Univers EMS Application User Manual



Rev. 1.3.1

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Version Control

Rev.	Date	Description	Changed By	Approved By
1.2.4	07.FEB.2024	Accomodated updates from 240130 release (Application release v1.2.4)	Crystal Zhou; Tang Kaiyi	Crystal Zhou
1.2.5	09.APR.2024	Accomodated updates from 240330 release (Application release v1.2.5)	Crystal Zhou; Tang Kaiyi	Crystal Zhou
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1.2.9	30.AUG.2024	Accomodated updates from 240830 release (Application release v1.2.9)	Crystal Zhou; Claire Cui	Crystal Zhou
1.3.1	30.NOV.2024	Accommodated updates from 241130 release (Application release v1.3.1)	Crystal Zhou; Claire Cui	Crystal Zhou

Update Contents

New Features

- 1. Implemented **Devices** list on **mobile app**.
 - For end user



• On Devices module, users can monitor all devices state and real-time data here.

2:28 ::... 4G 💋 Devices All Devices PV&Storage Smart Device Inverter-1- Univers... Offline Active Power: 120.000 kW Production Today: --- kWh 02-Inverter-1- Demo Operating Active Power: 399,500 kW Production Today: 174.54 kWh Inverter-1- Univers... Offline Active Power: --- kW Production Today: --- kWh Devices ** -

 On Me – My Plant – My Devices, users can monitor all the devices under the specific site, users also can filter the devices by selecting the device type.

My Devices	
All (8) Inverter (2) Battery (2)	Electricity Me
Dongle-100	
Asset Type: Dongle	
Model Name: Dongle20231124	
SN: 3186dc5d27ee	
Dongle-1	
Asset Type: Dongle	
Model Name: Dongle20231213	
SN: 9bba4e6e666e	
📮 Inverter-1	
Asset Type: Inverter	
Model Name: Res_Inverter20231213	
SN: 0b6f983d638f	
Active Power: kW	
Production Today: kWh	
Optimizers (5) >	
📮 Inverter-1	
Asset Type: Inverter	
Model Name: Res_Inverter20231124	
SN: 088c4c8fc60b	
Active Power: 82.261kW	
Production Today:kWh	

• Refer to <u>Device Monitoring (End User App)</u>

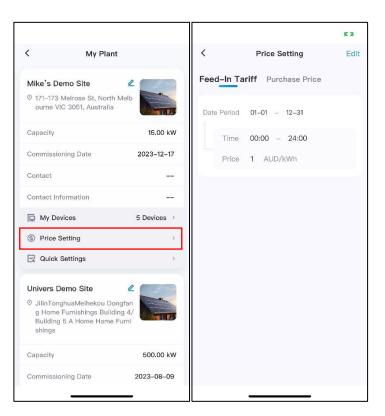


- 2. Implemented device parameter setting feature on mobile app.
 - For end user
 - On Me My Plant Quick Setting, home users can control the device by editing device parameters like Battery TOU, charge and discharge limitation.
 - Device type available to control: Battery.
 - Refer to Device Parameter Setting (End User App)

My Plan	t	< My Plant		K My Plant	i
Mike's Demo Site		Quick Settings		Quick Settings	
ourne VIC 3051, Australia		Battery Battery-Demo5	~	Battery Battery-Demo5	~
Capacity	15.00 kW	Parameter Settings		, i arameter berunga	
Commissioning Date	2023-12-17	Maximum charge power	0 W	Maximum charge power	0 V
Contact		Maximum discharge power	0 W	Maximum discharge power	0 \
D My Devices	5 Devices >	End-of-charge SOC	100 %	End-of-charge SOC	100 %
Price Setting	>	End-of-discharge SOC ⑦	20 %	End-of-discharge SOC ③	20
Quick Settings	,	Charge from AC	Enable >	Cancel	Con
Jnivers Demo Site JilinTonghuaMeihekou Do g Home Furnishings Build		AC charge cutoff SOC	100 %		
Building 5 A Home Home shings		Forced charge/discharge		Stop	
Capacity	500.00 kW	Charge/Discharge	Charge >	Charge Discharge	
Commissioning Date	2023-08-09				

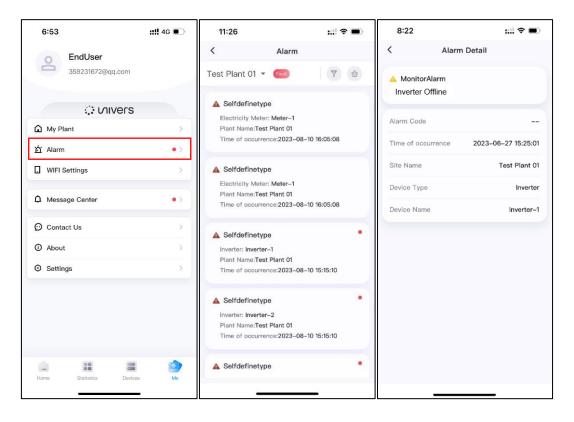
- 3. Implemented Price Setting feature on mobile app.
 - For end user
 - On Me My Plant Price Setting, users can edit Feed-In Tariff and Purchase Price for the site
 - Refer to <u>Plant Price Setting (End User App)</u>

EnOS



4. Added Alarm Detail for alarms on mobile app.

- For end user
 - On Me Alarm, users can click each alarm to see the alarm details.
 - Refer to <u>Alarm (End User App)</u>





- For installer/admin
 - o On Alarm module, users can click each alarm to see the alarm details.
 - On Alarm detail page, users can accept the alarm by clicking "Accept", then the alarm will be marked as "Acked" on the alarm list.
 - On Alarm detail page, users can clear the alarm by clicking "Clear", then the alarm will be deleted from the alarm list.
 - Refer to Alarm Detail (Installer Appl)

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	Alarm	台	< А	larm Detail		Alarm	습
All 12	Fault Warning 0	Info 2	A (200) Power A Grid Undervoltage	Alarm	All Faul 12 10		Info 2
Q Alarm de	scription or code	品7			Q Alarm description	n or code	品で
• •	- defense ta e sere		Alarm Code				Acked
Inverter: In	ndervoltage verter-#001		Time of occurrenc	2024-11-27 11:16:43	Grid Undervolt Inverter: Inverter-#		
	Residential Demo Site aurrence: 2024-11-27 11:16	:43	Site Name	Residential Demo Site		2024-11-27 11:16:43	3
			Device Type	Inverter	Acked by: hossain.a	dmin	
Inverter: In Plant Name:	elf-Check Fail.[1] verter-#001 : Residential Demo Site surrence: 2024-11-27 11:16	:43	Device Name	Inverter-#001	AFCI Self-Che Inverter: Inverter-# Plant Name: Reside	001 ntial Demo Site	
A String	Current Backfeed				Time of occurrence:	2024–11–27 11:16:43	3
	verter–#001 : Residential Demo Site :urrence: 2024–11–27 11:16	:43			String Current Inverter: Inverter-# Plant Name: Reside Time of occurrence:	001 ntial Demo Site	3
🛕 Grid Lo	oss						
	verter-#001 Residential Demo Site	:43	Q	Nivers	Grid Loss Inverter: Inverter-#	001	
Home	Alarm Managemen	Me	Clear	Accept	Lome Alarn	Management	Me

- 5. Implemented **Asset Tree navigation** to display information on specific company/site/device on web portal.
 - On Home Page, default displays cross-site statistics of the root node company.
 - Refer to <u>Home Page</u>
 - Users can search company/site/device on the asset tree.

Univers EMS	Q. Asset	Statistics Overview			Current Plant Ranking (Equivalent Yie	(d)
Home Page	B Wholesale Plumber	Active Power	Production BOL			≣4
- Central Monitoring	· BLEROW	11.40 snw	92.07 TWA		EnOS_Edge_EGC-B38bb	17.70 h
	· (1) *#####	11.40	92.07 198		No.2 DemoSite1023	13.92 N
	• B cc11					
Device Monituring	• B mm	Yield Statistics	M	orth Year Lifetime	1003 Test Plant 01	5.19 h
	B matiAdmin001	Month 2024-11 [3			No.4 yangjiau	5.14 ×
	• Bi huanhuan图试公司01	1720				
Device Management	 B) (0.000000200) 	130			No.5 Hhtesteine003	3.04 %
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Help and Feedback	 ·				No.6 Rockingham Test Banch	1.14 H
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	 • • •		Production		No.9 etseasetations	0.64 h
D About	ChyCompany				No.10 Bettacon-#12th	0.35 h
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	 B) 062002 	Environmental Benefits				
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	B 0704_regression02	⊕ 36,737.83 st			⁹⁰ 59,747,311.26	
	 ・ ・ ・					
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	• 💼 Installer Company					
	• 图 YJH·版字的法-Test					
	 • • •					
	🕮 Lucleth4 🗸					



• Users can view the cross-site statistics by selecting the company on the asset tree.

≡ EnOS				🖾 🗘 hossain.admin -
Univers EMS	O, Asset	Statistics Overview		Current Plant Ranking (Equivalent Yield)
Home Page	B Wholesale Plumber	Active Power	Production BOL	
👳 Central Monitoring	• B 上海公司	5.63 MW	92.07 twh	
& Fleet Map	 ·			
eo Field Map	• 🕅 cc11	Yield Statistics	Month Year Lifetime	
	🖶 Hossain demo site 🛩		Month Year Lifetune	
2. Ste Monitoring	· Eb unt	Month 2024-11 [3		
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R O&M Management -	• 助 安和市村公司	50		
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Device Management	 ・ ・ ・	20	all the state of the second seco	
Company and User Mgt	Bi Rebecca test 021			
	 助 石亦極公司 	11-01 11-03 11-05 11-07 11-09 1	1-11 11-12 11-15 11-17 11-10 11-21 11-23 11-25 11-27 11-29	
	師 罗乐的公司		Production	
Help and Feedback -	 ・ ・ ・			
	E chyCompany			
	 B 0000619demoEDiTo 	Environmental Benefits		
D About	 B) 062002 	Environmental benefits		
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	B android @IBEDIT	⊖ _ ig		40 _
	 B 0704_regression02 			
	 ■ 手動創業公式02 			
	 ・ ・ ・			
	B installer Company			
	• 图 YJH-版本册述-Test			
	 南 1130版本之前的曲站 			

• Users can view the site details by selecting the site on the asset tree.

Univers EMS	Q, Asset	Site Overview Description Energy Statistics				
Home Page	B Wholesale Plumber					
Central Monitoring ^	 	Hossain demo site omine			6	a Layout
🕹 Fleet Map	 前 再实设备 Bill cc11 	 Sunny 55°F ◆ 中国上海市黄浦区SFXG+927 部政编码: 200 	023			
all KPI Statistics	▪ ₿ Hossain demo site	Capacity 234.00 kW Commissioning Da	te 2023-05-12 Contact - Con	tact information -		
12 Site Monitoring	Finverter-1					
Device Monitoring	₩ inverter3	Production Today Revenue Today	Production this month 0.00 kWh	Production this year 0.00 kWh	Lifetime Production 0.00 kWh	
R O&M Management V	⊨ Inverter-3 ⊨ Inverter-2			0100 1111	0100 1111	
Device Management	₩ inverter-2	Energy Flow Diagram	Devices Overview			
Company and User Mgt	Inverter-1		8 Dongle-1	Omine Dongle-1	Offine Dongle-1	on
Message Center V	inverter-1	PV System	SN b2e13		83f1f5d5 SN	9bc289f2
	Batterv-1	伊	Model Name -	Model Name	- Model Name	-
Help and Feedback V	Battery-1	0.00 14				
🗄 More 🗸 🗸	Battery-3			omine Inverter-3	Offine Inverter-3	on
About	Battery-3		SN fecd0 Model Name -	601 SN Model Name	83dfa57e SN - Model Name	1e3c2857
	B Battery-2		Active Power - kW	Active Power	- kW Active Power	– kW
	B Battery-2		Production Today - kwh	Production Today	- kWh Production Today	- kWh
	Battery-1	Storage System Orid	Inverter-3	omine Inverter-2	Office Inverter-2	on
	Battery-3		SN elafe		09647c90 SN	00da7143
	Battery-2		Model Name -	Model Name	- Model Name	-
	· @	Lord	Active Power - kW	Active Power	- kW Active Power	- kW
	BittiAdmin001		Production Today - kWh	Production Today	- kWh Production Today	- kWh
	 Rh huanhuan@68532001 					

 Users can view the device details by selecting the device under a specific site on the asset tree.

Q, Asset	Battery-3 ottos					
B Wholesale Plumber	Hossain demo site					
 ・ ・ ・	◎ 中国上海市黄油区5F>	(G+927 的动脉的: 200023				
 ・ ・ ・	Asset Type Battery	SN 7c19b3b8 Version v1.0.20230814				
* 🖶 Hossain demo site	Real-time Info					
	Bus Voltage	- V	soc	- %		
inverter-3	Daily Charging Energy	- kWh	Daily Discharging Energy	- kWh		
🛱 inverter-3	Active Power	- KW				
inverter-2 inverter-2	History Info ()					
₩ inverter-1	Signal Type: Energy Yield(kWh) V Sig	nal Point Name: Selected (2) v	Time: 2024-11-28 🗇			
i⊯ inverter-1						
B Battery-1	En					
Battery-3						
8 Battery-2						
Bh huanhuan@685/1001						
	B. Windesske Plantker B. Markelse Barkel Barke	 B: Workeder Franzie B: ±50:00 B: ettation 	 B. Wolcaski Hunter B. Wolcaski Hunter B. Statisti Hunter B. Statisti Hunter B. Hu	 B. Workstein Kunstein B. B. Workstein Kunstein B. B. Workstein Kunstein B. B. Workstein Kunstein B. Kunstein		

Main Enhancements

1. Enhanced the design of the fleet map.



- Users can view the KPI data of power site distribution and aggregation under the company / regional node flexibly.
- The column on the right shows the key metrics of all sites within the scope of user authority; the left shows the production, energy trend, consumption and EV station statistics of the selected level (integrated sites or single site).
- Refer to Fleet Map



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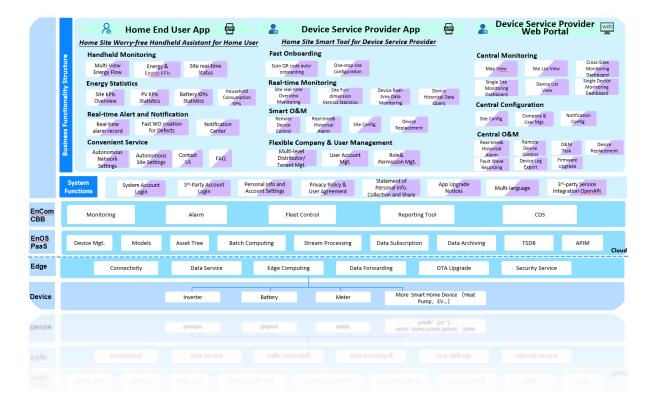
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1 About Univers EMS

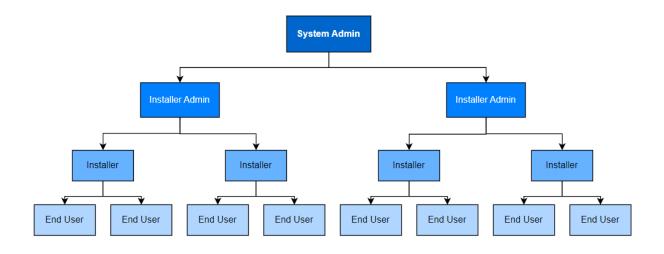
The Univers EMS Application has a simple design and well-developed features, oriented towards the actual needs of residential plant in the end-to-end process. It aims to solve business pain points faced by Device Manufacturer, Donwstream Installer companies, Installer&O&M team and Home End Users involved in residential enegy management. The system provides powerful functions such as Plant and Device Onboarding, Monitoring, Management, Remote Control,Operation and Maintenance, Company and User Management.

1.1Product Architecture



1.2Target Users

Univers EMS is designed for 4 types of User Roles: System Admin, Installer Admin, Installer and End User. Below is the user hierarchy diagram.



1.2.1 User Description & Permission

User	Description	Permission
System Admin	OEM team users will be as System Admins. It is the top- level user that oversees system level settings such as setting up installer companies and Installer Admin user accounts. OEM contact Univers Team to initialize the first System Admin account and then this System User could create more System Users.	 Company Management User Management for all the User Accounts Residential Site Management for all the Residential Sites Device Management for all the onboarded devices Residential Site Central Monitoring Device Monitoring for all the onboarded devices System Management
Installer Admin	Admins user for a Installer Company, who oversees the settings of the Installer companies such as setting up sub-companies that is under the Installer company and managing Installer user accounts, plants and devices.	 Sub-company Management User Management within permission of Installer company and Sub Installer Companies Residential Site Management within permission scope of Installer company and Sub Installer Companies Device Management within permission of Residential Sites Residential Site Monitoring within permission scope of Installer company and Sub Installer Companies

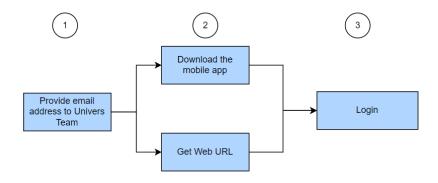
		Device Monitoring within permission of Residential Sites
Installer	Installer oversees the Site level management within the permission scope, such as setting up residential sites, onboarding devices, moniroting&control and manage End User accounts.	 End User Management Residential Site Management for the sites that they conduct onboarding or assigned by admin Device Management within permission of Residential Sites Residential Site Monitoring for the sites that they conduct onboarding or assigned by admin Device Monitoring within permission of Residential Sites
End User	End User are the residential site owner who could monitor their installed PV plants and do the personal settings.	 Their own Residential Site Monitoring Device Monitoring Personal Setting

2 Getting Started

This section will introduce how to get started access to the Univers EMS Application, for different roles of users.

