

浙江赛唯数字能源技术有限公司 ZHEJIANG SAV DIGITAL POWER TECHNOLOGIES CO.LTD

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EMS CLOUD PLATFORM - USER MANUAL V1.0.0

浙江赛唯数字能源技术有限公司

ZHEJIANG SAV DIGITAL POWER TECHNOLOGIES CO.LTD.



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I. Revision History

This document records functional changes of the SAV E-Box Commercial & Industrial Energy Storage Cloud Platform.

<2023/10/17>/<V1.0.0>

< 2023/12/29> / <V1.0.1>

Revision History

No.	Version	Revision Date	Туре	Revision Content
1	V1.0.0	2023-10-17	А	Initial version
2	V1.0.1	2023-12-29	М	Revised version

Type: A - Added, M - Modified, D - Deleted



II. Platform Overview

浙江省台州市椒江区东海大道东段1008号 No. 1008, Donghai Avenue East, Jiaojiang District,TaizhouCity,ZheilangProvince, China

SAV E-Box Commercial & Industrial Energy Storage Cloud Platform

- Data visualization at station and device levels
- Centralized management of operational metrics across multiple stations
- Unified control for energy storage, PV, and charging devices
- Configurable control strategies based on different time periods, battery status, and load types
- Supports multiple operator access with complete data segregation
- Flexible generation of daily, monthly, and annual operation and profit reports
- Value extraction, AI prediction, and decision-making analysis based on big data





III. Product Functions

The SAV E-Box Commercial & Industrial Energy Storage Cloud Platform provides various account types with different functionality scopes. This section mainly introduces features available to cloud platform administrators. For more details on account permissions, refer to System Settings - Account Management.

Category	Function	Description
н	Data Dashboard	Unified display of real-time data resource status for all stations
nome	Multi-Station Overview	Overview of data statistics, platform trends, alarms, and station lists
	Station Overview	Display single-station data overview, platform trends, station information, efficiency, discharge rate, and system list
	Station System	Real-time station data overview, energy flow chart, power trend, alarm status, equipment operation trend, revenue
Single-Station Data	Device Monitoring	Display real-time data of linked devices, with device types and quantities based on project configuration
	Fault Alarms	Monitor equipment status, displaying related fault information in case of malfunctions
	Electricity Price Management	Configure and manage station electricity pricing strategies
Statistics	Energy Report	System operation data for energy usage
Reports	Profit Report	System operation data for revenue
Operation & Maintenance Management	Work Order Management	Targeted management and tracking of work orders based on customer needs
	Station Management	Tools for managing and maintaining stations within the energy storage system
System	Public Templates	Company-wide templates accessible to all accounts on the cloud platform
Management	Account Management	Creating, managing, and maintaining user accounts on the platform
	System Management	Adding, assigning, and managing the EMS system



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- 1 Open the platform URL in a browser: https://sav.iesscloud.com/#/login. Chrome is recommended. Enter the username and password to log in.
- To create a new account, the platform administrator should navigate to System Management -> Account Settings.

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SAV E-BOX Industrial and Commercial Energy Storage Cloud Platform	
	Please enter your login email and password * Account
	* Password
	ø
	Remember the password
	I have read and agree to the Privacy Agreement
	Login
皖ICP备16023239号	



3.2.1 Overview

Upon logging into the EMS Cloud Platform, the Multi-Station Overview page appears as the default home page, as shown in the image below:

≤₩寢	隹			⊕ English ~ □ 🛑 晨光
Data screen	Multi site Overview 2024-10-29			
Multi site Over Station Card gle station data	Total number of sites	Charging data/Today	Discharge data/Today	Income for the day
Overview of th	Online4, Offline0, waiting O&M0	Compared to yesterday: 1.020 MWh+	Compared to yesterday: 2.153 MWh #	Compared to yesterday: 2136.82 +
Site System Energy manage	Installed power: 1.5 MW Installed capacity: 3 MWh	Monthly: 124.099 MWh Accumulated: 904.552	Monthly: 108.380 MWh Accumulated: 791.186	Monthly income: 8.43 K Total revenue: 66.15 K
Electricit NEW	Revenue statistics Electricity statistics		Last 7 days Last 31 days	Last 12 months 2024-10-23 - 2024-10-29
istical report Electricity report Income statem aration and maintenanc tagement Work order ma tem management	hoome 3,500 2,500 1,500 1,500 0 2024-10-23 2024-10-24 2024	4-10-25 2024-10-28 2024-10-27 2024-	■ Income Revenue	
etract	Site List			
	Communication Status: All	> Power station screening: All	✓ Please enter the name of	f the pov Query Reset
	Serial Number Name of power station	Online status Demand control	Charging data/Today(kWh) Disch	arge data/Today(kWh) Total charging
	2	1 M 1	10	
	3	100 C 10 C 10 C 10 C		
	4		1.0	

Multi-Station Overview displays data statistics, platform trends, alarms, and station lists in a card layout.

• Every login or refresh fetches the latest data for real-time display.

• The platform default is to display data from stations managed by the current account.

• Status graphs use a color code: green for normal, red for abnormal, and gray for other states, enabling quick status identification.

• New stations can be added from this page.

• The station list supports filtering, exporting, and custom display fields, with station names clickable to navigate to single-station data.



3.3 Single-Station Data

Overview: Single-Station Data provides insights per station, showing overview data,

system data, device monitoring, fault alarms, and pricing information.

