

Specification

**Customer New Energy Management Platform Operation Guide
V1.0**

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Modify Records

File Number	Ver.	Drafter/Modifier	Date of Drafting/Modification	Reason for Change	Main Changes
	V1.0	<u>Zhou GuiNan</u>	2024/08/12	/	/
Note 1: This form needs to be filled out every time the archive file is changed					
Note 2: When drafting the document for the first time, fill in "none" for "reason for change" and "main change content".					

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一、 Introduction

1.1 Writing Purpose

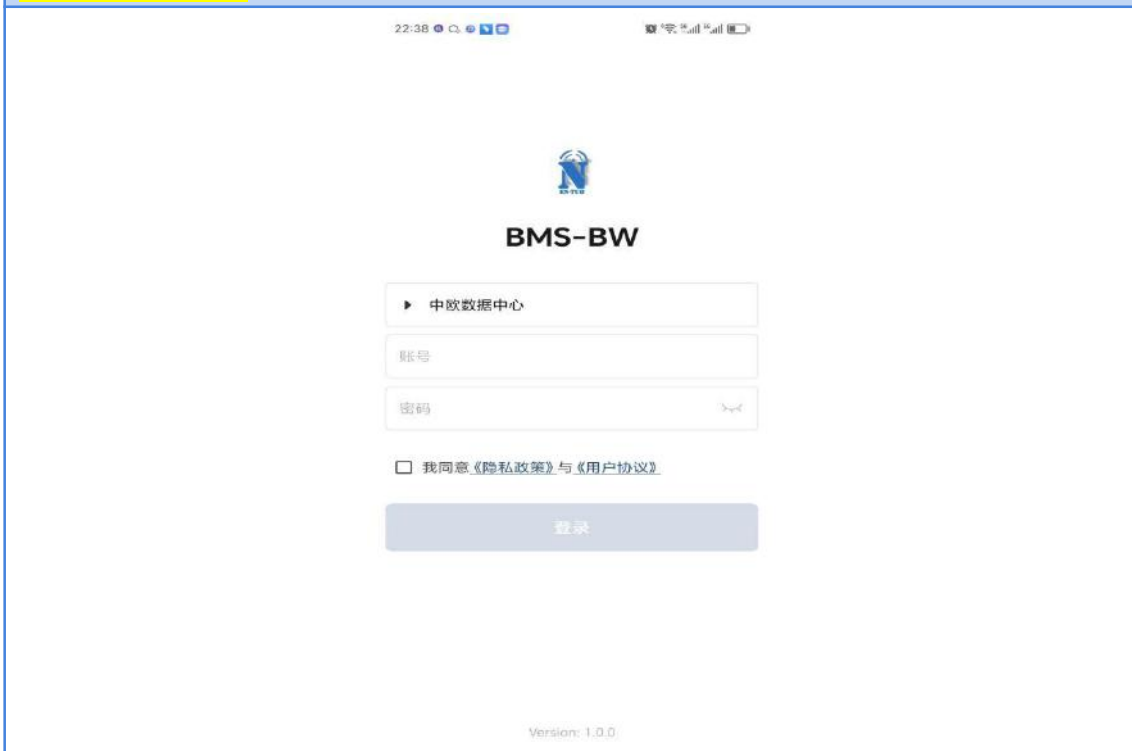
To accelerate users' understanding of our EMS platform, we will now showcase and elaborate on the various functions of the platform.

二、EMS New Energy Management Platform Mobile Terminal（BMS-BW）

Our EMS new energy management platform needs to be used together with our Business APP "BMS-BW".

2.1 User Login

1) Double click the APP icon, open the APP, select the corresponding data center according to the actual situation, register and enter the account and password, and then click "Login", as shown in the following figure.



The screenshot shows the BMS-BW mobile application interface. At the top, the status bar displays the time 22:38 and various system icons. The app's logo, a stylized 'N' with a globe, is centered above the text 'BMS-BW'. Below the logo is a dropdown menu currently set to '中欧数据中心' (Central Europe Data Center). Underneath are input fields for '账号' (Account) and '密码' (Password), with a toggle for password visibility. A checkbox labeled '我同意《隐私政策》与《用户协议》' (I agree to the Privacy Policy and User Agreement) is positioned above a large blue '登录' (Login) button. The version number 'Version: 1.0.0' is visible at the bottom of the screen.

2.2 Instructions

- 1) Power station management;
- 2) Details of the power station;
- 3) Add devices;
- 4) Equipment details;

- 5) Parameter settings - wall mounted;
- 6) Parameter settings - Stacking;

1) Enter the main page, click on Power Station Management, create a new power station, and fill in the power station information according to the actual situation. This step can also be used to establish a power station through the new energy management platform.



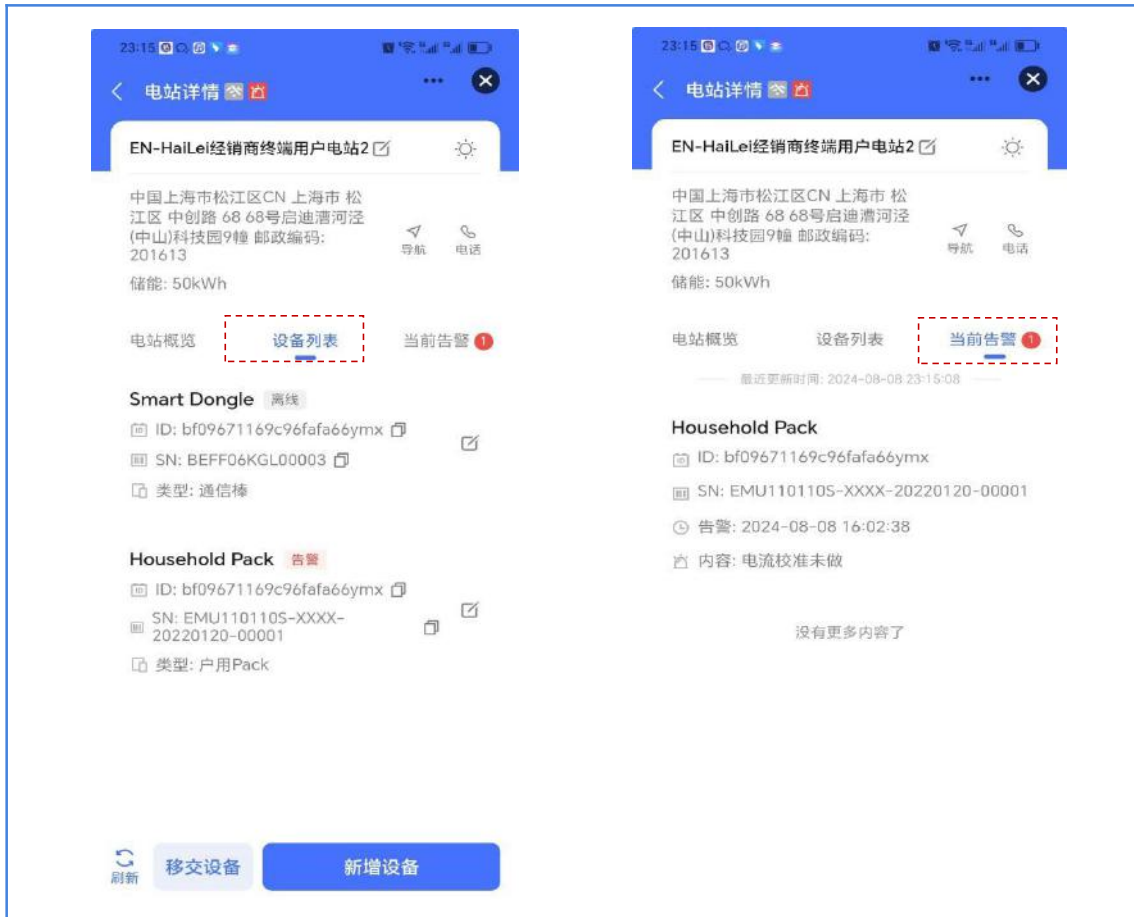
2) After the successful construction of the power station, users can return to the main interface, click on the power station management, and enter the constructed power station.



3) Add device, click on the device list, add device. If the current device is in network configuration, you can turn on your phone's Bluetooth to add the device. After the device is successfully added, click Finish.



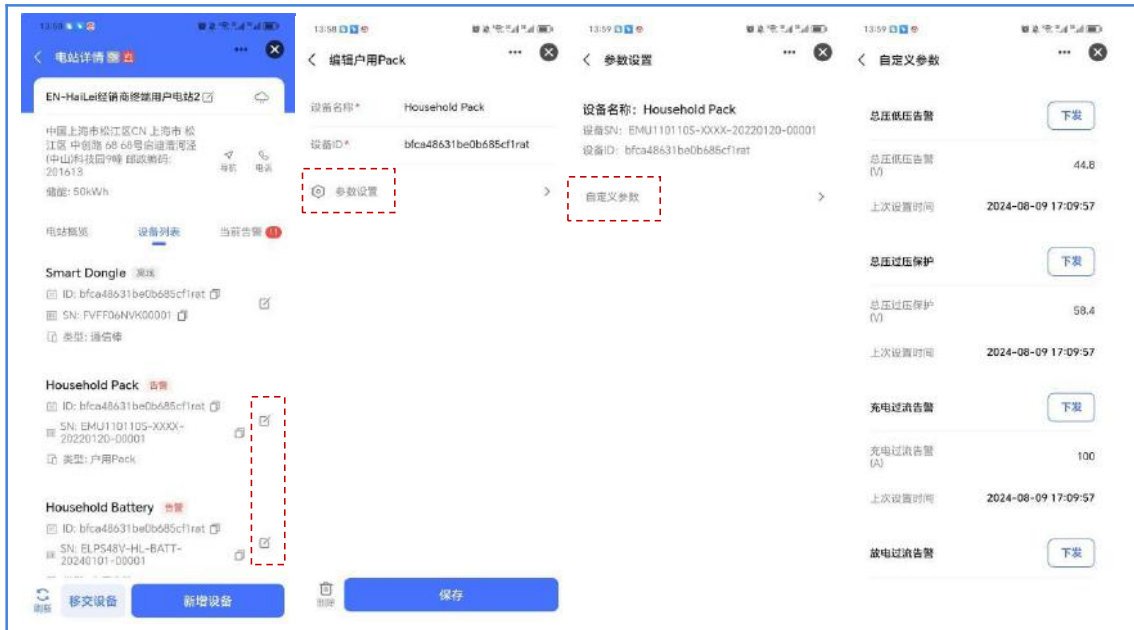
4) Equipment details: After successfully adding the equipment, users can return to the power station management page, enter the built power station, and check the equipment status.



5) Single packwall mounted Pack, click on parameter settings to view and edit the issued data. There are many specific data reflected in the new energy management platform, which will not be further described here.



6) Unlike wall mounted, stacked packs have fewer data that can be viewed and edited for distribution. By clicking on parameter settings, only 5 types of data can be distributed: total voltage low voltage alarm, total voltage overvoltage protection, charging overcurrent alarm, discharging overcurrent alarm, and compensation point 2 position.



三、EMS New Energy Management Platform Web Terminal (Central Europe)

3.1 Platform Login

1) Click on the description in the link below, enter your account and password, and enter the new energy management platform.