2.1System Admin

Here is the overall process for the initial setup:

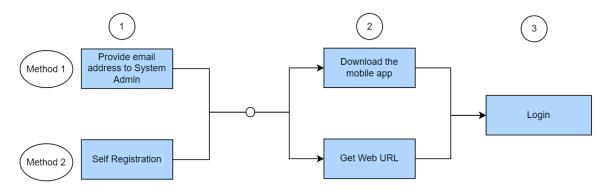




- 1. System admin user will need to provide Email Address and Username to Univers team. Univers Team will create first System Admin Account based on the email and username provided by the OEM.
- 2. A registration email will be sent to the provided email address, which contains a link to set the password.
- 3. Login to the application.

2.2Installer Admin

Here is the overall process for the initial setup:



1. Installer Admin user can either register an account through method 1 or method 2 as described below:

Method 1: Connect with OEM System Admin, provide your email address to System Admin to register an account.

OR

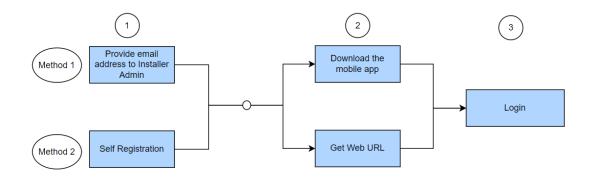
Method 2: Self-registration.

- 2. A registration email will be sent to the provided email address, which contains a link to reset the password to login Mobile App and Web Portal.
- 3. Login to the application.
- 4. Follow the detailed guide in Installer Admin Account Setting.

2.3Installer

Pre-requisite: You are using an Installer account.

Here is the overall process for the initial setup:



1. Installer user can either register an account through method 1 or method 2 as described below:

Method 1: Connect with Installer Admin, provide your email address to Installer Admin to register an account.

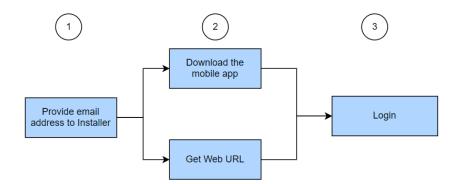
OR

Method 2: Self-registration, self-register account from entrance in Mobile Application Login Page. Follow the detailed guide in <u>Installer Account Setting</u>.

2.4End User

Pre-requisite: You are using an End User account.

Here is the overall process for the initial setup:



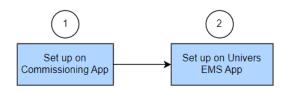
- 1. End User will need to provide Email Address and Username to Installer. Installer will create End User Account based on the email and username provided. (Note: System Admin and Installer Admin also have permission to create end user account.)
- 2. A registration email will be sent to the provided email address, which contains a link to reset the password to login Mobile App and Web Portal.
- 3. Login to the application.
- 4. Follow the detailed guide in End User Account Setting.



2.5Setting up Power Plants & Devices

Pre-requisite: You are using a System Admin/Installer Admin/Installer account.

Here is the overall process to set up power plants and devices:



Refer to <u>Device Onboarding & Residential Plant Setting Up</u> for the details.

3 Mobile Application – Admin & Installer

3.1 Setup Account

3.1.1 Installer Admin Account Setting

Method1:

- 1. System admin will collect your email address and username, and create an account based on the email address and username.
- 2. You will receive a registration email by that email address after admin create for you.
- 3. Click the link in email to set the password in accordance with password policy requirements. You will be redirected to the website to set your password.

10:34 • Univers EMS	10:45 .ul 중 988 ∢ Gmail
	Initialize Password
Set Account > mbox ☆ ● PDC Hossain 0EM 10:33 ← ··· to me ∨ ···	Username UserManualTest
Dear User, We are glad to inform you that your account has	Email example@email.com
been created. Your account: UserManualTest	Set Password*
Please click the link below to enter the system and set your password. To ensure your account security, please set your password within 24 hours. https://localhost/hossain-fe/ index.html#/inituser?token= SiMdFHbSmuFsYpBDRhwucPpsUC5a8d SN&type=init	Confirm Password* Password rules: B-20 characters At least one uppercase letter At least one uppercase letter
Click "Download Application" below, After the download is complete, you can log in to manage your power plant.	 At least one number Space is not allowed
Android: Download APP	Submit
IOS: Download APP	
Thank you!	AA
← Reply → Forward	

Note: If email is not in your inbox, please check your spam/junk email

Method2:

- 1. Download the mobile application in Google Play or App Store. The application name is Univers EMS
- 2. Open the application and click on **[Self Registration]** at the bottom of the page.
- 3. Tap on [I'm an Installer Admin].

17:48	1 4G (90)	9:41 <	जा रू 🔳 Select Role
Vive	rs	2	I'm an Installer Admin → Real-time monitoring of plant operation. Tep to create your account
Login	English∨	2	I'm an Installer → Quick setup, O&M, Operation monitoring. Tap to create your account
2 Username		-	
Password	0		
() Forgot password		
I have Read and Agreed to the <u>User Agree</u> <u>ment</u> and <u>Privacy Policy</u>			
Login			
Self Registr	ation		

- 4. You will be directed to the Installer Admin Account Self-Registration page. **Please note that:** this process is creating new installer company and at the same creating your account as installer admin of this new company, so if your installer company has been registered, please contact corresponding installer admin to add account for you.
 - a) **Company Invitation Code**: get from your parent company admin user, and new company your register will be the sub-company under this Company.
 - b) **Company name**: enter company name that you will register, this will create a sub company under the parent company which you have provided the invitation code.
 - c) **Username**: enter your preferred username.
 - d) **Password**: enter a password.
 - e) Confirm Password: enter your password again.
 - f) User Email: enter your email address.
 - g) **Verification Code**: press the **[Send]** button first, a verification code will be sent to your email address, key in the verification code here.

Note: If email is not in your inbox, please check your spam/junk email.

- h) Read and tick the button to consent the User Agreement and Privacy Policy.
- i) Press [Register] button to complete the registration.

EnOS

17:4	8	. 11 4G 90
<	Installer Admin Regis	tration
Comp	any Invitation Code *	
	enter the company invitation	n code
Comp	any name *	
	any name	
Userna	ame *	
Userna	ame	
Passw	ord *	
Passw	ord	8
Confir	m password *	
	m password	Ø
User E	mail *	
User E	mail	
Verific	ation code *	
Please	enter the verification code	Send
More	Information 🗸	ি
	ave Read and Agreed to the and <u>Privacy Policy</u>	<u>User Agreeme</u>
	Register	

3.1.2 Installer Account Setting

Method1:

- 1. Installer admin will collect your email address and username, and create an account based on the email address and username.
- 2. You will receive a registration email by that email address after admin create for you.
- 3. Click link in email to set the password in accordance with password policy requirements. You will be redirected to the website to set your password.

EnOS

10:34 ∢ Univers EMS	10:45
< ₽ Ш № …	
Set Account 🔰 Inbox	Initialize Password
PDC Hossain OEM 10:33	Username UserManualTest Email example@email.com
Dear User,	
We are glad to inform you that your account has been created.	Set Password*
Your account: UserManualTest	******* Ø
Please click the link below to enter the system and set your password. To ensure your account security, please set your password within 24 hours. https://localhosthossain-le/ index.html#/inituser?token= 5jMdFHbSmuFs/pBDRhwucPpsUC5a8d 5N&type=init	Confirm Password* Password rules: © 8-20 characters © At least one lowercase letter © At least one lowercase letter
Click "Download Application" below, After the download is complete, you can log in to manage your power plant.	A riess one forwards and the A riess one number Space is not allowed
Android: Download APP	Submit
IOS: Download APP	
Thank you!	
← Reply → Forward	AA a -portal-pdc1.envisioniot.com C

Note: If email is not in your inbox, please check your spam/junk email

Method2:

- 1. Download the mobile application in Google Play or App Store. The application name is Univers EMS
- 2. Open the application and click on **[Self Registration]** at the bottom of the page.
- 3. Tap on [I'm an Installer].

17:48	1 4 G 90	9:41	, 내 추 🔳 Select Role
	S		I'm an Installer Admin → Real-time monitoring of plant operation. Tap to create your account
Login	English∨	•	I'm an Installer → Quick setup, O&M, Operation monitoring. Tap to create your account
名 Username			
Password	8		
() F	Forgot password		
I have Read and Agreed to <u>ment</u> and <u>Privacy Policy</u>	o the <u>User Agree</u>		
Login			
Self Registrati	on		

- 4. You will be directed to the Installer Account Self-Registration page.
 - a) Company Invitation Code: get from your Installer Company'Installer Admin
 - b) **Username**: enter your preferred username.
 - c) **Password**: enter a password.
 - d) Verify Password: enter your password again.
 - e) User Email: enter your email address.
 - f) Verification Code: press the [Send] button first, a verification code will be sent to your email address, key in the verification code here. Note: If email is not in your inbox, please check your spam/junk email.
 - g) Read and tick the button to consent the User Agreement and Privacy Policy.
 - h) Press [**Register**] button to complete the registration.

EnOS

< Company	Installer Registration	
Company		
	Invitation Code *	
Please en	er your installer company invitat	ion code
Username	*	
Please en	er user name	
Password	*	
Please en	er password	Ø
Confirm p	assword *	
Please rep	beat password	8
User Ema	il *	
Please en	er an email address to register a	iccount
Verificatio	on Code *	
Please en	er verification code in email	Send
	Read and Agreed to the <u>User</u> d Privacy Policy	Agreeme
<u>nt</u> an		
	Register	

3.2 Login



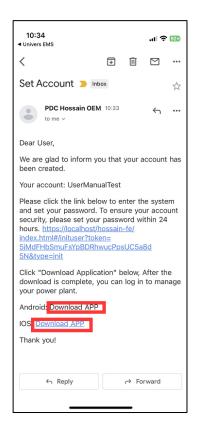
3.2.1 Application Download

1. You can download the mobile application in Google Play for Android users or App Store for Apple users. The application name is Univers EMS as shown in Figure.

10:27			ıl 🕈 时
Search			
UNIVERS	Univers H Energy M		Û
AGE 17+ Years Old	CATEGORY Business	DEVELO ENVISION D]
What's Nev	N	Versior	History
Version 1.1.0 1. Optimize Mon 2. Fix some know		display	1mo ago
Version 1.1.0 1. Optimize Mon	wn issues		
Version 1.1.0 1. Optimize Mon 2. Fix some know Preview Over View	wn issues	Ho	me Paç
Version 1.1.0 1. Optimize Mon 2. Fix some know Preview Over View st	wn issues	Ho	me Paç
Version 1.1.0 1. Optimize Mon 2. Fix some know Preview Over View New York View	WIN ISSUES	Ho	me Pag Me Pag
Version 1.1.0 1. Optimize Mon 2. Fix some know Preview Over View Over View	White issues	Ho	me Pag Me Pag Rate Sea Rate Sea Sea Sea Sea Sea Sea Sea Sea Sea Sea
Version 1.1.0 1. Optimize Mon 2. Fix some know Preview Over View State State State State State S	White issues	Ho	me Pag st € harabas ∭ ∰ tere



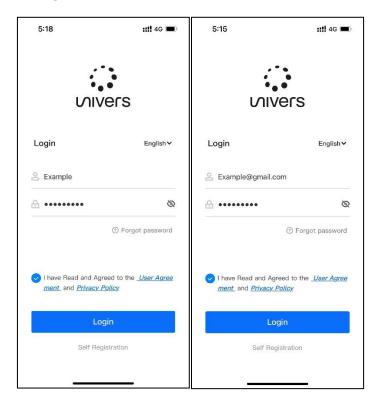
2. Or you can also download from the link provided in the Set Account email.





3.2.2 Application Login

- 1. Enter your username or email address and password.
- 2. Read and check the **box** to consent the User Agreement and Privacy Policy.
- 3. Press the **[Login]** button.



After logging, you will be directed to the Home page of Univers EMS where you can monitor your plants.



15:15	.ıl 🕆 🗗
Plants	Statistics
學 Plant Guide	2. Add Users
All Normal 1,709 4	Faulty Offline 7 1,698
Q Plant name	品 7
Plant Operation State: Capacity: 200.00kW Production Today:k Active Power: 0.00kW	
Plant Operation State: Capacity: 100.00 kW Production Today:kW	
Plant Operation State: Capacity: 200.00kW Production Today:k	
Home Alarm	Management Me.

3.2.3 Forgot Password

If you forget the login password, click the 'Forget password' button to reset the password.



15:11	.ıl 🗢 🖽
<	Forgot password
Email * Email addre	
Confirm er	nail * nter email address
	enter the email address bound to the t, password reset email will be sent
	Apply

3.3 Company & User Management

3.3.1 Company Management

The application provides the module of multi-level company management, which can be flexibly supported by the multi-level distributor and installer model of overseas household savings. Company Management module is for System Admin and Installer Admin to manage the sub-companies. The user can create, edit, or delete a sub-company. The user is allowed to create up to four levels of sub-companies under the root node.

You can access the page by go to [Me] page and press [Company Management].



12:22	.11 4G 🛐
Me	
hossain.admi 18217257851@139.	
Corporate Information	>
🔓 Company Management	>
. WIFI Settings	>
 About 	>
 Settings 	>
Home Alarm Ma	inagement Me

You will be directed to the Company Management page as shown below. The page will show a list of sub-companies that you have permission.

12:22	al.	4G 81
<	Company Management	0
Q Com	pany Name	
🗈 Unive	ers	^
🗈 Ir	staller Company	



3.3.1.1 Create Sub-Company

You can create more sub-company if needed.

1. Press the [Manage icon] on the top right-hand corner.

12:22		.itl 4G 81)
<	Company Management	٢
Q Com	pany Name	
🗈 Unive	ers	^
Eb Ir	nstaller Company	

2. Select a parent company that you want to add the sub-company to and press the **[Sub Company]** button on the bottom to add a sub-company to the selected parent company.



12:31		11 4G 📧
	Select Company	Cancel
C Company Name		
🔿 🗈 Univers	^	
🕑 🗈 Insta	Iller Company	
🔗 User	🐍 Sub company	••• More



3. Enter the **Company name**, **Username** and **User email**. This user account will automatically be installer admin for this company.

12:33	II 4G 🗷
<	Add Sub-company
Parent co	npany
Installer C	ompany
Company	Name *
Please en	er company name
Username	*
	er username
User Ema	1*
Please en	er User's email address
More Y	
Canc	el Apply

- 4. Press the **[More]** to enter the Company Email, Phone, Website, Address and Company Invitation Code if needed.
- Company Invitation Code will be used for Installer Admin/Installer under the company to fill in during self-registration. Please provide it to the relevant installer users. If invitation code is changed, previous one will be invalid.

Note: It requires 8-64 characters and numbers, the invitation code must be unique.

6. Press the **[Apply]** button to create the sub-company.



16:49		u 🗟 92
<	Add Sub-company	
0		
Company E	man r company contact email	
	company contact email	
Company P	hone	
Please ente	r company contact phone nu	imber
Company V	Vebsite	
	r company website	
		0/500
		0/500
Company A	ddress	
Please ente	r company address	
		0/500
Company Ir	nvitation Code ⑦	
	r the company invitation cod	e 🗗
	G	enerate
Fold A		
Cance	I Apply	

Note: Maximum four levels of company are allowed.

3.3.1.2 Delete Sub-Company

Pre-requisite: You only can delete a sub-company if there is no sub-companies, no users and no plants under this sub-company.

1. Press the [Manage icon] on the top right-hand corner.

12:22		al i 4G 🔠
<	Company Management	٢
Q Con	npany Name	
🗈 Univ	ers	^
E I	nstaller Company	

- 2. Select a sub-company that you wish to delete and press the [...More] button on the bottom right-hand corner.
- 3. Press [Delete Company] button.



4. Press [Delete] on the pop-up window to confirm the deletion.



12:25		ii 46 🛐			
	Select Company	Cancel			
C Company N	ame				
🔿 🗈 Univers		^			
🕑 🗈 Insta	aller Company				
reco	Deleted company cannot be recovered. please confirm if you want to delete this company?				
Car	Delet	te			
🔗 User	🐍 Sub company	··· More			

3.3.1.3 Edit Sub-Company

1. Press the [Manage icon] on the top right-hand corner.

12:22		ati 46 🛐
<	Company Management	٢
Q Comp	bany Name	
🗈 Univer	rs	^
En In:	staller Company	

- 2. Select a sub-company that you wish to delete and press the [...More] button on the bottom right-hand corner.
- 3. Press [Edit Company] button.

