
Cancel			500 Renewal

## 2.3.2 Operational Strategy

Device List	C Operation Strategy(BR0323000222-1)	Add <	Strategy	List Add
Logger PCS-H 5 2 0 Online Warning Offline	Policy Name: Mixed Mode Unbur Policy Name	O	Policy Name: <b>Mixed Mode</b> Start Date: 	Execution Cycle: Keep Repeating End Date: 
żooooooooooooooo         kWh           2 kw         kWh           Power         E-Today			Run Template: Mixed Mode Detail	Description: 123123 Have Been Added
<ul> <li>S 2024-09-20 15:05:00</li></ul>				
Power         E-Today           © 2024-09-20 10:05:00           @# Cape Tow				
3         kW         kWh           Power         E-Today				
Preferences Operation Strategy				
Cancel				

The equipment module list displays all the equipment across all power stations.

Equipment Module Functions:

1) Device SN Filtering: Click on the search icon in the top-right corner to filter devices by their Serial Numbers (SN).

2) Device Type Filtering: The top of the device list displays all the device types that the equipment belongs to. Click on a specific type to filter the devices.

3) Device Status Filtering: Filter devices by selecting one of the four device status options at the top.

4) Device Parameter Settings: Click the expand button on the right of a single device and select "Parameter Settings." Choose the corresponding mode to issue parameters to the device.

5) Device Operational Strategy: Click the expand button on the right of a single device and select "Operational Strategy." You can enable/disable the bound strategy, unbind the operational strategy, and when there's no matching operational strategy, click the top-right corner to add one by navigating to the strategy list and selecting the desired operational strategy.

## 2.4 Alerts

Q Please enter serial number		<	Event Detail
Importance 🔻 Alarm Date 🔻		Basic Info	
Low voltage side voltage low	Failure	Status	
sn: <b>F2000000002-15</b> Plant: 黎巴嫩_瑞浦电池		Plant	黎巴嫩_瑞浦电池
Source: PCS-H		Device	PCS-H
© 2024-09-05 17:06:42		Mode	
High temperature alarm	Warning	Level SN	F2000000002-15
sn: F2000000002-1			
Plant:黎巴嫩_瑞浦电池		Event Informatio	n
Source: Air Conditioner		Description	Low voltage side voltage low
© 2024-08-30 14:21:09		Code	10510
Power meter communication failure	Failure	Time	2024/09/05 17:06:42
sn: F1222222223-1			
Plant: Excellerate Holdings		Solution	
Source: PCS-M			
 © 2024-03-30 14:33:15			
BMS communication failure	Failure		
sn: F1222222223-1			
Plant: Excellerate Holdings			
Source: PCS-M			
Plants Equipment Event	8 Me		

The alerts module list displays all alert information for all devices.

Alerts Module Functions:

1) Device SN Filtering: Filter corresponding device alert information by entering the device's Serial Number (SN).

2) Alert Level Filtering: Click on the alert level filter and select the corresponding alert level to filter the alert information.

3) Alert Date Filtering: Click on the alert date filter and select the corresponding alert date to filter the alert information.

4) Alert Details: Click on a single alert to enter the alert details page and view detailed alert information and solutions.

# 2.5 Personal Information



# 2.5.1 Personal Information



#### 2.5.2 Message Notifications



#### 2.5.3 Operational Strategy

< s	trategy List	New	< Policy	v Details		< Policy	Details Edit
Policy Name: <b>text1</b> Start Date:	Execution Cycle: Keep Repeating End Date:		Policy Name text1 Start Date	Execution Cycle Keep Repeating End Date		Policy Name text1	Execution Cycle Keep Repeating
 Run Template:	 Description:		 Description	 Run Template			
Detail	Edit		00:00 - 05:30 Standby	12kW 31%	~	test1111	Peak Shaving
Policy Name: <b>11</b>	Execution Cycle: Repeat Weekly		Start Time 00:00	End Time <b>05:30</b>		00:00 - 05:30 Standby	12kW 31% ~
Start Date: 2024-05-06	End Date: <b>2024-05-21</b>		Controling Type Standby	Planned Power(kW) <b>12</b>		00:00 V	05:30 ~
Run Template: Peak Shaving			Target SOC(%) <b>31</b>			Controling Type Standby	Planned Power(kW) 12
Detail Policy Name:	Edit Execution Cycle:		05:30 - 08:00 Charge	24kW 21%	~	Target SOC(%)	Add
test11 Start Date:	Keep Repeating		Start Time 05:30	End Time <b>08:00</b>		05:30 - 08:00 Charge 2	4kW 21% ~
 Run Template:	 Description:		Controling Type Charge	Planned Power(kW) <b>24</b>		Start Time	End Time
Detail	ion 123321展示测试, Edit		Target SOC(%) 21			Controling Type	Planned Power(kW)

## 2.6 Switch Language



The User Module encompasses personal information (avatar, username, email) during user registration, message notifications, operational strategies, language switching, notification management, learning manuals, app version numbers, and logout functionalities.

1) Personal Information: Users can edit their personal information.

2) Message Notifications: Clicking on the message button in the top-right corner allows users to view alert notification information for their current account.

3) Operational Strategies: Users can manage their created operational strategies here, including editing, deleting, and creating new ones.

- 4) Switch Language: Users can switch to their preferred language.
- 5) Notifications: Users can control whether to receive push notifications by enabling or disabling them.
- 6) Learning Manual: The learning manual serves as the product's user guide.
- 7) Version Number: Displays the current version number of the app.
- 8) Logout: Clicking the logout button logs out the current account.

# 3 Cloud Platform User Interface

#### 3.1 Overview

The Cloud Platform is an intelligent management system based on cloud computing and big data technology, specifically designed to meet the demands of efficient operation and maintenance, optimized dispatching, and real-time monitoring of energy storage equipment in power systems. With the rapid development of renewable energy, the scarcity of flexible resources in power systems has become increasingly prominent, leading to a gradual increase in the value of energy storage in power systems. This platform aims to provide users with efficient, stable, and economical energy storage services through integrated management and intelligent analysis.

#### 3.2 My Power Stations

The My Power Stations section is a core functional area of the system, designed specifically for power station managers and operation and maintenance personnel. This section offers a one-stop power station management experience, enabling users to conveniently monitor, control, and manage power stations. By adding data collectors, real-time data monitoring of power stations is achieved, providing real-time data for power station data analysis and alarm reporting. The feature of switching between power stations facilitates quick access to detailed data of each power station. The use of data charts and energy flow diagrams meets users' needs for data monitoring and analysis of power stations.

#### 3.3 Large Screen Display

The Large Screen Display section helps users quickly summarize and visualize power station data, providing an intuitive and clear display of power station data. It allows users to comprehensively understand the current operation status of power stations and make more scientific and effective management decisions.

#### 3.4 Registration and Login

#### 3.4.1 Registration

If your email address is being used for the first time to register for the Cloud Platform User Interface, you need to fill in user information according to the prompts on the page during the registration process. Once the registration is successful, you can log in. The following is a diagrammatic representation.

1) Start Registration

and the second				English
	Intelligent Monitor S	System		
	Agent Installer	User		
Judge Constant	User name or email address		1	
the second second	Password	*		
	Verification Code	<b>FHMp</b>		/
	Register	Forgot Password?		/
	Log In			
	Visitor	_		
			7-	
	X			

2) Obtain Verification Code

Enter E-mail	2 Enter User Info	Registered
	E-mail	
States and the second second	E-mail	
and and	Verification Code	
A TOPA	Send	
	Next	
	I have read and agree T&Cs Privacy Policy	

3) Fill in User Information

1 Enter E moil	2 Enter liter Info	3 Banistarad
	Line ose ino	Registereu
	Name	
an Ille Ma	Username	
	Password	
	Password	
	Please Confirm	
	Confirmation Password	~

4) Registration Successful

Fnter	1 r E-mail	2) Enter Liser Info	1 Registered	
			Registered	
		券 Registered Successfully! ! !		
an Reality		Go At Once Login		_
				/
X				

#### 3.4.2 Login

After completing the account registration, select the "User" role, use the email or username you used during registration to log in, enter the corresponding password, and click "Login" to access the Cloud Platform User Interface.

		English
	Intelligent Monitor System	
2	Agent Installer User	
	Luser name or email address	
in an ille and	Password 😽	1-1
	Verification Code	
	Register Forgot Password?	
	Log In	
	Visitor	
		7
	X	

To facilitate users in quickly experiencing the Cloud Platform's functions, the platform has enabled a guest login feature. Simply click "Guest Login" at the bottom of the login page to enter the User Interface for a browsing experience.

and the second	and the			English
	Intelligent Monitor Sy	stem		1
	Agent Installer	User		
	LUser name or email address		1	
in an its and	Password	*		1
	Verification Code	<b>FHMp</b>		/
	Register	Forgot Password?		
K	Log in			
	Visitor			
			7-	
	X			

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For first-time login accounts, a prompt to create a station page will be displayed. Please click "Create Now" to establish your dedicated power station.



## 3.4.3 Forgot Password

When you forget your account password, click "Forgot Password?" to enter the password reset interface and complete the password reset through the email used during registration.

1) Confirm Account

Send

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2) Reset Password

Confirm Account	2 Reset Password	3 Reset
Por		
Pase	ssword	
Pleas	e Confirm	
	nfirmation Password	N _M
	Next	

3) Reset Successful

	2	3
Contirm Account	Reset Password	Reset
Congratulations. Pa	issword reset was successful	
Please use the new pass	word to log in to the account	
and the second se	Login User Edition	
-		

## 3.5 Basic Functions

#### 3.5.1 Message Alerts

Clicking on this icon will display the current alarm situations occurring in the power station, supporting the display of alarm messages within the last six months.

MEGAREVO	Ξ	n My Plant 💻 Display				🗘 English 🗸 🌍 EN
Presely other		Power meter communication failu 2024/03/00 08:33:15 Opened Time Failure	re Ciperr - Closed Time Excellenate Holdings	BMS communication failure     2024/03/30 08:33:15     Opened Time     Pailure	Cyven  Closed Time Excelerate Holdings	
Overview     Device		Importance PCS-M Devices	Name F1222222223-1 Device SN	Importance PCS-M Devices	Name F1222222223-1 Device SN	
<ul> <li>Authorization</li> <li>Policy Template</li> </ul>						
Alerts     Ale						
Plant Detail Export						
+ Add a Logger						
Switch Plant Create Plant						
Delete						
						Total2 20/page ∨ < 1 > Go to 1

#### 3.5.2 Language Switching

You can select the interface language based on your usage needs. The system currently supports both Simplified Chinese and English.



## 3.5.3 Personal Settings

This section supports modifying the name, email address, username, and account password set during registration. Additionally, it includes an account deletion function, which can be performed if the account meets the conditions for deletion.



← Personal Center				
Me	Me			Account Cancellation
Message	Avatar	2 Name	2. E-mail	
User Manual		Guest	Please Enter Email	
Feedback	Password	2 Username		
		guest		

## 3.5.4 Message Settings

The Message Settings section allows you to configure the notification method for alarm information based on your needs. Configuration options include: whether to allow notifications, the method of receiving alarm information, the notification alarm level, and the notification alarm frequency.



← Personal Center							
Me	Message						
Message	Alert Message	Alert Message	Alert Range Settings				
User Manual	Alow Notification     Not Allow	In-Site Notification E-mail	📄 Prompt Message 🔮 Warning Message 🔛 Failure Message				
Feedback	Alert Range Settings Notice Warning Failure						
	● Low ● Middle 🧕 High						
# 3.5.5 User Guide

The User Guide section provides a link to the platform's user manual, which can be safely accessed by clicking the link.



← Personal Center	
Me	User Manual Navjator Gide
Message	
User Manual	
Feedback	User Minual

# 3.5.6 Feedback and Suggestions

The Feedback and Suggestions section offers a channel for submitting suggestions and feedback. Any suggestions regarding product features or page display can be directly emailed to the platform's product manager.



← Personal Center	
Ме	Feedback
Message	In the process of using this software, you can directly feedback to LittleGur's Product Manager for product features or page display suggestions. E-mail: jainghulan@imgarevo.com.cn
User Manual	
Feedback	

#### 3.5.7 Logout

Clicking "Logout" will securely exit the current account's login status and redirect to the login page.



#### 3.6 Create Power Station

Users can create their own power stations through the "Create Power Station" section. After binding devices, data collection, storage, and statistics can be performed on the power station, enabling real-time monitoring of its operation.

When there are no power stations under an account, a prompt to create a power station will be displayed upon login. Click "Create Now" to enter the power station creation page.

If an account already has power stations and the user wishes to create another one, click "Create Power Station" in the menu bar to access the power station creation page.

Creating a power station requires completing basic information, system information, and revenue information, which will be displayed on the power station information page upon successful creation.

1) Basic Information Input

Fill in the power station name, click on the map in the "Power Station Location" section to select the site, and the region, address, and latitude/longitude will automatically correspond to the site's location data. The power station's timezone will automatically match the current region's timezone, and the address field can be manually modified.

2) System Information Input

Select the type of power station (residential power station, commercial and industrial power station), choose the installation date, and fill in the installer and installed capacity.

3) Revenue Information Input

Select the currency unit to use when calculating revenue. The revenue calculation period (optional) can be added or deleted.

Create Plant					Cancel	Create Now
Basic Info	System Info					
*Name	Plant Type	Install Date	* Installer			
	Industrial Business 🗸		Select			
Region	* PCS Capacity(kW)	Battery Capacity(kWh) Phot	tovoltaic Capacity(kWp)	DG Capacity(kW)		
Select v						
Time Zone	Yield Info					
UTC+08:008-tijing.Chongqing.Hong Kong.Urumqi	* Currency					
' Address	CNY					
	Add					
' Location	Date	Туре		Time	Price	Operatio n
	<b>□</b> .	Flat				

# 3.7 Switch Power Station

The user interface only displays the content of a single power station under the account. When multiple power stations are created under the account, the data of different power stations can be viewed by switching through the "Switch Power Station" section. The power station switching page displays all power stations under the account, along with their names, images, and network status.



# 3.8 Delete Power Station

When a power station is no longer in use, it can be deleted, along with any devices bound to it. Once the deletion is performed, it cannot be undone. If you need to recover the power station data, please contact customer service.



# 3.9 Power Station Data

After successfully creating a power station and binding a collector, the "Power Station Data" section allows you to view the current power station's statistical data, including statistics (cumulative power generation, cumulative grid-connected power, operating days, cumulative revenue, total CO2 emissions reduction), flow charts, 24-hour curves, historical data statistical charts, recent data analysis, and current weather conditions.



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# 3.10 Device Information

The Device Information section provides visibility into the information and data of the devices currently bound to the power station.

The device list displays the following content: device name, device SN code, network status, alarm status, affiliated power station, and update time.

1) Device Search Function

When you need to quickly locate a specific device, enter the device SN code, and the page will provide the most relevant results for your search.