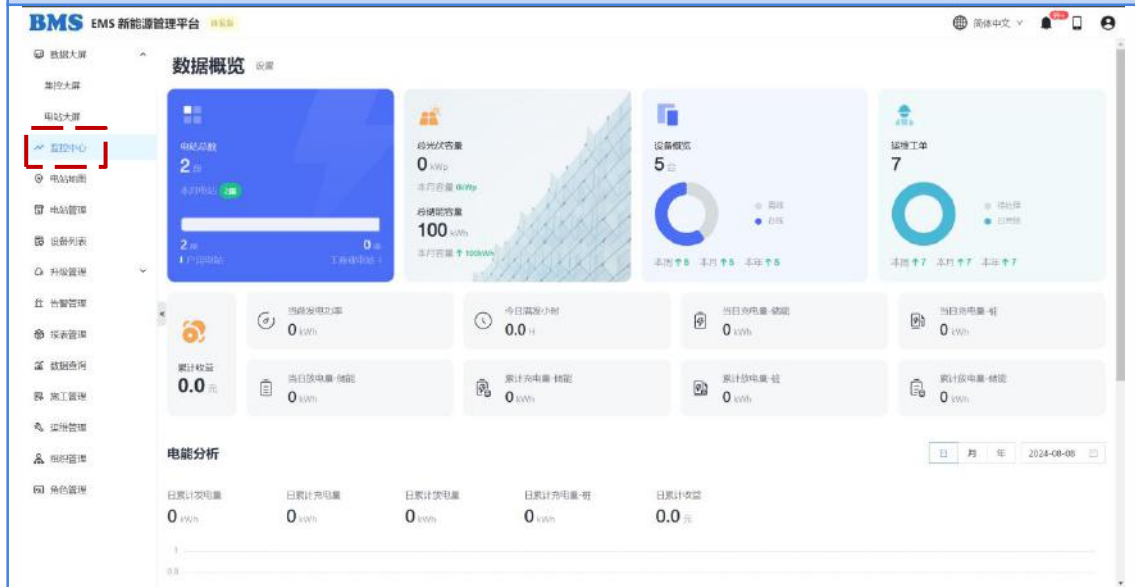
<https://p1721643197423dp5chm.eu.saas4iot.com/apps/1815329300665073757>



3.2 Instructions

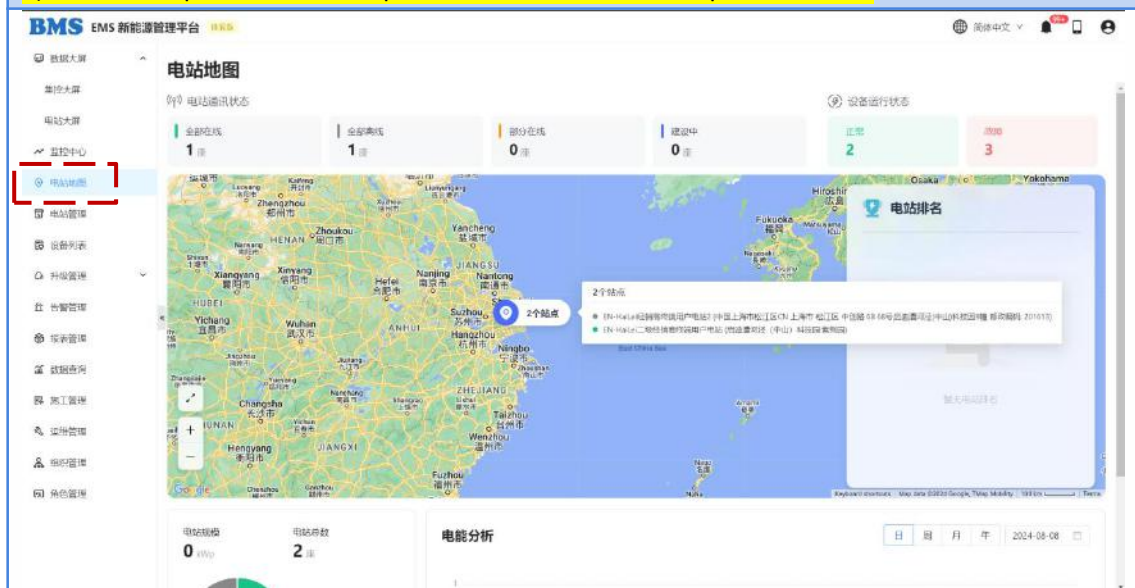
3.2.1 Monitoring Center

1) Click on the monitoring center to browse the main page.



3.2.2 Power Station Map

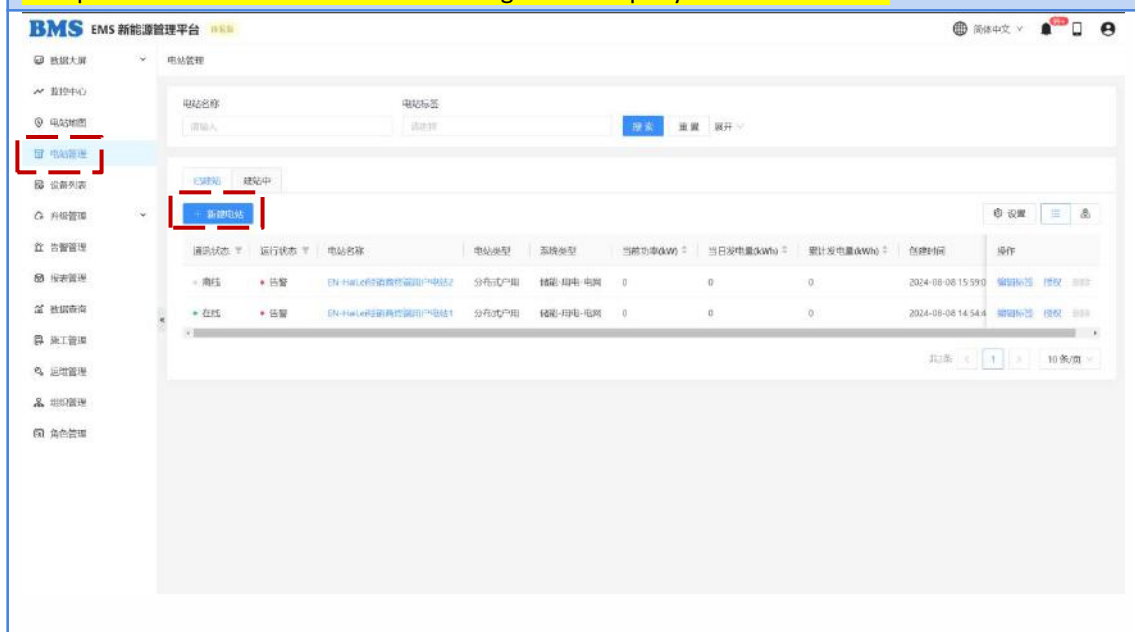
1) Click on the power station map to view the location of the power station.



3.2.3 Power Station Management

- 1) New power station construction;
- 2) Power station authorization;
- 3) Overview of the power station;
- 4) Equipment status;
- 5) Power station configuration;
- 6) Alarm protection;

1) Click on Power Station Management, create a new power station, and fill in the pop-up dialog box according to the actual situation. The person in charge of the power station can click the authorization button to hand it over to others. It should be noted that when a device is added to the power station, if you want to delete the currently constructed power station, you must first delete the associated device before deleting the power station. In addition, the step of creating a new power station can also be done through our company's APP "BMS-BW".



× 新建电站

取消 确定

× 新建电站

取消 确定

* 电站名称

请输入

* 所在地区

请选择

* 详细地址

请选择

* 电站时区

请选择

电站标签(最多3个)

请选择

* 电站类型

请选择

* 系统类型

请选择

* 建站日期

请选择日期

请选择

请选择

* 建站日期

请选择日期

业主信息

请输入

业主联系电话

请输入

* 电站负责人

请选择

备注

请输入

电站图片

上传图片

支持jpg, png格式, 大小限制在20M以内

BMS EMS 新能源管理平台

简体中文

电站管理

电站名称

电站标签

搜索

重置

展开

已建站

+ 新建电站

通讯状态

离线

在线

故障

报警

施工管理

运维管理

组织管理

角色管理

电站授权

* 电站负责人

Hailei一级经销商测试2

取消 确定

当前功率(kW)