12:25		all 4G 🛐
	Select Company	Cancel
Q Company	/ Name	
🔿 🗈 Unive	rs	^
🕑 🗈 in	staller Company	
		it Company lete Company
🔗 User	Sub comp	••• More

- 4. You will be redirected to the Edit Company page where you can edit the company information such as the company name, email, phone, website, address and invitation code. Parent company is not editable.
- 5. Company Invitation Code is used for Installer Admin/Installer under the company to fill in during self-registration. Please provide it to the relevant installer users. If invitation code is changed, previous one will be invalid.

Note: It requires 8-64 characters and numbers, the invitation code must be unique.



17:08		.ıl 🗟 92
<	Edit Company	,
Parent comp	any	
hossain		
Company Na	ame *	
demoCompa	ny	
Company Em	nail	
Company Em		
Company Ph	one	
Company Ph	one	
Company We	ebsite	
Company We	bsite	
		- /
		0/500
Company Ad		
Company Add		
		0/500
		0/500
Company Inv	vitation Code 🕐	
Please enter	the company invitatio	n code 🛛 🗗
		Generate
Cancel	A	oply

6. Press [Apply] to save the changes.

3.3.2 User Management

User Management is for Admin, Installer Admin, and Installer to manage the user accounts under his/her authority. This involves creating, deleting, and disabling a user account or reset password for a user account. Distinct roles have different management permissions:

- System Admin: can manage Installer Admin, Installer and End User accounts.
- Installer Admin: can manage Installer and End User accounts.
- Installer: Installer could manage End User accounts.

You can access the page by go to the **[Management]** page and switch to the **[Users]** tab. This page shows a list of users that you have management permission.

EnOS

12:41		11 4G 7 9
Plants	Devices	Users +
Q Username		(品) 7
BindUser Insta Role: User Email: chydhu@16		Enabled
hossain.ad Role: System ad Email: 182172578	min	Enabled
hossaintest U Role: System ad Email: hongyuan.		Enabled
	arm Manageme	ent Me



3.3.2.1 User Account Creation through Home Page

12:44	.atl 4G 79	12:07	.11 🗢 98
Plants	Statistics	< Add U	ser
₽- Plant Guide	온 Add Users	Service provider * 0618demo	>
All Normal 0	Fault Offline 0 3	Role * Installer admin	>
Plant name	吊了	Username * Example	
berno01 lant Operation State: Off apacity: 10.00kW roduction Today:kWh		User email * example@email.com	
tive Power:kW		Profile photo	>
Iant Operation State: Off apacity: 200.00kW roduction Today:kWh ctive Power: 0.00kW			
Demo Site Ant Operation State: Off	Offline		
Capacity: 15.00 kW Production Today: kWh		✓ I have obtained the own	er's authorization.
		Cancel	Apply

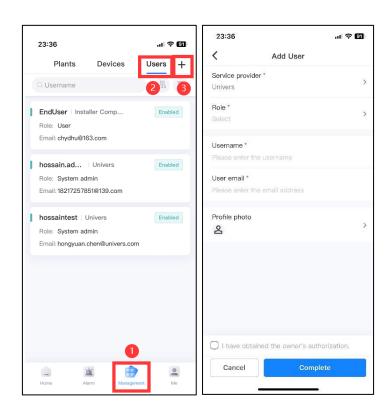
1. Go to [Home] page and press the [Add Users] button.

- 2. Service provider: select company this user belongs to
- 3. Role:
 - a. If you are a system admin, you can select [System Admin]/[Installer Admin]/[Installer]/[End User].
 - b. If you are an installer admin, you can select [Installer Admin]/[Installer]/[End User].
 - c. If you are an installer, you can select [End User].
 - d. When creating **Installer** accounts, you can choose the related plant but it is not mandatory.
 - e. When creating **End User** accounts, it is mandatory to choose the related plant.
- 4. Username: enter the **Username** for the user.
- 5. User email: enter the user's **email** address.
- 6. Profile photo: set the profile phone if needed.
- 7. Check the **[box]** to confirm that you have obtained the owner's authorization.
- 8. Press the **[Apply]** button to create the account.

3.3.2.2 User Account Creation through Management Page

1. Go to [Management] page, switch to the [Users] tab and press the [+] button.

EnOS



- 2. Service provider: select company this user belongs to
- 3. Role:
 - a. If you are a system admin, you can select [System Admin]/[Installer Admin]/[Installer]/[End User].
 - b. If you are an installer admin, you can select [Installer Admin]/[Installer]/[End User].
 - c. If you are an installer, you can select [End User].
 - d. When creating **Installer** accounts, you can choose the related plant but it is not mandatory.
 - e. When creating **End User** accounts, it is mandatory to choose the related plant.
- 4. Username: enter the **Username** for the user.
- 5. User email: enter the user's **email** address.
- 6. Profile photo: set the profile photo if needed.
- 7. Check the **[box]** to confirm that you have obtained the owner's authorization.
- 8. Press the [Apply] button to create the account.

3.3.2.3 User Account Creation through Company Management

1. Go to [Me] page and press [Company Management].



17:21	I ? 01
Me	
demo001 demo001@maildrop.cc	
Corporate Information	>
🔓 Company Management	>
. WIFI Settings	>
(i) About	>
Settings	>
Home Alarm Management	Me

2. Press the [Manage] icon.

17:22		"II 🕹 🔃
<	Company Management	٥
Q Comp	any Name	
🗈 hossai	n	^
🗈 de	moCompany	

3. Select the company which you want to add the user into and press [User] button.



17:22		.al † 🗐
	Select Company	Cancel
Q Company	Name	
🗈 hossain		^
😒 🗈 der	moCompany	
1		
6		
2		
🔐 User	🐍 Sub company	••• More

4. Press [+] button at the top right hand corner.

17:22		.al 🗢 🖾	17:22		† 19
< u	lser Management	+	<	Add User	
Q Username		7	Service provide demoCompany		>
demo001 de Role: Installer Email: demo00	r admin	Enabled	Role * Select		>
demo002 d		Enabled	Username * Please enter the	e username	
Role: Installer Email: demo00	r 02@maildrop.cc		User email * Please enter th	e email address	
demo003 d Role: User Email: demo00	emoCompany 03@maildrop.cc	Enabled	Profile photo		>
			Cancel	ned the owner's authori	

- 5. Service provider: select a sub-company this user belongs to
- 6. Role:



- a. If you are a system admin, you can select [System Admin]/[Installer Admin]/[Installer]/[End User].
- b. If you are an installer admin, you can select [Installer Admin]/[Installer]/[End User].
- c. If you are an installer, you can select [End User].
- d. When creating **Installer** accounts, you can choose the related plant but it is not mandatory.
- e. When creating **End User** accounts, it is mandatory to choose the related plant.
- 7. Username: enter the **Username** for the user.
- 8. User email: enter the user's **email** address.
- 9. Profile photo: set the profile photo if needed.
- 10. Check the **[box]** to confirm that you have obtained the owner's authorization.
- 11. Press the [Apply] button to create the account.

3.3.2.4 User Account Deletion

1. Choose a user account that you wish to delete and press on it.

12:51		ull 4G 7
Plants	Devices	Users +
Q Username		品 7
EndUser Inst Role: User Email: chydhu@16		Enabled
hossain.ad Role: System ad Email: 182172578	min	Enabled
hossaintest ⊢ I Role: System ac Email: hongyuan.	min	Enabled
	arm Manage	ement Me

- 2. You will be directed to the user information page, press the [...] button on the top right-hand corner.
- 3. Press [Delete user] button to delete the desired user account.



12:51	. 11 4G 2 2
<	hossaintest 1
Service provider	Disable account
Role	O Reset password
Username	2 Delete user
User email	hongyuan.chen@univers.com
Profile photo	2

4. Press [Delete] on the pop-up window to confirm the deletion.

12:5	1				11 4G	77
<		hossai	ntest			•••
Service	e provider				Un	ivers
Role				Syst	em a	dmin
Userna	ime			h	ossair	ntest
User e	mail	hor	igyuan.o	chen@ur	nivers.	.com
Profile	Delete	d accou red. Plea u want tr	ase cor o delet	nfirm if		Do.



3.3.2.5 User Account Disabling

1. Choose a user account that you wish to disable and press on it. You could perform a fuzzy search by the User Name to look for the user account.

1	2:51			4G 🔽
	Plants	Devices	Users	+
	Username		吊	7
F	EndUser Inst Role: User Email: chydhu@1		Ena	bled
F	nossain.ad Role: System ac Email: 182172578	lmin	Ena	bled
F	nossaintest Role: System ac Email: hongyuan.	lmin		bled
(H		â arm Ma	nagement	Me

- 2. You will be directed to the user information page, press the [...] button on the top right-hand corner.
- 3. Press [Disable account] button to disable the desired user account.



12:51	
<	hossaintest 1
Service provider	2 Disable account
Role	O Reset password
Username	Delete user
User email	hongyuan.chen@univers.com
Profile photo	2

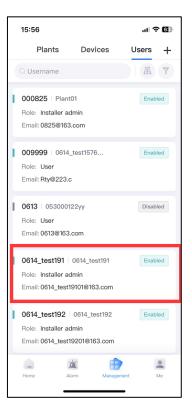
4. Press **[Yes]** on the pop-up window to confirm the disabling of the account. Disabled account is not able to login to the App. Support enabling back the disabled accounts.

12:	59	11 4G	76
<	hossai	ntest	
Serv	ice provider	Un	ivers
Role		System a	dmin
User	name	hossair	ntest
User	email hon	gyuan.chen@univers.	.com
Prof	The user will n log in. Please o want to dia accou	onfirm if you sable the	Do
	Cancel	Yes	



3.3.2.6 Password Resetting

1. Choose a user account that you wish to reset the password and press on it.



- 2. You will be directed to the user information page, press the [...] button on the top right-hand corner.
- 3. Press [Reset password] button to reset the user's password.



16:04			al S	F 62)
<	0614_test	191	1	•••
Service provider		🛈 Disa	able acc	count
Role	2	O Res	et pass	word
Username		편 Del	ete use	r
User email	06	14_test1	9101@16	3.com
Profile photo				0

4. Press **[Yes]** on the pop-up window to confirm the resetting of this user's password. A password reset email will be sent to this user's email.

12:	59			11 4G 🔽
<	h	ossaint	est	
Serv	ice provider			Univers
Role			S	System admin
User	name			hossaintest
User	· email	hongy	uan.chen@	@univers.com
Profi	The user log in. Pl			
	Cancel]	Yes	

3.3.2.7 User Account Editing

1. Choose a user account that you wish to edit and press on it.



	18:16		al S	87
	Plants	Devices	Users	+
	Q Username		吊	7
1	demo001 dem Role: Installer ad Email: demo001@	min	Enabl	ed
I	demo002 dem Role: Installer Email: demo002@		Enabl	ed
Email: demo002@maildrop.cc demo003 demoCompany Enabled Role: User Email: demo003@maildrop.cc				
	Home Ala		ament M	10

2. You will be directed to the user information page, press the **[Edit]** button at the bottom.

18:16	.11 🗢 🖽
<	demo002
Service provider	demoCompany
Role	Installer
Related Plant	
Username	demo002
User email	demo002@maildrop.cc
Profile photo	2
	Edit

3. You could edit the company and the plant for the user.



18:17	.ul 🗢 🖾
< Edit user	
Service provider * demoCompany	>
Role * Installer	>
Related Plant Select	>
Username * demo002	
User email * demo002@maildrop.cc	
Profile photo	>
I have obtained the owner's authoriz	zation.
Cancel Complete	

4. Tick the box after you have obtained the owner's authorization and press **[Complete]** to save the changes.

18:26	al S	ê 86
<	Edit user	
Service provide demoCompany	r*	>
Role * Installer		>
Related Plant Select		>
Username * demo002		
User email * demo002@mail	drop.cc	
Profile photo		>
Mave obtair	ned the owner's authorization.	
Cancel	Complete	

3.4 Residential Plant & Device Management

3.4.1 Device Onboarding & Residential Plant Setting Up

3.4.1.1 Setting Up on Commissioning App

To set up residential site and devices, user needs to use the mobile application **Commissioning App "HiSolar"** to connect the device to the Univers EMS.

Set up the device by following the steps below:

Step 4: The server is <u>modbusbroker.istore.net.au</u>, you may approach system administrator if it is not available; Port Number is **27250**.

Note: If connection fail, please try Port Number is 27251, and disable "TLS Encryption"

Step 5: The set up on Commissioning App is only completed the page is displayed with the **Connect to mgmt sys.**





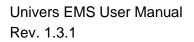
3.4.1.2 Setting Up on Univers EMS

Pre-requisite: You need disconnect from device Wi-Fi first, make sure your phone is connected to a public network, and then enter the Univers app.

After the setup is completed and successful on Commissioning App, you will have to set up the residential site and connect device on the Univers EMS Mobile Application.

1. Go to **[Home]** page and press the **[Plant Guide]** button.

-	-
10:03	,11 4G 2 8
Plants	Statistics
學· Plant Guide	온 Add Users
All Normal 2	Fault Offline 0 1
Q Plant name	品 7
📔 ആ Demo01	Offline
Plant Operation State: Capacity: 10.00 kW Production Today:k Active Power:kW	
Demo site02	Normal
Plant Operation State: Capacity: 200.00 kW Production Today: 7.01 Active Power: 0.73 kW	
Demo Site	Normal
Plant Operation State: Capacity: 15.00kW Production Today: 11.7	
Home Alarm	Management Me





- 2. Connect the device through pressing [Scan the QR code of the device] or pressing [Enter the SN number of the device].
 - a. For the Connectivity Scenario with Dongle, you could scan the QR or enter SN of Dongle device, or scan the QR or enter SN of Inverter device.
 - b. For the Connectivity Scenario without Dongle, you could scan the QR or enter SN of Inverter device.

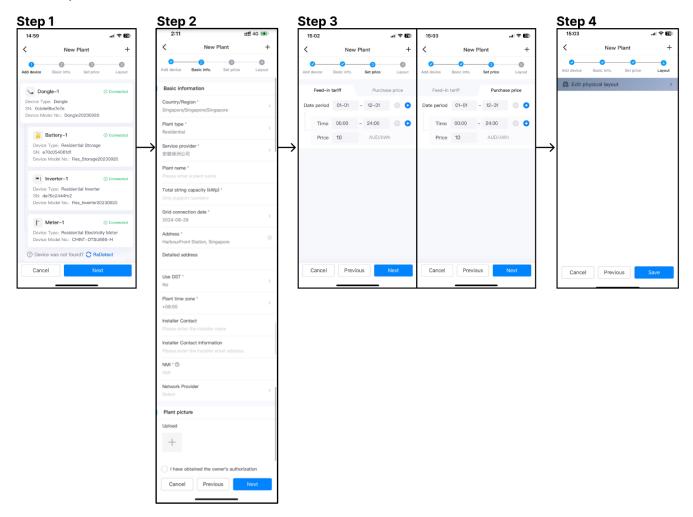




3. After you have scanned the QR code or entered the SN of the device, press [Add to new plant] to the plant setup one-stop process.

14:58	.ıl 🕈 🔯
Plants	Statistics
🖳 Plant Guide	은 Add Users
All Normal 1,707 5	Faulty Offline 7 1,695
	品 7
Image: logger001 Plant Operation State: O Capacity: 200.00 kW Production Today:kW Active Power: 0.00 kW Image: logger001 Image: logger001 Plant Operation State: O	ħ
Capacity: 100.00 kW Please select create a existing	
Add to n	ew plant
Add to exi	sted plant
Car	icel
2	_

- EnOS
- 4. You will be directed New Plant page to add in the devices to the new plant. Here are the steps:



Step 1: Add device.

- 1. Devices under a group of networking will be automatically connected, this process probably take a while.
- 2. Check the devices you have added in. When status of all devices is "Connected", this step is finished.
- 3. If not all devices are displayed on the page, you could press **[ReDetect]** to refresh the device list. A pop-up window will appear, showing that the system is redetecting the device. You could press [OK] or wait on the page as the process could take a while. Then the newly detected device list will appear.
- 4. Press [Next].

Step 2: Basic info.

- 1. Fill in the basic information of the new plant:
 - Country/Region: If you allow App access your location, App will automatically recognize corresponding Country/Region, Province and City



and then you also could change manually. If you do not allow, you need select the respective country, province, and city. Please ensure Country/Region, Province and City are filled in.

- **Plant type**: select the corresponding plant type, default is Residential.
- Service provider: select a company that this plant belongs to and to add this new plant.
- Plant name: enter a plant name.
- Total string capacity (kWp): enter the total string capacity of the plant.
- Grid connection date: select a grid connection date, default date is today.
- Address: enter the address of this plant.
- **Use DST**: if this site's region in using Daylight Saving Time(DST), select "Yes", otherwise it should be "No".
- Plant time zone: App could automatically recognize time zone according to Country/Region and you also could manually select a time zone for the this site.
- Installer Contact (optional): enter the installer name.
- Installer Contact Information (optional): enter the installer contact information.
- NMI: enter the NMI*.
 *NMI is an eleven-character identifier assigned by Local Network Service Providers.
- Network Provider (optional): select the network provider, for Australia, you can find the network provider from the area group.
- Plant picture(optional): Upload a plant picture by pressing the + button.
- 2. Press [Next].

Step 3: Set price.

- 1. Feed-in tariff: adjust the Date period and time if necessary and fill in the corresponding price.
- 2. Purchase price: adjust the Date period and time if necessary and fill in the corresponding price.
- 3. Press [Next].