MEGAREVO	\Xi 🧥 My Plant 🔛 Display			🎗 English 🗸 🌍 EMS
Excellerate Holdings	Devices Legger PCS-H PCS-M BMS Please Enter Device SN			2 teers @
	① 1F222222222		@ () BR0323000222 @	
Uverview	Excellerate Holdings 2024/08/18 05:05:39 Convected plant Updated time	Excellerate Holdings 2024/04/22 11:45:15 Connected plant Updated time	Excellerate Holdings 2024/08/30 08:55:00 Connected plant Updated time	
Device				
3 Authorization				
O Policy Template				
Alerts				
🖏 Plant Detail				
# Export				
+ Add a Logger				
Switch Plant				
Create Plant				
				Total 3 10/page $\checkmark$ ( 1 ) Go to 1

### 2) Device Type Classification

We display the types of devices currently bound to the power station at the top of the section.

MEGAREVO	E ♠ My Plant ■ Daplay	🗘 English 🗸 🌍 EMS
	Devices           Logger         PCS-H         PCS-M         BMS         Please Enter Device SM         0	a Export
II Overview	Image: https://www.image: https://wwwwitac.//wwwwitac.//wwww.image: https://www.image: https://www.image	
Device	Licenterial holongi zacelos is to to zi al Extentes holongi zacelos za to to to zi al Extentes holongi zacelos de trato de Convecter part Updated time Convecter part Updated time Convecter part Updated time	
3 Authorization		
O Policy Template		
Alerts		
B Plant Detail		
L Export		
+ Add a Logger		
Switch Plant		
Delete		
	Total 3 Topage	 √ < <mark>1</mark> → 6010 1

#### 3) Device Unbinding Function

When a device is no longer in use in the current power station, its binding relationship with the power station can be unbound. After successful unbinding, the device can be rebound without data loss.

MEGAREVO	亜 🧥 My Plant 📱 Display						٩	English 🗸 🌍 EMS
Excellerate Holdings	Devices	S Please Enter Device SN						± Export
* Overview	1F222222222 Excellerate Holdings		F1222222223  Excellerate Holdings	2024/04/22 11:45:15	BR0323000222 Excellerate Holdings	10 2024/08/30 08-55:00		
Device	Connected plant	Updated time	Connected plant	Updated time	Connected plant	Updated time		
3 Authorization								
O Policy Template								
Alerts								
Plant Detail								
🝰 Export								
+ Add a Logger								
Create Plant								
Delete								
							Tetal 3 10/psaze v	1 → Goto 1

### 4) Data Export Function

Export some important data from the currently filtered and displayed device list. The exported data content is consistent with what is displayed in the list.

MEGAREVO	E ▲ My Plant 및 Display		🇘 English ~ 🌍 EMS
	Devices Logger PCSH PCSM BMS Please Enter Device SM C		
11 Overview	0 1F222222222 0 F1222222223		
Device	Excellente Holding: 2024/09/19 05:05:39 Excellente Holding: 2024/ Canvelet plant Updated time Connecter plant Update	M22 11:45:15 Excellenate Holdings 2024:08:30 08:55:00 filme Connected plant Updated time	
3 Authorization			
Policy Template			
Alerts			
🖪 Plant Detail			
A Export			
+ Add a Logger			
Switch Plant			
Create Plant			
Delete			
			Total 3 10/page → < 1 → Goto 1

5) Page Refresh Function

MEGAREVO	E A My Plant Display	Q English v 🌍 EMS
	Devices Legger PCS-H PCS-M BMS Please Enter Device SN	a layert 💽
Uverview	⊙         1F222222223         B         ⊙         BR012200022	
E Device	Excelente Holongs 2024/00/16/5/5/5/39 Excelente Holongs 2024/04/22/1/3/15/15 Excelente Holongs 2024/00/3/0/85 Convected plant Updated time Updated time Updated time Updated time Updated time	500
3 Authorization		
O Policy Template		
Alerts		
🕏 Plant Detail		
.å Export		
+ Add a Logger		
Switch Plant		
Create Plant Delete		

6) Device Details Page

Clicking on the device SN will take you to the device details page, which is divided into four sections: data details, alarm information, parameter information, and operation strategy.

a. Data Details

The data details section displays the device's historical power generation data, basic information, and real-time data. The historical power generation data section plots the system's daily, weekly, monthly, yearly, and total data into charts. You can select the desired data and time period to display and export it through parameter selection and time range selection.

2024/09/23 09:55:00				u x
Details Alerts Parameter Operation Strategy				
Historical Data				~
		Coy Week	Month Year Total Select Parameters	Export 2024-09
1,000				
	💭 Deskution 💭 Lond 🥅 Cid neuro suchases			
	💼 Production 💼 Load 👝 Grid power purchavies 📒	Bectricity sold 💼 Charge capacity		
Basic Information	Trobaction 💼 Lood 💼 Grid power parchaers 🕿	🖥 Dectricity sold 💼 Owege capacity		
Basic Information MetoAREVO	Production in Lood Grid power purchases in Convertier model:	Dechicity solf in Charge capacity		
Basic Information Merutebure name MEGAREVO DCAC version: -	Converter model: Part lable protocol version: -	Bachichy soll - Charge capacity Monitoring screen version: Bertal number:		
Basic Information Manufacture name . MEGAREVO DCAC version: - Electricity production	Production in Cody power purchases in Convertier model: Part lable protocol version:	Bichichy soll 💼 Charge capacity Monitoring screen version: Sertief number: -+		
Basic Information Menufacture name: MEGAREVO DCAC vension: - Electricity production DC	Production Converter model: - Paint table protocol vension: - Power	Bechichty solf ■ Charge capacity Monitoring screen version: Benial number:	httpp://www.cument	
Basic Information Merulecture name MEGAREVO DCAS version: - Electricity production DC Verlage Current	Production Converter model: Print table protocol version: Power	Bechichy solt ■ Charge capacity Montkoring somen version: Serial number: Ac v A 3	Iotage Current 111 3V 117 2A	requires a second secon
Basic Information Manufacture name MEGAREVO DCAC version: - Electricity production DC Vollage Current	Production Converter model: Converter model: Part lable protocol version:	Dechicity solf Charge capacity  Monitoring screen version: Seriel number:  AC V A 3 0 3	608ge Current 111.3V 117.2A 113.1V 144.1A	Frequency -
Basic Information Manufacture name MEGAREVO DCAC version: - Electricity production DC Vollage Current		Bechicity soli  Charge capacity  Monitoring screen version: Seriel number:  AC V A 3 0 3 0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0	- 	Prequiring - - -
Basic Information Mendedurer name MEGAREVO DCAC verses: - Electricity production DC Vellage Current Stati DC reput power: 84.11 KV	Production Code power parchaers Converter model	Bectricity sold  Charge capacity  Monitoring screen version: - Benini number: -  AC V A 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	- 	Frequency - - -
Basic Information         Manufacture name: MEGARENO         DCAC vestion: =         IBsetricity production         DC       Vallage         Connent         Total DC reput power: 54 1 KW         Inverter total active power: 84 1 KW         Inverter total active power: 84 1 KW         Inverter total active power: 84 1 KW		Bectricity sold ■ Charger capacity Monitoring screen version: Berial number: AC V A 3 B 3 C 3 C 3 Therefore frequency: 50.16 Hz Monitory production: 10615 3	bolliga Current 111.3V 117.3A 115.3V 144.1A 115.9V 120.8A	
Basic Information       Merufecture rame: MEGAREVO       DCAC version:       Electricity production       DC     Vollege       Corrent	Power Converter modet: - Part table protocol version: -  Power Totel DC eput currer: 15:9.4 Daty production: 7:0 1 WPh Total production: 127:44 1 Weh	Bectricity sold ■ Charger capacity Monitoring screen version: Serial number: AC V A 3 B 3 C 3 Invertier frequency: 50.18 Hz Monitoring screen version: 19645.3	- 	Frequency - - -

#### b. Alarm Information

The alarm list for a single device, with functionality similar to that of the alarm module.

PCS-M: F1222222223-1 A or 2024/04/22 11:45:15 Dotails Alerts Parameter Operati	ine 🔺 Alerts In Strategy										۵×
Status V Device Type V	Importance 🗸 🛅 Open	ed Time	Please Enter Alarm Name							± Exp	iort C
Power meter communication fi	ilure		BMS communication failure		Power meter communication fail	lure	BMS communication failure				
202403/90 08:33:15 Opened Time Failure Importance PCS-M Devices	 Closed Time Excollerato Holdings Name F12222222223-1 Device SN		2024/03/00 08:33:15 Opened Time Feature Importance PCS-M Devices	 Closed Time Excellerate Holdings Name F1222222223-1 Device SN	2024/03/00 08:12:18 Opened Time Fallure Importance PCS-M Devices	2024403/30 08:31:11 Closed Time Excellerate Holdings Name F12222222222-1 Device SN	2024/03/10 06:12:18 Opened Time Failure Importance PCS-M Devices	2024/03/30 08:31:11 Closed Time Excellerate Holdings Name F12222222223-1 Device SN			
Power meter communication to	ilure		BMS communication failure		Power meter communication fail	lure	BMS communication failure				
2024/03/30 08/00.11 Opened Time Failure Importance PCS-M Devices	2024/03/30 08:10:17 Closed Time Excellerate Holdings Name F1222222223-1 Device SN		2024/03/30 08:00:11 Opered Time Polices Importance PCS-M Devices	2024/03/30 08:10:17 Closed Time Excellerate Holdings Name F122222222223-1 Device SN	2024/03/30 07:43:16 Opened Time Importance PCS-M Devices	2024/03/30 07:58:10 Closed Time Excellerate Holdings Name F12222222223-1 Device SN	2024/03/30 07:43:16 Openet Time Pathop Importance PCS-M Devices	2024/03/30 07:58:10 Closed Time Excellerate Holdings Name F1222222223-1 Device SN			
Power meter communication fi	ilure		Power meter communication fails	re							
202460326 04:54:21 Opened The Finite Importune PC5-M Dentes	2024/03/30 07-41:15 Civised Time Excellenste Holdings Name F1222222223-1 Device DN		202403/25 03.56:37 Cyanes Thee Faster Impotance PCS-M Devase	2024/03/28 04 52:19 Closed Time Excellerate Holdings Name F122222223-1 Device SN							
								10/page ~	< 1 2 5 4 5 4	]	60 to 1

#### c. Parameter Information

The parameter information section displays the device's parameter settings and allows for the issuance of instructions to modify parameters. Only parameters authorized by the agent end can be displayed and instructions can be issued for them.

PCS-H: BR0323000222-1 @ Office & Ho Averts 2024/0923 095500 Details Averts Parameter Operation Strategy							
Mode Of Action V							
DCAC settings							~
Constant power(AC) (kW)  Output reactive power mode  O	Output power factor	Output reactive power (kvar)	DCAC constant voltage (V)	DCAC constant current (A)	Output frequency level (Hz)	Output voltage level (V)	Grid connected mode of PCS
90 Non adjustable V							0 ~
Update	Update	Update	Update	Update	Update	Update	Update
Power control type	Machine capacity (kW)	Control mode 🕘	Parallel 📀	Working mode 📀	Remote generator control Ena ()	Remote generator control	Start charging SOC (%)
Positive and negative pr v	30kW ~	Local ~	Disable ~	System for self-use 🗸 🗸	Disable 🗸	Generator shutdown 🗸	0
							1 ~ 100
Update	Update	Update	Update	Update	Update	Update	Update
Stop Charging SOC (%) 🕑 DG capacity (kW) 🤿	DG ECP (kW)	DG FCP (kW) 🕥	GRID ECP (kW)	GRID FCP (kW)	GRID EDP (kW)	GRID FDP (kW)	Remote EPO 💿
0 600	500	500		400	500	500	0 ~
Update	Update	Update	Update	Update	Update	Update	Update
Grid expansion enabling 💿 Grid capacity (kW) 🕑	Energy priority 🕥 G	ienerator charging power limi 🕥	DCAC Remote Switching	Battery type 📀			
Enabling grid expansion v 500	Battery>Grid 🗸	10	0 🗸	None 🗸			
Update	Update	Update	Update	Update			
DCDC settings							~
Work parttern 🕘 Boost or buck 🜒	DCDC constant voltage (V)	DCDC constant current (A)	DCDC Remote Switching	Outer ring centralized control ()			
0 V BOOST V				Disable 🗸			
Update	Update	Update	Update	Update			
Time sattings							
							Ť

#### d. Operation Strategy

The operation strategy section displays the operation modes already bound to the device and a list of created operation modes. The rules for binding operation modes are: only one type of strategy can be bound, and only one backup power mode and steady-state expansion mode can be bound.



# 3.11 Authorization Information

The Authorization Information section displays the authorized agents and installers for the current power station, supporting operations such as adding authorizations, revoking authorizations, and switching roles.

The authorization information list displays the following content: company logo, company name, authorization details, and authorization time.

Authorization roles include: Regular Member and Administrator. Regular Members can view the power station's power generation data, detailed information, alarm information, and device information, but cannot edit or configure the power station. Administrators, in addition to having all the capabilities of Regular Members, can configure and operate the power station and devices, but cannot delete the power station.



#### 1) Add Authorization Function

When collaborative management is required for the current power station, click "Add Authorization" to enter the power station authorization page. Search for the full name of the agent or installer you wish to authorize and select the authorization role (Regular Member, Administrator).



#### 2) Switch Role Function

When the collaborative management method between the current power station and agents or installers needs to be adjusted, the authorization permissions can be adjusted through the switch role function.



#### 3) Revoke Authorization Function

When the current power station needs to revoke the authorization of an agent or installer, it can do so through the revoke authorization function.

MEGAREVO	E ▲ My Plant ■ Daplay	🗘 English 🗸 🌍 EMS
	Authorized Business Units	Add Incidence Relation
Excellerate Holdings	Ordnay Menter   Admin	
** Overview	EMS 2023/12/12 08 21:24 Budrets Name Last Mother Time	
E Device		
authorization		
O Policy Template		
Alerts		
Plant Detail		
# Export		
+ Add a Logger		
Switch Plant		
Create Plant		
Leice		
	Totai 1 Topage	

### 3.12 Strategy Templates

The strategy templates feature supports configuring device operation strategies, allowing users to customize various operation modes based on actual needs to achieve optimal power station performance.

The operation strategy list displays the following content: strategy name, execution cycle, start date, end date, template description, and operation strategy.

1) Strategy Search Function

When you need to quickly find the required operation strategy, enter the strategy name, and the page will provide the most relevant results for your search.