操作

0

编辑标签

授权

删除

0

编辑标签

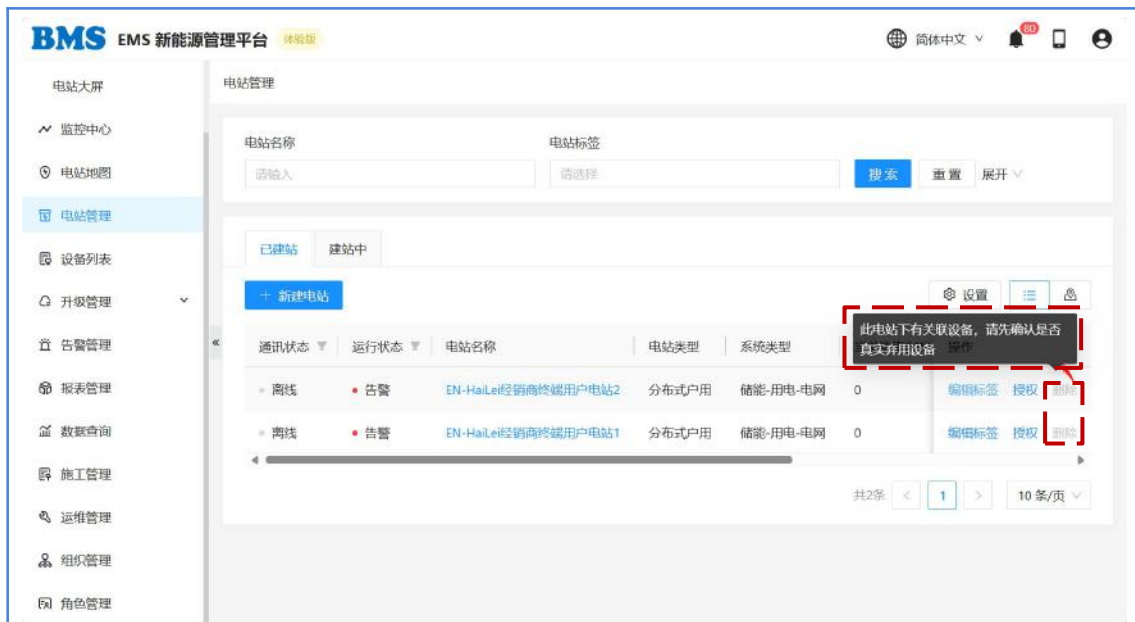
授权

删除

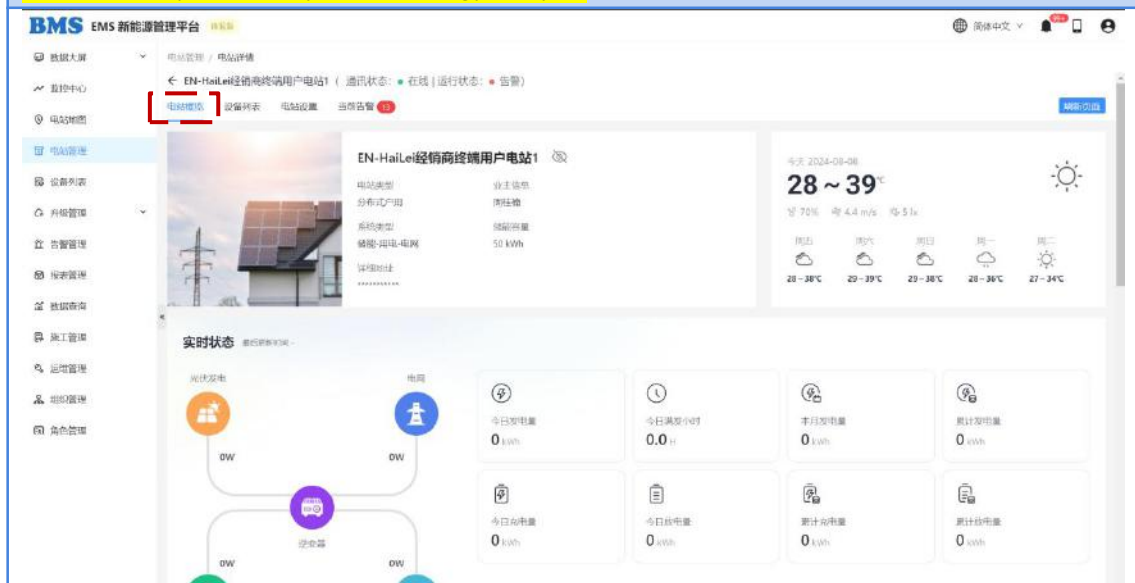
共2页

< 1 >

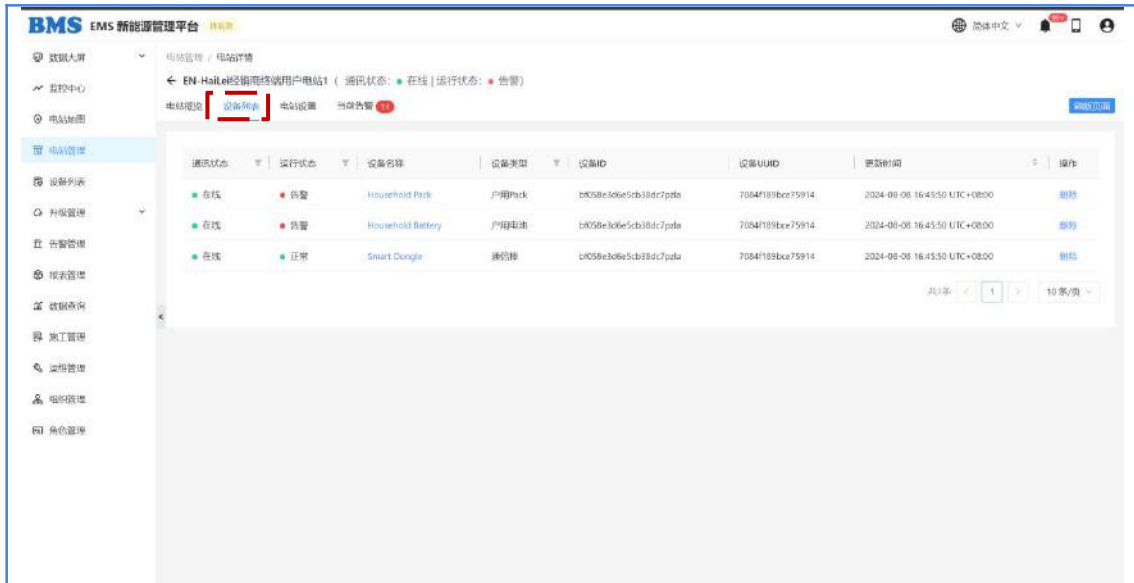
10条/页



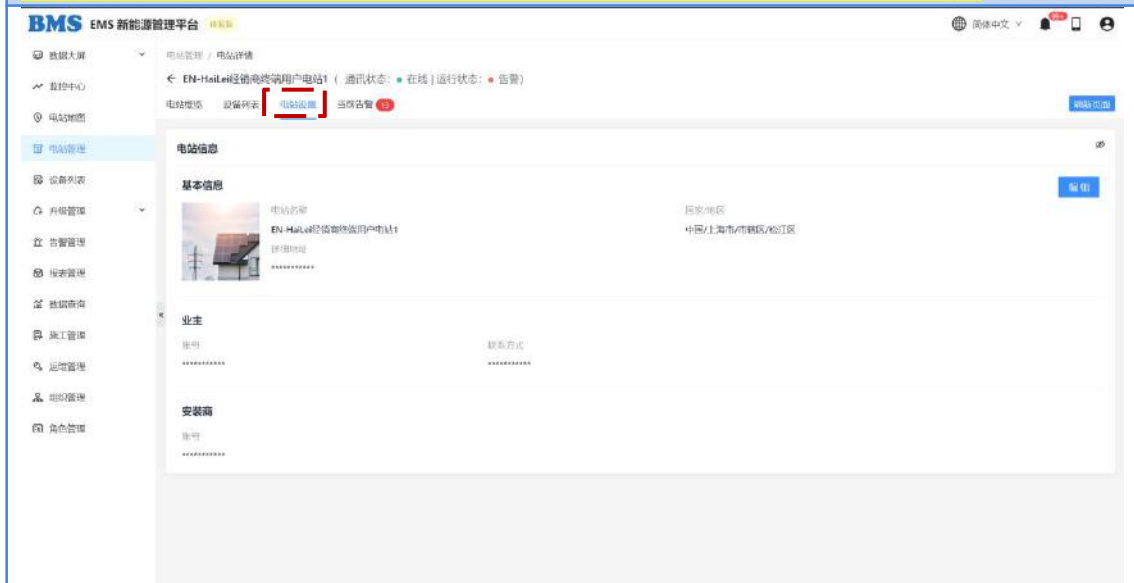
2) In the overview of the power station, you can see the type of power station, owner information, weather, temperature, real-time status of the power station, carbon neutrality contribution, power analysis, and energy analysis.



3) In the device list, you can view the working status, name, type, and other information of the device.



4) In the power station settings, basic information of the power station is displayed, and you can also click on the right side to edit and modify the power station information yourself.

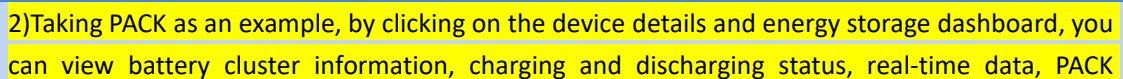


5) The current alarm displays the malfunction of the device and provides detailed basic information about the device. For the alarm that occurs, the operation column also provides a



- 1) Equipment list;
- 2) Battery information;
- 3) Aerial upgrade;
- 4) Parameter settings;
- 5) Alarm protection;

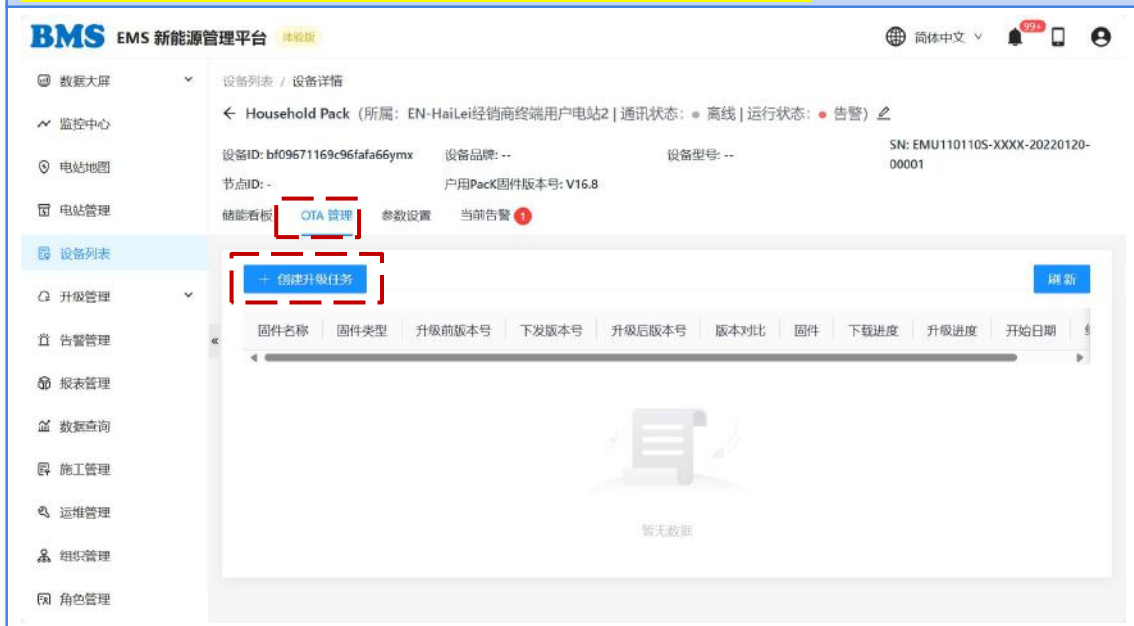
1)Click on the device list to briefly display the current device operating status. Click on details to view the detailed information of the current device, including energy storage dashboard, OTA management, parameter settings, and current alarms.

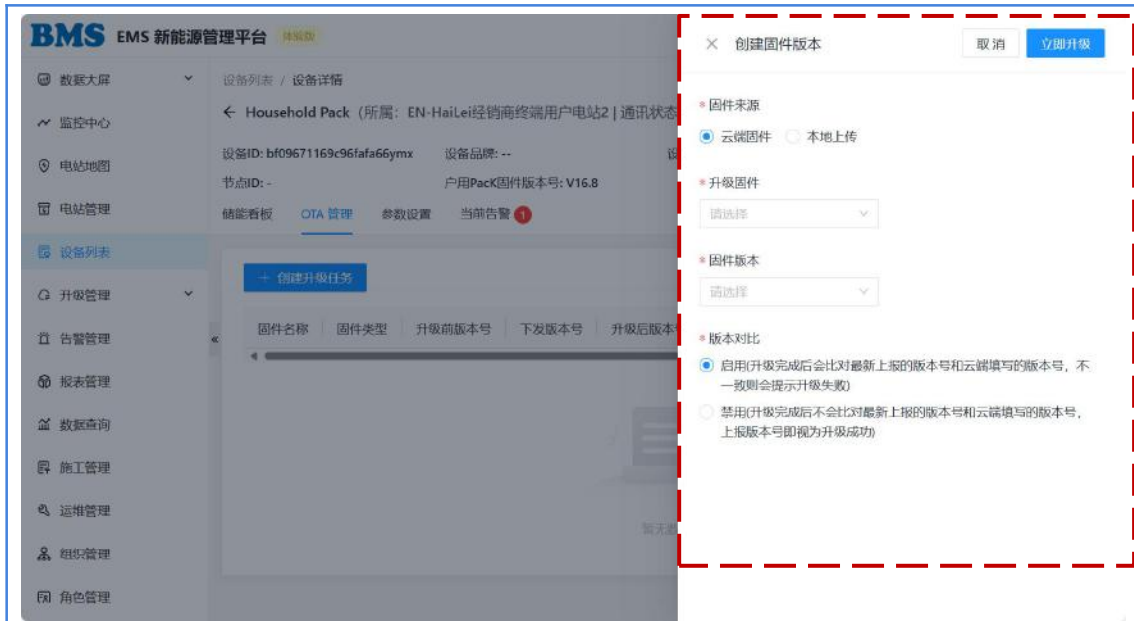


charging and discharging capacity, individual battery status, cycle times, and other information.



3) Taking PACK as an example, by clicking on OTA management, you can view the current firmware version, type, version number, and other information. You can also click on this page to create an upgrade task and perform firmware upgrade. There are two ways to upgrade firmware: one is cloud firmware upgrade, and the other is local upload upgrade.