Note:

- There should be no overlap between the date segments, and it should cover the whole year from January 1st to December 31st.For each date segment, all time segments cannot overlap and must cover 00:00 to 24:00 of a day.
- This step could be skipped, and it support to configure in plant detailed page later, but if Electricity Price not been configured, Revenue will not be calculated.

Step 4: Layout.

1. If the plant is not equipped with an optimizer, you can press **[Submit]** to create the plant without setting the Layout.



After completing the four steps above, a message is displayed indicating that the plant is created successfully.

11:23			al 🕈 🔟
<	New P	lant	+
Add device	Basic info.	Set price	4 Layout
品 Edit ph	nysical layout		>
			_
	Plant creation	successful.	
Ľ			
Cancel	Previou	IS	Save

5. You will have this plant permission and conduct Management and Monitoring.

3.4.2 Power Plant Management

Residential Plant Management page provides a list of connected plant under the user's authority. The user can create, edit, and delete plant.

Each plant card on the Plant Management page provides information such as name, address, capacity, contact, and commissioning Date.

To go to page, press [Management] and switch to the [Plants] tab.



Plants Devices	1 4G 7
	Users
Q Plant name	R
😎 Demo01	
◎ 1 HarbourFront Ave, Keppel Bay To	ower, Singapo
Capacity: 10.00kW Contact:	
Commissioning Date: 2024-01-18	
Demo site02	
I HarbourFront Ave, Keppel Bay Tow Capacity: 200.00kW	ver, Singapo
Capacity: 200.00kW Contact:	
Commissioning Date: 2024-01-18	
🖛 Demo Site	
 291b Sengkang E Ave, Singapore 5 	40070
Capacity: 15.00kW	140210
Contact:	
Commissioning Date: 2023-12-01	

3.4.2.1 Device Adding

Make sure you have connected the device through the Commissioning App. Please refer to the section <u>Set up on Commissioning App</u> for more information.

If you want to add the devices to **a new plant**, follow the instructions described in the section <u>Set up on Univers EMS</u>.

If you want to add the devices to **an existing plant**, follow the either of the two methods described below:

Method 1:

1. Go to [Plant Management] page and press the plant that you want to add device.



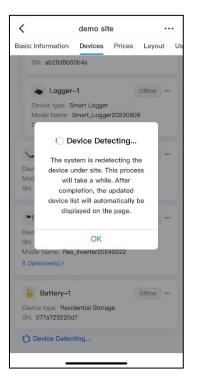
11:23		att.	4G 76
Plants	2 Devices	Users	
Q Plant nam			R
Demo	01		
	ont Ave, Keppel Bay	Tower, Singapo	
Capacity: 10.0 Contact:	JKVV		
	g Date: 2024-01-18		
Demo	site02		
	ant Ave, Keppel Bay To	ower, Singapo	
Capacity: 200.	DOKW		
Contact:	Date: 2024-01-18		
Commissioning	1 Date: 2024-01-10		
🚍 Demo	Site		
O 291b Sengk	ang E Ave, Singapore	540270	
Capacity: 15.0	JKW		
Contact:			
Commissioning	g Date: 2023-12-01		
	iái I		
Contraction of the local distance of the loc	Alarm Ma	Contraction ()	

- 2. Press the [Device] tab.
- 3. Press [ReDetect] button to add the new device to the plant.

<	demo sit	te		
Basic Information	Devices	Prices	Layou	t Us
SN: ab28d8b50	Db4a			
Logger- Device type: Sr Model Name: S SN: a6f590ec2	mart Logger Smart_Logge		Offline	
Dongle-1 Device type: Dong Model Name: Dong SN: 621b19b1bada	gle2024022	2	Offline	
Inverter-1			Offline	
Device type: Resid SN: 73db3f986500 Model Name: Res_ 5 Optimizer(s) >	C			
Battery-1 Device type: Resid SN: 077a729220d		ge	Offline	
⑦ Device was no	ot found?	C ReDet	ect	

4. A pop-up window will appear and showing that the system is detecting the device. You can press **[OK]** to close the pop-up window. Or you could wait on this page.

EnOS



- 5. Once the new device is detected, it will appear in the device list.
 - < demo site ... Basic Information Devices Prices Layout Us Songle-998 Online ... Device type: Dongle Model Name: Dongle20240201 SN: 1eff6845948f Inverter-998 Operating ... Device type: Residential Inverter SN: e44f10bdf41f Model Name: Res_Inverter20240201 Battery-998 Operating … Device type: Residential Storage SN: 149c79481ef3 T Meter-998 Online ··· Device type: Residential Electricity Meter Model Name: WEG-MMW03-M22CH SN: a956cab32b75 Songle-1 Offline ···· Device type: Dongle Model Name: Dongle20230809 SN: 3dd907645efc

Method 2:

1. Go to [Home] page and press the [Plant Guide] button.

EnOS

10:03			.11 4G (72)	
Plant	s	Statistics		
里 Plant ●	Guide	은 Ad	d Users	
All 3	Normal 2	Fault 0	Offline 1	
			吊 7	
) 🦔 Demo	501		Offline	
Capacity: 1	Today: kW			
📔 🚛 Demo	o site02		Normal	
Capacity: 2	Foday: 7.01k			
) 🦛 Demo	o Site		Normal	
Capacity: 1	tion State: N 5.00kW Today: 11.771			
	ini.			



- 2. Connect the device through pressing [Scan the QR code of the device] or pressing [Enter the SN number of the device].
 - a. **Please Note:** scan the QR code or enter SN of parent device, such as, add a meter under a existed site, please operate as following:
 - i. For the Connectivity Scenario with Dongle, you could scan the QR or enter SN of Dongle device, or scan the QR or enter SN of Inverter device.
 - ii. For the Connectivity Scenario without Dongle, you could scan the QR or enter SN of Inverter device.

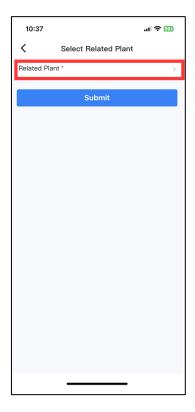
14:53	.11 🗢 💷
Plants	Statistics
學 Plant Guide	<mark>옫</mark> Add Users
All Normal 6	Faulty Offline 7 1,694
	日 日 7
Plant Operation State: Or Capacity: 200.00kW Production Today:kW Active Power: 0.00kW	
Plant Operation State: O Capacity: 100.00 kW Production Today:kW Please select a device	'n
Scan the QR co	de of the device
Enter the SN	of the device
Car	icel



3. After you have scanned the QR code or entered the SN of the parent device, new device will be auto detected, press **[Add to existed plant]** to add the device.

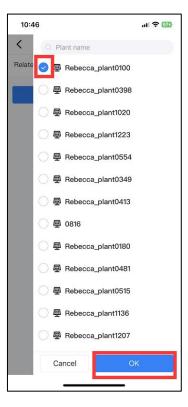


4. You will be directed to the Related Plant page where you need to choose a desired plant to add this device by pressing the **[Related Plant].**





5. Select a plant and press [OK].



6. Press **[Submit]** to complete adding the device.





7. You will be directed to the Devices tab under the plant you have chosen, where you can see that the new device have been added to the desired plant.



8. If not all devices are displayed, press [ReDetect] button to refresh the device list.





3.4.2.2 Plant Editing

1. Choose a desired plant that you want to edit from the Plants tab on the Management page.



- 2. Press on the plant and you will be directed to the details page of the chosen plant.
- 3. Press on the [Edit] button under Basic Information tab if you want to edit the basic information of the plant.



11:06			배 수 😡
<	Rebecca_pla	nt1110	
Basic Informat	ion Devices	Prices	Layout
Country/Regio China/Shangh	on * ai/Shanghai Mu	nicipality	
Plant type * Residential			
Plant name * Rebecca_plan	t1110		
Total string ca 509	apacity(kWp) *		
Grid connectio 2023–06–07	on date *		
Address *	Hai Shi, Huang Edit	Ри Он. 222	O

- 4. Edit the relevant information:
 - **Country/Region**: If you allow App access your location, App will automatically recognize corresponding Country/Region, Province, and City and then you also could change manually. If you do not allow, you need select the respective country, province, and city.
 - **Plant type**: select the corresponding plant type.
 - Service provider: select a company that this plant belongs to and to add this new plant.
 - Plant name: enter a plant name.
 - Total string capacity (kWp): enter the total string capacity of the plant.
 - Grid connection date: select a grid connection date, default date is today.
 - Address: enter the address of this plant.
 - Use DST: select whether you want to use DST.
 - **Plant time zone**: App could automatically recognize time zone according to **Country/Region** and you also could manually select a time zone for the plant.
 - Installer Contact (optional): enter the installer name.
 - Installer Contact Information (optional): enter the installer contact information.
 - NMI: enter the NMI*.
 *NMI is an eleven-character identifier assigned by Local Network Service Providers.
 - Network Provider (optional): select the network provider, for Australia, you can find the network provider from the area group.
 - Plant picture(optional): Upload a plant picture by pressing the + button.



5. Press [Save].

11:06			.ıl 🕆 9
< Reb	ecca_plar	nt1110	
Basic Information	Devices	Prices	/
Country/Region * China/Shanghai/	Shanghai	Municipa	> ality
Plant type * Residential			>
Plant name * Rebecca_plant1110			
Total string capacit 509	ty(kWp) *		
Grid connection da 2023–06–07	te *		>
Address *			0
China, Shang Hai	i Shi, Huar	ng Pu Qu Save	, ©

6. You can edit the Prices as well by pressing [Edit] button under the Prices tab.

11	:10				.ıl 🕆 😡
<		Reb	ecca_pla	nt1110	
Basic	Informa	tion	Devices	Prices	Layout
	Feed-in 1	tariff		Purchas	e price
Date	e period	01–	-01 - 12-	-31	
	Time	00:	00 - 24	1:00	
1000	Price		CNY/kV	Vh	
			Falit		
			Edit		
		1		5	

7. Edit relevant Feed-in tariff or Purchase price:



- Feed-in tariff: adjust the Date period and time if necessary and fill in the corresponding price.
- Purchase price: adjust the Date period and time if necessary and fill in the corresponding price.

Note: Feed in tariff and Purchase price will check the two electricity prices at the same time, and there should be no overlap. between the date segments, and it should cover the whole year from January 1st to December 31st. For each date segment, all time segments cannot overlap and must cover 00:00 to 24:00 of a day.

8. Press [Save].

11	:10				.ıl 🗢 💷
<		Rebec	ca_pla	ant1110	
Basic	Informat	tion D	evices	Prices	Layout
	Feed-in t	ariff		Purcha	se price
Date	e period	01–01	-	12-31	00
	Time	00:00	-	24:00	• •
	Price			CNY/kW	/h
	Cancel			Save	

3.4.2.3 **Plant Deletion**

Pre-requisite: You only can delete a plant if there are no devices under this plant.

1. Choose a desired plant that you want to edit from the Plants tab on the Management page.



11:03	_	al 3	99
Plants	Devices	Users	•••
Q 1110	•	0	吊
Capacity: 509.00 Contact:	Hai Shi, Huang Pu Qu, JKW	, ?????? ???	
Commissioning I	Date: 2023-06-07		
		-	
	<u>i</u>		

- 2. Press on the plant and you will be directed to the details page of the chosen plant.
- 3. Press on the [...] button on the top right-hand corner and press [Delete plant].

11:20 <	ा। रू Rebecca_plant1110	99
Basic Infor	mation 22es 😨 Delete plan	nt
Country/Re China/Sha	egion * nghai/Shanghai Municipality	
Plant type Residentia		
Plant name Rebecca_p		
Total string 509	g capacity(kWp) *	
Grid conne 2023–06–	ection date * 07	
Address * China, Sha	ng Hai Shi, Huang Pu Qu, ?????	0
	Edit	

4. Press [Delete] on the pop-up window to confirm the deletion.



11:19			비 중 199
< Re	ebecca_pla	nt1110	
Basic Information	Devices	Prices	Layout
4		μ	
Country /Poston *			
China	ed device c	annot be	
	red. Are you want to dele		u
Plant Canc Rebet	el	Delete	
Total string capa 509	city(kWp) *		
Grid connection of 2023-06-07	late *		
Address *			-
China, Shang Hai	Shi, Huang F Edit	20 Qu, ???	P??? ⊙
-		_	

3.4.3 Device Management

Device Management page provides a list of connected devices under the user's permission. The user can edit, remote control, and parameter settings for the devices.

Each device card on the Device Management page provides information such as name, asset type, SN, model name, plant name, and the status of the device.

To go to page, press [Management] and switch to the [Devices] tab.

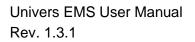


10:08		11 4G 72
Plan 2	Devices	Users ····
Q Device Name o	r SN	品
Dongle–1 Asset Type: Dong SN: 4adb15feda3(Model Name: Don Plant name: Demo) gle20240118	Offline
Dongle–1 Asset Type: Dong SN: 164a5988797 Model Name: Don Plant name: Demo	7 gle20231127	Online
Asset Type: Dong SN: 257d01f78c06 Model Name: Don Plant name: Demo	6 gle20240118	Online
Inverter-1 Asset Type: Resid SN: 3dae40a5204	4	Offline
Home Ala	0	

3.4.3.1 Device Remote Controlling

- 1. Go to the [Management] page and switch to the [Devices] tab.
- 2. Choose a device that you wish to control remotely. You could perform a fuzzy search by device name and or a exact search by SN to look for the device.

10:15		atte	4G 78
Plants	Devices	Users	
Q Device Name	or SN		吊
Asset Type: Resi SN: 3dae40a520 Model Name: Re Plant name: Dem	dential Inverter 44 s_Inverter20240		fline
Asset Type: Resi SN: 89cf01c9e1d Model Name: Re Plant name: Dem	dential Inverter ic s_Inverter202311	Opera 27	ating
	io Site		
Inverter-1 Asset Type: Resi SN: c0a8de80d1 Model Name: Re Plant name: Dem	0 dential Inverter a6 s_Inverter20240'		fline
Asset Type: Resi SN: c0a8de80d1: Model Name: Re	0 dential Inverter a6 s_Inverter20240 to site02 dential Electricit B-A44	118	fline





- 3. You will be directed to the device information page, press the [...] button on the top right-hand corner.
- 4. Press [Device control] button to control the device remotely.

10:16	, 11 46 78	
<	Inverter-1 1	
2	E Device control	
	{x} Parameter Settings	
	Delete device	
Device Name or SN Inverter-1		
Asset Type Residential Inverter		
SN 89cf01c9e1dc		
Registration Code		
Model Name Res_Inverter202311	27	
Version v1.0.20231127		
Plant name Demo Site		
	Edit	

5. You will be directed to the Device control page where you can select a mode for the desired device.



10:16		atl 46 78
<	Device co	ontrol
Device N	ame or SN	Inverter-1
SN		89cf01c9e1dc
opera	e be careful for re	note control
O Reset The c execu	evice will be reset	after the command is
	Reset	

- 6. For **Inverter**, there are three control modes to the device:
 - a. [Start up]: Control the device to send the startup command.
 - b. [Shut down]: Control the device to send the shutdown command.
 - c. [Reset]: Control the device to send the reset command.



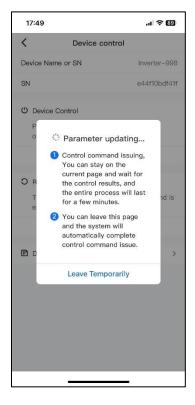
16:45		.11 🗢 🖸
<	Device control	
Device name	Э	Dongle-1
SN		d55c2d1af986
O Reset The devi executed	ce will be reset after the	e command is
	Reset	

- 6. For **Dongle**, there is only one control mode to the device:
 - a. [Reset]: Control the device to send the reset command.
- 7. Choose a mode by pressing the desired mode button.
- 8. Double confirm the action.





- 9. When the control command is sent to the device, the user can choose to:
 - a. wait on the current page or
 - b. leave temporarily and come back to the page later



10. If the user chooses to wait on the current page, the update might take a few minutes. After the control is sent, the pop-up window will show that the message: Command Issued Successfully/Command Issued Unsuccessfully as shown below.



17:49		al † 89
<	Device (control
Device N	ame or SN	Inverter-998
SN		e44f10bdf41f
Pleas	e Control e be careful for r ations.	remote control
S	art up	Shut down
O R T e	Comman Unsucc	
	O	< Contract of the second secon
Devic	e Control Log	(1) >

11. If the user chooses to leave temporarily, the user can come back to the Device Control page later to check the Device Control Log for the status.

17:49	u \$ 60	17:49 .u 🕈 🗐
< Device c	ontrol <	Device Control Log
Device Name or SN SN C Device Control Please be careful for re operations. Start up O Reset The device will be reset executed.	Shut down	 Start up 2024–02–06 17:49:40 Command Issued Unsuccessfully Reset 2024–02–06 17:47:48 Command Issued Unsuccessfully Start up 2024–02–06 17:47:34 Command Issued Unsuccessfully
Rese	t >	



3.4.3.2 Device Parameter Setting

- 1. Go to the [Management] page and switch to the [Devices] tab.
- 2. Choose a device that you need to set the parameter.

For **dongle**, you can modify the operation mode and working mode.