MEGAREVO	Ξ	n My Plant 💂 Display									Ĺ	1 English ~	🔵 ems
		Run Policy				Please Ente	r A Strategy N	ame Q				l	New Policy
Excellerate Holdings		text1						test11		Peak Shaving		¢ B	
Cverview		Peak Shaving Operation Strategy	Keep Repeating Execution Cycle	Peak Shaving Peak Shaving Peak Shaving Peak Shaving Peak Shaving Peak Peak Peak Peak Peak Peak Peak Peak	Repeat Wee Execution Cyc	akty sie		Steady-state Expansion Operation Strategy	Keep Repeating Execution Cycle	Peak Shaving Operation Strategy	Keep Repeating Execution Cycle		
E Device		 Start Date	End Date	2024-05-05 2 Start Date	2024-05-21 Ind Date			 Start Date	 End Date		End Date		
3 Authorization		test1111 Description		 Description				123321展示测试 Description		这是一个混合模式很长很长 Description			
O Policy Template		Mixed Mode		充电									
Alerts     Ale		Mixed Mode Operation Strategy	Keep Repeating Execution Cycle	Peak Shaving P Operation Strategy	Keep Repea	sting sle							
Plant Detail		 Start Date	 End Date		 End Date								
쇼 Export		123123 Description		appli\$80 Description									
+ Add a Longer													
Switch Plant													
Create Plant													
Delete													
											ictal 6 10/page 💙	< 1 →	Go to 1

2) Create New Strategy Function

Click "Create New Strategy" to enter the new strategy page. Fill in the strategy name, template description (optional), select the execution cycle, start date, end date, strategy template, and configure the operation strategy.

Execution Cycle Options: Repeat Daily, Repeat Weekly, Long-term

Strategy Template Options: Peak Shaving & Load Leveling, Backup Power Mode, Steady-state Capacity Expansion, Hybrid Mode

Peak Shaving & Load Leveling Configuration: Start Time, End Time, Control Type (Standby, Charging, Discharging), Scheduled Power, Target SOC

Backup Power Mode Configuration: Start Charging SOC, Stop Charging SOC, Start Charging Cell Voltage, Stop Charging Cell Voltage, Start Charging Total Voltage, Stop Charging Total Voltage, Charging Power

Steady-state Capacity Expansion Configuration: Grid Capacity, Start Charging SOC, Stop Charging SOC, End Discharging SOC

a. Add 24-hour Operation Strategy (only available for Peak Shaving & Load Leveling and Hybrid Mode)

 b. Delete 24-hour Operation Strategy (only available for Peak Shaving & Load Leveling and Hybrid Mode)

### SHENZHEN MEGAREVO TECHNOLOGY CO., LTD.

MEGAREVO	🚍 🧥 My Plant ا 💂 Display	,		New Policy					
				Policy Name:	Execution Cycle: Repeat Daily		Start Time:	End Time :	
elierate Holdings				Description :					
		Keep Repeating Execution Cycle		Policy Template:					
				Peak Shaving 🗸	00:00			24:00	
				Start Time	End Time	Controling Type	Planned Power(kW)	Target SOC(%)	
				© 00:00		Select 🗸			
						Confirm	Cancel		
Switch Plant Create Plant									
Delete									

# 3) Edit Strategy Function

Edit a successfully created operation strategy.

MEGAREVO	📼 🧥 My Plant 💻 Display			Edit Policy							
				Policy Name:		Execution Cycle:	s	tart Time:	En	1 Time :	
				Mixed Mode		Keep Repeating		8			
Excellerate Holdings				Description: 123123							
E Overview		Keep Repeating Execution Cycle		Policy Template:							
				Mixed Mode							
E Device											
Authorization					00:00	03:30 05:15				24:00	
O Policy Template				+	Read Time	Ford Tone	Controllon Turo	Risson & Reversitive	T 800/81	Constant Bation	Occupitor
Alerts     Ale		Keep Repeating Execution Cycle		Flat Valley	© 00:00	© 00:45	Economic Pi V	12	12	Without V	
Plant Detail				Peak 🗸	© 00:45	© 03:30	Peak Shavin 🖌			Generator C 🗸	(2)
📩 Export			app)(6/20 Description	Valley 🗸	© 03:30	⊙ 05:00	Economic Pi 💙			Generator C 🗸	(1)
+ Add a Logger				Peak 🗸	© 05:00	© 05:15	Economic Pi 🗸			Generator C 🗸	1
Switch Plant											
Create Plant											
Delete							Confirm	Cancel			

#### 4) Delete Strategy Function

Delete a successfully created operation strategy. Note that once the deletion is performed, it cannot be undone.

MEGAREVO	🗮 🧥 My Plant 📱 Display						🗘 English 🗸 🌍 EMS	
MEGAREVO							New Policy	
Excellerate Holdings								
11 Overview		Keep Repeating Execution Cycle		Repeat Weekly Execution Cycle		Keep Reporting Execution Cycle	Keep Repeating Execution Cycle	
E Device			2024-05-08 Diart Date	2024-05-21 End Date				
3 Authorization					123321服衍创机 Description			
O Policy Template								
© Alem		Kaep Repeating Executor Cysle		Kaop Repeating Execution Cycle				
D Plant Datail				Hint	×			
Ja Export			app/75/0 Description	This operation will permanently dele whether to continue?	te the item,			
+ Add a Loggar				0	encel Confirm			
Switzh Plant								
Create Plant								
Delaine								
							Total 6 10/page Go to 1	

### 3.13 Power Station Alerts

The alert module displays the alert information for all devices in the current power station.

The alert list displays the following content: alert name, alert start time, recovery time, alert status, level, power station name, and device.

- 1) Alert Search Function
- a. Alert Name Search

When you need to quickly find a specific alert, enter the alert name, and the page will provide the most relevant results for your search.

MEGAREVO	💳 n My Plant 📱 Display							¢	English 🗸	EMS
MEGAREVO Excellenzie Holdings	Alerts	Importance 🗸 🔳 Opene	d Time Please Ent	er Alarm Name Q					± Esport	
	Power meter communicatio	n failure	(Gjorn () BMS communic	ation failure	Power meter communica	tion failure	BMS communication failure			
Overview	2024/03/30 08:33:15 Opened Time	 Closed Time	2024/03/30 08:33:15 Opered Time	 Closed Time	2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time	2024/03/30 06:12:18 Opened Time	2024/03/30 06:31:11 Closed Time		
E Device		Excellerate Holdings		Excellerate Holdings		Excellerate Holdings		Excellerate Holdings		
3 Authorization	Importance DCS M	Name	Importance	Name	Importance	Name	Importance	Name		
O Policy Template	Devices	Device SN	Devices	Device SN	Devices	Device SN	Devices	Device SN		
	Power meter communicatio	n failure	Closed 💮 BMS communic	ation failure	Power meter communicat	tion failure	BMS communication failure			
• Allits	2024/03/30 08:00:11	2024/03/30 08:10:17		2024/03/30 08:10:17		2024/03/30 07:58:10		2024/03/30 07:58:10		
B. Plant Detail	Opened Time	Closed Time	Opened Time	Closed Time	Opened Time	Closed Time	Opened Time	Closed Time		
📥 Export	Amportance	Extenenase Holdings Name	Importance	Excellerate Holdings Name	Importance	Excelerate Holdings Name	Importance	Name		
+ Add a Logger	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F12222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN		
Switch Plant	Power meter communicatio	n failure	Closed () Power meter co	mmunication failure						
Create Plant	Opened Time	Closed Time	Opened Time	Closed Time						
Devide	Tillere	Excellerate Holdings Name	Pallure	Excellerate Holdings Name						
	PCS-M	F1222222223-1	PCS-M	F12222222223-1						
	Devices	Device SN	Devices	Device SN						
							Total 75 10/page 🖌 🔇	1 2 3 4 5 6 =	<mark>₿</mark> > 60	<b>1</b>

### b. Alert Status Filtering

Filter alerts based on whether they have been recovered after occurrence. Filtering conditions: All, In Progress, Recovered.

MEGAREVO	🗮 🏚 My Plant 💻 Display							Q Eng	ish 🗸 🔵 EMS
Excellerate Holdings	Alerts	Importance 🗸 🕅 Opened Time	Please Enter Alarm Nam	e Q					± Export
Uverview	Power meter communication fe	alure Opp	BMS communication failure		Power meter communication fa	lure	BMS communication failure		
Device	2024/03/30 08:33:15 Opened Time	 Closed Time Facellenste Holdinge	2024/03/30 08:33:15 Opened Time	 Closed Time Excellerate Holdings	2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time Excellerate Holdlogs	2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time Excellenate Holdings	
3 Authorization	Importance PCS-M	Name F12222222223-1	Importance PCS-M	Name F1222222223-1	Importance PCS-M	Name F12222222223-1	Importance PCS-M	Name F1222222223-1	
O Policy Template	Devices	Device SN	Devices	Device SN	Devices	Device SN	Devices	Device SN	
Alerts	Power meter communication fe	alure Close	BMS communication failure		Power meter communication fa	ilure	BMS communication failure		
B Plant Datail	2024/03/30 08:00:11 Opened Time	2024/03/30 08:10:17 Closed Time	2024/03/30 08:00:11 Opened Time	2024/03/30 08:10:17 Closed Time	2024/03/30 07:43:16 Opened Time	2024/03/30 07:58:10 Closed Time	2024/03/30 07:43:16 Opened Time	2024/03/30 07:58:10 Closed Time	
🚢 Export	-Pallute Importance	Excellerate Holdings Name	- Pallure Importance	Excellerate Holdings Name	Failure Importance	Excellerate Holdings Name	Pallare	Excellerate Holdings Name	
+ Add a Logger	PCS-M Devices	F 1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	
	Power meter communication fa	alure Close	O Power meter communication fa	ilure					
Switch Plant Create Plant	2024/03/26 04:54:21 Opened Time	2024/03/30 07:41:15 Closed Time	2024/03/25 03:56:37 Opened Time	2024/03/28 04:52:19 Closed Time					
Delete	-Failure Importance	Excellerate Holdings Name	-Patture Importance	Excellerate Holdings Name					
	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN					
							Total 75 10/page 👻 🤇	1 2 3 4 5 6 8	> Goto 1

### c. Device Type Filtering

Filter alerts by the type of device on which they occurred.

MEGAREVO									٩	English 🗸 🔵 EMS
Excellerate Holdings	Alerts Status V Device Type V	Importance 🗸 🔳 Open	ed Time	Please Enter Alarm Name						± Export
	Power meter communication	on failure		BMS communication failure		Power meter communication fa	ilure	BMS communication failure		
Device	2024/03/30 08:33:15 Opened Time	- Closed Time		2024/03/30 08:33:15 Opened Time	 Closed Time	2024/03/30 08:12-18 Opened Time	2024/03/30 08:31:11 Closed Time	2024/03/30 06:12:18 Opened Time	2024/03/30 08:31:11 Closed Time	
	Tellura Insolation	Excellerate Holdings Name		mostere	Excellerate Holdings Name	Fellers	Excellerate Holdings Name	Fellers Insertance	Excellerate Holdings Name	
3 Authorization	PCS-M	F1222222223-1		PCS-M	F1222222223-1	PCS-M	F1222222223-1	PCS-M	F1222222223-1	
O Policy Template	Devices	Device SN		Devices	Device SN	Devices	Device SN	Devices	Device SN	
Alerts	Power meter communication	on failure		BMS communication failure		Power meter communication fa	ilure	BMS communication failure		
	2024/03/90 08:00:11	2024/03/30 08:10:17		2024/03/30 08:00:11	2024/03/30 08:10:17	2024/03/30 07:43:16	2024/03/30 07:58:10	2024/03/30 07:43:16	2024/03/30 07:58:10	
Plant Detail	Opened Time	Closed Time		Opened Time	Closed Time	Opened Time	Closed Time	Opened Time	Closed Time	
🚠 Export	Importance	Name		Importance	Name	Importance	Name	Importance	Name	
+ Add a Loopar	PCS-M Destres	F1222222223-1 Device SN		PCS-M	F1222222223-1	PCS-M Devices	F1222222223-1	PCS-M	F1222222223-1	
Switch Plant	Power meter communication	on failure		Power meter communication fail	lure					
Create Plant	2024/03/26 04:54:21 Opened Time	2024/03/30 07:41:15 Closed Time		2024/03/25 03:56:37 Opened Time	2024/03/26 04:52:19 Closed Time					
Delete		Excellerate Holdings			Excellerate Holdings					
	Importance	Name		Importance	Name					
	Devices	Device SN		Devices	Device SN					
								Total 75 10/page <	1 2 3 4 5 6	8 > Go to 1

### d. Alert Level Filtering

Filter alerts based on their severity levels. Filtering conditions: All, Prompt, Alert, Fault.

MEGAREVO	E							٩	English 🗸 🌍 EMS
Excellerate Holdings	Alerts           Status         Device Type >	Importance V	Please Enter Alarm Nam	e 0					± Export
Uverview	Power meter communication	failure Open	BMS communication failure		Power meter communication fa	lure	BMS communication failure	202403/30 08:24:44	
Device	Opened Time	- Closed Time	Opened Time	Closed Time	Opened Time	Closed Time	Opened Time	Closed Time	
3 Authorization	Importance PCS-M	Name F12222222223-1	Importance PCS.M	Name E12222222223_1	Importance PCS-M	Name E12222222223-1	Importance PCS-M	Name F12222222223.1	
O Policy Template	Devices	Device SN	Devices	Device SN	Devices	Device SN	Devices	Device SN	
Alerts	Power meter communication	failure Closed	BMS communication failure		Power meter communication fa	llure	BMS communication failure		
Plant Detail	Opened Time	Closed Time	Opened Time	Closed Time	Opened Time	Closed Time	Opened Time	Closed Time	
🚠 Export	Importance	Excellerate Holdings Name	Patlate	Excellerate Holdings Name	Failure Importance	Excellerate Holdings Name	Importance	Excellerate Holdings Name	
+ Add a Logger	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	
Switch Plant	Power meter communication	failure Closed	Power mater communication fr	allure					
Create Plant	2024/03/26 04:54:21 Opened Time	2024/03/30 07:41:15 Closed Time	2024/03/25 03:58:37 Opened Time	2024/03/26 04:52:19 Closed Time					
Delete	Pellume Importance	Excellerate Holdings Name	- Failtann Importance	Excellerate Holdings Name					
	PCS-M Devices	F122222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN					
							Total 75 10/psge ~ <	1 2 3 4 5 6	8 > Goto 1

e. Alert Time Filtering

Filter alerts by selecting the time of occurrence, allowing you to view alert data for the past week.

MEGAREVO	\Xi 🏠 My Plant 📱 Display							۵	English 🗸 🌍 EMS	10
Excelerate Holdings	Alerts	importance V	Please Enter Alarm Nan	ne Q					± Export	
. Overview	Power meter communication 2024/03/30 08:33:15 Opened Time	n failure Open - Closed Time	BMS communication failure     2024/03/30 08:33:15     Opened Time	 Closed Time	Power meter communication 2024/03/30 08:12:18 Opened Time	failure 2024/03/30 08:31:11 Closed Time	BMS communication failure 2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time		
Device     Authorization	Failure Impotance	Excellente Holdings Name	Pathan Importance	Excellerate Holdings Name	Telluro Impotance	Excellerate Holdings Name	Patiens emportance	Excellerate Holdings Name		
O Policy Template	Devices	Device SN	Devices	Device SN	Devices	Device SN failure	Devices	Device SN		
<ul> <li>Alerts</li> <li>Plant Detail</li> </ul>	2024/03/90 08:00:11 Opened Time	2024/03/30 06:10:17 Closed Time	2024/03/30 08:00:11 Opened Time	2024/03/30 08:10:17 Closed Time	2024/03/30 07:43:16 Opened Time	2024/03/30 07:58:10 Closed Time	2024/03/30 07:43:16 Opened Time	2024/03/30 07:58:10 Closed Time		
쇼 Export + Add a Logger	Importance PCS-M Devices	F12222222223-1 Device SN	Importance PCS-M Devices	F 1222222223-1 Device SN	Impotance PCS-M Devices	F1222222223-1 Device SN	Importance PCS-M Devices	F 1222222223-1 Device SN		
Switch Plant	Power meter communication 2024/03/28 04:54:21	n failure Closed 2024/03/30 07:41:15	Power meter communication 1 2024/03/25 03:56:37	ailure 2024/03/26 04:52:19						
Create Plant Delete	Opened Time Failtum Importance	Closed Time Excellerate Holdings Name	Opened Time Failure Importance	Closed Time Excelterate Holdings Name						
	PCS-M Devices	F1222222223-1 Device SN	PCSM Devices	F1222222223-1 Device SN						
							Total 75 10/page ~	1 2 3 4 5 6	8 > Go to 1	

### 2) Data Export Function

Export some important data from the currently displayed device list that matches the current filters. The exported data content is consistent with what is displayed in the list.