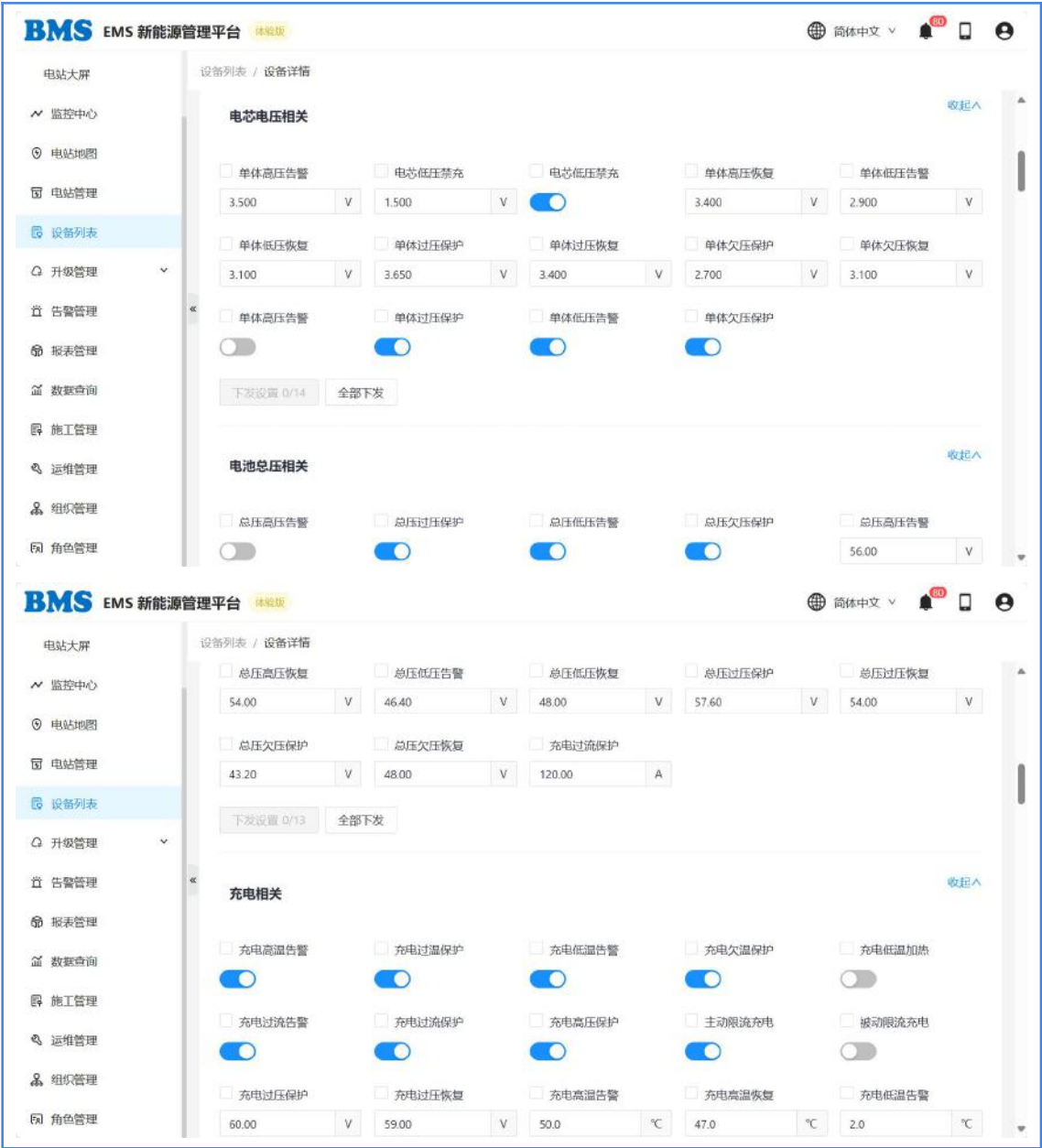


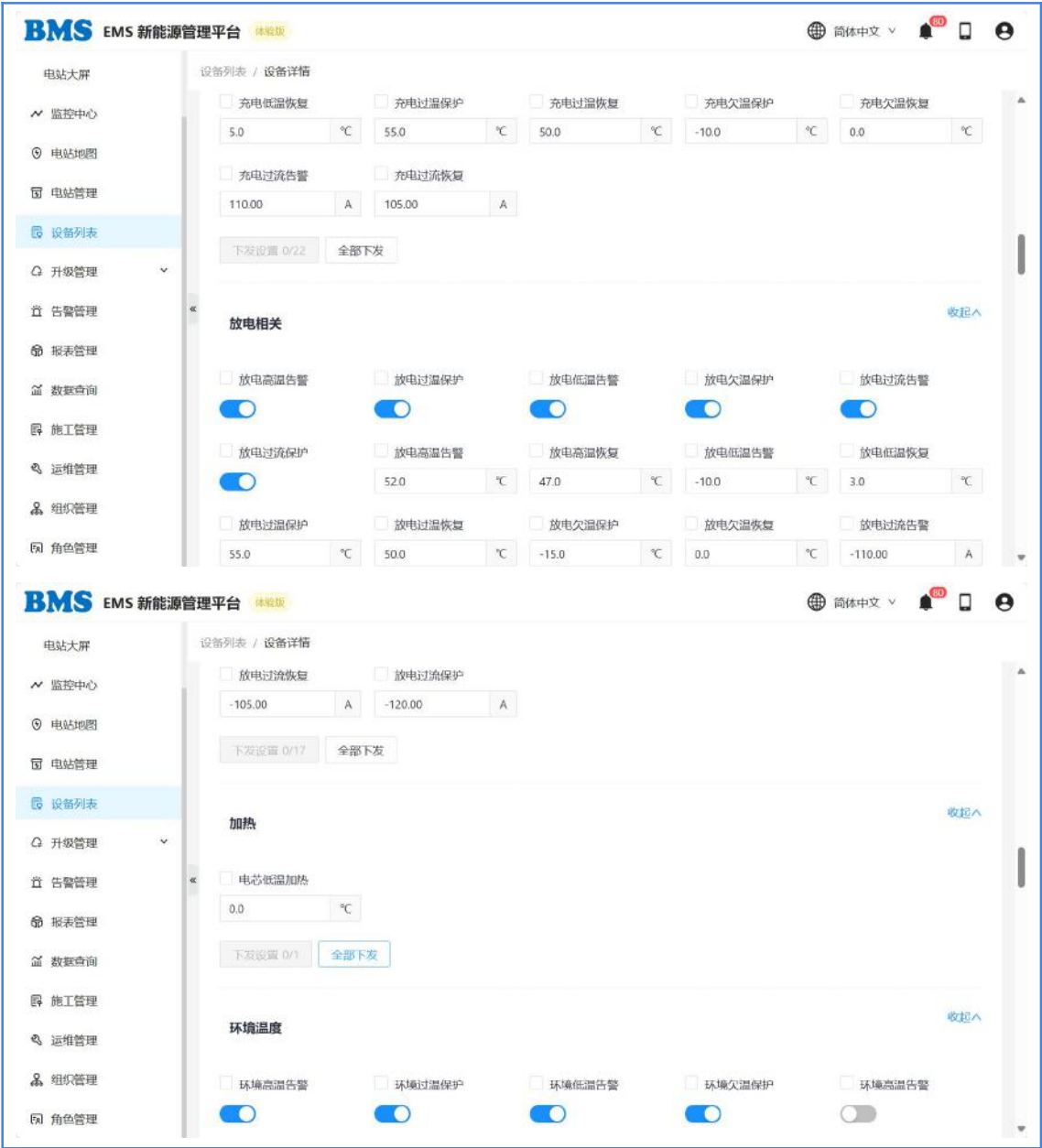


4) In the parameter settings, the data that can be issued for wall hanging and stacking are different. Wall hanging has comprehensive data, while stacking can only issue five types of data. The parameter display here is consistent with the "BMS-BW" display on the Business APP above.

壁挂参数设置:







BMS EMS 新能源管理平台 体验版

简体中文

80

电站大屏

监控中心

电站地图

电站管理

设备列表

升级管理

告警管理

报表管理

数据查询

施工管理

运维管理

组织管理

角色管理

设备列表 / 设备详情

☐ 环境温度告警

50.0℃

☐ 环境温度恢复

47.0℃

☐ 环境低温告警

0.0℃

☐ 环境低温恢复

3.0℃

☐ 环境过温保护

60.0℃

☐ 环境过温恢复

55.0℃

☐ 环境欠温保护

-10.0℃

☐ 环境欠温恢复

0.0℃

下发设置 0/13

全部下发

功率温度

☐ 功率过温保护

☒

☐ 功率高温告警

☒

☐ 功率高温告警

90.0℃

☐ 功率高温恢复

85.0℃

☐ 功率过温保护

100.0℃

☐ 功率过温恢复

85.0℃

下发设置 0/6

全部下发

过流

☐ 瞬态过流保护

-180.00A

下发设置 0/1

全部下发

均衡

☐ 充电均衡功能

☒

☐ 静态均衡功能

☒

☐ 超时禁止均衡

☒

☐ 过温禁止均衡

☒

☐ 均衡开启压差

0.030V

☐ 均衡结束压差

0.020V

☐ 静态均衡时间

10h

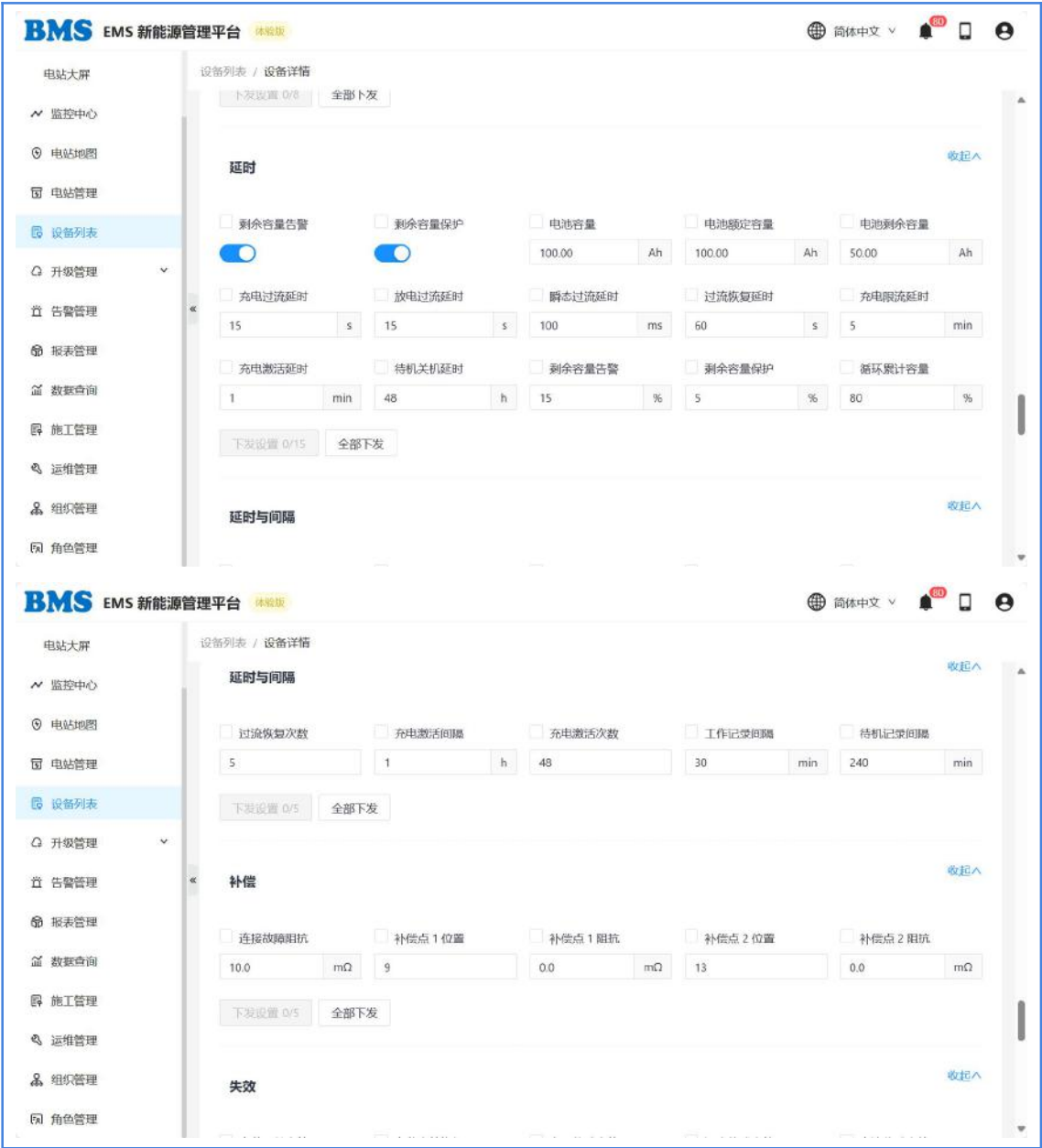
☐ 均衡开启电压

3.400V

下发设置 0/8

全部下发

17



The screenshot displays the BMS EMS New Energy Management Platform interface. The left sidebar contains navigation options: 电站大屏, 监控中心, 电站地图, 电站管理, 设备列表 (selected), 升级管理, 告警管理, 报表管理, 数据查询, 施工管理, 运维管理, 组织管理, and 角色管理. The main content area is titled '设备列表 / 设备详情' and shows settings for a specific device.