For **inverter**, you can modify the power parameters, operation mode, characteristic parameters, and other parameter settings.

For **battery**, you can modify the charge and discharge mode, charge and discharge power and other parameter settings.

For **meter**, you can modify the meter direction.

10:15		.11 4G 78
Plants	Devices	Users ····
Q Device Name	or SN	品
Asset Type: Res SN: 3dae40a520 Model Name: Re Plant name: Den	idential Inverter)44 s_Inverter20240	Offline
Asset Type: Res SN: 89cf01c9e1c Model Name: Re Plant name: Den	idential Inverter Ic s_Inverter20231	Operating
Asset Type: Res SN: c0a8de80d1 Model Name: Re Plant name: Den	idential Inverter a6 s_Inverter20240	Offline
Meter-10 Asset Type: Res Model Name: AE Plant name: Den	B-A44	Online ty Meter
	larm Manag	ement Me

3. You will be directed to the device information page, press the [...] button on the top right-hand corner and then press [Parameter setting] button.



10:16	uli 46 78
<	Inverter-1 1 ····
	E Device control
2	{x} Parameter Settings
	Delete device
Device Name or SI Inverter-1	1*
Asset Type Residential Inverte	
SN 89cf01c9e1dc	
Registration Code	
Model Name Res_Inverter20231	27
Version v1.0.20231127	
Plant name Demo Site	
	Edit

4. You will be directed to the Parameter Setting page where you can update the parameters of the selected device.

11:11		ull 4G 🌠
<	Parameter Setting	
Grid Para	ameters	
Grid Code	• ⑦	
Select		>
Protectio	on Parameters	
Feature_	Parameters	
AFCI		
Select		>
Off-grid N	Node	
Select		>
Power A	djustment	
Remote P	ower Schedule	
Select		>
Active pov	ver percentage derating	
22		%

5. Please set the parameter value according to the threshold range and prompt description of the parameter as shown in the example below.

EnOS

10:35		al 🗢 🚥
<	Parameter Setting	
Select		>
Off-grid I	Mode	
Select		>
Power A	djustment	
Remote F	ower Schedule	
Select		>
Active po	wer percentage derating	
		%
Reference v	ralue: [-100.0, 100.0]	
Max. acti	ve power	
		kW
Reference v	value:	
Active P	ower Control	
Active Po	wer Control Mode	
Select		>
	Issued	

6. Update the preferred parameters and press [Issue].

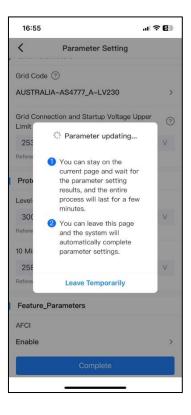
11:12		.11 4 G 7
<	Parameter Setting	
Grid Param	neters	
Grid Code (?	
Select		>
Protection	Parameters	
Feature_Pa	arameters	
AFCI		
Select		>
Off-grid Mo	de	
Enable		>
On-grid/Off	-grid switch mode	
Select		>
Backup pow	ver SOC	
		%
Reference value	e: [0.0~100.0]	
	Issue	

7. Double confirm the update by pressing the Confirm button.

EnOS



- 8. When the parameter is updating, the user can choose to:
 - a. wait on the current page or
 - b. leave temporarily and come back later to check the parameter.





 If the user chooses to wait on the current page, the update will take a few minutes. After the parameter is updated, the pop-up window will show that the message:
 Command issue completed as shown below.

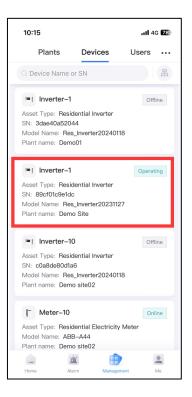
16:52		? ₿
<	Parameter Setting	
Grid Para	ameters	
Grid Code	0	
AUSTRAL	_IA-AS4777_A-LV230	>
Grid Conn Limit	ection and Startup Voltage Upper	0
253		V
Reference	ana 1000 910 81	
Prote	Command issuse completed.	
Level		-
300	ОК	V
Reference va	alue: [230,345]	
10 Minute	OV Protection (?)	
258		V
Reference va	alue: [230,345]	
Feature_	Parameters	
AFCI		
	Complete	

10. If the user chooses to leave temporarily, the user can come back to the parameter setting page later after 5mins, if parameter was set successfully, the parameter value will be updated.

3.4.3.3 Device Editing

- 1. Go to the [Management] page and switch to the [Devices] tab.
- 2. Choose a device that you wish to delete.

EnOS



3. You will be directed to the device information page, press the **[Edit]** button on the bottom of the page.

16:03		
<	Inverter-1	•••
Device Name or Inverter-1	SN *	
Asset Type Residential Inver	ter	
SN 89cf01c9e1dc		
Registration Cod	le	
Model Name Res_Inverter202	31127	
Version v1.0.20231127		
Plant name Demo Site		
	Edit	

4. Change the name of the device and press [Save].



16:03		al 🗟 🗹
<	Inverter-1	
Device Name of Inverter-1	or SN *	
Asset Type Residential Inv	erter	
SN 89cf01c9e1dc		
Registration C	ode	
Model Name Res_Inverter20	231127	
Version v1.0.20231127		
Plant name Demo Site	2	
Cancel	Save	9

5. The edited information will be saved.

3.4.3.4 **Device Deletion**

- 1. Go to the **[Management]** page and switch to the **[Devices]** tab.
- 2. Choose a device that you wish to delete.



10:15		.all 4G 🖬	
Plants	Devices	Users	
Q Device Name	or SN	品	
Inverter-1 Asset Type: Resi SN: 3dae40a520 Model Name: Re Plant name: Dem	dential Inverter 44 s_Inverter202401	Offline	
Inverter-1 Asset Type: Resi SN: 89cf01c9e1d Model Name: Re Plant name: Dem	dential Inverter c s_Inverter202311	Operating]
Asset Type: Resi SN: c0a8de80dfi Model Name: Re Plant name: Dem	dential Inverter a6 s_Inverter202401	Offline	
	B-A44		

3. You will be directed to the device information page, press the [...] button on the top right hand corner and then press [Delete device] button.

10:16			11 4G	78
<	Inverte	er–1	0	••••
	â	Device of	control	
	{x}	Paramet	er Setting	js
2	Ū	Delete c	evice	1
Device Name or Inverter-1	SN *			
Asset Type Residential Invert	ter			
SN 89cf01c9e1dc				
Registration Cod	e			
Model Name Res_Inverter2023	31127			
Version v1.0.20231127				
Plant name Demo Site				
	Edi	t		

4. Press [Delete] on the pop-up window to confirm the deletion.



11:17			1	4G 77	
<	Invert	er–1			
		•			
	Name or SN *				
Inverter	-1				
Asset T	уре				
Resid					
	Deleted device cannot be				
SN	recovered. Are want to		e you		
89cf(want to	ueleter			
Regis		-	_		
	Cancel	De	ete		
Model N					
Res_Inv	erter20231127				
Version					
	v1.0.20231127				
Plant na	ame				
Demo S	Demo Site				

3.5 Residential Plant & Device Monitoring

3.5.1 Plant Monitoring

Plant Monitoring module provides an overview of plant information under the user's authority. The user can view basic information, statistics, devices of the plants.

After the connection is completed, please wait for 5-10 minutes to see the real-time data displayed in Monitoring. The real-time data will be collected from the device to the cloud at the collection frequency of 5 minutes.

3.5.1.1 Single Plant Monitoring

1. On **[Home]** page under **[Plants]** tab, view the list of plants under the user's permission.



	Statistics	ffline 1
All 3 Normal 2 Pau 0 Q Plant name Demo01 Plant Operation State: Offline Capacity: 10.00kW Production Today:kWh Active Power:kW Demo site02 Plant Operation State: Normal Capacity: 200.00kW Production Today: 9.87kWh Active Power: 0.00kW	t o	ffline 1
3 2 0 Q Plant name Plant Operation State: Offline Capacity: 10.00kW Production Today:kWh Active Power:kW Demo site02 Plant Operation State: Normal Capacity: 200.00kW Production Today: 9.87kWh Active Power: 0.00kW		1
Demo01 Plant Operation State: Offline Capacity: 10.00kW Production Today:kWh Active Power:kW Demo site02 Plant Operation State: Normal Capacity: 200.00kW Production Today: 9.87kWh Active Power: 0.00kW	品	7
Plant Operation State: Offline Capacity: 10.00kW Production Today:kWh Active Power:kW Demo site02 Plant Operation State: Normal Capacity: 200.00kW Production Today: 9.87 kWh Active Power: 0.00 kW		
Capacity: 10.00kW Production Today:kWh Active Power:kW Demo site02 Plant Operation State: Normal Capacity: 200.00kW Production Today: 9.87kWh Active Power: 0.00kW	0	ffline
Plant Operation State: Normal Capacity: 200.00kW Production Today: 9.87kWh Active Power: 0.00kW		
Capacity: 200.00 kW Production Today: 9.87 kWh Active Power: 0.00 kW	No	ormal
🚎 Demo Site		
	No	ormal
Plant Operation State: Normal Capacity: 15.00kW Production Today: 29.16kWh		
iii iii		-

- 2. Enter the plant details page.
- 3. **[Overview]** tab: view the basic information of the plant and the display of the energy flow diagram.
 - 1) Display the photos of the plant, real-time operation status, the address of the plant, real-time weather data.
 - 2) Displays the core indicator data of daily production, daily revenue, daily, monthly, annual and life cycle production of the plant.
 - 3) Energy Flow Diagram:
 - i. show the real-time energy flow diagram of the plant.
 - ii. energy flow direction
 - iii. real-time operating power: PV production power, storage charge and discharge power, house load power, on-grid, and off-grid power.
 - iv. display the real-time status of the inverter, storage (if any), green colour represents Operating, yellow represents Standby, red represents Fault.
- You could dropdown to refresh page and displayed data.



9:41				l 🕆 🔳
<	Envisior	n Digital S	Solar Site	
A No cor	nection over	20 minutes		>
Overview	Statistic	s Layou	It Device:	S
Norma				
No. 7 South	on Digital 68, Zhongsha h 1st Road cast Sky 12°C	an South 1st		T.
	99 kWh ield today		44.5 Revenue te	
1.24 м	s month Y Wp 6	120.0 kWh	r Total 0.86	
99% 0.21 ww Batte	? , ·	Solar 0.325) →-()	贵 0.187

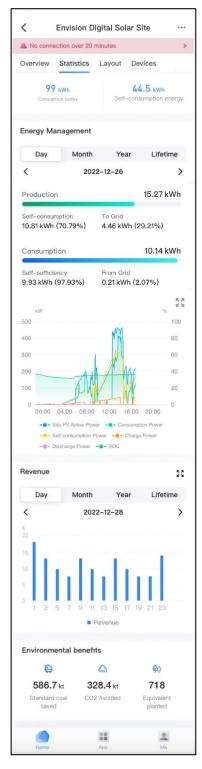
- 4. [Statistics] tab: view the statistics data and chart display under the plant:
 - 1) The Metrics of total daily consumption and self-consumption.
 - 2) Under energy management, you can view the Production and Consumption data under the day dimension, as well as the Site PV Active Power, Consumption Power, Self-consumption Power, Charge Power, Discharge Power and SOC in the graph display. For month, year and lifetime dimension, you will able to view the Production and Consumption data, as well as the graph of Production, Consumption, Self-consumption, Charge and Discharge. You can move your two fingers to expand or shrink the size of the graph.

Graph Data	Description
Site PV Active Power	The amount of electrical power being actively generated by a photovoltaic (PV) system installed at the site.
Consumption Power	The amount of electrical power consumed by the site.

Self-consumption Power	The portion of the electricity generated by a renewable energy system, such as solar panels, that is consumed on-site rather than being exported to the grid.
Charge Power	The rate at which energy is supplied to a battery or energy storage system during the charging process.
Discharge Power	The rate at which energy is released or drawn from a battery or energy storage system during the discharging process.
SOC	"SOC" stands for State of Charge. The current level of charge stored within the battery, expressed as a percentage of the total capacity

- 3) Revenue of the plant is displayed in bar charts which can be viewed in the dimension of day, month, year or life period.
- 4) Environmental benefit metrics in lifetime: standard coal saved, CO2 Emissions Avoidance and Equivalent tree planted are displayed.

EnOS



- 5. [Device] tab: view all the devices connected to the plant.
 - 1) Showing all the device cards with the name, SN, type and operating status.
 - 2) Clicking on the specific device card, It will the basic information, real-time information and historical information of the specific device

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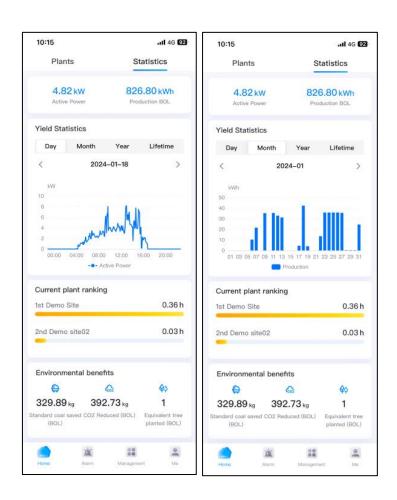


3.5.1.2 Cross Plant Monitoring

Cross Plant Monitoring display the statistical results of data from all authorized plants under the user.

- 1. On **[Home]** page under **[Statistics]** tab, view cross plant statistics data.
- 2. The total active power and production BOL data of all the plants under the user's authority is calculated. Yield statistics are graphically displayed according to the dimensions of day, month, year, and life cycle. Active power graph is displayed under the day dimension, while production graph is displayed under the month, year and lifetime dimension. Plants are ranked according to the utilization hours. And the total environmental benefits are displayed.

EnOS



3.5.2 Device Monitoring

Device Monitoring module is designed for the user to monitor the devices under his/her authority. The user is able to view basic information, real-time information and history data of the selected device.

- 1. To visit the module, go to **[Home]** page **[Plants]** tab, choose and press on a plant to enter the plant details.
- 2. Switch to [Devices] tab to view the list of devices.

3.5.2.1 Device List

A list of devices under the selected plant is displayed. Device basic information is shown on each device card. You can also filter the devices according to the device type as shown below:



4:16	5		::: !! 4G 🔳
<	Der	mo site02	
A High St	ring Input Volta	ge	>
Overvi	ew s	Statistics	Devices
All (4)	Inverter (1)	Battery (1)	Electricity Met
Asset Ty	ongle-1000 /pe: Dongle 7d01f78c06		Online
Asset Ty SN: c0 Active P	verter-10 /pe: Inverter a8de80d1a6 /ower: 0.000 k ion Today: 35		Operating
Asset Ty	leter-10 /pe: Electricit /ower: -2.01k		Online
Asset Ty SOC: 2 Daily Ch	arging Energy:	10.77 kWh gy: 10.44 kWh	Operating

3.5.2.2 Device Details

- 1. By pressing onto a device on the Device List, you will be directed to the Device Details page.
- 2. Basic Information Tab: displays the device name, asset type, SN, registration code, model name, version, and plant name.





3. History Information tab: you can view the history information of the device by selecting the signal type, signal point name and the date.

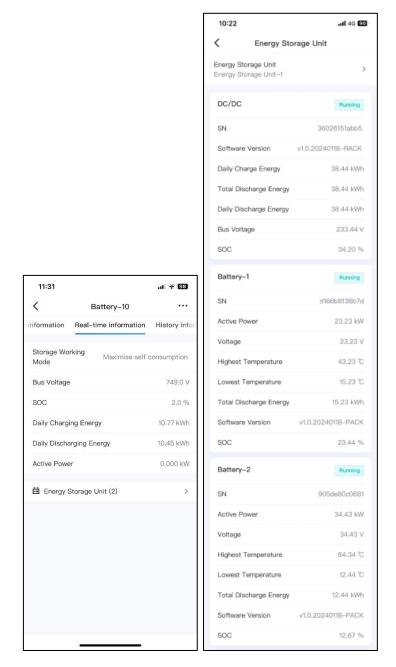
16	:08	ul 🗢 🖾
<	Inverter-	1
tion	Real-time information	History information
	nal type tage(V)	>
	nal point name hase Voltage	>
	ect Date 13-10-04	>
	No search re	sult

- 4. Real-time Data tab:
 - a) Inverter: real-time data such as DC input, AC output, active power, internal temperature, inverter efficiency, production (today) etc. are displayed

16:08			ull 🗢 🖾
<	Inverter-1		
formation	Real-time informat	ion Hi	story inform
DC Input			
	String Voltage(V)	String C	urrent(A)
PV1	-	-	-
AC Output			
	Power voltage (V)	Grid cu	iment (A)
А		2	<u>19</u> 2
В	1000	17	
С	1000	17	17 1
Active Pov			kW
ACTIVE POV	ver		KVV
Internal Te	emperature		°C
DC Input F	ower		kW
Inverter Ef	ficiency		
Production	n (Today)		kWh
Reactive P	Power		kVar
Power Fac	otor		-



b) Battery: real-time information such as working mode, bus voltage, SOC, daily charging/discharging energy, active power is displayed. You can press the [Energy Storage Unit] to view the real-time information of the storage unit and battery pack.



c) Meter: real-time information such as active power, active energy exported/imported is displayed.