• The platform default is to display data from stations managed by the current account, with the option to switch between stations.

3.3.1 Station Overview

• Station Overview displays data overview, platform trends, station information, efficiency (charge/discharge ratio), discharge achievement rate (discharge/capacity), and system list for a single station in a card layout.

• New stations can be added from this page.

• System lists can be filtered, exported, and have customized display fields, with system names clickable to navigate to the corresponding station system page.





3.2 Station System

3.2.1 Overview

The Station System page displays a real-time data overview, including an energy flow diagram, power data trends, alarm status, equipment operational trends, and real-time power revenue, all in a card layout.

• Users can perform "Energy Management" operations for individual systems directly from this page.

• Real-time power revenue is updated hourly.

杰克铸造中心400kW	//800kWh/5888	446 C	g Mester	主机(UD6201005	1DCV0109)	8						
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										Grid	meter_Low	
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										Ener	rgy storage en#1	 Normal
										Batt	ery stack#1	Normal
										Batt. Batt	ery stack#1_ ery cluster#1	Normal
1.0	L											
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3.2.2 Energy Management

Energy Management enables energy scheduling functions, allowing for strategic energy distribution and utilization based on energy demand changes. This helps avoid prolonged overload or excessive discharge of energy storage devices.

Energy Control:

• By setting parameters like start time, end time, storage control type, and planned power parameters, users can enable charge/discharge control capabilities by sending these to the EMS.

xecution plan Policy ma	nagement			New polic
天深谷策略 Operator:杨磊 [elivery time: 2024-10-10 10:49:45		-O- Charging -O- D	ischarging -O- Standby
e power/kW	390 kW 400	kW 390 kW 400	0 kW	
):00	07:59	10:00 11:01 12:59 14:00	16:59	24:00
Start time	Finish time	Execute energy storage	ge control category Planned power(kW)	
00:00	00:01	• Standby	0	
00:01	07:59	Charging		
07:59	08:00	 Standby 	0	
08:00	10:00	Discharging		
0:00	11:01	Standby	0	
1:01	12:59	Charging		
2:59	14:00	 Standby 	0	
4:00	16:59	 Discharging 		
16:59	24:00	 Standby 	0	

Overload Prevention:

• During charging, the system monitors grid connection point power in real-time and adjusts storage charging power based on set parameters to prevent overloads.

• This is achieved by setting charge limit, start, and prohibit charging thresholds, which are then sent to the EMS.

		No. Distric	1008, Donghai Avenue East, t,TaizhouCity,ZheilangProvin
、 铸造中心400kW/800kWh储能电站	ter 主机(UD02010051DCV0109) 。		Remote control (?)
ergy control ① Anti overload Anti-reflux			
When setting parameters, please fill in according	to "Prohibit Charging Threshold>Limit Charging Threshold>S	tart Threshold*!	
ti overload setting			Anti overload control
Forbidden charging threshold(kW)	Charge limit threshold(kW)	Start threshold(kW)	
	Application		
	Аррісацон		

Anti-Backflow:

• During discharging, the system monitors the grid connection point power in realtime and adjusts storage discharge power based on set parameters to prevent power from flowing back to the grid.

• This is implemented by setting discharge limit, start, and prohibit discharge thresholds and sending these to the EMS.

• When setting parameters, please fill in	according to "Start threshold>Limit threshold>Prohibit threshold"!	
ti backflow setting Start threshold(kW)	Limiting discharge threshold(kW)	Anti backflow contro Prohibit discharge threshold(kW)
	Application	



Manual Control:

• Manual Control allows users to switch between manual and automatic modes for testing EMS equipment.

• **Manual Mode:** Users control charging/discharging, power, and standby operations independently, unaffected by energy control strategies.

• Automatic Mode: The system operates automatically based on energy control strategies.

Secondary Protection:

Secondary Protection provides additional parameters to further safeguard and control the battery, ensuring the safe, reliable, and efficient operation of the entire battery storage unit.





3.3 Equipment Monitoring

Displays real-time data for the devices associated with the system and configure specific device types and quantities according to actual projects.

• It supports switching between different types of devices and multiple devices.

• Device Data: Displays device status, real-time device data, and device fault codes, with control capabilities supported based on device types.

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교 Data screen	温岭壹加壹400kW/800kWh储能电	, mi î	Master UD020	010051DCK0085	Ţ					
86 _{o=} Station Card	PCS Meter BMS Air-conditioning Peripheral									
Single station data	DCC#1									
 Overview of th 	FC3#1									
⊡ Site System						Last data data 1 2024 10 20 11-00-5		· Data analuia	Data average	Eurik must
😑 Equipment mo	Equipment status					Last data time: 2024-10-27 11:00:3			Data export	Pault Teset
Site alarm	Operation	 Charging 		• On grid		Normal	Remote		Normal	
Energy manage	Running state	Working condition		Grid connection r	tatus	Fault status	Control mode		Communicate with	EMS
Electricit NEW										
Statistical report	DC side status	Bus status		Power on allowed	İstate	Module on/off status	Inverter side pow	er supply status	Inverter on state	
Income statem										
Operation and maintenance	- Power supply mode	- Mode of work								
management	Environment data									
Work order ma	Equipment data									
Alarm Center	Daily charging capacity	227 kWh	Daily dischar	ge capacity	203 kWh	AC frequency	50.00 Hz	Total AC act	ive power	-97.1 kW
효 Alarm monitoring	Total AC reactive power	-1.3 kvar	Total AC app	parent power	97.6 kVA	Total AC power factor	0.99	A-phase acti	ve power	-32.4 kW
Organizational Management										
≡Retract	B-phase active power	-32.5 kW	C-phase acti	ve power	-32.2 kW	A-phase reactive power	-0.7 kvar	Phase B read	tive power	-0.4 kvar

3.4 Fault Alert

The Fault Alert feature provides real-time monitoring of device status and operation. When a device encounters an anomaly or fault, relevant information is displayed immediately.