失效 (Failure) Section:

- ☐ 电芯压差失效: 0.60 V
- ☐ 电芯失效恢复: 0.40 V
- ☐ 电压传感失效: ☒
- ☐ 温度传感失效: ☒
- ☐ 电流传感失效: ☒
- ☒ 按键开关失效
- ☒ 电芯压差失效
- ☒ 充电开关失效
- ☒ 放电开关失效
- ☒ 限流开关失效

Buttons: 下发设置 0/10, 全部下发

输出 (Output) Section:

- ☒ 输出短路保护
- ☒ 输出短路锁定
- ☐ 输出反接保护
- ☐ 输出连接故障
- ☐ 输出软启动功能
- ☐ 输出软启动延时: 2000 ms

Buttons: 收起

激活 (Activation) Section:

- ☐ 自动激活充电: ☐
- ☒ 手动激活充电: ☒

Buttons: 下发设置 0/2, 全部下发

开关机 (Power On/Off) Section:

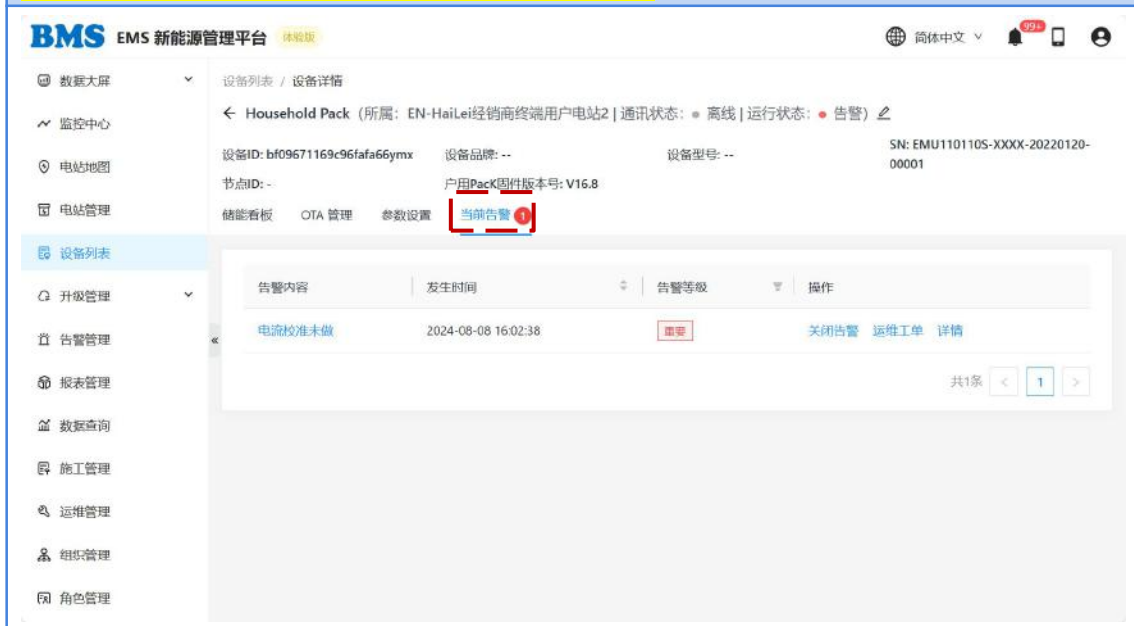
- ☐ 开关机功能: ☐
- ☒ 待机关机功能: ☒

Buttons: 下发设置 0/2, 全部下发

Stacking parameter settings:

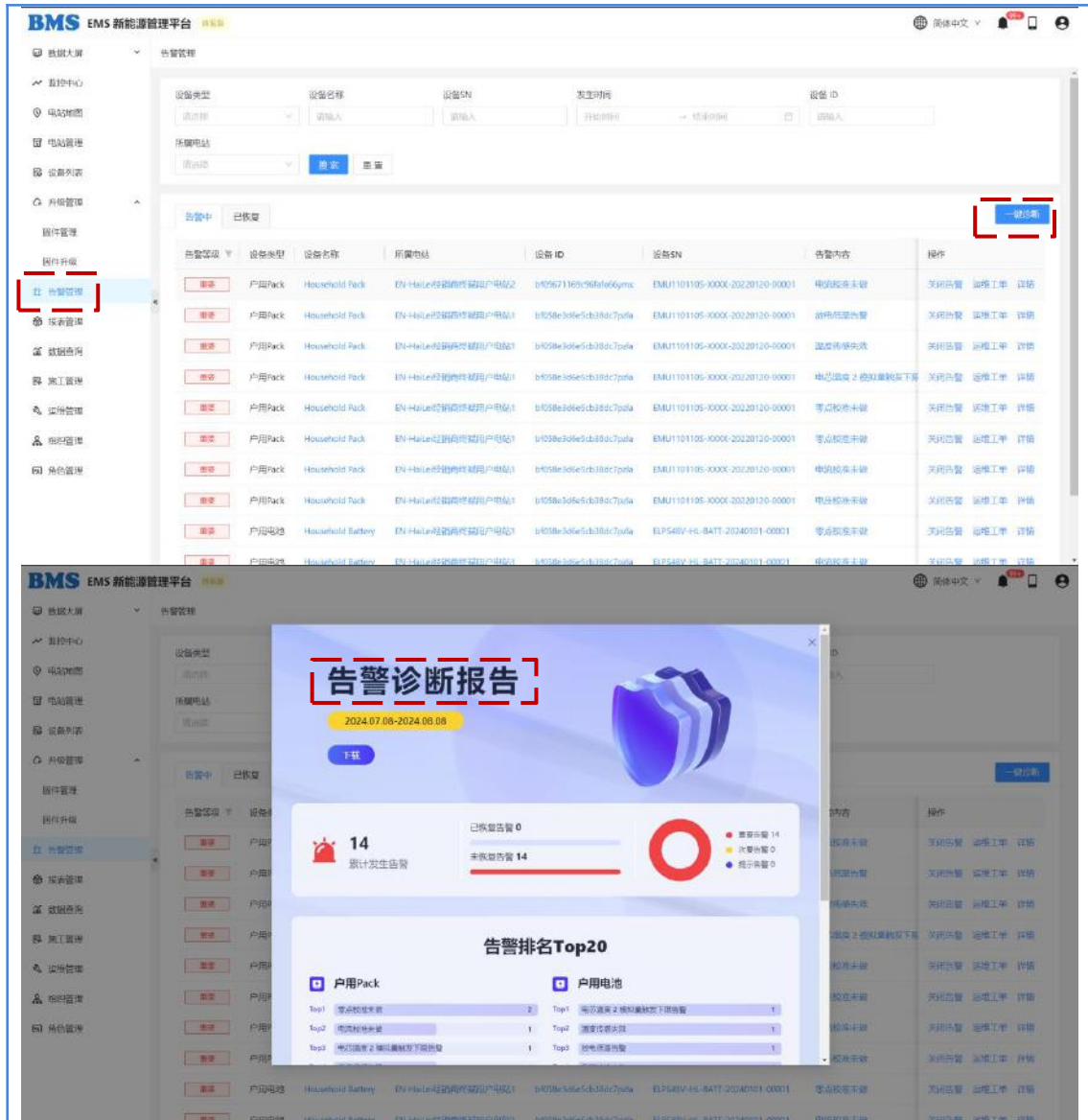


5) Taking PACK as an example, when clicking on the current alarm, the alarm content, occurrence time, alarm level, and operation column also provide solutions, which can be manually closed or a maintenance work order can be established for repair.



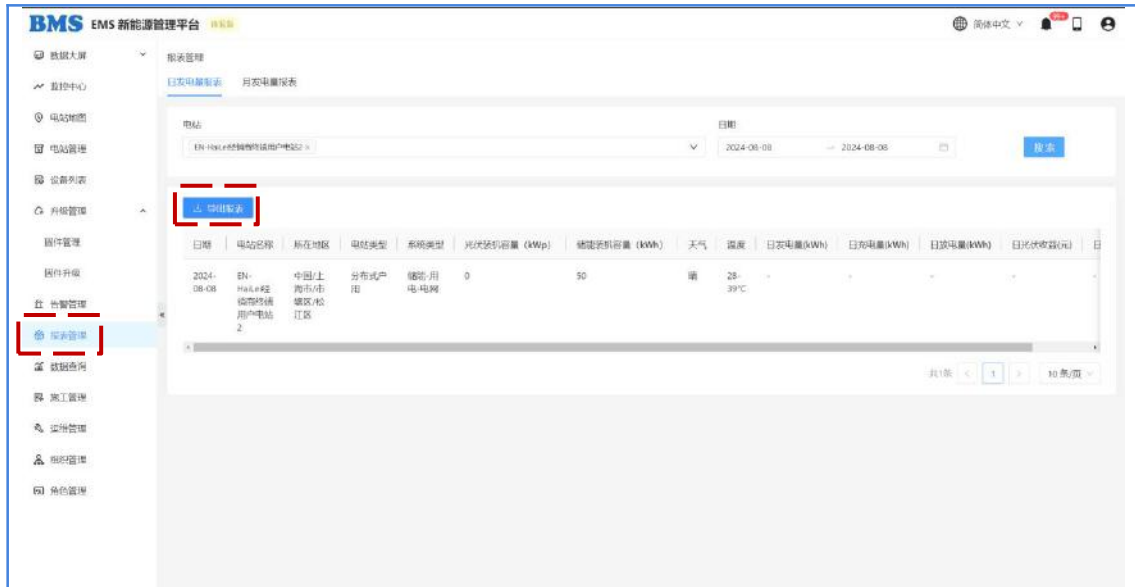
3.2.5 Alarm Management

1) Click on Alarm Management, and a device alarm item will appear with detailed alarm content. The operation column also provides a solution, which can be manually closed or a maintenance work order can be created for repair. Click on one click diagnosis, and an alarm diagnosis report can also be issued.