MEGAREVO									<b>A</b> Eng	ish 🗸 🌍 EMS
Excelerate Holdings	Alerts           Status         Device Type >	Importance 💌 🔳 Oper	ed Time.	Please Enter Alarm Name						± Export
	Power meter communication	n failure		BMS communication failure		Power meter communication fa	ilure	BMS communication failure		
Overview     Device	2024/03/30 08:33:15 Opened Time	 Closed Time		2024/03/30 08:33:15 Opened Time	 Closed Time	2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time	2024/03/30 08:12:18 Opered Time	2024/03/30 08:31:11 Closed Time	
3 Authorization	Importance PCS-M	F1222222223-1		Postance PCS-M	Excesserate Holdings Name F1222222223-1	Importance PCS-M	Excelerate Holdings Name F1222222223-1	Importance PCS-M	Exceedate Holdings Name F12222222223-1	
O Policy Template	Devices	Device SN		Devices	Device SN	Devices	Device SN	Devices	Device SN	
Alerts	Power meter communication	n failure		BMS communication failure		Power meter communication fa	llure	BMS communication failure		
Plant Detail	2024/03/30 08:00:11 Opened Time	2024/03/30 08:10:17 Closed Time		2024/03/30 08:00:11 Opened Time	2024/03/30 08:10:17 Closed Time	2024/03/30 07:43-16 Opened Time	2024/03/30 07:58:10 Closed Time	2024/03/30 07:43:16 Opened Time	2024/03/30 07:58:10 Closed Time	
📥 Export	-Pallure Importance	Excellerate Holdings Name		Feilure Importance	Excellerate Holdings Name	Pallare Importance	Excellerate Holdings Name	Pailute Importance	Excellerate Holdings Name	
+ Add a Logger	PCS-M Devices	F1222222223-1 Device SN		PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	
	Power meter communication	n failure		Power meter communication fail	ure					
Switch Plant	2024/03/28 04:54:21	2024/03/30 07:41:15 Closed Tate		202403/25 03:58:37	2024/03/26 04:52:19					
Delete		Excellerate Holdings			Excellerate Holdings					
	PCS-M Devices	Name F1222222223-1 Device SN		PCS-M Devices	F1222222223-1 Device SN					
								Total 75 10/page 🗸 🤇	1 2 3 4 5 6 8	> 60% 1

3) Page Refresh Function

MEGAREVO	Ξ	A My Plant 💂 Display								٩	English 🗸	EMS
Excelerate Holdings		Alerts Status V Device Type V 1	Importance 🗸 📄 Oper	ed Time	Please Enter Alarm Name						± Expo	
-		Power meter communication fail.	ure		BMS communication failure		Power meter communication fail	ure	BMS communication failure			
E Overview		2024/03/30 08:33:15 Opened Time	 Closed Time		2024/03/30 08:33:15 Opened Time	 Closed Time	2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time	2024/03/30 06:12:18 Opened Time	2024/03/30 08:31:11 Closed Time		
Device			Excellerate Holdings			Excellerate Holdings		Excellerate Holdings		Excellerate Holdings		
3 Authorization		Importance	Name		Importance	Name	Importance	Name	Importance	Name		
O Relieur Template		PCS-M Devices	F1222222223-1 Device SN		PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN		
Curry residuate												
Alerts		Power meter communication fails	2024/02/20 08:40:47		BMS communication failure	2024/02/20 08:10:17	Power meter communication fail	2024/02/20 07 59:40	BMS communication failure	2024/02/20 07 59 10		
B Plant Detail		Opened Time	Closed Time		Opened Time	Closed Time	Opened Time	Closed Time	Opened Time	Closed Time		
*		(Pallure	Excellerate Holdings		Pallute.	Excellerate Holdings	Pallare Implace	Excellerate Holdings	Palare	Excellerate Holdings		
an Export		PCS-M	F12222222223-1		PCS-M	F1222222223-1	PCS-M	F1222222223-1	PCS-M	F1222222223-1		
+ Add a Logger		Devices	Device SN		Devices	Device SN	Devices	Device SN	Devices	Device SN		
		Power meter communication fail.	ure		Power meter communication fail.	re						
Switch Plant		2024/03/26 04:54:21	2024/03/30 07:41:15			2024/03/26 04:52:19						
Create Plant		Opened Time	Closed Time		Opened Time	Closed Time						
Delete		Importance	Name		Importance	Name						
		PCS-M Devices	F1222222223-1 Device SN		PCS-M Devices	F1222222223-1 Device SN						
									Total 75 10/page 😽 🤇	1 2 3 4 5 6		Go 10 1

4) Alert Details Page

Clicking on the alert name brings you to the alert details page, which displays the current alert's resolution solution and the device's data during the alert period. The data is presented in charts, and you can select the parameters and time range to display the desired data and export it.



# 3.14 Power Station Information

The Power Station Information section displays the current power station's cover image, basic information, system information, and revenue information filled in when the power station was created. This allows users to quickly understand the current power station's information and supports functions to change the power station's cover image and edit power station information.

MEGAREVO	Ξ A My Plant 및 Display					🗘 Engîsh 🗸 🌑	EMS
	Cover	Charles and the second s	e Basic Info				
MEGAREVO			Name: Excellerate Holdings		Creation Date: 2023/09/05 09:06:43		
Excellerate Holdings			Administrative Area : South Africa Gauten	g City of Johannesburg	Address: 1 road		
Cverview			Coordinates: Longitude: 20.054627 L	.atitude: -34.399847	Time Zone: UTC+02:00		
E Device							
Authorization							
O Policy Template	MEGAREVO						
Alerts							
B Plant Detail							
📥 Export							
+ Add a Logger	System Info		Yield Info				
	Plant Type: Residential	PCS Capacity(kW): 300	Currency: ZAR				
Switch Plant			Date	Туре	Time	Price(kWh)	
Create Plant	Instali Date : 1970/01/01						
Delete							
						_	

 $1) \ \ Change \ Power \ Station \ Cover \ Image$ 

MEGAREVO	E A My Plant E Display					EMS
Excelerate Holdings	Cover	Dag	Basic Info Namo: Excellerate Holdings			
Desrview     Desrice     Authorization     Policy Template     Alerts		file have, or Click Upland manmum size of 20 Mil cas he uplanded		X Cancel Confirm		
Plant Detail						
+ Add a Logger	System Info		Yield Info			
Switch Plant Create Plant					Price(kWh)	
Delete						
					Ec	dit

2) Edit Power Station Information

Edit Plant						Cancel Save
Basic Info	System Info					
* Nano	Plant Type	Install Date				
Singapore	Industrial Business $\checkmark$	2024-03-26				
1 Region	* PCS Cepecity(kW)	Battery Capacity(kWh)	Photovoltaic Capacity(kWp)	DG Capacity(kW)		
Singapore v Central v	100					
* Address	Yield Info					
16 Road	* Currency					
* Location	SGD					
Enter a query	Add					
August mand August mand Burger	Date	Туре		Time	Price	Operatio n
Johor Bahru 🕮 - Brader Bradel	🗄 01-01 - 12-31	Flat		© 00:00 - 23:59		
but Singagore vergetang Sorten Pedrop blad						
ig Benu Persang -Butto Testingdete 1 Pelanbaru Dayon						
Kot Benahrstann Konnen						

### 3.15 Data Export

The Data Export module is used to compile statistics on the basic parameters and power generation of power stations and devices over a specific period in the past. It presents this information through data reports, which are a concrete representation of the business data of power stations and devices.

The types of data exported include power station data and device data, with options to select and export data on a per-item basis, daily statistics, monthly statistics, and annual statistics. Users can select specific time periods for report data, and when exporting device data, they can choose individual devices and export parameters. The maximum data export limits are: up to 30 days of data per item, up to one year of data for daily statistics, and up to ten years of data for monthly and annual statistics.

After selecting the content to be exported, click "Export Now" to download the Excel report to your browser.



# 3.16 Large Screen Display

The Large Screen Display feature is one of the core functions of the system. It provides a comprehensive, intuitive, and visual display of the current power station's historical data, real-time data, operating status, energy conservation and emission reduction, revenue, and other information. This feature helps users grasp the real-time operation of the system and achieve efficient monitoring and management.

Note: To ensure a better visual experience, it is recommended to use a device with an aspect ratio of 16:9 and a resolution of 1080P or higher to view the large screen.





1) Overall Power Generation History

The Overall Power Generation History section presents statistical data for the current power station, allowing users to understand its cumulative power generation. The power generation data is presented in charts, enabling quick visualization of the main characteristics and trends over time. This facilitates more comprehensive data analysis of the current power station and enables the formulation of more precise strategies and plans for its future development.

2) Energy Conservation, Emission Reduction, and Revenue

The Energy Conservation, Emission Reduction, and Revenue section calculates and displays four types of data for the current power station: standard coal savings, CO2 emission reductions, equivalent tree planting, and cumulative revenue. Based on the power generation data and revenue information, this section provides intuitive data visualization, enabling users to adjust energy usage strategies, optimize operational strategies, and make predictions and plans to improve return on investment.

3) Electric Energy Analysis

The Electric Energy Analysis section displays and analyzes the usage of photovoltaic power generation and the sources of load power consumption, as well as the proportional relationship between them. It is used to monitor the stable operation of the system in real-time, ensuring that the system remains stable when fluctuations occur in photovoltaic and load power. It also analyzes the trends in photovoltaic power generation and load power consumption, predicts future power demand over a certain period, and schedules the energy storage system to charge or discharge in advance, thereby improving the utilization rate of electric energy.

4) Real-time Data

The Real-time Data section displays cumulative data on battery charging and discharging, grid sales and purchases, and load power consumption. This information helps users understand the overall energy consumption of the system.

# 4 Cloud Platform Merchant

### 4.1 Overview of Cloud Platform Merchant

#### 4.1.1 Introduction

Agent Portal boasts a rich array of features, encompassing all aspects of power station management from construction to operation, fulfilling your one-stop management needs seamlessly. Additionally, we offer device-centric practical functions such as alarm management, device upgrade management, and control command management to major equipment manufacturers and their dealers.

#### 4.1.2 Data Overview

The Data Overview module displays the distribution of all power stations under the account on a map, enabling real-time monitoring of their status and overall power generation data with rankings. This significantly enhances power generation efficiency and facilitates data analysis.

#### 4.1.3 Monitoring

The Monitoring module serves as the core function of the Agent Portal, assisting merchants in real-time monitoring of power stations and devices. With user authorization, merchants can manage and maintain power stations efficiently and conveniently through collaborative efforts.

#### 4.1.4 Equipment Inventory

The Equipment Inventory module records all devices owned by the merchant. Once these devices are put into use by end-users, their data and operation records can be viewed. Merchants can access device data and configure parameters for online devices through the inventory.

#### 4.1.5 Product Management

The Product Management module encompasses two critical functions: Firmware Management and Command Management, facilitating seamless device upgrade and command authorization for merchants.

Firmware Management: This function aids merchants in uploading, managing, and deleting firmware required for device upgrades. Through this feature, merchants can effortlessly maintain the latest versions of their devices, ensuring optimal performance.

Command Management: This function enables merchants to authorize device commands to C-end users, achieving flexible control and management of devices. Merchants can conveniently authorize users, view authorization lists, manage command lists, and track operation logs.

#### 4.1.6 Record Management

Record Management encompasses functionalities like Alarm Records, Data Export Reports, and Operation Logs.

The Alarm Module displays alert information from authorized power stations. The Report Module is designed for exporting data from power stations and devices, with configurable export parameters. This helps merchants compile statistics on power stations and devices across different time periods, enabling them to stay informed about their operational status anytime, anywhere, and make more precise decisions based on the analysis of exported data. Meanwhile, Operation Logs facilitate troubleshooting by providing records of device command issuance and firmware upgrades.

#### 4.1.7 Large Screen Display

The Large-screen Display Module provides merchants with a visual and clear presentation of power station data, enabling them to have a comprehensive understanding of the operational status of the power stations and making more scientific and effective management decisions.

#### 4.1.8 Company Management

The large-screen display module provides merchants with intuitive and clear data presentations of power stations, enabling them to have a comprehensive understanding of the operational status of the power stations and make more scientific and effective management decisions.

### 4.2 Registration and Login

#### 4.2.1 Registration Process

If your email address is used for the first time to register for Agent Platform, you need to complete the account information according to the page prompts during the registration process. After the registration is successful, you can log in. The following is a diagram.

1) Click to Register

Intelligent Monitor System >-77pH

2) Obtain Verification Code

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5) Registration Completed

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### 4.2.2 Login Process

After completing the account registration, use the email or username you used during registration to log in, enter the corresponding password, and click "Login" to access the cloud platform agent side.

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# 4.2.3 Forgot Password

When you forget your account password, click "Forgot Password?" to enter the password reset interface and complete the password reset through the email you used during registration.

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# 4.3 Basic Functions

### 4.3.1 Message Alerts

Clicking on this icon will display the ongoing alerts and their solutions for the power stations under your account. It supports displaying alert messages within six months.



### 4.3.2 Full-screen Function

Clicking on this icon will enter the full-screen mode of the page, providing a broader field of vision and a more comfortable user experience.

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### 4.3.3 Language Switch

You can select the interface language based on your usage needs. The system currently supports two languages: Simplified Chinese and English.



### 4.3.4 Personal Settings

Entering the personal information page will display the personal information set during account registration, allowing you to modify your personal information. This page also includes an account deletion function, which can be used to delete your account after meeting the deletion conditions.

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# 4.3.5 Alert Settings

Configure the notification method for alert information based on your needs. Configuration content includes: whether to allow notifications, alert level for notifications, alert frequency, notification method, and notification recipient.



# 4.3.6 Logout

Clicking Logout will safely exit the current account's login state and redirect you to the login page.

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# 4.4 Power Station Information

### 4.4.1 Power Station Distribution

based on their longitude and latitude. Clicking on a marker will redirect to the detailed information page of the corresponding power station, allowing users to quickly view and manage the operational status of each power station.