• The page includes a circular chart that displays "Today's Alerts," "Alert Levels," and "Device Types."

• A fault statistics list allows filtered queries based on various conditions.

		浙江省日 No. 1008, District,Taizh	î州市椒江区东海大道东段 Donghai Avenue East, Ji 10uCity,ZheilangProvinc [,]
SW 赛唯		$_{\oplus}$ English \sim	● 赛唯管理员 ~
Data screen Multi site Over	温岭豊加豊400kW/800kWh储能电站 回		Historical alarms
55 31 Station Card 5ingle station data	Device type: All v Warning level: All v Alarm type: All v	Fault status: In progress	~
r Overview of th	Treatment suggestion: O&M handling ~ Time frame: O Start time - Finish time		
Equipment mo	Query Reset		_
 Energy manage Electricit NEW 	Alarm statistics		
Electricity report	Warning level	Device type PCS	o
Deration and maintenance nanagement	Normal Orgentat Or	Air-conditioning Peripheral Meter BMS	0
Work order ma		· Diric	v

3.5 Electricity Price Management

The Electricity Price Management function primarily involves configuring and managing the electricity price strategies for power stations.

3.5.1 Electricity Price Configuration

• • It supports configuring electricity prices at the power station level and on a monthly basis.

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Data screen	温岭壹加	壹400kW/800kWh储	New template		
88 8≣ Station Card	Electricit	ty price allocation	Template managemer	t	
Single station data Overview of th	<	2024	>		
⊡ Site System ⊟ Equipment mo ① Site alarm	First quarter	January + Binding template	February + Binding template	March + Binding template	
 Energy manage Electricit NEW Statistical report 	Seconc quarter	April + Binding template	May + Binding template	June 20日 浙江官方电价2024 年6月	100 E
Electricity report Income statem Operation and maintenance	Third quarter	July & C 浙江24年7月份官方 电价	August & 口 江苏官方电价2024 年8月	September &口 浙江2024年9月份官 方电价	Currently there is no template, please click New template
Management Work order ma Alarm Center Alarm monitoring	Fourth quarter	October &口 浙江2024年10月官 方电价	November + Binding template	December + Binding template	
Organizational Management					

• Click on the selection box under the month and choose an electricity price template. After making your selection, click "Bind" to complete the binding of the electricity



price template. (Electricity price templates are created in Template Management.)

• It supports viewing the details of the already bound electricity price templates.

温岭壹加壹400kW/800kWh储能电站 @								
Electricity price allocation	Template management							
Time horizon:	4	Query Reset	Please enter the content, such as template nar	ne,Q				
Template name	State	Label Founder	Creation time Operation					
浙江官方电价2024年6月	• In use (1)	洪国强	2024-10-28 14:49:31 Examine Binding Date Reference creation Edit	Delete				
浙江24年7月份官方电价	• In use (1)	洪国强	2024-10-28 14:49:20 Examine Binding Date Reference creation Edit	Delete				
江苏官方电价2024年8月	• In use (1)	洪国强	2024-10-28 14:49:01 Examine Binding Date Reference creation Edit	Delete				
浙江2024年9月份官方国	电价 • In use (1)	洪国强	2024-10-28 14:46:0: Examine Binding Date Reference creation Edit	Delete				
浙江2024年10月官方电	价 • In use (1)	洪国强	2024-10-28 14:45:4: Examine Binding Date Reference creation Edit	Delete				
total S			< 1 > 60	to 1				

If a user modifies the electricity price template that is already in use, the platform data will not change immediately.

The recalculation will take place around 1:00 AM the day after the modification.

3.5.2 Template Management

The Template Management page allows for the management of electricity price templates under the current power station. It supports the creation of new electricity price templates, referencing existing templates, displaying templates list, and performing corresponding operations.

晶岭壹加壹400kW/800kWh储創	:电站 @		New template
Electricity price allocation	mplate management	Query Reset	Please enter the content, such as template name(Q
Template name	State	Label Founder	Creation time Operation
浙江官方电价2024年6月	• In use (1)	洪国强	2024-10-28 14:49:31 Examine Binding Date Reference creation Edit Delete
浙江24年7月份官方电价	• In use (1)	洪国强	2024-10-28 14:49:20 Examine Binding Date Reference creation Edit Delete
江苏官方电价2024年8月	• In use (1)	洪国强	2024-10-28 14:49:01 Examine Binding Date Reference creation Edit Delete
浙江2024年9月份官方电价	• In use (1)	洪国强	2024-10-28 14:46:0; Examine Binding Date Reference creation Edit Delete
浙江2024年10月官方电价	• In use (1)	洪国强	2024-10-28 14:45:4: Examine Binding Date Reference creation Edit Delete
total 5			< 1 > Goto 1
浙江2024年10月官方电价	• In use (1)	洪国强	2024-10-28 14:45:4; Examine Binding Date Reference creation Edit Delete

• Create a Template: To create a new electricity price template under the current power station. Click the "Create Template" on the page to access the creation page.