11:33		ul 🗟 🔞
<	Meter-10	
information	Real-time information	History infor
Active Powe	er	0.93 kW
Meter Read Total	Active Energy Exported-	4933.31
Meter Read Total	Active Energy Imported-	5618.50

d) Dongle: real-time data of the dongle state is displayed.

11:34		
<	Dongle-10	•••
Basic information	n Real-ti	me information
Dongle State		Online
-		-

3.6 Alarm Management

3.6.1 Alarm List

On the **[Alarm]** tab, it displays all the active alarms. The fault information of all devices under the managed plant are summarized. The alarm is divided into four levels: Fault, Warning, Info and Collapse. The fault level is marked in red; the alarm severity is marked in yellow, the grey sign is used for info, and the brown sign is used for collapse.

On each alarm card, it will display the alarm, device name, plant name, alarm type and the time of occurence of the alarm.

Users can search the alarm by the alarm description or code, and filter the alarm according to the alarm type, device type, time range and/or the status (Acked or not) of the alarm.

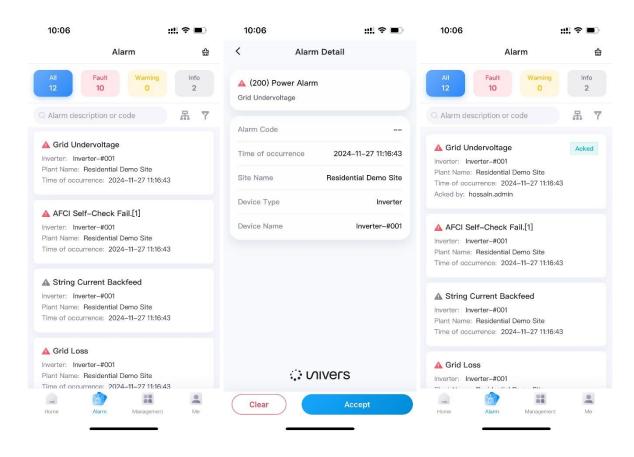
6:49		n# 4	ig 🗊	12:12	::!! 4G 🔳
All Fault	Alarm	Info	Colla		Alarm Type
9762 87	4745	61	4869		Selfdefinetype
Q Alarm descrip	ition or code	l	R 7	Q Alarm	(201) Monitor Alarm
A Battery abr Inverter: Inverte Plant Name: Ro	r(NS23BG01934	2.000			(200) Power Alarm
Time of occurrer	nce: 2024-11-18	14:52:55			Device Type
🛕 Abnormal F	V module cor	figuration			Inverter
Inverter: Inverte Plant Name: Sm Time of occurrer	art LoggerTest B				Battery
		S. 032	1.35		Water Heater
Active Adju Inverter: Inverte Plant Name: Sm Time of occurrer	r–2 art LoggeriTest E	Bench 4–2	rmal		Time Range
					StartTime
A Battery abr					EndTime
Plant Name: Dor tery)	(75)		er+bat		EndTime
		n7-20-08	0 M0	Home	Complete

3.6.2 Alarm Detail

Users can click each alarm to see the alarm details. Alarm code, time of occurrence, site name, device type and device name will be displayed on the alarm detail page.

On Alarm detail page, users can accept the alarm by clicking "Accept", then the alarm will be marked as "Acked" on the alarm list. Users also can clear the alarm by clicking "Clear", then the alarm will be deleted from the alarm list.

EnOS



3.7 Account & System Management

Account & System module allows the user to configure system settings as well as account settings. They can be managed through the Me page as shown below:



14:33	.ıll 4G 🚱
N	le
hossain.ac	
Corporate Informatio	on >
Company Manageme	ent >
. WIFI Settings	>
i About	>
Settings	>
Home Alarm	Management Me

3.7.1 Password Changing

1. On [Me] page, press [Settings].

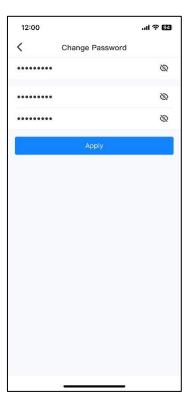
14:33	.ıll 4G 🚱
Me	
hossain.adr 18217257851@13	
Corporate Information	>
Company Managemen	t >
. WIFI Settings	>
③ About	>
Settings	>
Home Alarm	Management Me

2. Press [Change Password].



12:00		.ul 穼 94
<	Settings	
Change password		>
Language		English >
	Log out	
_		

- 3. You will be directed to Change Password page.
- 4. Enter your old password.
- 5. Enter and confirm your new password.
- 6. Press **[Apply]** to change the password.





3.7.2 Language Switching

1. On Me page, press [Settings].

14:33	1 4 G 🚱
Me	
hossain.admin 18217257851@139.com	
Corporate Information	>
Company Management	>
. WIFI Settings	>
(i) About	>
Settings	>
Home Alarm Management	Me

2. Press [Language].



12:00		.III † 94)
<	Settings	
Change password		>
Language		English >
	Log out	
_		

- 3. Swipe to choose a desired language. Univers EMS supports English and Chinese languages currently.
- 4. Press [OK] to confirm the switching of language.

12:03		al S	94
<	Settings		
Change password			>
Language		Englis	sh >
	Log out		
Cancel			ОК
	English		
	简体中文		
		•	



3.7.3 System Information

1. Go to [Me] page and press [About].



2. Version number is shown on the first line on the About page.



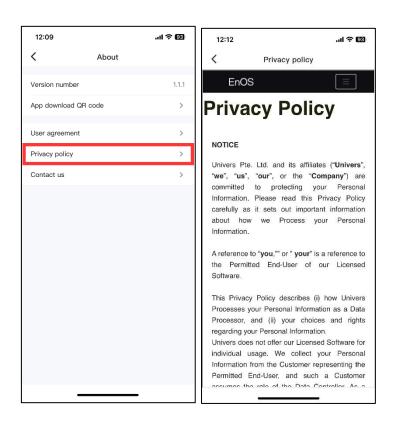
12:09		.ıl 🗢 😡
<	About	
Version number		1.1.1
App download QR code		>
User agreement		>
Privacy policy		>
Contact us		>
_		-

4. Press **[User Agreement]** and you will be directed to the User Agreement page.

12:09		al Ŷ 😡	12:11	.ul 🗢 🖽
<	About		<	User agreement
Version numbe	r	1.1.1	User	Agreement
App download	QR code	>		- J
User agreemen	t	>	acceptanc	er Agreement is effective upon e for new users, and from 20-09-2023
Privacy policy		>	for existing	g users.
Contact us		>	('UNIVER LICENSEI INDIVIDU, ENTITY T LICENSEI AUTHORI TO YOU (UNIVERS THROUGI SECTION "YOU" OR CONDITIO	PTE. LTD. AND/OR ITS AFFILIATES S') IS WILLING TO LICENSE THE D SOFTWARE TO YOU AS THE AL, THE COMPANY, OR THE LEGAL HAT WILL BE UTILIZING THE D SOFTWARE VIA THE SED LOGIN ACCOUNT' PROVIDED "USER ACCOUNT' BY EITHER DIRECTLY OR INDIRECTLY H YOUR OU ADMINISTRATOR (SEE 2.7) (REFERENCED BELOW AS "YOUR") ONLY ON THE DN THAT YOU ACCEPT ALL OF THE IF THIS USER AGREEMENT ("USER
			Agreemen Software. contract b	terms and conditions of this User It carefully before using the Licensed This is a legal and enforceable etween You and UNIVERS. By
			accepting	this Aareement. either by indicating

5. Press [Privacy Policy] and you will be directed to the Privacy Policy page.

EnOS

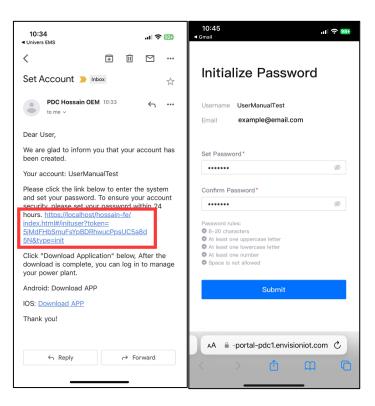


4 Mobile Application – End User

4.1End User Account Setting

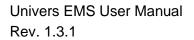
- 1. Installer or admin will collect your email address and username, and create an account based on the email address and username.
- 2. You will receive a registration email by that email address after installer or admin create for you.
- 3. Click link in email to set the password in accordance with password policy requirements. You will be redirected to the website to set your password.

EnOS



Note: If email is not in your inbox, please check your spam/junk email

4.2 Login





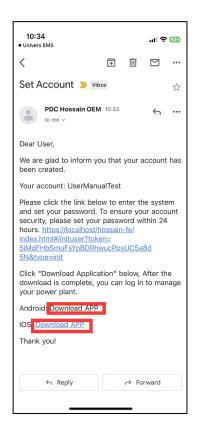
4.2.1 Application Downloading

• You can download the mobile application Google Play for Android users or App Store for Apple users. The application name is Univers EMS as shown in below Figure.

10:27		.ıl 🗢 🕮
Search		
Univers	Univers Univers Hor Energy Man	ne
AGE 17+ Years Old	CATEGORY	DEVELOPER ENVISION DIGITAL
		N 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
What's New Version 1.1.0 1. Optimize Moni 2. Fix some know	itoring chart dis	Version History 1mo ago splay
Version 1.1.0 1. Optimize Moni	itoring chart dis wn issues	1mo ago
Version 1.1.0 1. Optimize Moni 2. Fix some know Preview Over Viev	tioring chart dis vn issues	1mo ago



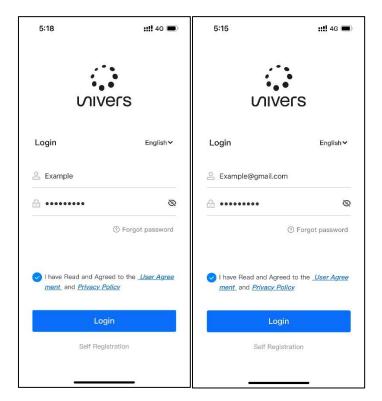
• You can also download from the link provided in the Set Account email.





4.2.2 Application Login

- 4. Enter your username or email address and password.
- 5. Read and check the **[box]** to consent the User Agreement and Privacy Policy.
- 6. Press the **[Login]** button.



4.2.3 Forgot Password

If you forget the login password, click the 'Forget password' button to retrieve the password.

EnOS



7. You will be directed to the Home page where you can monitor your home plants.



4.3Home

On the Home page, plant name, real-time weather data, operating status of the plant is displayed. If the you have multiple plants, you can switch between the plants.

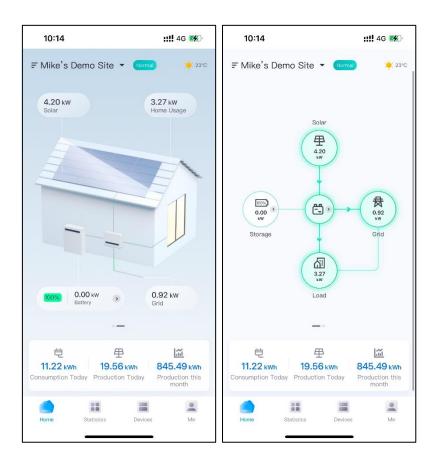
Power Energy Flow Diagram:

The end user can monitor the operating state in real time for the operation status of PV and energy storage at home. The user can switch between 2D and 3D energy flow diagrams, and switch between dark and light theme styles.

The energy flow diagram shows:

- i. the real-time energy flow diagram of the plant.
- ii. energy flow direction
- iii. real-time operating power such as PV production power, storage charge and discharge power, houseload power, on-grid, and off-grid power data.
- iv. display the real-time status of the inverter, storage (if any), green colour represents Operating, yellow represents Standby, red represents fault.
 - You could dropdown to refresh page and displayed data.

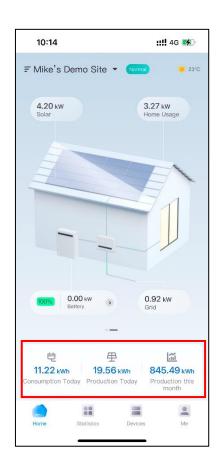
EnOS



KPIs:

The KPI card on the home page will show the core indicators such as Consumption Today Production Today, Production MTD.

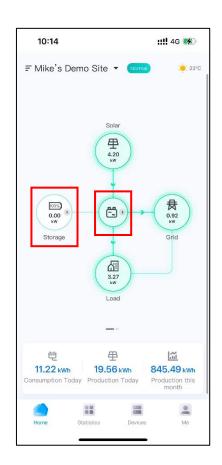




4.3.1 Device Monitoring

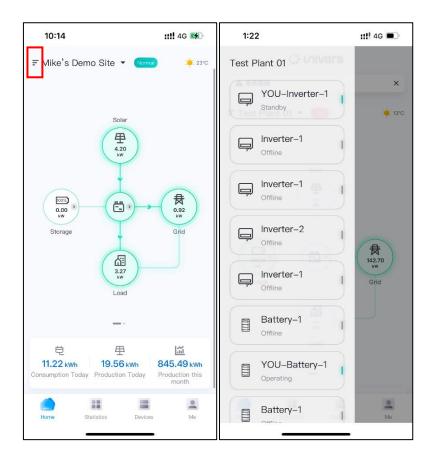
Entrance 1: From energy flow – Choose the plant first, and you can directly obtain the status of the device under this plant on the energy flow diagram, and drill down to view the real-time monitoring information of the device.





Entrance 2: On Home page, click on the list icon besides the plant name – A list of devices under the selected plants is displayed. By clicking a device on the Device List, you will be directed to the Device Details page.

EnOS



Entrance 3: On [Devices] tab – A list of devices under all the user's plants is displayed. Device's key real-time data is shown on each device card. You can also filter the devices according to the device type as shown below. By clicking a device on the Device List, you will be directed to the Device Details page.



2:28		:: 4G 🚧
	Devices	
All Device	PV&Storage	Smart Device
Ļ	Inverter-1- Unive Active Power: 120.00 Production Today:	0 kW
Ļ	02-Inverter-1- Dr Active Power: 399.50 Production Today: 17	0 kW
Ļ	Inverter-1- Unive Active Power: kW Production Today:	/
Hame	Statistica De	Aces Me

1) Click the inverter node on the energy flow diagram, or click the inverter device on the device list, you can directly jump to the inverter monitoring page to show the inverter real-time operation status, active power, temperature, and production graph.

2) Click the storage node on the energy flow diagram, or click the battery device on the device list, to directly jump to the storage monitoring page to show the real-time operation status, charge and discharge energy, active power, SOC, and working mode of the storage.

EnOS

15:33	. iil 4G 🖬 15:33	3
< Inverter	<	Storage
Inverter-1 Operating	Battery	
Active Power		y Charging Energy 0.48 kWh
Internal Temperature 8 62.500°C		y Discharging Energy).72 kWh
Production Today kWh 25		ve Power).483kW
20 15 10 5 0 00:00 04:00 06:00 12:00 16:0 - • • Production Today	s	9.0 % Soc

4.4Plant Statistics

Plant statistics module provides overall and individual KPI data from the solar, house load and storage.

4.4.1 KPI Overview

KPI statistics are displayed according to the different time dimensions of day, month, year and life cycle, showing the following statistics metrics:

- Production: Total Home Site PV Production
- Consumption: Total Homehouse Electricity Consumption
- From Grid: Total Electricity Energy from Grid
- To Grid: Total Electricity Energy to Grid
- Battery Charge: Total Battery Charge Energy
- Battery Discharge: Total Battery DisCharge Energy
- Net Imported/Net Exported:



- a. If Energy from Grid is larger than Energy to Grid, Display Net Exported
- b. If Energy to Grid is larger than Energy from Grid, Display Net Imported

Different dimension metrics trend is also displayed in a bar chart format. Press on one of the graph to see the detailed break down of the bar chart. Production, From Grid and Charge are displayed on the positive axis. Consumption, To Grid and Discharge are displayed on the negative axis. Click on the legend to cancel the display of the corresponding indicator data and retain the indicator data you want to view.



4.4.2 Solar Statistics

Solar Statistics page shows yield, and solar production according to the daily, monthly, annual and life cycle time dimension.

- Total Solar Production
- Total Self-consumption: Total Energy from PV production to Houseload Consumption
 and Battery Charge
- Total To Grid Energy: Total Energy from PV production to Grid



6:31		::!	4G 🔳
OVERVIEW	SOLAR HOUSE LO	DAD STORAGE	CHARGER
Day	Month	Year L	ifetime
<	2024-11-	28 🔻	>
	80.63 ∉ 1 ^{kWh} To G	consumption 65.50 kWh (rid 65.14 kWh (!	
Solar Ge	eneration		53
kW			W/m²
500		wm	
300	٨		
0.0.0	L	444	
	AN	WN	
200	/ /		
100	N	1	
100		12:00 16:00 d Power -0- Irrad	20:00 lance
100			
100	00 04:00 08:00	12:00 16:00	20:00

4.4.3 House Load Statistics

House Load Statistics page shows consumption, and house usage according to the daily, monthly, annual and life cycle time dimension.