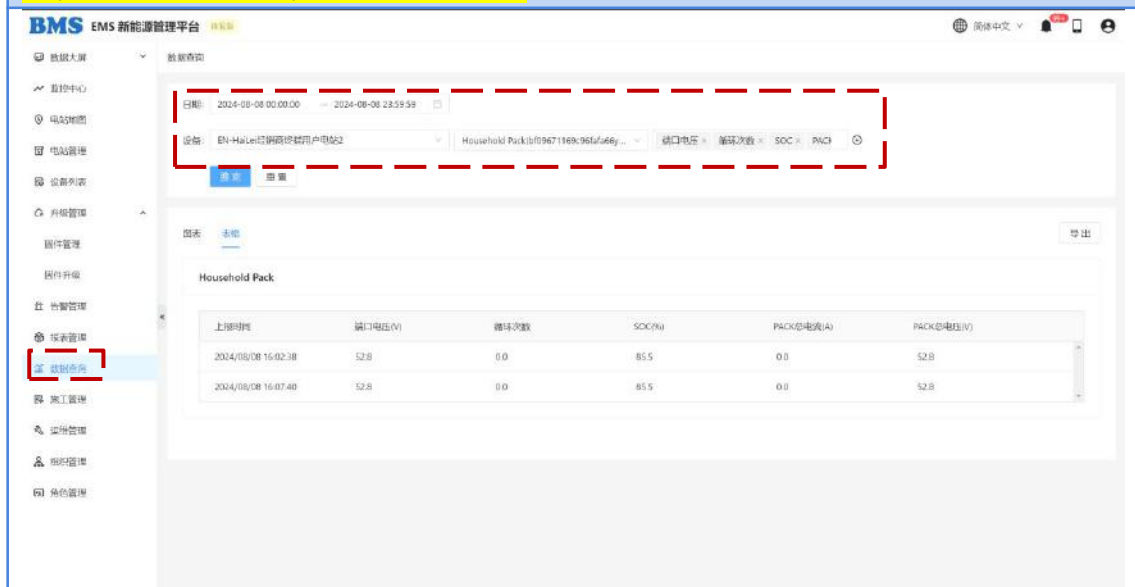
3.2.6 Report Management

1) Click on Report Management to display basic information of the power station, and users can also export reports according to their needs.



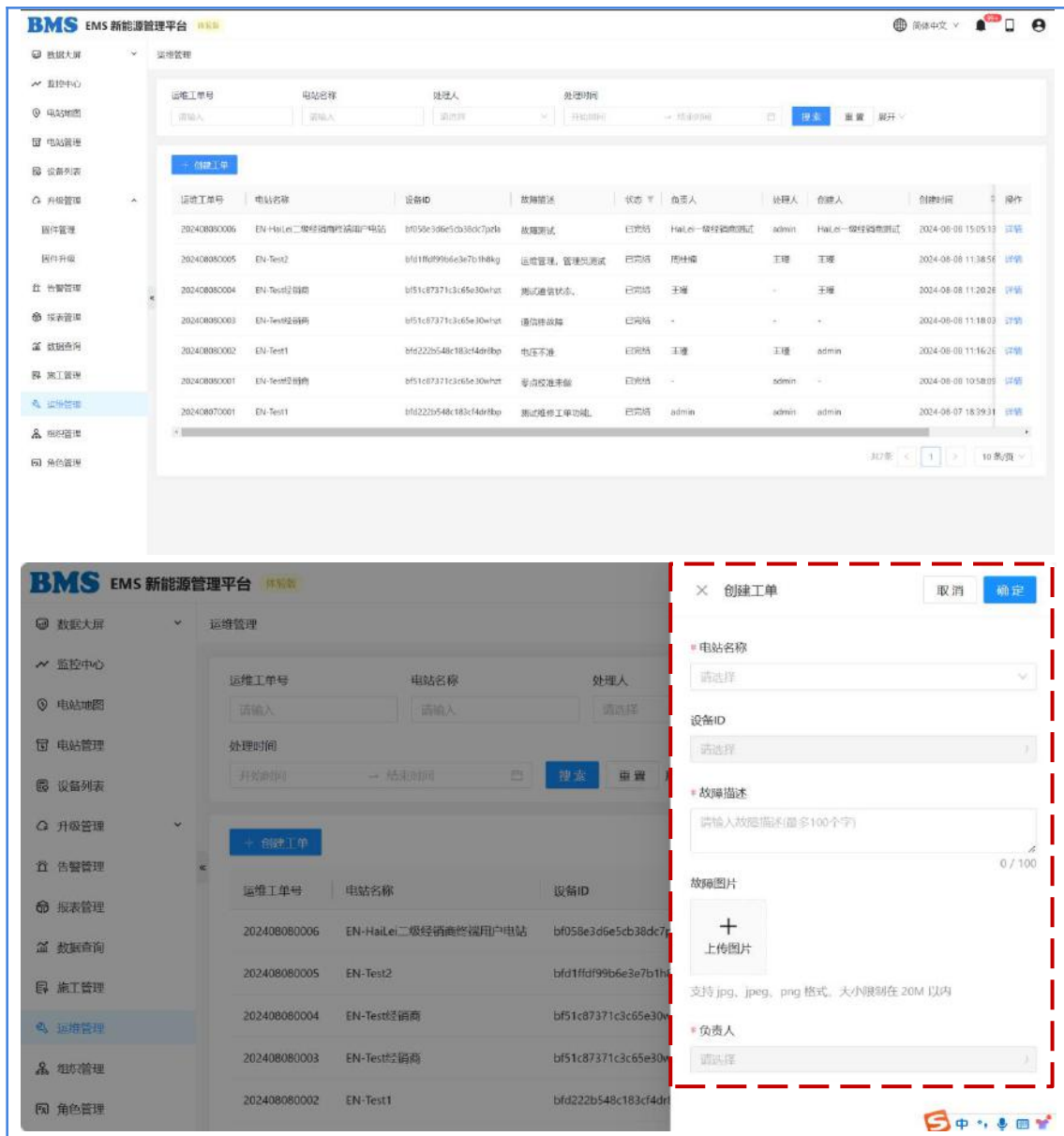
3.2.7 Data Query

1) Click on data query, and search for date, device information, etc. The information retrieved can be presented in two ways: charts and tables.



3.2.8 Operations Management

1) Click on Operations Management to view and create work orders.

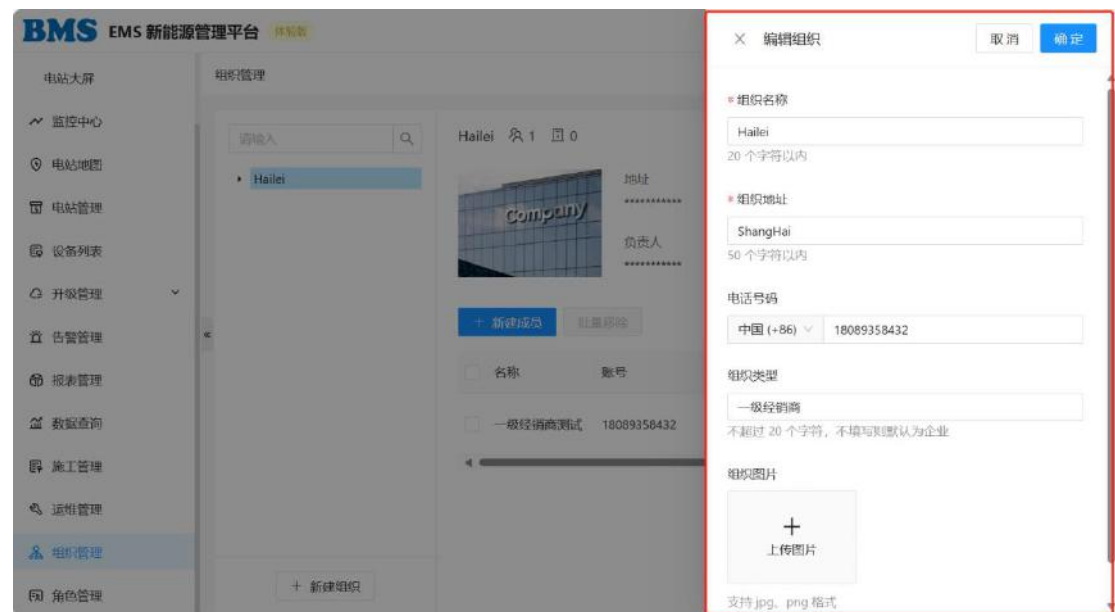
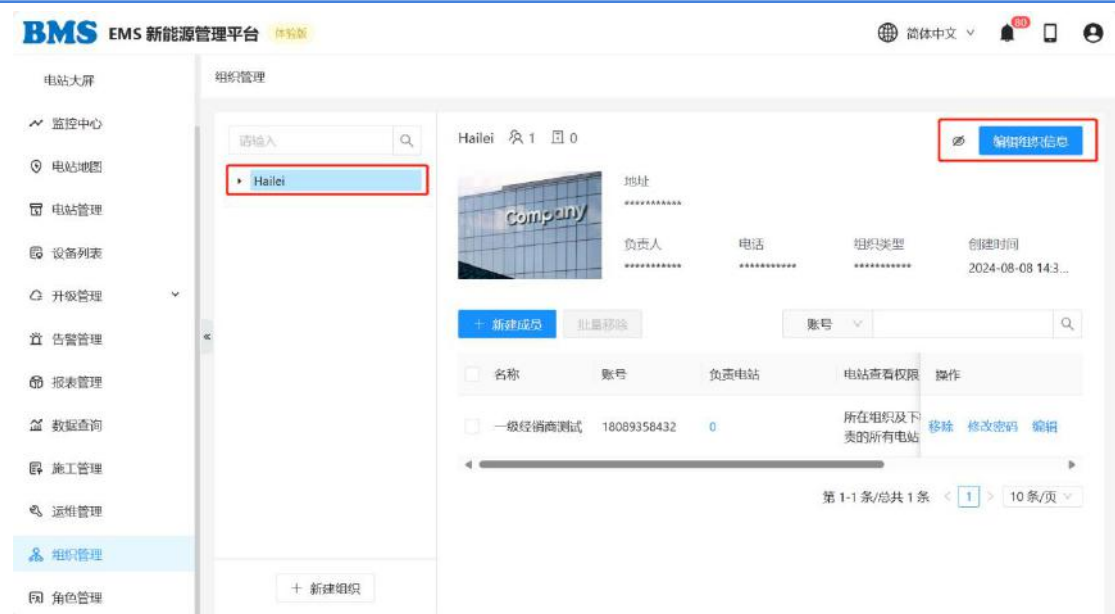


3.2.9 Organizational Management (Business)

- 1) Edit organizational information;
- 2) Create sub organizations;
- 3) Edit the organizational information of primary distributors;
- 4) Create new first level dealer user members;
- 5) Function description of secondary dealers;
- 6) Interface description of the secondary dealer platform;