• After filling in the basic information, time periods, and electricity prices in sequence, click "Confirm and Add" to create the template.

Electricity price man	agement $>$ New template			
Basic information	Time period and price			
* Template name:	Please enter 0/50			
Label name:	Please enter	Generate		
	Label names are separated by Spaces. Press enter or click the "Generate" butto	n to generate labels. A maximum of 20 characters can be entered for each label, and a maximum of 10 labels can be generated.		
			Cancel	next step



information Time p	period and price	
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eral		
period editing		
Start time	Finish time	Corresponding period
Please sel	Please sel	Please selec ~
Please sel	Please seli	Please selec \vee
Please sel	Please sel	Please selec >
Please sel	@lease sel	Please selec 🗸 🛞 🛍
ity price editing	Purchase price (Yuan /kWh)	Selling price (Yuan /kWh)
Tip	Purchase price	Sell price
Peak	Purchase price	Sell price
lat	Purchase price	Sell price
/alley	Purchase price	Sell price
Barranca	Purchase price	Sell price

Time Periods and Electricity Prices: The set start and end times must total 24 hours.

• Reference-Based Template Creation: When creating a new template, you can quickly do so by basing it on an existing (old) template.

• Operation Steps:Click the "Reference Creation" on the page and turn to the public template library page. Select the corresponding template and click the "Confirm Reference" to add the selected template to the template management list under your power station.



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Electricity price management > Reference creation

Basic information	Time period and price			
* Template name:	浙江官方电价2024年6月 13/50 ②			
Label name:	Please enter	Generate		
	Label names are separated by Spaces. Press enter or click the "Generate" butto	in to generate labels. A maximum of 20 characters can be entered for each label, and a maximum of 10 labels can be generated.		
			Cancel	next step



4. Statistical Reporting

The Statistical Reporting function serves as a display of operational data for the cloud platform system. It provides a centralized reflection of key information such as electricity consumption and revenue, offering comprehensive data support for energy storage management and operations. Users can gain a more intuitive understanding of the system's operational status, formulate reasonable charging and discharging strategies, and improve the efficiency and economy of the energy storage system.

4.1 Electricity Report

• By default, it displays the "Station Summary," which includes charging volume, discharging volume, and overall efficiency data for all power stations managed under the current account.

• It supports filtering by time range (daily, monthly, yearly) with a report export function.

≤₩赛唯								⊕ English > 🔰 🛑 赛唯管理员
덪 Data screen	Electricity report							
88 Multi site Over 88 Station Card	Site summary Displa	ys the report data of a	all sites. The report dat	ta can be displayed on a	a daily basis for 31 days or	on a monthly basis for o	one year.	×
Single station data	Site summary Single st	ation report						
Site System	Time frame: 🗐 2024	1-09-29 - 2024-10-2	29 Daily 🗸 🔍	Reset				Report export
Equipment mo	Cite some			Charge	capacity(kWh)			Querell officiency(%)
 Energy manage 	Site name	Tip	Peak	Flat	Valley	Deep valley	Total	Overall enclency(76)
Electricit NEW	温岭壹加壹400k	0.0	3.8	1.8	991.2	0.0		99.04
Statistical report	扬州倍加洁零号	-	-	-	-	-		-
Electricity report	扬州倍加洁五号(-	-	-		-		-
Operation and maintenance	扬州倍加洁四号	-	-	-	-	-		-
management	扬州倍加洁三号		-	-		-		-
Work order ma	扬州倍加洁二号	-	-	-	-	-		-
Alarm monitoring	扬州倍加洁一号	-	-	-		-		-
Organizational Management	惠州辉鸿项目31	0.0	19.1	3,199.0	4,123.6	0.0	7	87.53
≡Retract	2#车茴汰修315K	0.0	4.1	1.158.5	3.152.4	0.0	4	87 71

• Single-Station Report: it allows for viewing the charging volume, discharging volume, and overall efficiency data for a single power station managed under the current account.

• It supports switching between different report types (daily, monthly, yearly reports), selecting specific stations, filtering queries by time range, and exporting reports.

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≤₩赛唯		⊕ English ∨ 👘 🜑 赛唯管理员 🗸
🖂 Data screen	Electricity report	
Multi site Over	• Site summary Displays the report data of all sites. The report data can be displayed on a daily basis for 31 days or on a monthly basis for one year.	×
Single station data	Site summary Single station report	
Site System	Report type: Period report Daily statement Monthly statement Yearly statement	
Equipment mo	Select site: 温龄壹加壹400kW/800k > Please select a date: ③2024-10-29 Query Reset	
 Energy manage 		
Electricit NEW	Period data	
Statistical report	Lez Line chart 0∭ Bar chart 8≣ Form	
Income statem	Tip Peak Flat Valley Deep valley	
Operation and maintenance management	BlechsJAWh	
Work order ma	1,000	
Alarm Center		
≜ Alarm monitoring	400	
Organizational Management	200	
≡Retract	0 /	

4.2 Revenue Report

• By default, it displays the "Station Summary," which includes charging prices, discharging prices, and time-based revenue amounts for all power stations managed under the current account.

• It supports filtering by time range (daily, monthly, yearly) with a report export function.