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### 4.4.2 Power Station Overview/Warning Summary

The Power Station Overview section displays the total number of power stations under the account as well as the number of power stations in different online states, providing a visual representation of the operational status of the power stations under the account.

The Warning Summary section compiles statistics on the total number of ongoing alerts for all power stations under the account and displays the number and proportion of alerts with different severity levels. This allows timely measures to be taken in response to various issues when alerts occur.



### 4.4.3 Power Station Rankings

The Power Station Rankings section is designed with three ranking methods: Grid Connection Volume Ranking, Photovoltaic Power Generation Ranking, and Power Station Revenue Ranking. These rankings allow for a comparison of the performance and performance of each power station, enabling targeted management and optimization decisions to be made.

1) Grid Connection Volume Ranking



#### 2) Photovoltaic Power Generation Ranking



#### 3) Power Station Revenue Ranking



#### 4.4.4 Overall Power Generation Data

The Overall Power Generation Data section presents statistical data and some key data of authorized power stations, allowing users to understand the total installed capacity, cumulative power generation, and power generation efficiency of the power station. The power generation data is visualized in charts, enabling quick capture of the main characteristics and trends of the power generation data over time. This facilitates more comprehensive data analysis of the power stations under the account and aids in developing more precise strategies and plans for the future development of the power stations.



### 4.4.5 Power Station

The Power Station section allows access to all information and data of authorized power stations. When authorized as a manager, users can also manage individual power stations. This section is primarily used to view the status and important data of the power stations.

The Power Station List displays the following information: Power Station Name, Power Station Address, Communication Details, Alerts, Installed Capacity, Power Generation Capacity, Power Generation Efficiency, Daily Power Generation, Daily Full-Load Hours, Last Data Update Time, Construction Date, and Installer.

1) Power Station List

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2) Power Station Filtering Description

a. Power Station Search: When you need to quickly find a specific power station, enter the power station name, and the page will provide the most relevant results for your search.


b. Device Status: Filter by whether the devices in the power station are uploading data and their online status. Filtering conditions:

All: All power stations

Online: All devices within the power station are in an online state

Offline: All devices within the station are in an offline state



c. Device Alerts: Filter by whether there are active alerts on the devices in the power station. Filtering conditions:

### All: All power stations

No Alerts: None of the devices within the power station have active alerts

With Alerts: Some or all devices within the power station have active alerts

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d. Installed Capacity: Filter power stations by their PCS installed capacity: 30~100kWp, 100~500kWp, above 500kWp.

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### 3) Data Export Function

Export some important data from the currently filtered and displayed power station list.

Exported Data Content: Power Station ID, Power Station Name, Power Station Address, Communication Status, Alert Status, Installed Capacity, Power Generation Capacity, Power Generation, Daily Full-Load Hours, Last Data Update Time, Construction Date, Installer.

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	Production	Total Yields	Protection	Total Yields				
	Daily Production	Total Production	Daily Production	Total Production				
	Est Delete 0308W PCS Capacity	0 kWm Battery Capacity	Edit Delete 220kW PCS Capacity	- Bettery Capacity				
	OKWp	-		2				
	PV Capacity	oo capataj	Pri capacity	CO CAPACITY				
							Total 12 10/page	Go to 1

4) Page Refresh Function

MEGAREVO	Dashboard / Monitor / Plants							Ο Δ [] English 👻 🌍 EMS
Dashboard	Dashboard Plants +							
Monitor     PlantS	Plants           Status         V           Alerts         V	Please enter plant name						± Export.
Devices								
Product ~	Excellerate Holdings	0 0	① MEGA_10寸测试	<b>U V</b>	Singapore	6 9	Cape Town	<b>U V</b>
🖨 Record 🗸	Production	Total Yields	Production	Total Yields	Production Total Y	eda	Production	20194 220H4 Total Yields
Device Library	MEGAREVO 102.7km Daily Production	106963.1kWh Total Production	Daily Production	-kWh Total Production	Second Se	ivin roduction	S7kWh Daily Production	85500xVM Total Production
더 Display	Edit Defete 300kW		Edit Delete 500kW		Edit Delete 100kW -		Eat Delete 100kW	
A₀ Management ~	PCS Capacity	Battery Capacity	PCS Capacity	Ballery Capacity	PCS Capacity Battery	Capacity	PCS Capedly	Battery Capacity
	PV Capacity	DG Capacity	PV Capacity	DG Capacity	PV Capacity DO Ca	pacity	PV Capacity	DG Capacity
	🕢 Berlin	©	💮 Brasilia	© 🧕	<ol> <li>New York</li> </ol>	<b>O O</b>	) 1998-B35	© 0
	TELESCO IOW			35512.97BRL	<b>1000 - 110</b> - 1000	TECNY	<b>-</b>	
	Find the sales	1052 Telos	Transform same	atookwh		15025		-station
	Daily Production	Total Production	Daily Production	Total Production	Daily Production Total P	roduction	Daily Production	Total Production
	Est Delete 100kW PCS Capacity		Edit Delete 100kW PCS Capacity		Edit Delete 100kW PCS Capacity Battery	Capacity	Eat Delete 150kW PCS Capacity	50 kWh Battery Capacity
	PV Capacity	DG Capacity	PV Capacity	DG Capacity	PV Capacity DG Ca	pecity	PV Capacity	DG Capacity
	🕘 IFant	<b>O O</b>	💮 test111	© (0)				
	-AW Production	CNY Total Yields	-KW	-CNY Tool Yields				
	-iwa		Total And And					
	Daily Production	Total Production	Daily Production	Total Production				
	Edit Delete 630kW		Edit Delete (220W)					
	PCS Capacity	Battery Capacity	PCS Capitoly	Battery Capacity				
	OKWp PV Capacity	 DG Capacity	PV Capacity					
							Total 12	0/page V Co to 1

# 5) Edit Power Station Function

When the authorized power station sets the agent's permission as an administrator, it can edit and save the power station information.



### 6) Power Station Deletion

Selecting to delete the power station will cancel the authorization relationship between the agent and the authorized power station.

MEGAZEVO	E Dashboard / Monitor / Plants					🖽 🗘 门 English 🗸 🌍 EMS
Dashboard	Dastonard Plans +					
Monitipr     →	Plants					
Plants						± Export
Record		Protection		Production 1	Production	
문 Display	Eat Detels 30000	Edit Detete Stowy		Eally Production T	Edit Delite 100W	
$\mathcal{B}_0$ Management $\sim$						
			Hint			
	Production	Production	De-authorization of power plant?	- kill 3 Production 7	-W Production	
	Daily Production	Casy Production	ioual Phoosestery	Cancel Confirm Second 7	-onh Daily Protection	
	-WW Production	-ANY Production				
	-AVM Dely Production	- Minis Daily Production				
						10/page → 60 to

### 7) Power Station Details

Click on the SN of a single power station in the power station list to enter the details page of that power station. The details page is divided into four sections: data overview, power station equipment, alerts, and power station information.

### a. Homepage

The homepage of a single power station differs from the overall homepage. The homepage of a single power station features six functional sections: power station information (simplified content), weather, flow diagram, power generation data graph, energy analysis, energy conservation, emission reduction, and income.

The power station information section displays some basic information about the power station: power station name, power station address, and power station type.

The weather section displays the local weather conditions for the next five days.

The flow diagram shows the current flow and power of the power station system.

The power generation data graph plots daily, monthly, yearly, and total data for each part of the system into charts. You can select parameters and time periods to display and export the required data.

The energy analysis section displays the composition of photovoltaic power generation and the source composition of load power consumption, as well as their proportions. You can select a time period to display and export the required data.

The energy conservation, emission reduction, and income section calculates and analyzes the system's electricity usage based on the income information filled in the power station information.

SHENZHEN MEGAREVO TECHNOLOGY CO., LTD.

Monitor System Dashboard Devices Alerts	Plant Info						
MEGAREVO	Megarevo MECA Test © Address: //:::WIRWIH:HURIC SIMULUHIC:WIRWIG & Plant Type: Industrial Business	[Weather → → 27°C 11/12 TUE 21℃/21℃ Sarary 3 m/s a 0535 © 1742	S 2024/11/12 10:36:00	29°C 24°C Q WED 11/13	27°C 23°C Q. 1110 11114	27°C 23°C FRI 11/15	28°C 23°C 5AT 11716
Flow Graph		History 167 0000 04.00	0000 •••• Poole	<u>000</u> there 1/200 500 → <b>6</b> - Consumption → Celd	A Yeer Toler Search	Parameters fragers E	2024-11-12
Power Analysis	Day     Warr     Warr     Light 1     III 2024-11-12   News Parchased       Freese Parchased     Freedom     Production       Entry Discharge     Entry Discharge   Total Consumption	Environmental & Economic Benefits ( Standard Coa → t	) I Saveed CO'r E	imasion Reduction	Trees Panted Trees	Total Yields — CNY	

b. Power Station Equipment

The equipment list for a single power station has functions that are basically the same as those of the equipment module.

1	Dashboard	Devices Alerts	Plant Info						
1	Devices	Please Enter Device SN							* Export
	↔ 1F222222222		7		*	BR0323000222	+		
	Excellerate Holdings Connected plant	2024/08/16 11:05:39 Updated time		Excellerate Holdings Connected plant	2024/04/22 17:45:15 Updated time	Excellerate Holdings Connected plant	2024/08/30 19:30:00 Updated time		
								Total 3 10/page 🗸 🤇 1	> Go to 1

#### c. Alerts

The alert list for a single power station has functions that are basically the same as those of the alert module.

Image:       Warder Warder Willing Wil	MEGAREVO Dashboard	Devices Alerts Plant Info 	,							
Image: Construction labor       Open mode communication labor	Status V Device Type V	mportance 🖌 🖾 Opened Time	Please Enter Alarm Name							* Export
Image: Single	BMS communication failure		Power meter communication fail	lure Open	BMS communication failure		ed 🕑 Power meter communication t	alure		
Failure montrais     Excelerate Haldrigs montrais     Failure montr	2024/03/30 08:33:15 Opened Time	 Closed Time	2024/03/30 08:33:15 Opened Time	 Closed Time	2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time	2024/03/30 08:12:18 Opened Time	2024/03/30 08:31:11 Closed Time		
PG5M     F122222223-1 (mem     PG5M     F12222223-1 (mem     PG5M     F1222223-1 (mem	Pailure Importance	Excellerate Holdings Name	Paillaro Importance	Excellerate Holdings Name	Failure Importance	Excellerate Holdings Name	Failure	Excellerate Holdings Name		
Image: Substand stature       Closed       Image: Substand stature       Image: Substand stature       Closed       Substand stature       Substand stature       Substand stature       Substand stature       Substand stature       Substand stature	PCS-M Devices	F1222222223-1 Device SN								
2024/02/02/02/011     2024/03/20 07.610     2024/03/20 07.610     2024/03/20 07.610     2024/03/20 07.610       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Name     Pice Main     Counce Time     Counce Time     Counce Time       1 montaine     Name     Pice Main     Pice Main     Pice Main     Pice Main     Pice Main       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce Time     Counce Time     Counce Time     Counce Time       1 montaine     Counce Time     Counce	BMS communication failure		Power meter communication fail	lure Closed	Power meter communication fa	ilure Close	d 💮 BMS communication failure			
Failure Importance Manne     Excellerate Holdinge Importance Manne     Excellerate Holdinge Importance Manne     Excellerate Holdinge Importance Manne     Excellerate Holdinge Importance     Excellerate Holdinge Importance       PCS-M Doces     PCS-M Do	2024/03/30 06:00:11 Opened Time	2024/03/30 08:10:17 Closed Time	2024/03/30 08:00:11 Opened Time	2024/03/30 08:10:17 Closed Time	2024/03/30 07:43:16 Opened Time	2024/03/30 07:58:10 Closed Time	2024/03/30 07:43:16 Opened Time	2024/03/30 07:58:10 Closed Time		
PCS-M     F1222222223-1     PCS-M     F122222223-1       Owners     Device 3N       Owner miler communication failure     Control       Operation failure     Control	Failure	Excellerate Holdings Name	Failure Importance	Excellerate Holdings Name	Failure Importance	Excellerate Holdings Name	Failure	Excellerate Holdings Name		
Onew metric communication failure     Closed       0) Power metric communication failure     Closed       2004/03/09 (634.21)     2004/03/09 (63.92.37)     2024/03/09 (74.115)       Operate Time     Closed Time     Closed Time       Postman     Closed Time     Closed Time       Postman     Excellentiale Holdings     Excellentiale Holdings       Importance     Nume     Excellentiale Holdings       POS-M     F122222222.1     Dovices SN       Dovices SN     Dovices SN     Dovice SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN		
2024/80/26/86/34/21     2024/80/26/05/86/37     2024/80/26/05/86/37     2024/80/26/05/86/37       Operand Time     Column Time     Column Time     Column Time       Flasting     Excellential Holdings     Excellential Holdings       Importance     Name     Excellential Holdings       PCSM     F122222223-1     Excellential Holdings       Devices     Device SN     Device SN	Power meter communication failu	ure Closed	BMS communication failure							
Failure         Excellende Holdings         Failure         Excellende Holdings           Imponent         hamit         imponent         hamit           PCSM         P122222221         PCSM         P22222222.1           Devices         Devices for         Devices for	2024/03/26 04:54:21 Opened Time	2024/03/30 07:41:15 Closed Time	2024/03/25 03:58:37 Opened Time	2024/03/30 07:41:15 Closed Time						
PCS.M         F122222223.1         PCS.M         F122222223.1           Drives         Drives         Drives         Drives         Drives	Failure Importance	Excellerate Holdings Name	Failure Importance	Excellerate Holdings Name						
	PCS-M Devices	F1222222223-1 Device SN	PCS-M Devices	F1222222223-1 Device SN						
⊂								Total 75 10/page V	1 2 3 4 5 6 8	> Go to 1

### d. Power Station Information

The power station information for a single power station displays the power station's images, basic information, system information, and income information.

MEGAREVO	Dashboard D	evices Alerts Plant Info								
M			Basic Info Address: D PlantsiD: install Dat Continent: Time Zone	<b>8</b> .1	Excellerate Holdings 1 read 2 Longitude: 20.054627 UTC+62:00	Lattoole: 34.399847				
System Info	Plant Type: Install Date:	Residential	PCS Capacity:	300kW OKWh		Yield Info Currency: ZAR Date	Туре	Time No Data	Price	
	Ccumulated Running Days:	19966 Day	🛒 PV Capacity:	6kWp						

# 4.4.6 Power Station Equipment

The Equipment section allows you to view the device information and data bound to the authorized power stations. When authorized as an administrator, you can also manage the operational strategies of the authorized devices.

The content displayed in the Device List includes: Device Name, Device SN Code, Network Status, Alert Status, Power Station Belonging, and Update Time.

The content displayed in the Hybrid Inverter List includes: Device Name, Device SN Code, Network Status, Alert Status, Power Station Belonging, Power Generation Capacity, Daily Power Generation, Daily Full Generation Hours, Power Generation Efficiency, Module Capacity, and Update Time.

1) Device Search Function

When you need to quickly find a specific device, simply enter the device SN code, and the page will provide you with the most relevant results for your search.