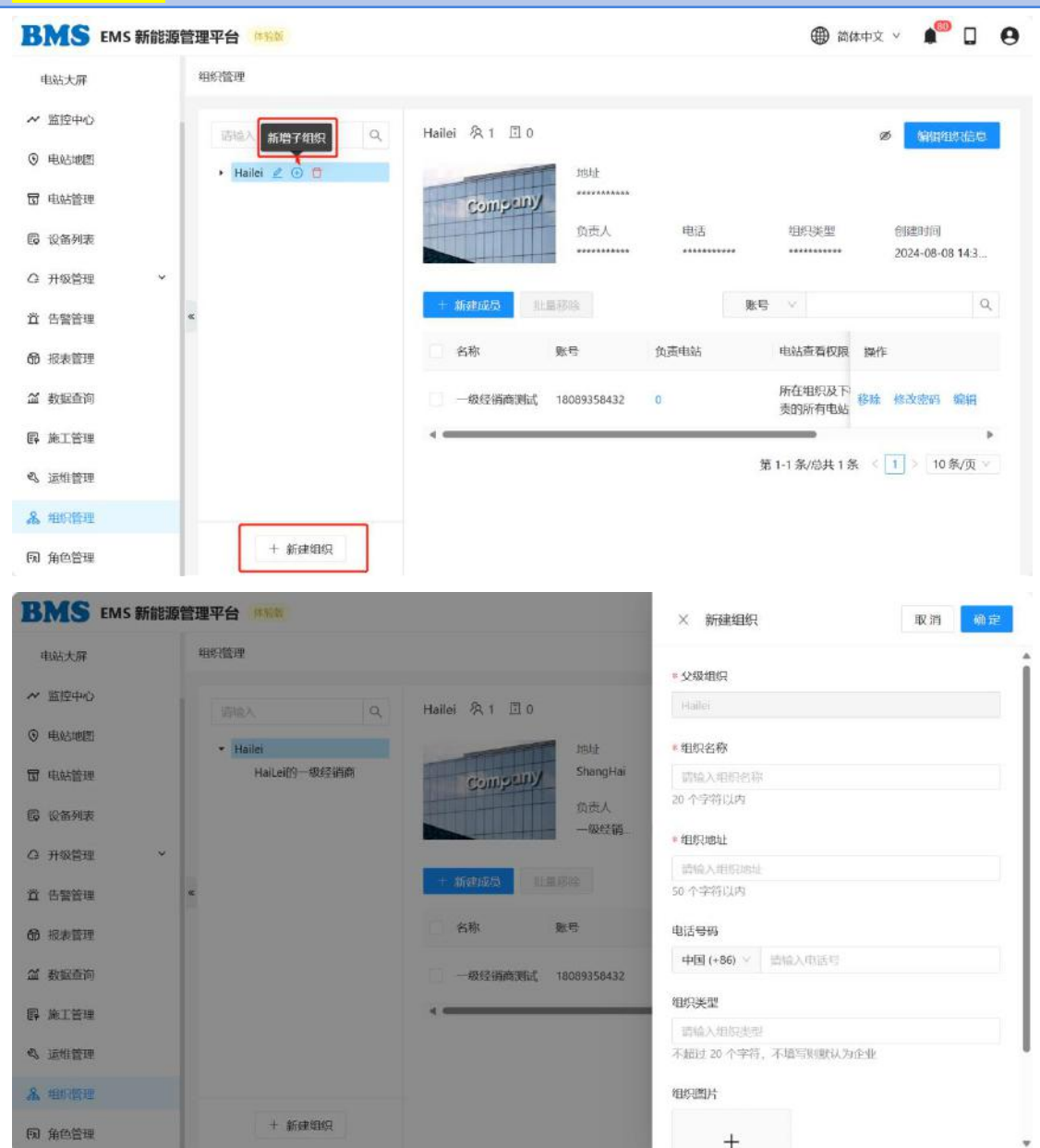
Before creating an organization, users should first click on role management to create roles, in order to assign roles and grant permissions to members of the organization.

1) Entering the organization management interface, without creating a sub organization, there is currently only one organization for our client. At this point, you can click on the right side to edit the organization information and improve it. It is worth noting that this platform was established by our company. By default, our company is a super administrator and also the largest parent organization. For our customers, they are all members of our lower level organization, which can also be referred to as first level distributors.

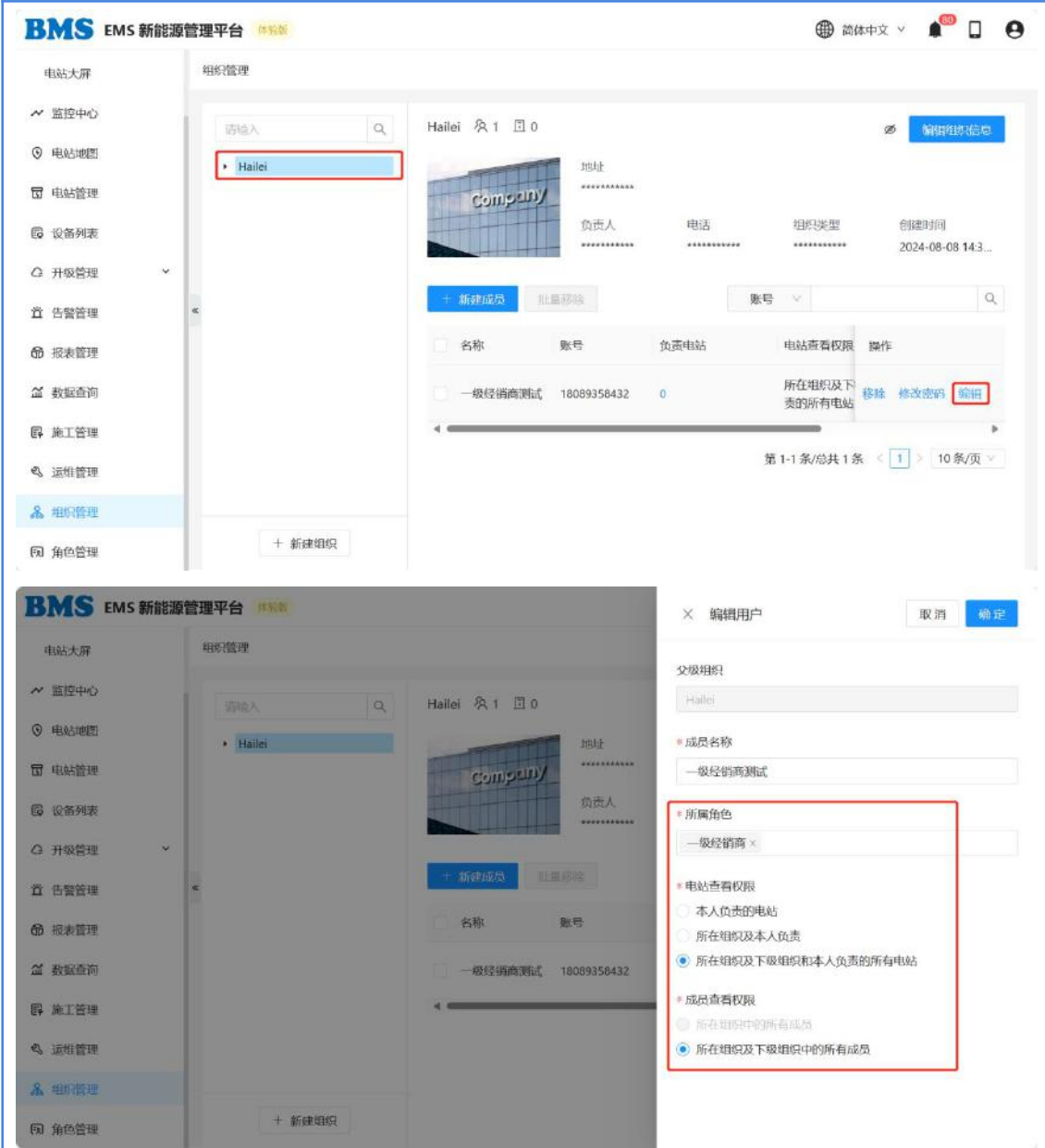


2) When logging into the new energy management platform under the first level distributor account, our company's customers are the largest parent organization. In order to transfer equipment to consumers in the later stage, a sub organization needs to be created. At this time, the members of the sub organization created can be understood as installers or second level distributors. There are two ways to create a sub organization, as shown in the figure: ① click the "+" of the current organization to add a new sub organization, ② click the "New Organization" button below to create a sub organization. Either way, the "New Organization" dialog box below will pop up, and users can improve the sub organization information according

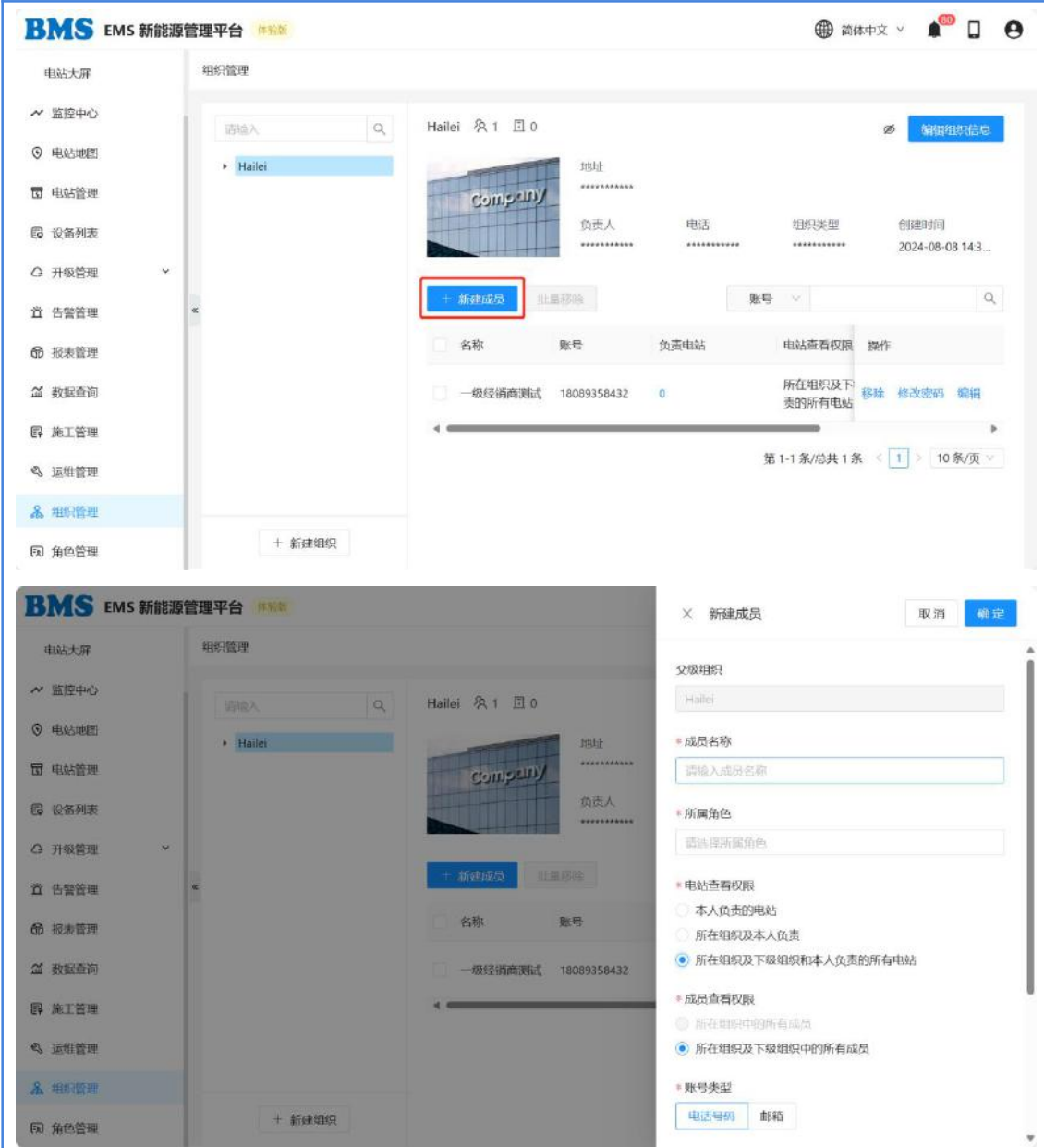
to their needs.