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炅 Data screen	Income statement							
88 Multi site Over n= Station Card	 Site summary Displays the 	ne report data of all	sites. The report data	can be displayed on a c	laily basis for 31 days o	r on a monthly basis for or	ie year.	×
Single station data	Site summary Single station	1 report						
Site System	Time frame: 🗐 2024-09	-29 - 2024-10-29	Daily V Que	Reset				Report export
Equipment mo				Charg	ing Price			
 Site alarm Energy manage 	Site name	Tip	Peak	Flat	Valley	Deep valley	Total	Actual income
Electricit NEW	温岭壹加壹400kW/	-	4.35	1.21	306.68		312.24	807.64
Statistical report	扬州倍加洁零号主控	-	-	-	-	-	-	-
Electricity report	扬州倍加洁五号(备电)	-	-	-	-	-	-	
Operation and maintenance	扬州倍加洁四号	-	-	-	-	-	-	
management	扬州倍加洁三号	-	-	-	-	-	-	-
Work order ma	扬州倍加洁二号	-	-	-	-	-	-	-
Alarm monitoring	扬州倍加洁一号	-	-	-	-	-	-	-
Organizational Management	惠州辉鸿项目315KV	-	21.58	2,161.79	1,129.34	-	3,312.71	3,943.01
≡Retract	2#车营计修315K\/Δ		4.77	813.47	895.18	-	1.713.42	2 728 54

• Single-Station Revenue Report: it allows for viewing the charging prices, discharging prices, and time-based revenue amounts for a single power station managed under the current account.

• Supports switching between different report types (daily, monthly, yearly reports), selecting specific stations, filtering queries by time range, and exporting reports.

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PI Data screen	Income statement	
Multi site Over	Site summary Displays the report data of all sites. The report data can be displayed on a daily basis for 31 days or on a monthly basis for one year.	×
BE Single station data	Site summary Single station report	
Overview of th Site System	Report type: Daily statement Monthly statement Yearly statement	
Equipment mo	Select site: 温岭壹加壹400kW/800k ~ Time frame: 2024-09-29 - 2024-10-29 Query Reset	
 Site alarm Energy manage 	⊯ Line chart all Bar chart B≣ Form	
Electricit NEW	Income	
Statistical report	600	
Electricity report	500	
Income statem	400	
Operation and maintenance management	300	
Work order ma	200	
Alarm Center	100	
ف Alarm monitoring	0	
Organizational Management	10-28 10-29	
#Retract		

-



5. Operation and Maintenance Management

5.1 Work Order Management

Work order management is a function that allows for targeted management, maintenance, and tracking of a series of issues and requests related to power station work orders based on the needs of different customers.

Work Order Management Overview

Sub-functions	Function Description
Create Work Order	Users with new work order creation permissions can create work orders. Upon completion, the work order will enter the "Pending Assignment."
Work Order Status	Display corresponding work order data based on different work order statuses.
Work Order List	Display fields and operations for work orders in different statuses in a list format.
Work Order Filter	Use filter conditions to query the work order list and display the corresponding results.
Work Order Operation	Perform corresponding operations on each work order.



Function Description

• Create New work orders: work orders are created by administrators. Then, they are displayed on the "Pending Assignment" page, where administrators will allocate them.



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New construction work order

X

* Order type			
Please select	~		
* Select site			
Select	\sim		
Select system			
Please select	\sim		
Degree of urgency			
Please select	~		
Processing mode			
Please enter			
* Work order heading			
Please enter			
Work order details			
Please enter			

• Work Order Status: Work order management is categorized into the following statuses: "Pending Assignment," "Pending Acceptance," "Processing," "Processed," "Completed," and "Closed."

To be distributed	Pending order(1)	In process	Processed	Completed(10)	Closed(5)



• Pending Assignment : the status means work orders that have been newly created are awaiting assignment to other personnel.

• Pending Acceptance: the status means a work order has already been assigned and is waiting for the handler to accept.

• Processing : the status means the work order is in progress, being handled by the assigned person $_{\circ}$

• Processed: the status means operation and maintenance have been completed and is awaiting confirmation by the administrator.

• Completed: the status means a work order has had its processing procedure confirmed.

• Closed : the status means a work order was directly closed by the creator (work orders that are in a status prior to "Processed" are eligible for closure).

• Work Order Filter: the status means the filtering and querying based on work order statuses (fuzzy search supports work order numbers, titles, and contents).

	gorden(ii) in process Process	d Completed(10) Closed(5)			
Select site: All	 ○ Order typ 	e: All v	Time frame:	🛱 Start date - Finish date	
				Query Reset	Qwork order number / title / cont
Serial Number Work	order numb ₁ Order type I	Name of power st Degree of urgenc	Creation time	Work order headi Founder	Operation

Example: Filter to be assigned

• Work Order List: the status means a list displaying the corresponding fields for each work order status (displayed according to permissions):

Work order managen	nent							+ New construction work order
To be distributed	Pending order(1) Ir	n process Proc	essed Completed(10)	Closed(5)				
Select site: All		 ✓ Order 	type: All	~ Tir	me frame:	Start date	Finish date	
						C	Reset	Owork order number / title / cont
Serial Number	Work order numb	Order type	Name of power st Degr	ee of urgenc _. Crea	ation time	Work order head	Founder	Operation
1	GD20240801							Examine Order taking Close

Example: Filter to be assigned

• Work Order Operation: the status means the process of handling and resolving work order tasks (operations are defined based on work order status and role permissions).