- Total Houseload Consumption
- Total Self-sufficiency: Total Energy from PV production and Battery DisCharge to Houseload Consumption
- Total From Grid Energy: Total Energy from Grid production to Houseload Consumption

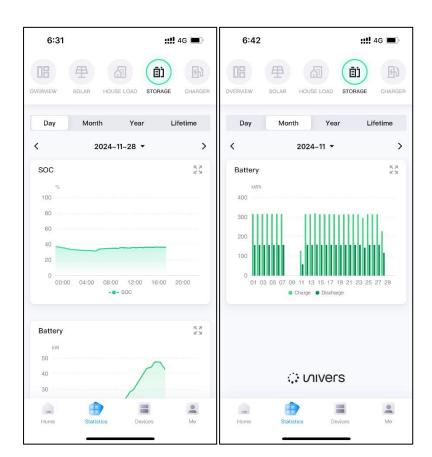


6:31		::!!	4G 🔳
OVERVIEW		AD STORAGE	CHARGER
Day	Month	Year Li	fetime
<	2024-11-2	28 -	>
Consumpti	Self-s	sufficiency 5.74 kWh (11	%)
490. kwi	From		89%)
	From	Grid	89%) Кл Кл
kw	From	Grid	
House Usa	From	Grid	
House Usa	From	Grid	
House Usa	From	Grid	
House Usa kW 200	From	Grid	
House Usa KW 200 100 -100 -200 00:00	ge	Grid 34.50 kWh (12:00 16:00 ;	К.Я К.М 20:00
House Usa KW 200 100 -100 -200 00:00	24 From	Grid 34.50 kWh (12:00 16:00 ;	К.Я К.М 20:00

4.4.4 Storage Statistics

Storage page shows the energy storage charge and discharge power curve, and displays the total charge and discharge of energy storage according to the month, year, life cycle time dimension. The page also shows the SOC graph under day dimension.

EnOS



4.5 Alarm

On Me – Alarm, users can see active alarms under the plant selected. On each alarm card, it displays the alarm, device name, plant name, alarm type and the time of occurrence of the alarm.

Users can sort them from according to the alarm severity, alarm type and/or device type.

Users can click each alarm to see the alarm details. Alarm code, time of occurrence, site name, device type and device name will be displayed on the alarm detail page.

EnOS

6:53	::!! 4G 🔳	12:23		::!! 4G 🔳	8:22	:::! 중 ■)
EndUser 358231672@qq.com		< Alar Test Pli	m Severity		< А	larm Detail
			Fault	Warning	A MonitorAlarm	
		Elect	Info	Collapse	Alarm Code	
My Plant	×	Plant			Alanni Code	
ជ់ Alarm	• >	Time	т Туре		Time of occurrence	e 2023–06–27 15:25:01
. WIFI Settings	×	🛦 Sel	Selfd	lefinetype	Site Name	Test Plant 01
A Message Center	• >	Elect Plant	(201) M	onitor Alarm	Device Type	Inverter
L Wessage Center	- 0	Time	(200) F	ower Alarm	Device Name	Inverter-1
Contact Us	>	A Sel				
O About	×	Inver Dev Plant	ice Type			
Settings	Σ	Time	In	verter		
		▲ Sel	В	attery		
		Inver				
		Plant Time				
Home Statistics Devices	Me	▲ Sel Bes		Complete		

4.6 Account & System Management

"Me" menu allows user to configure account and system settings.



11:45			‼ 4G 🔳
~	EndUser 358231672@c	qq.com	
	្លហ	vers	
🛕 My Pla	nt		>
<u>ក់</u> Alarm			>
🛛 WIFI Se	ettings		×
🇘 Messag	ge Center		•>
🖸 Contac	t Us		>
O About			>
Setting	s		Σ
Home	Statistics	Devices	Me

4.6.1 My Plant

The user can check the plant under his/her authority under My Plant. Each plant card displays the name, address, capacity, commissioning date and contact information of the plant. Under each plant, user can view the devices under the plant, set the price of the plant and set device parameter.

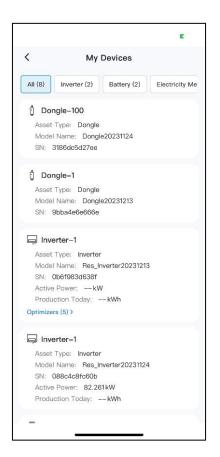


<	My Plan	t
Mike's D	emo Site	2
	Melrose St, North /IC 3051, Australia	
Capacity		15.00 kW
Commissi	oning Date	2023-12-17
Contact		
Contact Ir	formation	
🔯 My De	evices	5 Devices >
S Price	Setting	>
🖳 Quick	Settings	>
Univers [Demo Site	2
g Home	nghuaMeihekou Do Furnishings Build g 5 A Home Home	ling 4/
Capacity		500.00 kW
Commissi	oning Date	2023-08-09

4.6.1.1 **My Devices**

Click on "My Devices" tab under a plant, users can monitor all the devices under the specific site, with basic attributes of the device. Users also can filter the devices by selecting the device type.





4.6.1.2 Plant Price Setting

Click on "Price Setting" tab under a plant, users can can edit Feed-In Tariff and Purchase Price for the specific site.



		E 3
20		
<	Price Setting	Edit
Feed-In Ta	ariff Purchase Price	
Date Period	01–01 – 12–31	
Time	00:00 - 24:00	
Price	1 AUD/kWh	

4.6.1.3 Device Parameter Setting

Click on "Quick Setting" tab under a plant, users can control the device by editing device parameters by following the steps below:

1. Currently for only support setting on battery parameters for end user. For **battery**, you can modify the charge and discharge mode, charge and discharge power and other parameter settings.

EnOS

K My Plant	:	
Quick Settings		
Battery Battery-Demo4		~
Parameter Settings		
Maximum charge power	[0.0 ,10000]	W
Maximum discharge power		W
End-of-charge SOC	[90.0, 100.0]	%
End-of-discharge SOC (?)	[0.0, 20.0]	%
Charge from AC		>
AC charge cutoff SOC	[20.0, 100.0]	%
Forced charge/discharge		
Charge/Discharge		>
Issued		

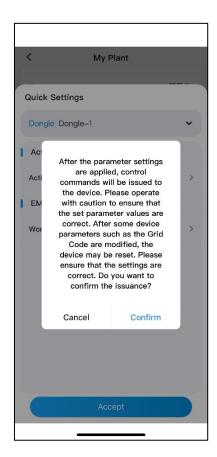
2. Update the preferred parameters according to the threshold range and prompt description of the parameter indicating on each parameter. Then press **[Accept]**.

EnOS

<	My Plan	t	
Quick Sett	lings		
Battery Ba	attery-Demo4		~
Paramete	r Settings		
Maximum o	charge power	[0.0 ,10000]	W
Maximum o	discharge power		W
End-of-ch	arge SOC	[90.0, 100.0]	%
End-of-dis	scharge SOC ᠀	[0.0, 20.0]	%
Charge fro	m AC	Enab	le >
AC charge	cutoff SOC	[20.0, 100.0]	%
Forced ch	narge/discharge		
Charge/Dis	scharge		>
	Accept		
·		-1	_

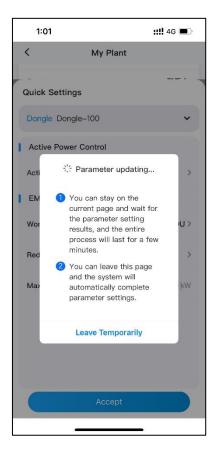
3. Double confirm the update by pressing the Confirm button.





- 4. When the parameter is updating, the user can choose to:
 - a. wait on the current page or
 - b. leave temporarily and come back later to check the parameter.

EnOS



5. If the user chooses to wait on the current page, the update will take a few minutes. After the parameter is updated, the pop-up window will show that the message: **Command issue completed** as shown below.

EnOS

1	:02 :!!	‼ 4G 🔳
<	My Plant	
Quic	k Settings	
Dor	ngle Dongle-100	*
Act	tive Power Control	
Acti	ve Power Control Mode	>
) EM	S Control	
Wor	Command issuse completed.	·u > >
Мах	OK Aman onargo ponor or gria <u>reco</u> r	
	Accept	

6. If the user chooses to leave temporarily, the user can come back to the parameter setting page later after 5mins, if parameter was set successfully, the parameter value will be updated.

4.6.2 Message Center

Users can receive and read Announcement, Warnings and Firmware Upgrade related message.



	11:21		::!! 🕈 🔳
	<	Message Center	台
Warnings	Announcem	ent	•>
	Warnings		>
Firmware Upgrade	Firmware U	pgrade	•>

4.6.3 Contact Us

The user can check the contact information of device manufacturers and can contact them for after-sale or plant operation and maintenance needs.



Univers	16:15		ull 4G 🖪
© Telephone Email Website Address	<	Contact US	
Email EP Enail EP Website EP Address EP	Univers ⊙		
면 Website Address 타	Telephone		6
면	Email		Ð
中	Website		₽
	Address		団
	Address		

4.6.4 About

The user can view the version information of the mobile App, the user agreement and privacy policy of the system.

16:15		ull 4G 🗗
<	About	
App Information	on	
Version n	umber	1.2.3
App down	nload QR code	>
User Agreeme	ent and Privacy Policy	
User agre	ement	>
Privacy p	olicy	>
1	-	-



4.6.5 Settings

Under the settings, the user can log out, change account passwords, switch languages, and switch theme styles.

16:15		4G 🖪
<	Settings	
Change password		>
Language	Eng	lish >
Theme color	Light m	ode >
	Log out	

5 Web Application

Web Portal Application is for System Admin, Installer Admin and Installer Users to monitor, control and management residential sites and devices under their permission, and for End Users to monitor their own site and devices.

5.1 Login

Note: Web Portal Login account is the same with Mobile Application account.

Univers EMS Web portal provides a login access page when you first opened the application. To log in to Univers EMS, enter your credentials (**username** or **email address**, **password**) and check the **box** to consent the User Agreement and Privacy Policy.

•	vers
Login	English 🗸
Crystal.zhou	
≙	Ø
	⑦ Forgot Password
I have read and ag ent and Privacy Po	greed to the <u>User Agreem</u> <u>Dlicy</u>
L	_ogin

If you forget the login password, click the **[Forget password]** button to retrieve the password.

5.2 Home Page

On Home Page, it displays an asset tree navigation bar with information on specific company/site/device. Default displays the cross-site statistics of the root node company.

1. User can search company/site/device on the asset tree.

Univers EMS	Q. Asset	Statistics Overview			Constant Dis-	nt Ranking (Equivalent Yi	labih
Home Page	B Wholesale Plumber						=1
Central Monitoring -	Bit Filliogram	Active Power	Production BOL		Nat	EnOS_Edge_EGC-BBBbb	17.70 h
	 ・ ・ 回 ・	11.40 sew	92.07 TWM		(152)	DemoSite1023	13.92 h
	 B) cc11 				-		the second secon
Device Monitoring	• Bo mm	Yield Statistics		Month Year Lifetime	No.3	Test Plant 01	5.19 h
	B RetiAdmin001	Moreh 2024-11 [3			(177)	yangjiaui	5.14 5
	Bt huarhuar/Bit (2001	MZA				he fleer	
Device Management	 B) partnerst 	150			NoS	Hhtestaite003	3.04 1
	B Rebacca_second02	120			C100	Mike's Demo Site	2.00 +
	 ·	90			-		
	B Rebecca test 021	60			167	Plant03 Hyde Park Nort	1.57
	 ・ ・ ・	20			Tint	Rockingham Text Bench	1.14
	B FEMORE	0 11-01 11-03 11-05 11-07 11-09	11-11 11-13 11-15 11-17 11-19 11-21	11-23 11-23 11-27 11-29			
	 ·		Production		N5.9	45(6 104 332003	0.64
About	ChyCompany				Reto	· 原5式32001-水设备	0.35
	 B 0000619demoEDITo 						
	 B) 062002 						
	D cemAdmin_creste	Environmental Benefits					
	B android EVEDIT	Lifetime Standard Coal Saved	CD- Lifetime Reduction		Lifetime Ec	suisalent Trees Planted	
	B 0704_regression02	⊕ 36,737.83 ×t	G 43,735.51 kt		\$9,747;	311.26	
	 ·						
	 						
	• 🖻 Installer Company						
	• 图 YUH·版字的读 Test						
	 图 1130版本之前的电站 						
	I Lucienta 🗸						



2. Users can view the cross-site statistics by selecting the company on the asset tree.

Univers EMS	O. Asset			
	Q, Asset	Statistics Overview		Current Plant Ranking (Equivalent Yield)
Home Page	B Wholesale Plumber	Active Power	Production BOL	8
🖵 Central Monitoring 🔷	 ・ ・ ・	5.63 MW	92.07 TWh	
& Fleet Map	 · · ·			
	• 🕲 cc11	Yield Statistics	Month Year Lifetime	
all KPI Statistics	🖶 Hossain demo site 🛩			
Ste Monitoring	• Eb mm	Month 2024-11 [3		
2010-2010-2010-201	Bi IlliziAdmin001	MWh		
Device Monitoring	• 图 huanhuan例试公司01	70		
C&M Management -	 助 安和漳州公司 	50		
59 99 99 90 Men 55 19 M	B Rebacca_second02	40 10	A CONTRACTOR OF A CONTRACTOR	
Device Management	 ・ ・ ・			
Company and User Mgt	B Rebecca.test 021			
27 27.622	 助石市街公司 	11-01 11-03 11-05 11-07 11-09 11	41 11-13 11-13 11-17 11-19 11-21 11-23 11-25 11-27 11-29	
Message Center	@ 罗乐的公司		Production	
Help and Feedback -	 · · ·			
	E chyCompany			
D More -	 D 0000619demoEDITo 	Environmental Benefits		
About 1	 B 062002 			
	D cemAdmin_creste	Lifetime Standard Coal Saved	CO ₂ Ulatime Reduction	Lifetime Equivalent Town Planted
	B android @NBEDIT	⊖ _ <i>ig</i>		40
	 B 0704,regression02 			
	 			
	 ·			
	B installer Company			
	• 图 YJH-版本跟述-Test			
	 南 11306年2前的曲站 			

3. Users can view the site details by selecting the site on the asset tree.

Univers EMS	Q, Asset	Site Overview Energy Statistics					
Home Page	B Wholesale Plumber	Hossain demo site omine					
	 ・ ・ ・	and the Table				61	Layout
	 ·	 Sunny 55°F ○ 中国上海市黄浦区5FX0+927 部政编码: 20002 	13				
	▼ 巻 Hossain demo site	Capacity 234.00 kW Commissioning Date	2023-05-12 Contact -	Contact Information -			
	Inverter-1 Inverter-3						
	🔛 Inverter-3	Production Today Revenue Today	Production this month 0.00 kWh	Production this year 0.00 kWh		fetime Production	
		kWh	0.00 kwh	0.00 kWh	0	1.00 kWh	
	₩ Inverter-2	Energy Flow Diagram	Devices Overview				
	₩ inverter-1		Dongle-1	Offine Dongle-1	Offine	Dongle-1	Offin
	₩ inverter-1 ₩ inverter-2	PV bystem	SN b0 Model Name -	2e13e1d SN Model Name	83f1f5d5	SN Model Name	9bc289f2
	B Battery-1	₽ a.co w					
	Battery-1 Battery-3	u u	Inverter-1	omine Inverter-3	Offine 83dfa57e	Inverter-3	0ffin 1e3c2857
	Battery-3		Model Name -		-	Model Name	-
	8 Battery-2			kW Active Power kWh Production Today	- kW - kWh	Active Power Production Today	– kW – kWh
	B Battery-2	Storage System Orid	Production roday =	Production roday	- 8940	Production roday	- KWII
	Battery-1	avage system one	Inverter-3	omine Inverter-2	Offine	Inverter-2	Offin
	Battery-3			Batic7c0 SN	09647c90	SN	00da7f43
	Battery-2		Model Name -		-	Model Name	-
	• Eb mm	Lord		kW Active Power	- icw	Active Power	- kW
	Bill Stadmin001		Production Today -	kWh Production Today	- kWh	Production Today	- kWh
	Ph huanhuan@68523001						

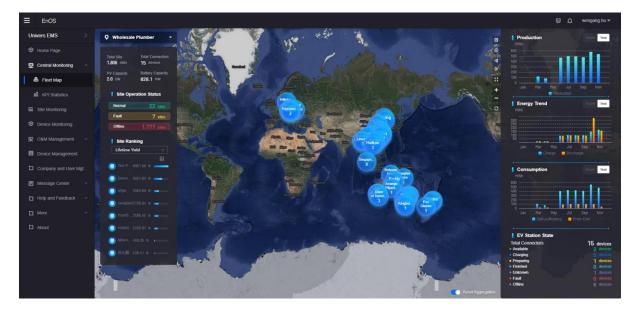
4. Users can view the device details by selecting the device under a specific site on the asset tree.