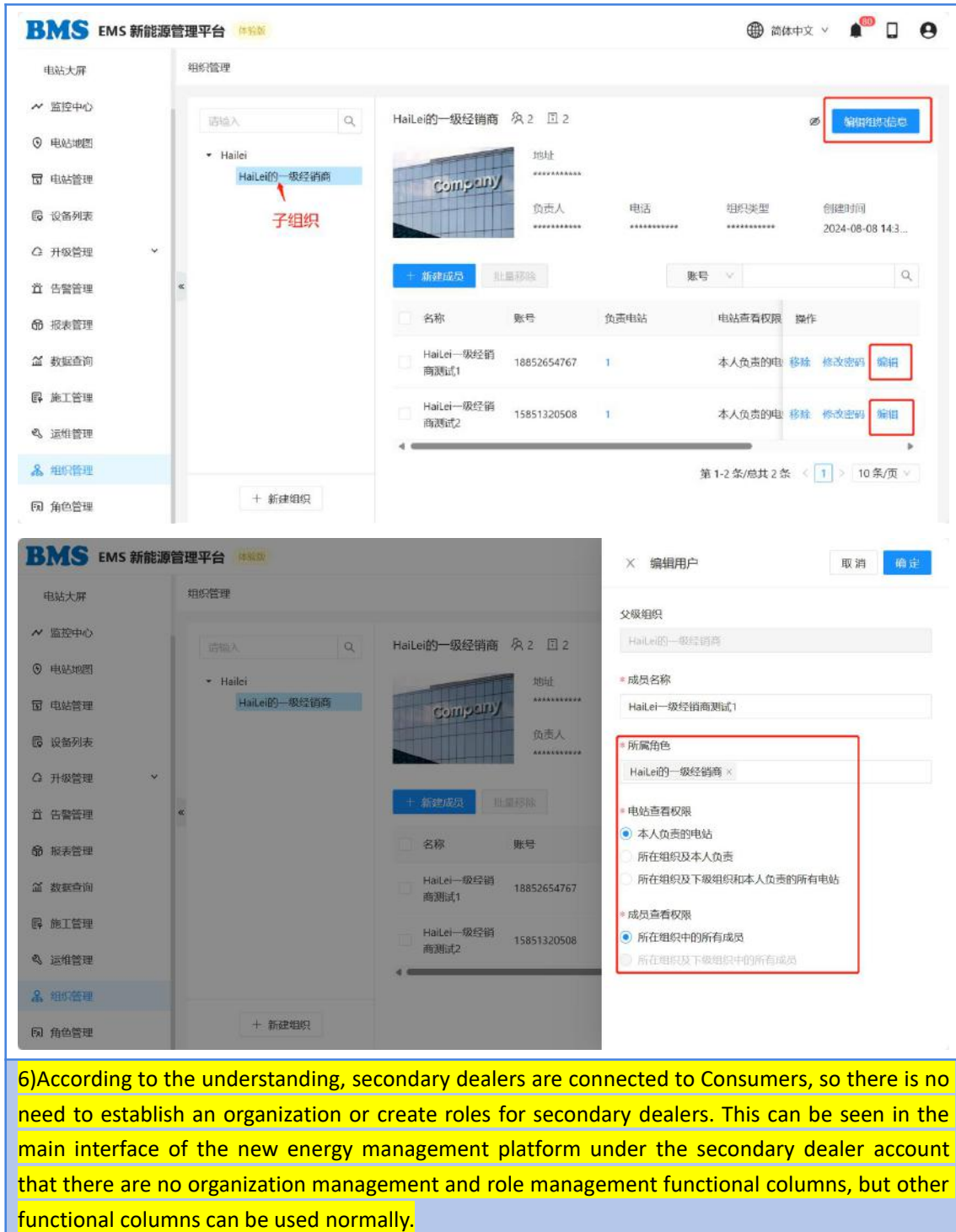
3) When logging into the new energy management platform under the first level distributor account, users can click the edit button to view and edit their delegated permissions. The power station viewing permissions and member viewing permissions increase from top to bottom, so the first level distributor should give themselves maximum permissions, and the role of the first level distributor is assigned by the parent organization, which is given by our company.



4) If there are too many subordinate installers for the first level distributor, it is not enough to rely solely on one person to manage the sub organizations. In this case, the first level distributor needs to click on "New Member" to let the organization members help manage the subordinate sub organizations together. Of course, at this time, the rights given to the organization members can be relaxed according to their own needs.



5) The sub organization established by the first level distributor is the second level distributor, or understood as the installer. According to the current understanding, the sub organization information can be edited, roles and permissions can be assigned, and the management power station permissions can be delegated to the second level distributor.

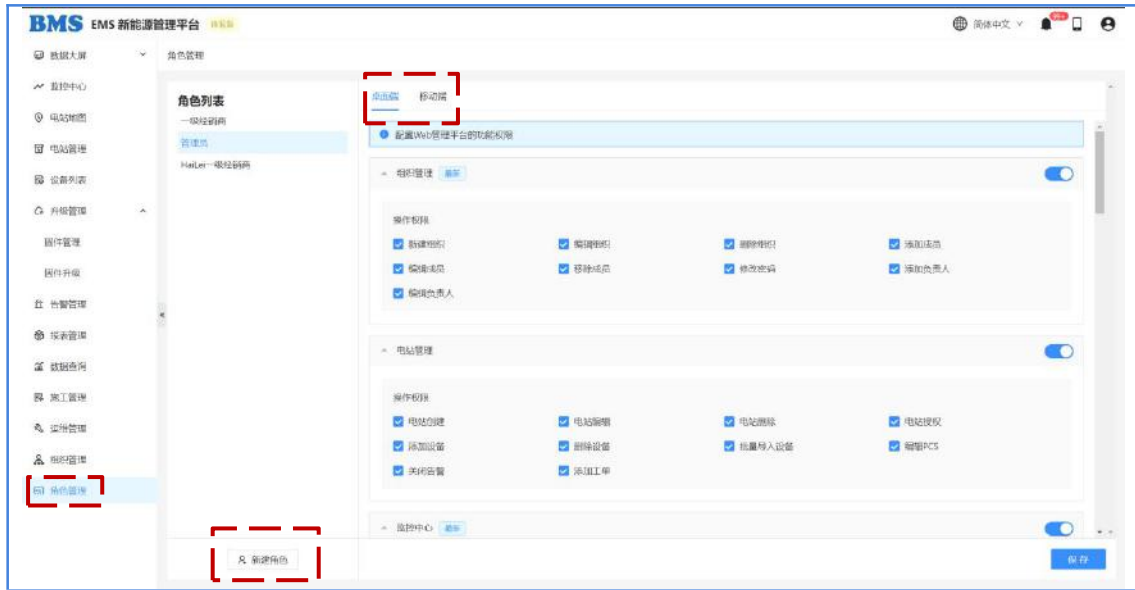




3.2.10 Role Management

Organizational management and role management complement each other. Generally speaking, users first create roles and then go to the organizational management interface to create organizations. According to their needs, they assign various roles to their organizational members. During our testing phase, we have created three roles: administrator, first level distributor, and second level distributor. Details are as follows.

- 1) Click on role management to create a new role. After creating a new role, you need to grant permissions to the created role. Regardless of the role, the mobile function is fully enabled, while the desktop function needs to be selected according to the actual situation. It is worth noting that role creation can be multiple, allowing users to create roles according to their needs, but end users do not have the ability to create organizations and roles.
 - a) Taking administrators as an example, they have the greatest authority and can assign both desktop and mobile functions;
 - b) Taking first tier distributors as an example, all mobile function permissions are opened, and in the desktop role management column, deleting roles is prohibited from being opened, while other functions can be opened;
 - c) Taking secondary dealers as an example, all mobile function permissions are enabled, while desktop organization management and role management are prohibited from being enabled, and other functions are enabled;



三、Default Location Of User Data

1) West Coast Data Center

Phone Code	Country or Region	Phone Code	Country or Region	Phone Code	Country or Region
1	U.S.A	95	Myanmar	678	Vanuatu
1	Canada	239	Sao Tome and Principe	682	Cook Islands
51	Peru	245	Guinea-Bissau	683	Niue
52	Mexico	246	British Indian Ocean Territory	686	Kiribati

54	Argentina	500	Falkland Islands	690	Tokelau
55	Brazil	502	Guatemala	852	Hong Kong, China
56	Chile	591	bolivia	853	Macao China
57	Columbia	593	Ecuador	886	Taiwan, China
58	Venezuela	594	French Guiana	970	Palestine
60	Malaysia	595	Paraguay	1721	Sint Maarten
62	Indonesia	597	Suriname	1787	Puerto Rico
63	the Philippines	598	Uruguay	1809	Dominican Republic (1-809)
64	New Zealand	670	Timor-Leste	1829	Dominican Republic (1-829)
66	Thailand	672	Norfolk Island	1849	Dominican Republic (1-849)
81	Japan	674	Nauru	4779	Svalbard and Jan Mayen
82	The republic	675	papua new	5999	curacao

	of korea		guinea		
84	Vietnam	677	Solomon Islands	35818	Oran

2) Central European Data Centers

Phone Code	Country or Region	Phone Code	Country or Region	Phone Code	Country or Region	Phone Code	Country or Region
7	Russia	235	Chad	371	Latvia	960	Maldives
20	Egypt	236	Central African Republic	372	Estonia	961	Lebanon
27	South Africa	237	Cameroon	373	Moldova	962	Jordan
30	Greece	238	Cape Verde	374	Armenia	964	Iraq
31	Netherlands	240	Equatorial Guinea	375	Belarus	965	Kuwait
32	Belgium	241	Gabon	376	Andorra	966	Saudi Arabia
33	France	242	Congo (Brazzaville)	377	Monaco	967	Yemen

			e)				
34	Spain	243	Congo (Kinshasa)	378	San Marino	968	Oman
36	Hungary	244	Angola	379	Vatican City	971	The United Arab Emirates
39	Italy	248	Seychelles	380	Ukraine	972	Israel
40	Romania	250	Rwanda	381	Serbia	973	Bahrain
41	Switzerland	251	Ethiopia	382	Republic of Montenegro	974	Qatar
43	Austria	252	Somalia	385	Croatia	975	Bhutan
44	Britain	253	Djibouti	386	Slovenia	976	Mongolia
45	Denmark	254	Kenya	387	Bosnia and Herzegovina	977	Nepal
46	Sweden	255	Tanzania	389	Macedonia	992	Tajikistan
47	Norway	256	Uganda	420	The	993	Turkmenistan

					Czech Republic		an
48	poland	257	Burundi	421	Slovakia	994	Azerbaijan
49	Germany	258	Mozambi que	423	Liechtens tein	995	Georgia
61	Australia	260	Zambia	501	Belize	996	Kyrgyzstan
65	Singapore	261	Madagasc ar	503	El Salvador	998	Uzbekistan
90	Türkiye	262	Mayotte	504	Honduras	1242	Bahamas
92	Pakistan	263	zimbabwe	505	Nicaragu a	1246	Barbados
93	Afghanist an	264	Namibia	506	Costa Rica	1264	Anguilla
94	Sri Lanka	265	Malawi	507	Panama	1268	Antigua and Barbuda
212	Morocco	266	Lesotho	508	Saint Pierre and Miquelon	1284	british virgin islands
213	Algeria	267	Botswana	509	Haiti	1340	US Virgin Islands

216	Tunisia	268	Eswatini	590	saint martin	1345	Cayman Islands
218	Libya	269	Comoros	592	Guyana	1441	Bermuda
220	Gambia	291	Eritrea	596	Martiniqu e	1473	Grenada
221	Senegal	297	Aruba	673	Brunei	1649	Turks and Caicos Islands
222	Mauritani a	298	Faroe Islands	676	Tonga	1664	Montserrat
223	Mali	299	Greenland	679	Fiji	1670	Northern Mariana Islands
224	Guinea	350	Gibraltar	680	Palau	1671	Guam
225	Cote d'Ivoire	351	Portugal	681	Wallis and Futuna	1684	American Samoa
226	burkina faso	352	Luxembou rg	685	Samoa	1758	Saint Lucia
227	Niger	353	Ireland	687	New Caledonia	1767	dominica

228	Togo	354	Iceland	688	Tuvalu	1784	Saint Vincent and the Grenadine s
229	Benin	355	Albania	689	French Polynesia	1868	Trinidad and Tobago
230	mauritius	356	Malta	691	Federated States of Micronesi a	1869	Saint Kitts and Nevis
231	Liberia	357	Cyprus	692	Marshall Islands	1876	Jamaica
232	sierra leone	358	Finland	855	Cambodi a	-	-
233	Ghana	359	Bulgaria	856	Laos	-	-
234	Nigeria	370	Lithuania	880	The People's Republic of Banglade	-	-

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3) Indian Data Center

Phone Code	Country or Region
91	India

4) China Data Center

Phone Code	Country or Region
86	Inland China

Note: Data centers in the East and West of the United States are still being updated!