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Work order management				+ New construction work order	
To be distributed Pending order(1)	In process Processed Completed(10) Closed(5)				
Select site: All	 Order type: All 	 ✓ Time frame: 	Start date - Finish date		
			Query Reset	Owork order number / title / cont	
Serial Number Work order number	Order type Name of power st Degree of ur	genc: Creation time	Work order headiı Founder	Operation	
1				Examine Order taking Close	

For example: perform a work order task to be assigned

6. System Management

6.1 Power Station Management

The power station management function in the cloud platform is a tool designed for the management and maintenance of power stations within energy storage systems.

• It supports viewing and managing power stations under the current account.

≤₩赛唯							e English > 🛛 🔵 赛唯管理员 >
뗮 Data screen	Power station manag	gement					+ Create a power station
88 Multi site Over B≣ Station Card	Station status:	All v cu:	stomer: 全部	 ✓ Please enter the 	he name of the Query	Reset	
Single station data	Serial Number	Name of power station	Number of systems	Installed power(MW)	Installed capacity(MWh)	customer	Operation
Site System	1	1.1					Examine Modification Delete
Equipment mo	2	1 A 199	9	-	-	-	Examine Modification Delete
Site alarm	3		■ =	-	÷		Examine Modification Delete
Energy manage	4	1000	= =	-			Examine Modification Delete
Electricit NEW	5	K K K			-		Examine Modification Delete
Electricity report	6		· Ξ	-	-		Examine Modification Delete
Income statem	7	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	3	-	-		Examine Modification Delete
Operation and maintenance	8	10.1000/0000				÷	Examine Modification Delete
management	9		■ ∃				Examine Modification Delete
Work order ma	10	2001.001					Examine Modification Delete
rór Alarm monitoring							
Organizational Management	total 119				< .	1 2 3 4 5	6 ••• 12 > Go to 1
≡Retract							

• Click on "Create Power Station" to enter the corresponding page. After filling in the information, click the "Create" button to establish the power station.

			浙江赛唯数字能 ZHEJIANG SAV DIGITAL POW	源技术有限公司 /ER TECHNOLOGIES CO.LTD
			浙江省台州市椒江 No. 1008, Dongha District,TaizhouCity,Z	I区东海大道东段1008号 i Avenue East, Jiaojiang ˈheilangProvince, China
≤₩裏唯			⊕ English ∨ 👘 ● 赛唯管	理员 ~
	Power station management \Rightarrow Create a power station			
B Multi site Over B≣ Station Card	After creating the power station, it is necessary to bind the system After the creation of the power station is completed, you need to go to the sy operate normally	stem management and select the correspond	nding system to be assigned to the power station before it can	×
Single station data Overview of th	Basic information			
ite System	Name of power station * Power plant own	er	Power station contact number	
Equipment mo	Please enter the name of the power station 0/50 Please enter the	e name of the power plant owner 0/20	Please enter the power station contact number	
 Site alarm Energy manage 	Installed power(MW) Installed capacity Please enter the installed power Please enter th	(MWh) e installed capacity	Operation time Please select a date	
Electricit NEW Statistical report Electricitu report	Address	35		
Income statem	Station latitude and longitude			
Operation and maintenance	Acquire latitude and longitude			
Work order ma Alarm Center ☆ Alarm monitoring Organizational Management ■Retract	Picture of the power station Here: The size objected images should not exceed M, supporting PNG and JPS formats, and up to 5 mages can be uploaded	Example description : Please follow the example to upload pictures to achieve a better display effect. (Horizontal map is Cancel Establish		

6.2 Public Template

• Supports users in creating universal templates at the power station level.