MEGAREVO	Dashboard / Monitor / Devices							Ш Д [] English	🗸 🔵 емз
Dashboard	Dashboard Plants × Devices ×								
Monitor	Devices								
Plants	Logger PCS-H PCS-T PCS-M	BMS Air Conditioner Please Enter D	evice SN Q						± Export
Devices									
Product ~	1F222222222	000400448 44-05-00		1 0004104100 17-15-15		7	<u> </u>	2021/22/20 40 20 20	1
🖹 Record 🗸	Connected plant	Updated time	Connected plant	Updated time	Connected plant	Updated time	Connected plant	Updated time	
Device Library									
덙 Display									
∂ ₈ Management ~									
	2000000000000000000000000000000000000			*	20000000003     20000000003	*	20000000004		*
	Cape Town Connected plant	2024/08/30 19:30:00 Updated time	Berlin Connected plant	2024/08/30 19:30:00 Updated time	Brasilia Connected plant	2024/08/30 19:30:00 Updated time	New York Connected plant	2024/08/30 19:30:00 Updated time	
	T00000000001	*		*					
	工厂测试 Connected plant	2024/08/28 22:45:46 Updated time	工厂测试 Connected plant						
							Tot	al 18 10/page 🗸 < 1 2	> Go to 1

### 2) Device Type Classification

We categorize devices based on their functions into the following categories: Data Collector, Hybrid Inverter (PCS-H), Converter (PCS-T), Modular Converter (PCS-M), and BMS.

MEGAREVO	Dashboard / Monitor / Devices							Ш. Д. [] Englis	n 👻 🌍 ems
Dashboard	Dianoard Plans × Devices ×								
Monitor ~	Devices								
Plants	Logger PCS-H PCS-T PCS-M	BMS Air Conditioner Please Enter	Device SN Q						± Export
Devices									
Product ~		*			★ F12300000001	1	2000000000     2000000000		*
🖨 Record 🗸	Excellerate Holdings Connected plant	2024/08/16 11:05:39 Updated time	Excellerate Holdings Connected plant	2024/04/22 17:45:15 Updated time	MEGA_10寸測试 Connected plant	2024/08/28 22:45:46 Updated time	Singapore Connected plant	2024/08/30 19:30:00 Updated time	
Device Library									
the company									
원 Management ~									
	① Z0000000001	*	20000000002		A 0 20000000003	*	20000000004		*
	Cape Town Connected plant	2024/08/30 19:30:00 Updated time	Berlin Connected plant	2024/08/30 19:30:00 Updated time	Brasilia Connected plant	2024/08/30 19:30:00 Updated time	New York Connected plant	2024/08/30 19:30:00 Updated time	
	⊕ T0000000001     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □     □	7	↔ T0000000002		*				
	Connected plant	2024/08/28 22:45:46 Updated time	Connected plant						
							Το	tal 18 10/page 🗸 < 1 2	Go to 1

## 3) Data Export Function

Export some important data from the currently filtered and displayed device list. The exported data content is consistent with the content displayed in the list.



# 4) Page Refresh Function

MEGAREVO	E Dashboard / Monitor / Devices										ш Ф []	English 🗸	EMS
Dashboard	Dashboard Plants × Devices ×												
Monitor ~	Devices												
Plants	Logger PCS-H PCS-T PCS-M	BMS Air Conditioner Pleas	se Enter Devi	ice SN Q								± E	xport C
Devices													
Product ~	1F222222222	000400440 44-00-00	*	F1222222223	00040040047.45.45	1	F1230000001	000400000 00-45-40	*	Z0000000000	2021/08/20 10:20:00	1	
🛱 Record 🗸	Connected plant	Updated time		Connected plant	Updated time		Connected plant	Updated time		Connected plant	Updated time		
Device Library													
뎡 Display													
. கு. Management 🗠													
	2000000000000000000000000000000000000		*	<u> </u>		*	20000000003			20000000004     20000000004			
				Berlin			Brasilia						
	Connected plant	Updated time		Connected plant	Updated time		Connected plant	Updated time		Connected plant	Updated time		
			*			1							
	Connected plant	2024/08/28 22:45:46 Updated time		Connected plant									
											Total 18 10/page 💙	< <mark>1</mark> 2 >	6010

### 5) Power Station Details Page

Click on the icon button in the top-right corner of the device card to enter the details page of the power station where the device belongs.

MEGAREVO	≣ D	ashboard / Monitor / Devices										Ο Δ [] Eng	ish 🗸 🌍	EMS
Dashboard	Dashbo	eard Plants × Devices ×												
Monitor ~	De	evices												
Plants	Logg	Jer PCS-H PCS-T PCS-M I	BMS Air Conditioner Please	Enter De	vice SN Q								± Export	
Product ~		① 1F222222222		1	F1222222223		*	F1230000001		1	<u>         20000000000         </u> 2000000000		1	
🛱 Record 🗸		Excellerate Holdings Connected plant	2024/08/16 11:05:39 Updated time		Excellerate Holdings Connected plant	2024/04/22 17:45:15 Updated time		MEGA_10寸测试 Connected plant	2024/08/28 22:45:46 Updated time		Singapore Connected plant	2024/08/30 19:30:00 Updated time		
Device Library														
뎡 Display														
<i>8</i> ₀ Management ~														
		200000000001		*	20000000002		*	20000000003		*	1 Z000000004		*	
		Cape Town	2024/08/30 19:30:00		Berlin	2024/08/30 19:30:00		Brasilia	2024/08/30 19:30:00		New York	2024/08/30 19:30:00		
		Connected plant	Updated time		Connected plant	Updated time		Connected plant	Updated time		Connected plant	Updated time		
		① T00000000001		7	① T0000000002		*							
		工厂测试 Connected plant	2024/08/28 22:45:46 Updated time		工厂 测试 Connected plant									
											Total		2 . 646	
											iutai			

### 6) Device Details Page

Clicking on the device SN brings you to the device details page, which is divided into four sections: Data Details, Alarm Information, Parameter Information, and Operating Strategy.

### a. Data Details

The Data Details section displays the device's power generation data, basic information, and real-time data. The power generation data section visualizes the system's daily, weekly, monthly, yearly, and total data through charts. You can select the desired data and time period to display and export it through parameter and time range selection.

PCS-H: 20000000004-1 @.cvitre @ No Aants 202407/27 16 05:00 Details: Alarts Parameter Operation Strategy								±≎×
Historical Data								
					Day V	Veek Month Year	Total Select Parameters Export	■ 2024-07-27
		2024/07/27	15:05:00					
		DC voltage     DC current	PV1: 0V					
		DC power	PV1: 0kW					
		Inverter vo	Itage AB: 202V					
			mage b.: 2004					
0.4 200	~							
0.2 100								
0.2 100								
0 0								
		DC voltage PV1 DC current PV1	DC power PV1 Inverter voltage AB	<ul> <li>Inverter voltage BC</li> </ul>				
Basic information								
Manufacturer name: MEGAREVO		Converter model: MPS0500K			Monitoring screen version	on: V400B414D006		
DCAC version:		Point table protocol version: V300			Serial number: 20000	0000000		
Electricity production								
DC Voltage Current	Power		-		AC	Voltage	Current	Frequency
Total DC input power: 0 kW		Total DC input current: 0 A			Inverter frequency: 50	Hz		
Inverter total active power: 0 KW		Daily production: 56 kWh			Monthly production: 14	400 kWh		
Yearly production: 16800 kWh		Total production: 84000 kWh						

### b. Alarm Information

The alarm list for a single device functions similarly to the alarm module.



### c. Parameter Information

The Parameter Information section displays the device's parameter settings and allows issuing commands to modify these parameters.

PCS-H: Z0000000004-1 A Online 2924/07/27 18:05:00	e 🔺 No Alerts							το×
Details Alerts Parameter Operation	n Strategy							
Mode Of Action								
DCAC settings								
Constant power(AC) (kW)	Output reactive power mode 🥥	Output power factor	Output reactive power (kVAr)	DCAC constant voltage (V)	DCAC constant current (A)	Output frequency level (Hz) 📀	Output voltage level (V)	Grid connected mode of PCS (2)
3	Non adjustable 🗸		•	600	-1500	50	400	Off-grid 🗸
				150 ~ 900	-1500 ~ 1500	40 ~ 65	200 ~ 480	
Update	Update	Update	Update	Update	Update	Update	Update	Update
Power control type	Machine type	Machine capacity (KW)	Control mode	Parallét	Working mode	Remote generator control Ena	Remote generator control	Start charging SOC (%)
Positive and negative pr V	MPS-TS	500 -		Disable	System for self-use	Disable		
Hodate	lindate	Undate	Undate	lindate	Undate	lindate	Undate	
			C C C C C C C C C C C C C C C C C C C		Chase			Update
Stop Charging SOC (%)	DG capacity (kW) 📀	DG ECP (kW)	DG FCP (kW) 🛛 🕥	GRID ECP (kW)	GRID FCP (kW)	GRID EDP (kW)	GRID FDP (kW) 📀	Remote EPO 📀
50								
1~100								
Update	Update	Update	Update	Update	Update	Update	Update	Update
Grid expansion enabling	Grid capacity	Energy priority 💿	Generator charging power limi	DCAC Remote Switching	Battery type			
Prohibition of grid expa 💙		Battery>Grid V			None			
Update	Update	Update	Update	Update	Update			
DCDC settings								
Work parttern 📀	Boost or buck 🥥	DCDC constant voltage (V)	DCDC constant current (A)	DCDC Remote Switching 🥥	Outer ring centralized control 🥹			
мррт 🗸	BOOST 🗸	300			Disable 🗸			
Update	Update	Update	Update	Update	Update			

d. Operating Strategy

The Operating Strategy section displays the operation modes already bound to the device, as well as a list of operation modes created by the agent account. Binding rules for operation modes: Only one type of strategy can be bound, and only one of either the backup power mode or steady-state capacity expansion mode can be bound.

PCS-H 2024/07/	: Z0000000004-1 📣 Online 27 18:05:00 Alerts Parameter Operation	A No Alerts			• 0	perate Successfully						τc	×
Runni Polici adf	ng mode has been bound / Name: Debunde									Total 1 1	0/page ∼] < <mark>1</mark>	→ Go10 1	
	23 Ahrea Model Spension Strategy 2024-05-01 23 Resulption	Report Daly Esocian Cyse 2024-05-31 End Dae	edf Cycenton Strangy 2020-60-13 mercowin Penergilan	Repeat Daily Executor Cyse 2026-05-15 Eve Date		11_Test Miner Model Operation Strangy - Bur Date - Description	Keep Reporting Exercision Cycle — End Date	and Churad Model Operation Straingy - Sant Date 阿伊斯达达特大场世界较大这曲 Description	Meep Reporting Exercution Cycle — End Case				
										Total 4 1	0/page 🗸 < 🚺	> Go to 1	

e. Firmware Upgrade

The firmware upgrade function is used to remotely upgrade the device control program. You can select the appropriate type and search for the required firmware package. The upgrade process displays a progress bar, and the success or failure of the upgrade will be recorded in the operation log section.

PCS-H.: Z00000000004-1 Conine Con No Alerts 2024/07/27 18:05:00 Details Alerts Parameter Operation Strategy		±ο×
Running mode has been bound Publy Name: of Debundle	Firmware Upgrade Adaptation Type:       Monitor     Search       Monitor     Search       Firmware Name     Formaare Namio     Adaptation Type	X Ball Wyper ( ) Cob (
T23         Figure 1           1/2         Figure 1 Daily Constitutions         Figure 1 Daily Execution Codes           2024-60-01         2024-60-31		
	tedel≎ <u>töpunge</u> → < <mark>11</mark> > Gab Lingunde Gar	#
		Total 4 10/page > Ga to 1

# 4.4.7 Device Library

The Device Library function helps agents manage all purchased devices with unified data.

The Device Library cannot bind operation modes to devices. If you need to set an operation mode, you can do so within the power station device settings.

The Device Library section records all devices purchased by the agent, capturing all data from device access to usage.

○ Londor       • Marce • New * New • New • New • New * New • New • New *	MEGAREVO	E Dashboard / Device Library / De	wice Library								Ξ 슈 [] Englis	h 🗸 🌍 EMS
<ul> <li>Lotes Losy</li> &lt;</ul>	Dashboard	Dashboard Plants × Devices × 0	Operation Log × Oevice Library ×									
Nets   Deter   Orter   Orter <th>Monitor ^</th> <th>Device Library</th> <th></th>	Monitor ^	Device Library										
Current Partici   Image: Partiti   Image: Partici   Imag	Plants	Logger PCS-H PCS-T PCS-	M BMS Air Conditioner Pleas	e Enter Sn								
Product • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • • <th>Devices</th> <th></th>	Devices											
Finance     Contracting leading the School (2017-06-15)     Contracting leading the leading leading the leading leading the leading leading the leading lea	Product			<b>⋪</b> ⊕ !	F12200000001					① T0000000001		*
Consider   inside   Read   Read   Read   Read   Read   Consider part	Firmware	Excellerate Holdings Connected plant	2024/04/22 17:45:15 Updated time	 Conne	scied plant	2024/04/22 17:45:15 Updated time		 Connected plant	2024/04/22 17:45:15 Updated time	Connected plant	2024/08/28 22:45:46 Updated time	
Exercit   Record   Avera   Notot   Connected part   Updated the   Updated the   Connected part   Updated the	Command											
<ul> <li>Road</li> <li>Aust</li> <li>Road</li> <li>Tonococcocci uni</li> <li< th=""><th>Strategic</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></li<></ul>	Strategic											
Austa   Repart   Conversión joint	🛱 Record 🗠											
Rout ITRE SOURCECT juit Updated free   Correctict juit Updated free   Correctict juit Updated free     I Destribut	Alerts			<b>#</b> 💿 1	T0000000003		*	T0000000004	*			*
Constant Log Constant Log Constant part Constant part Constan	Report	エデ 別は Connected plant		IT: Conne	NULC scied plant	2024/06/27 13:57:58 Updated time		工厂第44	2024/08/28 22:45:46 Updated time	1998-BAA	2024/06/27 14:39:36 Updated time	
E Decka Likzer Decka Likzer Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Management Managemen	Operation Log											
E Deplay A Management Tomoconstance part Tomoconstance part Tomo	Device Library											
A Management       O       Toppost       Imagement       O         1989-bb2       2024-08/28 22.45.46       Connected part       Updated time         Updated time       Updated time       Updated time       Updated time	덪 Display											
1969-bit: 22/34/03/22/35/46 Connected part Updated the Connected part Updated the	<b>∂</b> Management ∽	⊕ T00000011111		a 💿	100000033333		1					
Connectes part Updates time Updates time Updates time		1998時站	2024/08/28 22:45:46	1998		2024/08/28 22:45:46						
		Connected plant	Updated time	Conne	ected plant	Updated time						
Salar M Tagage v ( 1 2 ) Ga										To	tal 14 10/page 🗸 < 1 2	> 6010

### 1) Device Search Function

When you need to quickly find a specific device, enter the device's SN code, and the page will provide the most relevant results for your search.

2) Device Type Classification

We categorize devices based on their functions into the following categories: Collector, Hybrid Inverter (PCS-H), Converter (PCS-T), Modular Converter (PCS-M), and BMS.

### 4.4.8 Firmware Management

The Firmware Management section features the capability to upload firmware and displays all successfully uploaded firmware information on the homepage. The Firmware Management list displays the following information: Firmware Name, Firmware Version, Applicable Product, Version Details, and Update Date.

1) Firmware Search Function

When you need to quickly find the required firmware information, enter the firmware name, and the page will provide the most relevant results for your search.

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MEGAREVO	Dashboard / Product /	Firmware										English 👻 🌍 EMS
Dashboard	Dashboard Plants × Devic	ces × Operation Log × Device Library	<ul> <li>Firmware ×</li> </ul>									
Monitor ^ Bisate	Firmware				Pie	ise enter Firmware Nar	ne					Upload Firmware
Filalito												
Devices	EMS激励团件		2 🗊	EMS		2 🗊	PMA DSP		2 🗄	PMA DSP		4. 🗊
Product 🗠	V500B00D002 Firmware Version	EMS Applicable Product		V500B00D002 Firmware Version	EMS Applicable Product		V20 Firmware Version	PCS-M Applicable Product		V17 Firmware Version	PCS-M Applicable Product	
Firmware												
Command	Version Description	Updated Time		Version Description	Updated Time		Version Description	Updated Time		Version Description	Updated Time	
Strategic	HMI-V400B414D006			HMI-V400B413D006			HMI-V400B412D006			HMI-V400B411D006		
🛱 Record 🗠	V400B414D006 Firmware Version	PCS-M Applicable Product		V400B413D008 Firmware Version	PCS-M Applicable Product		V400B412D006 Firmware Version	PCS-M Applicable Product		V400B411D006 Firmware Version	PCS-M Applicable Product	
Alerts												
Report	Version Description	Updated Time		Version Description	Updated Time		Version Description	Updated Time		Version Description	Updated Time	
Operation Log	DCDC-V500B405D00	20		DCDC-V500B406D000								
Device Library	V500B405D000 Firmware Version	PCS-H Applicable Product		V500B406D000 Firmware Version	PCS-H Applicable Product							
딙 Display												
<i>8</i> ₀ Management ∨	Version Description	Updated Time		Version Description	Updated Time							
											Total 14 10/page 🗸 🤇	1 2 > Go to 1

### 2) Upload Firmware

Click on "Upload Firmware" to access the firmware upload information page. Fill in the firmware name, firmware version, version description (optional), firmware upgrade package, applicable product, and adapter type (hidden if no applicable product is selected or if the applicable product is BMS).

Applicable Product Options: Hybrid Inverter (PCS-H), Converter (PCS-T), Modular Converter (PCS-M), BMS, EMS

Adapter Type Options (Hybrid Inverter): Monitor, DCAC, DCDC

Adapter Type Options (Converter, Modular Converter): Monitor, DSP

Adapter Type Options (EMS): EMS

MEGAREVO	≕	Dashboard / Product / Firmware			Upload Firmware Info		×
Dashboard			e Firmware ×		* Firmware Name	* Firmware Version	
Monitor							
Plants					Version Description	* Famware Package	
Devices							Upload
Product 🗠					* Applicable Product		
Firmware					Select V		
Command							
Strategic					Cancel	Save	
🛱 Record 🗠							
Alorts							
Report							
Operation Log							
Device Library							
딙 Display							
₿ Management ~							
Broken					<u>Cover</u>	500 	

### 3) Edit Firmware

Edit the successfully uploaded firmware information, including: firmware name, version description, applicable product, and adapter type.

MEGAREVO						Edit Firmware Info		×
Dashboard			Firmware ×			' Firmware Name	* Firmware Version	
Monitor ^						EMS86d38PT	V500800D002	
Plants						Version Description	* Firmware Package	
Devices						36471603681	usrapp	
Product						* Applicable Product	* Adaptation Type	
Firmware							DAS	~
Command								
Strategic						Cancel	Save	
🛱 Record	V400B414D008 Firmware Version	PCS-M Applicable Product		V400B413D006 Firmware Version	PCS-M Applicable Product			
Alerts								
Report								
Operation Log								
Device Library	V500B405D000 Emmane Version	PCS-H Applicable Product		V500B406D000	PCS-H Annicable Product			
🖾 Display								
₿ Management ~								

### 4) Delete Firmware

Delete the successfully uploaded firmware and its associated information. Note that once the deletion is performed, it cannot be undone.

MEGAREVO	E Dashboard / Product / Firm	WBF0					ω 4 []	English 👳	EMS
Deshboard			Firman -						
Monitor								Uplo	ad Firmware
Plants									
Product									
Command									
Strategic									
🖹 Record									
Alerts Report				2024/03/11 14:46:04 Updated Time	HMI26777422200 Version Description				
Operation Log				Please Confirm Sure To Delete Firmware Packag					
Device Library				1	Cancel Confirm				
🖾 Display									
₿ ₈ Management ~				Upanet time					

### 4.4.9 Command Management

The Command Management section categorizes, summarizes, and manages various command information data set in different devices. After authorizing commands to end-users and installers, the authorized accounts can issue those commands to the devices under their respective power stations, supporting batch authorization.

Device Categories: Hybrid Inverter, Converter, Modular Converter, BMS.

1) Authorization and De-authorization

Click the authorization button for the command that requires authorization, search for the authorization target and proceed with the authorization (only end-users and installers who have been authorized for the power stations under their names can be searched). After successful authorization, end-users and installers will have the operational permission for that command.

To perform batch authorization, select the commands that require authorization and click the authorization button in the upper right corner of the page.

To de-authorize, click on "Details," select the user or installer that needs to be de-authorized, click on the de-authorization icon, and confirm the de-authorization.

The operation for batch de-authorization is similar to that of batch authorization.



### 2) Authorization Details Page

Displays the list of authorized users and installers, showing the following information: Name, Email. Supports the operations of canceling authorization and adding new authorizations.

MEGAREVO		Constant power(AC)			
Dashboard		PCS-H			
Monitor ^		Constant power value of AC side, control AC side power. Buttery priority and optimal mode do not dis	tinguish between positive and negative, they all show charging action. In manual mode, positive value	t is discharged and negative value is charged. (Effective when positive or negative power is selected for pov	er control type)
Plants					
Devices		Authorized Users Authorized Instater			Authorize
😌 Product 🗠	DCAC settings				
Firmware	Constant power(AC)	SA-Test	EMS		
Command		laoshaoshen@megarevo.com.cn E-mai	 E-mai		
Strategic	Output frequency level				
🛱 Record					
Alerts	Control mode Authorize				
Report	Stop Charging SOC				
Operation Log					
Device Library	GRID EDP Authorize				
딙 Display					
₿ Management ~	Generator charging power limit Authorize				
	DCDC settings				
	Work partiern Authorize				
	Lithium battery settings				
	DOD on-grid Authorize				
	Discharge voltage lower Limit				
	Generator turn off SOC(B1)				
				Та	tal2 < → Goto

# 4.4.10 Policy Management

he Policy Template feature enables the configuration of device operation policies, allowing for the customization of various operation modes based on actual needs to achieve optimal power station performance.

The Operation Policy List displays the following information: Policy Name, Execution Cycle, Start Date, End Date, Template Description, Operation Policy.

### 1) Policy Search Function

When you need to quickly find a specific operation policy, enter the policy name, and the page will provide the most relevant results for your search.

MEGAREVO	Deshboard / I	Product / Strategic										۵4[]	English 🗸 🌍 EMS
Dashboard	Dashboard Plants	Devices      Opera	ation Log × Device Library ×	Firmware +	Command + Strategic +								
Monitor ^	Run Policy					Pleas	e Enter A Strategy	Name					New Policy
Plants													
Devices	test23							best112					
Product	Backup Mor Operation Str	de alegy	Keep Repeating Execution Cycle		Peak Shaving Operation Strategy	Repeat Weekly Execution Cycle		Peak Shaving Operation Strategy	Repeat Daily Execution Cycle		Peak Shaving Operation Strategy	Repeat Daily Execution Cycle	
Firmware					2024-03-01	2029-10-02		2024-03-01	2024-03-31		2024-05-20	2024-05-21	
Command	Start Date		End Date		Start Date	End Date		Start Date	End Date		Start Date	End Date	
Strategic	Description				123 Description			23 Description			Description		
🛱 Record 🗠													
Alerts	123		Descent Delta	2. U	adf	Descent Dalla	ø. 10	123	Kara Barantan	2. 0	123	K 0	2 8
Broart	Operation Str	en uulegy	Execution Cycle		Operation Strategy	Execution Cycle		Operation Strategy	Execution Cycle		Operation Strategy	Execution Cycle	
regult	2024-05-01		2024-05-31		2023-06-13	2026-05-15							
Operation Log	Start Date		End Date		Start Date	End Date		Start Date	End Date		Start Date	End Dale	
Device Library	123 Description				 Description			 Description			1231 Description		
덙 Display													
🔏 Management 🗠	11_Test			28	asd		28						
	Mixed Mode Operation Str	ol rategy	Keep Repeating Execution Cycle		Mixed Model Operation Strategy	Keep Repeating Execution Cycle							
	Start Date		End Date		Start Date	End Date							
	Description				Description								
												Total 10 10/page 🗸	< 1 > Goto 1

2) Create New Policy

Click "Create New Policy" to enter the new policy creation page. Fill in the Policy Name, Template Description (optional), select the Execution Cycle, Start Date, End Date, Policy Template, and configure the Operation Policy.

Execution Cycle Options: Repeat Daily, Repeat Weekly, Long-Term

Policy Template Options: Peak Shaving and Load Shifting, Backup Power Mode, Steady-State Expansion, Hybrid Mode

Peak Shaving and Load Shifting Configuration: Start Time, End Time, Control Type (Standby, Charge, Discharge), Scheduled Power, Target SOC

Backup Power Mode Configuration: Start Charging SOC, Stop Charging SOC, Start Charging Cell Voltage, Stop Charging Cell Voltage, Start Charging Total Voltage, Stop Charging Total Voltage, Charging Power

Steady-State Expansion Configuration: Grid Capacity, Start Charging SOC, Stop Charging SOC, End Discharging SOC

Hybrid Mode Configuration: Peak, Flat, and Off-Peak (Peak, Flat, Off-Peak), Start Time, End Time, Function (Economy Mode, Peak Shaving and Load Shifting), Scheduled Power, Target SOC, Generator Action (None, Generator On, Generator Off)

a. Add 24-Hour Operation Policy (Only available for Peak Shaving and Load Shifting and Hybrid Mode)

b. Delete 24-Hour Operation Policy (Only available for Peak Shaving and Load Shifting and Hybrid Mode)

MEGAREVO		New Policy					
Dashboard		Policy Name:	Execution Cycle:	Start Date:		End Date:	
Monitor ^			Repeat Daily ~	6			
Plants		Description:					
Devices							
Product 🗠	Backup Mode Destation Strategy	Policy Template:					
Firmware		reak snaving	00:00		24:00		
Command							
Strategic		<b>+</b>					
🛱 Record 🗠		Start Time	End Time	Controling Type	Planned Power(kW)	Target SOC(%)	Operation
Alorts		0 00:00		Solect 🗸			
Report							
Operation Log	2024-05-01 Start Date						
Device Library				Confirm	coel		
🛱 Display							
$eta_{0}$ . Management $\sim$							

# 3) Edit Policy

Edit the successfully created operation policy.

MEGAREVO	Ð	Dashboard / Produc	Edit Policy						:	×
Dashboard			Policy Name:							
Monitor			test23							
Plants			Description:							
Devices			desc							
Product 🗠			Policy Template: Backup Mode							
Firmware										
Command			Start Charging SOC(%)	Stop Charging SOC(%)	Start Charging Cell Voltage(mV)	Stop Charging Cell Voltage(mV)	Start Charging Total Voltage(V)	Stop Charging Total Voltage(V)	Charging Power(kW)	
Strategic								22		
🛱 Record										
Alorts										
Report										
						Confirm				
Device Library		123 Description								
딙 Display										
8₀ Management ~										

# 4) Delete Policy

Delete the successfully created operation policy. Once the deletion is executed, it cannot be undone.

MEGAREVO									Ξ Δ Ξ	English 🗸	EMS
Dashboard			Command × Strategic ×								
Monitor ^ Plants										I	New Policy
Devices											
Product •		Keep Repeating Execution Cycle		Repeat Weekly Execution Cycle			Repeat Daily Execution Cycle		Repeat Daily Execution Cycle		
Firmware											
Strategic											
Record ^											
Alerts Report		Repeat Daily Execution Cycle 2024-05-31		Repeat Daily Execution Costs Hint		Backup Mode Convection Strategy	Keep Repeating Execution Cycle		Keep Repeating Execution Cycle		
Operation Log				This operation will pe	rmanently del	ate the item,					
Device Library				whenler to continue :	0	ancel Confirm					
🛱 Display											
<u>₿</u> Management ∨	11_T061 Mixed Model Operation Strategy	Keep Repeating Execution Cycle		Keep Repeating Execution Cycle							
									Total 10 10/page ~	< 1 >	Go to 1

### 4.4.11 Alert

The Alert module displays the alert information of authorized power stations.

Alert List Display Content: Alert Name, Alert Start Time, Recovery Time, Alert Status, Level, Power Station Name, Device.



### 1) Alarm search function

Alarm name search: When you need to quickly find a specific alarm, enter the alarm name, and the page will provide the most relevant results for your search.

Alarm status filtering: Filter alarms based on whether they have been restored after occurrence, with filtering conditions: All, In Progress, and Restored.

Alarm level filtering: Filter alarms based on their severity levels, with filtering conditions: All, Reminder, Alarm, and Failure.

Alarm time filtering: Filter alarms by selecting the time of occurrence, allowing you to view a week's worth of alarm data.

2) Data export function

Export some important data from the currently filtered and displayed device list. The exported data content is consistent with the content displayed in the list.

3) Page refresh function

4) Alarm details page

Click on the alarm name to enter the alarm details page, which displays the current alarm's cause, resolution, and device data during the alarm period. The data information is presented in a chart, and you can select the desired data and export it by selecting parameters and time periods.

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# 4.4.12 Report

The report function is used to statistically present the basic parameters and power generation status of power stations and equipment over a past period of time. Reports provide a concrete representation of the business data of power stations and equipment.

After selecting the content you wish to export, click "Export Now" to download the Excel report to your browser.