Spin Spin Sise alore Set of template Sise alore Set of template Set of template Set of template <t< th=""><th>≤₩赛唯</th><th></th><th></th><th></th><th></th><th>⊕ Eng</th><th>lish ~ 🗌 🌍 赛唯管理员 🗸</th></t<>	≤₩赛唯					⊕ Eng	lish ~ 🗌 🌍 赛唯管理员 🗸
Ste alam a fargy mange b fargy mange b fargy mange b farticit	Equipment mo	Center of template					
e fergy manage Ektricity prior template e fergy manage Please enter the content, such as template name, tabel Curry e fergy manage Please enter the content, such as template name, tabel Curry e fergy manage Fenglate name Label e fergy manage Fenglate name Fenglate name e fergy manage Fenglate name	Site alarm						
© Edetricit NEW Subsidial root • Edetricity report • Income statem Operation and maintenance • Income statem Operation and maintenance • More offerma	Energy manage	Electricity price template					
Statical report Image: Control intermine and maintenance Foundary Creation time Operation Income statem Examine Active binding Reference creation Edit Delete Income statem Image: Control intermine Active binding Reference creation Edit Delete Income statem Image: Control intermine Active binding Reference creation Edit Delete Image: Control intermine Active binding Reference creation Edit Delete Delete Image: Control intermine Active binding Reference creation Edit Delete Delete Image: Control Intermine Active binding Reference creation Edit Delete Delete Image: Control Intermine Active binding Reference creation Edit Delete Delete Image: Control Intermine Active binding Reference creation Edit Delete Delete Image: Control Intermine Active binding Reference creation Edit Delete Delete Image: Control Intermine Active binding Reference creation Edit Delete Delete Image: Control Intermine Active binding Reference creation Edit Delete Delete Image: Control Intermine Interm	Electricit NEW	Please enter the content,	such as template name, label	Query Reset			+ Create a template
Income statem Template name Label Founder Creation time Operation income statem income	Statistical report						
in come statem Operation and maintenance management in More order ma Work order ma Marm Control in Ammonitoring in Ammonitoring in Ammonitoring in Ammonitoring in Contre	Electricity report	Template name	Label	Founder	Creation time	Operation	
Operation and maintenance Delete management Examine Active binding Reference creation Edit Work order ma Examine Active binding Reference creation Edit Atam monitoring Examine Active binding Reference creation Edit Atam monitoring Examine Active binding Reference creation Edit CustomeNew Examine Active binding Reference creation Edit System management Examine Active binding Reference creation Edit Center of temp Examine Active binding Reference creation Edit System management Examine Active binding Reference creation Edit System manage Examine Active binding Reference creation Edit	Income statem	1000		10.00	100,000	Examine Active binding Referen	ce creation Edit
maragement Examine Active binding Reference creation Edit Work order ma Delete Arm Contrar Examine Active binding Reference creation Edit Marmonitoring Examine Active binding Reference creation Edit Organizational Maragement Delete Organizational Maragement Delete Organizational Maragement Delete Organizational Maragement Delete System maragement Delete System maragement Delete System maragement Delete	Operation and maintenance		-			Delete	
Work order ma Delete Atam Contair Examine Active binding Reference creation Edit Atam monitoring Delete Y Atam monitoring Examine Active binding Reference creation Edit Organizational Maragement Delete Organization Custom maragement Organization Delete Center of temp. Examine Active binding Reference creation Edit System management * Delete System management * Delete System management * Examine Active binding Reference creation Edit System management * Delete	management	THE REPORT		10 M	10 M H H H H	Examine Active binding Referen	ce creation Edit
Atama Canter Examine Active binding Reference creation Edit Af Amm monitoring Admm monitoring Reference creation Edit Organizational Management Delete Custome New Custom	Work order ma					Delete	
Alarm monitoring Delete Organizational Maragement Examine Active binding Reference creation Edit Custome, NeW Delete System maragement Examine Active binding Reference creation Edit Power station Delete Power station Delete Custome, NeW Delete System maragement Delete System maragement : Examine Active binding Reference creation Edit System maragement : Delete System maragement : Examine Active binding Reference creation Edit System maragement : Delete	Alarm Center	1 A M A		100		Examine Active binding Referen	ce creation Edit
Organizational Maragement Examine Active binding Reference creation Edit System maragement Delete Delete Edit Power station Delete Delete Creation of temp. Examine Active binding Reference creation Edit System maragement * Delete Examine Active binding Reference creation Edit System maragement * Delete Delete Edit Delete Edit	합 Alarm monitoring					Delete	
Custome NEW Delete System management Examine Active binding Reference creation Edit Power station Delete Center of temp Examine Active binding Reference creation Edit Center of temp Examine Active binding Reference creation Edit Center of temp Examine Active binding Reference creation Edit System manage Delete	Organizational Management	10000		- 10 M		Examine Active binding Referen	ce creation Edit
System management Examine Active binding Reference creation Edit Power station Delete Examine Active binding Reference creation Edit Center of temp. Examine Active binding Reference creation Edit EXacourt management * Delete Examine Active binding Reference creation Edit System manag System manag Examine Active binding Reference creation Edit	B Custome NEW					Delete	
Power station Delete Center of temp Examine Active binding Reference creation Edit Delete Examine Active binding Reference creation Edit System manag System compared Examine Active binding Reference creation	System management					Examine Active binding Referen	creation Edit
Center of temp Examine Active binding Reference creation Edit ⁽²⁾ Account management ** ⁽²⁾ ⁽²⁾ System manag ⁽²⁾ ⁽²	Power station					Delete	
(A) Account management * Delete System manag Examine Active binding Reference creation Edit Delete	E Center of temp			100	ALC: NOTE: N	Examine Active binding Referen	se creation Edit
& System manag Examine Active binding Reference creation Edit	图 Account management ~					Delete	
- Delete	System manag					Examine Active binding Referen	creation Edit
=Retract Evamine Active binding Reference creation Edit	=Retract					Examine Active binding Referen	ce creation Edit

6.3 Account Management

Role	Meaning	Operation permissions	Page permissions
Platform	The highest	Add, delete,	All pages of the platform



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Administrato r	administrator of the enterprise account, who has all platform permissions	modify, check	
Operation and Maintenance	Station operation and maintenance personnel, responsible for daily operation and maintenance of the power station	Add, delete, modify, check	All pages except account management and system management
Browse	Used for owners or investors to view daily station data	Check	Data screen, multi-station overview, power station overview, station system, statistical report (power/income)
Experience	User customer experience platform	Check	All pages except account management and system management
Demo	Used by enterprises to explain and demonstrate platform functions	Check	All pages of the platform
EnergyMana gement	Used by customers' third-party energy management companies	Add, delete, modify, check	Data screen, multi-station overview, power station overview, station system, electricity price management, statistical report (power/income)

The cloud platform has an account management feature that can be used to create, manage, and maintain user accounts on the platform.

• It supports administrators in creating, viewing, and managing accounts within their company.

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	Account managemer	nt						+ Add an account	
Statistical report									
Electricity report	State: All		User type: All	 ✓ Please € 	enter the content, si	uch as name, mobile phon	e, emai	Query Reset	
Income statem	Serial Number	Name	Email	Mobile phone	State	Role	Creation	Operation	
Operation and maintenance	1			14811			2024-10	Examine Edit Forbidden More	
management Ben Work order ma	2	100			Normal	Browse	2024-10	Examine Edit Forbidden More	
Alarm Center	3	100			Normal	Browse	2024-10	Examine Edit Forbidden More	
십arm monitoring	4				Normal	Browse	2024-10	Examine Edit Forbidden More	
Organizational Management	5	ж			Normal	Browse	2024-10	Examine Edit Forbidden More	
System management	6				Normal	Operation and m	2024-10	Examine Edit Forbidden More	
Power station	7				Normal	Browse	2024-10	Examine Edit Forbidden More	
E Center of temp	8				Normal	Browse	2024-10	Examine Edit Forbidden More	
四 Account management ^	9				Normal	Browse	2024-10	Examine Edit Forbidden More	
Inner count	10	10			Normal	Demo	2024-10	Examine Edit Forbidden More	
System manag	total 107					< 1 2	3 4 5	6 11 > Go to 1	
≡Retract									



• Click on "Add Account" to bring up the corresponding popup window, where you can perform account creation operations. It supports setting up email and mobile accounts, as well as configuring passwords and account roles.

dd an account	
Basic information Site assignment	Alarm configuration
Name	* Belong customer
0/50	Select ~
ill in at least one item of email and mobil	e phone as the login account *
ogin email	Mobile phone
Password	
Customer user type	* Role
Select ~	Select ~
Naturity type	



It supports assigning managed power stations to accounts.

Add an account			×	
Basic information	Site assignment	Alarm configuration		
Select the site name	you want to assign			
All sites	All sites (including	future additions)		
			π	

6.4 System Management

The cloud platform has system management capabilities that can be used to add, assign, and manage the EMS (Energy Management System).

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 Energy manage Electricit NEW 	System overview				± Bulk add + Addition system
Statistical report	If a large number of systems need to	be added, click the Batch Add b	button. (For batch additio	n, please download the l	Excel template first, fill it out and then upload and submit it)
Electricity report					
Income statem	All V Please enter cont	ent, such as EMS number, attrib	ution, system number,	Query Reset	
Operation and maintenance					Batch operation
management		-			
Work order ma	Serial Number System number	System name	EMS number	ICCID	Attı Operation
Alarm Center	1		UD02010051DCK	-	Pov Examine Modification Systematic withdrawal
☆ Alarm monitoring	2		UD02010051DCK	-	Pol Examine Modification Systematic withdrawal
Organizational Management	3		UD02010051DCK		Pov Examine Modification Systematic withdrawal
System management	4		UD02010051DCK		Pos Examine Modification Systematic withdrawal
Power station	5		UD02010051EAG	89861124201044	No Examine Modification Delete System-assigned
E Center of temp	6	-	UD02010051EAG	89861124201044	No Examine Modification Delete System-assigned
Account management ^	7		UD02010051EAG	89861124201044	No Examine Modification Delete System-assigned
Inner count	8	-	UD02010051EAG	89861124201044	No Examine Modification Delete System-assigned
custormer count	9	-	UD02010051EAG	89861124201044	No Examine Modification Delete System-assigned
■Retract	10		UD02010051EAG	89861124201044	No Examine Modification Delete System-assigned

• Click on "Add System" to bring up the corresponding popup window, where you can enter basic information (system number and EMS provided by our company) and specification parameters. After completing the information, click "OK" to add the system.



Addition system

`	J	r	
1		~	

System number	System name					
Please enter the system number	Custom system number name 0/50					
EMS number *						
Please enter the EMS number						
Specification parameter						
Rated power(kW) *	Rated capacity(kWh) *					
Please enter the rated power	Please enter the rated capacity					
Please enter the rated power Type of cooling	Please enter the rated capacity Nominal voltage(V)					
Please enter the rated power Type of cooling Please select a type of cooling	Please enter the rated capacity Nominal voltage(V) Please enter the nominal voltage					
Please enter the rated power Type of cooling Please select a type of cooling Weight(kg)	Please enter the rated capacity Nominal voltage(V) Please enter the nominal voltage Size(mm)					

• It supports users to download an Excel template, fill it out, and perform bulk addition operations.



 \times

Bulk add

Once the file is uploaded, click the Submit button to complete t he import Click to upload / Drag to this area Please upload the Excel file, the file size is less than 1 MB Cancel Confirm

• Click on "System Allocation" in the system list operations to allocate the system to the already created power stations.

								→ I		
9	UD02010051EAG0025	-	UD02010051EAG	89861124201044	No	Examine	Modification	Delete	System-assigned	



7. Data Screen

The EMS cloud platform supports a data center screen monitoring feature. During account login, the screen will continuously display and refresh data in real time.

• Click on the "Cloud Platform - Dashboard Monitoring" entry button to open the dashboard monitoring on a new page, which will provide a unified display of the real-time data resource status for all stations. As shown in the image below:





Frequently Asked Questions (FAQs)

If you encounter any issues while using the product, you can refer to this document.

<To be continued.>

To be continued.

Other Considerations

• The supplier has the right to modify the specification document without notifying the buyer.

• Any unresolved matters shall be discussed and decided by both the supplier and the buyer.

• The supplier shall not be liable for any losses incurred due to operations not conducted in accordance with the specification document.

ZHEJIANG SV DIGITAL POWER TECHNOLOGIES CO. LTD.



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