MEGAREVO	🔄 Dashboard / Report	η Δ [] English 🗸 🌍 EMS
Dashboard	Daubase Parts - Donkes - Primae - Ants - Donka Lizey	
Monitor		
Plants	Plant Data v Detailed Data v System is going is report the data. (Max time span: 30 Days)	
Devices	Please enter plant name Q	
Product		
Firmware	Excelente Holdings Name Name Name Cope Town Name Berlin Name Name Name Name Name Name Name Name	
Command	troad Address // 方张派和历史和成员和描述的第三 // 16 Road Address // Address // Addres // Address	
Strategic		
Record	Tana Tana Kara Tana Kara Kara Kara Kara Kara Kara Kara K	
Alerts	Norma Pre- Annual Annua	•
Report		
Operation Log	a de la galeda de la ga Regela de la galeda de la galed	
Device Library		
덙 Display		
ළ Management ~		
120.75.73.112.81/emil#/http://enid		

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MEGAREVO	E Dashboard / Record / Report			CI 🗘 [] English 🗸 🌍 EMS
Dashboard	Dashboard Plants × Devices × Firmware × Alerts × Devices ×	vice Library + Report +		
Monitor ^	Device Data Y	Detailed Data 🗸	System is going to export the data. (Max. time span: 30 Days)	
Plants				
Devices	Please Enter Device SN Q		Electricity production	Power grid
Product ^			DC voltage PV1 DC current PV1 DC power PV1 Inverter voltage AB	Grid voltage AB 📓 Grid voltage BC 📑 Grid voltage CA 📑 Grid current A
Firmware	BMS Excellerate Holdings	PCS-H Excellerate Holdings	Inverter voltage BC Inverter voltage CA Inverter current A Inverter current B	Grid current B Grid current C Grid frequency Grid power factor
Command	Device Type Connected Plant	Device Type Connected Plant	Inverter current C Total DC Input power Total DC Input current	Total grid active power 📄 Total grid reactive power 📄 Grid apparent power
Strategic	F1222222223-1	Z0000000000-1	Inverter frequency Inverter total active power	
🛱 Record	PCS-M Excellerate Holdings	PCS-H Singapore		
Alerts	Device Type Connected Plant	Device Type Connected Plant		
Report	@ Z0000000001-1			
Operation Log	PCS-H Cape Town		■ Lost	Battery
Device Library	Connected Plant		Load voltage AB     Load voltage BC     Load voltage CA     Load ourrent A	Battery Voltage Battery Current Battery sower
띥 Display			Load current B     Load current C     Load frequency     Load power factor	
🔏 Management 🗠			Total load active Power Total load reactive Power Load apparent power	
			Temperature	
			IGBT temperature     Environment temperature	

# 4.4.13 Operation Logs

The Operation Records section displays log records of command dispatch and firmware upgrades, enabling you to check whether the command dispatch and firmware upgrade operations have been successful, thereby managing devices more efficiently.

The content displayed in the operation log list includes: device SN code, device type, operation type, operation details, description, failure reason, operator, operation time, and feedback time.

MEGAREVO	Dashboard / Record / Operation	n Log						Ш Ф [] En	glish 🗸 🌍 EMS
Dashboard	Dashboard Plants × Devices × F	Firmware × Alerts × Device Library × Report	Operation Log +						
Monitor	Operation Log								
Plants	Device Tune V Operatie	on Tune X Oneration Statu X Plaa	re Enter So.						
Devices									
Product ^	T20240727000		F1220000000-15		20000000002		T20240727000		
Firmware	Logger Device Type	Firmware Upgrade Operation Type	PCS-H Device Type	Remote Control Operation Type	Logger Device Type	Firmware Upgrade Operation Type	Logger Device Type	Firmware Upgrade Operation Type	
Command	EMS测试图件 () Operation Details	Initial Invalid State Description	Machine capacity 🕖 Operation Details	 Description	EMS测试因件 🥑 Operation Details	 Description	EMS测试团件 <b>《</b> Operation Details	Initial Invalid State Description	
Strategic	2024/07/27 15:42:38	2024/08/31 09:51:00	2024/07/20 17:35:08	2024/08/31 09:40:49	2024/07/29 14:07:45	2024/07/29 14:09:00	2024/07/27 15:33:53	2024/07/27 15:44:00	
🖨 Record	Operation Time	Feedback Time	Operation Time	Feedback Time	Operation Time	Feedback Time	Operation Time	Feedback Time	
Alerts	T20240727000		T20240727000		T20240727000		T20240727000		
Report	Logger	Firmware Upgrade	Logger	Firmware Upgrade	Logger	Firmware Upgrade	Logger	Firmware Upgrade	
Operation Log	Device Type	Operation Type	Device Type	Operation Type	Device Type	Operation Type	Device Type	Operation Type	
Device Library	EMSINGCENT  Operation Details	Initial Invalid State Description	EMS_BL([A](‡ () Operation Details	 Description	Cperation Details	Initial Invalid State Description	EMS派派通行中 🥑 Operation Details	Initial Invalid State Description	
	2024/07/27 15:30:37	2024/07/27 15:41:00	2024/07/27 15:39:45	2024/07/27 15:41:00	2024/07/27 15:22:39	2024/07/27 15:33:00	2024/07/27 15:12:26	2024/07/27 15:22:30	
ᇆJ Display	Operation Time	Feedback Time	Operation Time	Feedback Time	Operation Time	Feedback Time	Operation Time	Feedback Time	
🔏 Management 🗸	T20240727000		Z0000000000-1						
	Logger	Firmware Upgrade	PCS-H	Firmware Upgrade					
	Device Type	Operation Type	Device Type	Operation Type					
	EMS测试因件	- Description	DCDC-V500B405D000 () Operation Details	 Description					
	2024/07/27 15:20:11	2024/07/27 15:21:30	2024/07/26 15:23:40	2024/07/26 15:25:00					
	Operation Time	Feedback Time	Operation Time	Feedback Time					
							Total 504 10/p	age ✔ < 1 2 3	51 > Go to 1

1) Function Description

a. Search: When you need to quickly find the operation records of a specific device, enter the device's SN code, and the page will provide you with the most relevant results for your search.

b. Device Type: Filter by different types of devices recorded in the logs. Filtering conditions include: All, Hybrid Inverter (PCS-H), Converter (PCS-T), Modular Converter (PCS-M), BMS.

c. Operation type: Filter by the operation type recorded in the log. Filtering conditions: All, parameter command, firmware upgrade.

d. Operation status: Filter by the completion status of the operation command. Filtering conditions:

All: All operation records

Sending: Records of parameter commands being sent

Upgrading: Records of firmware upgrades in progress

Failed: Records of failed parameter command sending and firmware upgrades

Succeeded: Records of successful parameter command sending and firmware upgrades.

### 4.4.14 Large Screen Display

The large screen function provides agents with intuitive and clear power station data display, helping them to fully understand the operation of the power station and make timely decisions. The display content is basically the same as the data overview, presenting the distribution of power stations on the globe.

MEGAREVO	E Dashboard / Applications / Display	EI 🗘 [] English 🗸 🌍 EMS
Dashboard	Dashboard Plants × Davkes × Display =-	
Monitor ^	DisplayList	
Plants	- System Default	
Devices		
🛱 Record 🗸		
Device Library		
Display	© Show	
👌 Management 🗠		

### Display:



# 4.4.15 About the company

The company section displays company information and contact information. The company information shows the company logo, company name, and company location, which can be edited. The contact information displays the contact name and email.

MEGAREVO	E Dashboard / Management / About				🖽 🕰 门 English 🗸 🌍 EMS
Dashboard	Dashboard Plants × Devices × Display × About +				
Monitor ^	Business Info		Owner Info		
Plants					
Devices		Business			
Product ~	LOGO	Name Rusineer Area		Contact Person:	
🛱 Record 🗸				😰 E-mail:	
Device Library	2. Edit	🖉 Edit		Ŭ	
뎡 Display					
🔒 Management 🗠					
About					
Member					
Role					

# 1) Edit Business Logo

Click the edit button below the logo, and an edit pop-up window for the business logo will appear on the right side of the page. Select the logo you want to upload, edit the image, and then upload it.



### 2) Edit Business Information

Click the edit button below the business information, then modify or add new business information, and upload it.

MEGAREVO	Dashboard / Management / About		1	Business Info	×
Dashboard	Dashboard Plans × Devices × Display × C About =				
Monitor ^				Business Name	•
Plants				EMS	0
Devices		Business EMS		Business Area	
Product ~	LOGO		Contact Person: EM	China	<b>~</b>
🛱 Record 🗸		Susiness Area 中国	🖻 E-mail:		
Device Library	4_ Edit	ℓ_ Edit	- -	Cancel Confirm	
딙 Display					
🔏 Management 🗠					
About					
Member					
Role					

# 4.4.16 Members

The member section displays information of sub-accounts of members. By adding new members and assigning roles to relevant members, they can work together to manage the account. The member list displays the following information: member name, role, phone number, email, username, and last login time.

### 1) Member search function

When you need to quickly find the required sub-account of a member, enter the member's name, and the page will provide the most relevant results for your search.

MEGAREVO	Dashboard / Management / Member			🗂 🗘 [] English 🗸 🌍 EMS
Dashboard	Dashboard Plants × Devices × Display × About × C Member +			
Monitor	Member	Please Enter Member	Name Q	Add a New Member
Plants				
Devices	EMS Š L 🗇	123 Š L 🛱	zhangsan ố đ 🖻	
Product ~	Admin	last 123@ea.com		
🛱 Record 🗸	Role E-mail	Role E-mail	Role E-mail	
E Device Library	wangliang 2024/08/31 16:20.42 Username Last Login Time	12345 2024/06/19 14.44:14 Username Last Login Time	zhangsan 202406/19 14-42:33 Usemame Last Login Time	
덙 Display				
& Management				
About				
Member				
Role				
				Total 3 10/page -> < 1 > Go to 1

2) Add Member Function

Click on "Add New Member" to enter the page for adding a new member. Fill in the login email, member name, login username, login password, select a role, and after saving, the member can log in to the company account using their email or username.

MEGAREVO	E: Dashboard / Management / Manbar	Add a Member	×
Dashboard	Deatboard Plants - Devices - Display - About - About - About -		
Monitor ^	Member Please Enter Member Name Q	* Member Name	
Plants			
Devices	FMS & & # 123 & & & # zhanzaan & &	* Role	
Product ~		arrited	
∯ Record ~	Admin - Lest 123@qq.com Common user -	* te-mail	
	Notic         Limit         Notic         Limit           wengling         200400131 1620 42         12345         200400151 1644.14         2201400151 1644.14	Liamara O	
E bence curary	Usemame LastLogin Time Usemame LastLogin Time Usemame LastLogin Time Usemame LastLogin Time	Username	
(c) Display		* Password	
🔏 Management 🗠		Password	
About			
Member		Gancel Save	
Role			

3) Reset Password Function

Reset the password for a member's sub-account.

MEGAREVO	Dashboard /	Management / Member			🛄 🗘 [] English 🗸 🌍 EMS
			* About × Member +		
	Member				Add a New Member
			Reset Password		
			After resetting the password, system will not send E-mail to notify members. Please inform the members of the new password to ensure the normal use.		
			Password		
		wangliang	Password (A combination of letters and numbers with more than 8 characters)		
				Court Carlos	
👃 Management 🗠				Cancel	
					Total 3 10/page 🗸 🤇 🚺 > 🛛 Go to 📋

### 4) Edit Member Function

Edit the information of a successfully added member. Editable content includes: login email, member name, login username, and role.

MEGAREVO		Edit Member ×
Dashboard	Eurosane   Paula *   Devices *   Depiny *   And *   *   manufacture	
Monitor ~	Literatory Research Literatory	* Member Name
Plants		123
Devices		*Rote
		test 🗸
	Admin - Isti 123@qq.com Cammon uter -	*E-mail
Hecora ~	Not East C Ante East C Ante East	123@iqq.com
Device Library	weiging Last up here Uurnowe Last up here Uurnowe Last up here	Username •
Display		12345
🔒 Management 🗠		
About		Laike
Member		
Role		

### 5) Delete Member Function

Delete the information of a successfully added member. Once the deletion action is performed, it cannot be undone.



# 4.4.17 Roles

The Roles section is used to control the scope of data visibility and functions available to members. Account function permissions are based on roles. By dividing different roles and assigning different function permissions, the distinction of functional permissions among members can be achieved by assigning roles in the Member section when adding new members and editing members. The role list displays the following information: role name and role description.

MEGAREVO	Dashboard / Management / Role			🗂 🗘 [] English 🗸 🌍 EMS					
Dashboard	Dashboard Plants × Devices × Display × About × Member × Role ×								
Monitor ^	Role Adda New Role								
Plants									
Devices	22	Common user	2.0	4.8					
Product ~	Name	Name	tost Name	123 Name					
🛱 Record 🗸	This role has all permissions, and there is only one administrator in the comp Describtion	This role only has permission to view plants. Describition	ss Describtion	这是一个很长很长很长很长很长很长很长很长很长很长很长很长很长很长很长很长很长。					
Device Library									
🖾 Display									
🔒 Management 🗠									
About									
Member									
Role									
				10/page V (1) Go to 1					

### 1) Add Role Function

Click on "Add New Role" to enter the page for adding a new role. Fill in the role name, role description (optional), select the role permissions, and after saving, you can assign roles to members in the Member section.

dd a New I	ew Role Curved						Cancel Save	
	* Name :					Describtion:		
	ALL	Menu Permission	Function Permission					
	•	Plants	Edit plant	Delete plant				
	•	Devices	Device command	Device upgrade	Operate device strategy			
	•	Alerts	Alert Notification Settings					
	•	Device library						
	•	Operation log						
	•	Firmware list						
	•	Command management	Add command authorization	Delete command authorization	n			
	•	Report						
	•	Strategy template	Add a strategy template	Edit strategy template	Delete strategy template			
	•	Display						
		About business	Edit business info	Edit business logo				
	•	Member	Add a member	Edit member	Delete member			
	•	Role	Add a role	Edit role	Delete role			

2) Edit Role Function

Edit the information of a successfully added role. Editable content includes: role name, role description, and role permissions.

The administrator role and regular user role cannot be edited. The administrator role has all permissions, and there can only be one administrator per company. The regular user role only has permissions to view power stations.

Edit Role								Cancel Save
	*Nens:			Describion: 55				
	ALL	Menu Permission	Function Permission					
		Plants	Edit plant	Delete plant				
		Devices	Device command	Device upgrade	Operate device strategy			
		Alerts	Alert Notification Settings					
		Device library						
		Operation log						
		Firmware list						
		Command management	Add command authorization	Delete command authorizati	ion			
	•	Report						
		Strategy template	Add a strategy template	Edit strategy template	Delete strategy template			
		Display						
	•	About business	Edit business info	Edit business logo				
	•	Member	Add a member	Edit member	Delete member			
		- Role	Add a role	Edit role	Delete role			

3) Role Deletion Function

Delete successfully added role information. The deletion action cannot be undone once it occurs.

MEGAREVO				
Dashboard	Dashboard Plants × Devices × Display × About × Member × Role ×			
Monitor ^				Add a New Role
Plants				
Devices				
Product ~				
🛱 Record 🗸 🗸				
Device Library				
딙 Display				
🔏 Management 🔿				
About				
Member				
Role		Hint	×	
		Villeurer in detere ine rule :	Cancel Confirm	
				Total 4 _ 10/page → Cate 1

# Attachments

Cloud Platform Web Terminal User Manual https://help-user.emsplatform.cloud/ Cloud Platform Web Merchant End User Manual https://help-business.emsplatform.cloud/