≡ EnOS				🖾 🗘 hossain.admin v
Univers EMS > Q, Asset	Battery-3 Office			
Home Page Wholesale Plumber	 Hossain demo site 			
Central Monitoring へ ・ 日上報公司	● 中国上局市資源区5F>	(G+927 動政調話: 200023		
参 Fleet Map ・ 団 有真实设备 ・ 図 cel1	Asset Type Battery	SN 7c19b3b8 Version v1.0.20230814		
표 KPT Statistics • 문 Hossain demo site	Real-time Info			
III Site Monitoring III Inverter-1	Bus Voltage	- V	SOC	- 9
Device Monitoring Inverter-3	Daily Charging Energy	- kWh	Daily Discharging Energy	- kWh
R O&M Management v 🛱 Inverter-3	Active Power	- KW		
Device Management Device Management	History Info (
Company and User Mgt	Signal Type: Energy Yield(kWh) V Sig	nal Point Name: Selected (2) V	Time: 2024-11-28	
Message Center				
Help and Feedback v B Battery-1				
More More More More		No dat	ta found	
About Battery-3				
B Battery-2				
Battery-2 Battery-1				
Battery-3				
Battery-2				
• @				
B Statemin001				
Bi huanhuanBit(SED1				

5.3 Central Monitoring

5.3.1 Fleet Map

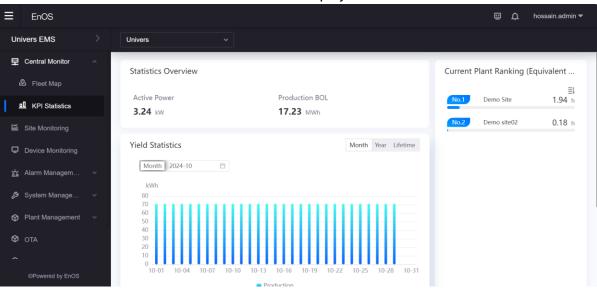
- 1. Click [Central Monitor] and then [Fleet Map] on the left menu.
- 2. Central Monitor provides a satellite world map, showing the geographical distribution and aggregated KPIs of household plants within the limits of user authority, and by scrolling up and down, the user can zoom in or out the map page.
- 3. Click the left mouse button to drag the map anywhere on the page.
- 4. Users can carry out centralized and hierarchical management according to the regional / company organizational structure and can view the KPI data of power plant distribution and aggregation under the company / regional node flexibly.
- 5. The column on the right shows the key metrics of all photovoltaic sites within the scope of user authority; the left shows the production, energy trend, consumption and EV station statistics of the selected level (integrated sites or single site).



5.3.2 KPI Statistics

- 1. Click [Central Monitor] and then [KPI Statistics] on the left menu.
- 2. The KPI statistics page of cross-plants to carry out automatic aggregation statistics of production indicators for all plants within the scope of user select in Management Structure Tree in Top Left Corner. Default is all plants that user have permission.
- 3. The statistics overview is provided with the total active power and production BOL data of all plants within the scope of user select in Management Structure Tree in Top Left Corner. Production statistics are graphically displayed according to the dimensions of day, month, year, and lifetime. Plants are ranked according to the





Yield. And the total environmental benefits are displayed.

5.4 Site Monitoring

5.4.1 Site Monitoring List

When first come to the Site Monitoring menu, it displays a list of all sites within the current user's authority, and core information such as real-time operation status, capacity, production, revenue, active power, and other core information of the plant.

The user can filter the sites according to the operating status, whether the site has battery configured, the total string capacity, battery capacity, followed or all plants, grid connection date and located area.

EnOS							▣	û hossain.admin ▼
Univers EMS	>	Site: Select	~	Site Configur : All	✓ S	Site Operation Status: All	~	Query Reset 🗸
🖳 Central Monitor	~						Q Search	1
Site Monitoring		Site Name		Site Operation Status	Capacity (kW)	Production Today (kWh)	Revenue Today	Operation
Device Monitoring		Demo Site		Normal	15.00	29.50	0.00 \$	Detail
<u>ጵ</u> Alarm Managem	~	Yjh		Offline	68.00			Detail
🔑 System Manage	~	Demo site02		Normal	200.00	35.49	4.52 ¥	Detail
Plant Management	~	Test123		Offline	10.00		-	Detail
OTA		Demo01		Offline	10.00	**		Detail
🍄 About		Total 5 Items						< (1) >
©Powered by EnOS								

5.4.2 Site Overview

On the Site List page, click **site name** of a site to go to the overview monitoring page of a single site. Default is on the site overview page and it displays:

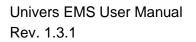
- a. Photo of site, real-time operation status of site, address of site, real-time weather data, contact information.
- b. Statistics of the core indicators of production, revenue in daily, monthly, annual and lifetime dimensions.
- c. The energy flow diagram shows:
 - 1. the real-time energy flow diagram of the site.
 - 2. energy flow direction
 - real-time operating power such as PV production power, inverter output power, storage charge and discharge power, load power, on-grid, and off-grid real-time data.
 - 4. display the real-time status of the inverter, storage (if any), green colour represents Operating, yellow represents Standby, red represents Fault.
- d. All the devices under the site are displayed according to the device type, with the operation status and core information of all the devices.

				🖾 🏠 hossain.admin 🕶
Univers EMS	Site Overview Or Energy Statistics			
모 Central Monitor ~				
Site Monitoring	Demo01 offline			
Device Monitoring	Sunny 22*C No Data			
🖄 Alarm Managem 🗸	Capacity - kW Commissioning Date - Contact -	Contact Information -		
🤌 System Manage 🗸 🗸				
😚 Plant Management 🗸 🗸	Production Today Revenue Today	Production this month	Production this year	Lifetime Production
© 0TA	kWh	0.00 kWh	0.00 kWh	0.00 kWh
O About	Energy Flow Diagram	Devices Overview		
	PV System	Dongle-100 Offline	Inverter-1 Offline	Meter-1 Offine
	(The second sec	SN 4adb15feda30 Model Name Dongle20240118	SN 3dae40a52044 Model Name Res_Inverter2024011	Active Power – kW Total Active Energy – kWh Generation
			Active Power kW Production Today kWh	Total active Energy – kWh Consumption
			Production roday - Kwit	
		Battery-1 Offline		
	Storage System Grid	SN 84d414a9359f		
		Model Name Res_Storage2024011 8		
		SOC – % Daily Charging Energy – kWh		
@Powered by EnOS	uw Load	Daily Discharging – kWh Energy		· · · · · ·

5.4.3 Site KPI

On the site overview page, click the tap **[Energy Statistics]** on the top to go to the KPI statistics monitoring page and it displays:

- 1. The KPI: consumption and self-consumption statistics.
- 2. Production and consumption of the chosen plant by day, month, year, and lifetime dimension.
- 3. Energy Management graph showing the PV output and consumption graph according to day, month, year, and lifetime dimension.
- 4. Revenue bar chart by day, month, year, and lifetime dimension.





5. Environmental benefits such as standard coal saved, CO2 Emission Avoidance and equivalent tree planted are displayed.

EnOS					🖾 🗘 hossain.admin 🕶
Univers EMS >	Site Overview	④ Energy Statistics			
Site Monitoring	KPI	Production	Day Month Year 2024-10-30	Consumption	Day Month Year 2024-10-30
Device Monitoring Alarm Managem System Managem P System Management O Plant Management O OTA Ota	Consumption Today 7.51 kWh Self-consumption Today 2.76 kWh	Production 7.32 kwh Self-consumption 2.76 kwh To Grid 4.56 kwh	• Self-consu_ 37.70 % • To Grid 62.30 %	Consumption 7.51 kWh Self-sufficiency 2.76 kWh From Grid 4.75 kWh	• Self-suffL3675 % • From Grid 63.25 %
	Energy Management	525 1535 1545 1555 1605 1615	1625 1635 1645 1655 17.05 17.15 17.25 17.35 17.	45 17.55 18.05 18.15 18.25 18.3	Day Month Year Lifetime SOC
@Powered by EnOS		- Site PV Active Power	Consumption Power - Self-consumption Power - I	Discharge Power 🦳 Charge Power	— SOC

5.4.4 Site Details

On the site list page, click the **[Detail]** on the right of the site to go to the site details page, click different tab to see different information of the site:

- 1. Basic info: including basic information, system information, installer information and grid information of the site.
- 2. Devices under this site.
- 3. Prices: Purchase price and Feed-in Tariff.
- 4. User information: installer and end user information of the site.

≣	EnOS				⊡ û hossain.admin ▼
Uni	vers EMS	>	← Site List / Site Details		
Ħ	Central Monitor	~	Basic Info Devices Prices User Info		
1	Site Monitoring		Date into Devices Prices Oser into		
Ō	Device Monitoring		Demo01		Delete Plant
Ŕ	Alarm Managem	ř			
ez,	System Manage	~			
Ŷ	Plant Management	~	Basic Info		
Ø			- Plant Name *	Country/Region *	Address *
Ø	About		Demo01	Australia/Australian Capital Territory/Booth	1 HarbourFront Ave, Keppel Bay Tower, Singapore 098632
			Detail Address	Post Code	Plant Time Zone *
				-	+08:00
_			System Info		
			Edit		

5.4.5 Site Management

On the site details page, you can manage the site:

- 1. Under "Basic Info" tab, click **[Edit]** on the bottom to edit the basic information of the site.
- 2. Under "Basic Info" tab, click **[Delete Plant]** on the right to delete the site.

≣	EnOS				🖽 🇘 hossain.admin 🔻
Uni	vers EMS	>	← Site List / Site Details		
甲		~	Basic Info Devices Prices User Info		
1	Site Monitoring		Basic Into Devices Prices Oser Into		
Q			Demo01		Delete Plant
Ŕ		~			
Ŗ		~			
Ŷ		~	Basic Info		
Ŷ			Plant Name *	Country/Region *	Address *
Ø			Demo01	Australia/Australian Capital Territory/Booth	1 HarbourFront Ave, Keppel Bay Tower, Singapore 098632
			Detail Address	Post Code	Plant Time Zone *
				-	+08:00
			System Info		
			Edit		

3. Under "Devices" tab, click the **icon** besides the device to edit the device name or delete the device under the site.

≡	EnOS		hossain.a	dmin 🔻
Un	ivers EMS	← Site List / Site Details		
		Basic Info Devices Prices User Info		
1	Site Monitoring	basic into Verices Prices User into		-
		Dongle-100 Ottime	L	¹
	Alarm Managem	Asset Type Dongle SN 4adb15feda30 Model Name Dongle20240118		- 1
		Asset Type Inverter SN 3dae40a52044 Model Name Res.Inverter/20240118	L	۵
		Adden type interest on oudervolucione model nume regulateresticizzation to		
		Battery-1 Office	L	÷
		Asset Type Battery SN 84d414a9359f Model Name Res_Storage20240118		
		Meter 1 Offine	L	ē
		Asset Type Electricity Meter SN 679212fa0493 Model Name JANITZA-UMG604		_

4. Under "Prices" tab, click the [Edit] at the bottom to edit the price.

≡	EnOS			۲	¢	hossain.admin 🔻
Un	ivers EMS	>	€ Site List / Site Details			
		~	Basic Info Devices Prices User Info			Set by Date V
1	Site Monitoring					Gerby Dute
			✓ Purchase Price			
		~	1			•
		~	Date Period * Time Period Prices January V 1st V – December V 31st V 00 V - 24 V : 00 V		AU	D/kWh 🗇
		~	+			
			0			
			✓ Feed-In Tariff			
						•
			Date Period * Time Period Prices			
			Save Cancel			

5.5 Device Monitoring

5.5.1 Device Monitoring List

The device list page provides the KPI of all devices connected to different types of devices under the same plant, including device SN, active power, operating status, etc.

The user can filter the devices according to the management node or plant and filtering according to the operating status of the device or the type of device.

Basic information such as device name, SN, state, active power and production statistics are provided.

≡	EnOS													¢	hossain.	admin 🔻
Uni	vers EMS	>	Site: All (5)	×	Device Typ	e: Invert	er	~	Devic	e: All (6)	~					
BH	Central Monitor	*	Q Search												$\overline{\mathbf{T}}$	=
E	Site Monitoring		Offline	Operating	Standby	F	ault 📩	Rese	ət							
 	Device Monitoring		Device Name	‡ SN		\$ E	Belonged Site	е	\$	Inverter State		÷	T I	Α, ,	Action	
Ŕ	Alarm Managem	*	Dinverter-10	c0a8de80	d1a6	(Demo site02			Operating				0.	Details	
Ŗ	System Manage	~	Dinverter-1	89cf01c9€	e1dc	1	Demo Site			Operating			3	2.	Details	
Ŷ	Plant Management	~														
Ø																
Ø	About															
	©Powered by EnOS		Local Time: 2024-10-3	80 15:14:30 Last	Refresh: 2024-10-	30 15:14	4:22 ()									

5.5.2 Device Details

On the Device List, click **device name** or **[Details]** of a device to go to the monitoring details page of the device. Device details page displays the basic information, real-time data, and historical data of the device.

1) Real-time data:

Inverter: DC output, AC output, real-time data such as active power, internal temperature, efficiency, reactive power, power factor, and production today.

Battery: charge and discharge energy, SOC, active power, bus voltage, working mode, working state, SN etc.

Meter: active power, on and off grid data, etc.

Univers EMS User Manual Rev. 1.3.1

	Inverter-1 Office Tomo Site O 201b Sengkang E Av Asset Type Residential	e, Singapore 540270	Model Name Res_Inverter20231127 V	amion v10.20231127					
DC Input			AC Output						
	String Voltage(V)	String Current(A)	Power voltage (V)	Grid current (A)					
PV1	350.9	5.96	243.1	243.10					
PV2	296.2	6.02							
PV3	0.0	0.00							
PV4	0.0	0.00							
Real-time	e Info								
Active P	lower	0.000 kW	Internal Temperature	38.800 °C					
Inverter	Efficiency	100.00	Reactive Power	0.000 kVar					
Power F	actor	1.000	Mains Frequency	49.97 Hz					
OEM Sta	ate	On-grid (Off-grid mode: running)	Output Mode						
Rated Power(kWac)		10.00							
Production Today									

	Battery-10 Office Demo site02 O Asset Type Residential Storage	s SN be4272dec598	Version v1.0.20240118				
Real-time Info							
Storage Working	Mode	Maximise self consum	ption	Bus Voltage		749.2 V	
SOC		2.0 %		Daily Charging Energy		10.77 kWh	
Daily Discharging	Energy	10.45 kWh		Active Power	Active Power		
DC/DC Working State	_	Running		SN		36026151abb5	
Software Version		v1.0.20240118-RACK		Daily Charge Energy		40.44 kWh	
Total Discharge E	Energy	40.44 kWh		Daily Discharge Energy		40.44 kWh	
Bus Voltage		233.44 V		SOC		34.20 %	
Battery Pack							
Name	Working State	SN	Active Power (kW)	Voltage (V)	Total Discharge Energy (kWh)	Software Version	SOC (%)
Battery Pack1	 Running 	d166b8136b7d	23.23	23.23	15.23	v1.0.20240118-PACK	23.44
Battery Pack2	 Running 	905de80c0681	34.43	34.43	12.44	v1.0.20240118-PACK	12.67

2) Historical data:

On the page, navigate to the **[Historical data]** module to view the historical curve of all the data collected by the device. You can select the signal type, signal point name and time to view the data curve.

EnOS

5.6 Device Management

5.6.1 Device Management List

The device management list page provides key information about all devices of diverse types within the scope of user's authority, including device SN, model, operating status, software version number, etc.

The user can filter the devices according to the management node or plant and filtering according to the operating status of the device or the type of device.

EnOS		교 🏠 hossain.admin 🔻
Univers EMS	Site: All (5) V Device Type: Inverter V Device: All	JI (6) ~
P Central Monitor	Device Name v Q. Search	*
🛍 Site Monitoring	Offline Operating Standby Fault	
Device Monitoring	Device Name 🗣 SN 💠 Model	al Name
📩 Alarm Managem	E Inverter-1111 4d7eaa479725 Res_I	Inverter20240314 Offi Parameter Setting
System Manage	Dinverter-1 3dae40a52044 Res_I	Inverter20240118 Offi Parameter Setting
Plant Management	Dinverter-10 c0a8de80d1a6 Res_I	Inverter20240118 Opt Parameter Setting
	New Condition of the Second Seco	Inverter20231127 Opr Parameter Setting
Device Management	법 Inverter-1 d1abad4283a8 Res_I	Inverter20240830 Offi Parameter Setting
Device Log Export	首 Inverter-1-yjh1 c8199e425ef4 Res_I	Inverter20240830 Offi Parameter Setting
\$ OTA		
🛇 About		
ŭ.	Local Time: 2024-10-30 15:20:26 Last Refresh: 2024-10-30 15:20:25 O	

5.6.2 Device Name Editing

In the device management list, locate the device to be managed, click **[Parameter Setting]**, it will open the device details page where you can edit the device name.

Click on the **[Edit]** icon besides the device name, enter the updated name and then click the $[\sqrt{}]$ icon to save the name.



Cevice Management / Device Details			
Basic Info Parameter Setting			
Inverter-1111			Delete Device
Device Type Inverter	SN 4d7eaa479725	Registration Code 	
Model Name	Version	Plant Name	
Res_Inverter20240314	v1.0.20240314	Test123	
← Device Management / Device Details			
Basic Info Parameter Setting			
Basic Info Parameter Setting Inverter-1111			Delete Device
Inverter-1111 🗸 🗙			Delete Device
Inverter-1111 V ×	SN	Registration Code	Delete Device
Inverter-1111 V × Device Type Inverter	4d7eaa479725	-	Delete Device
Device Type Inverter Model Name	4d7eaa479725 Version	 Plant Name	Delete Device
Inverter-1111 V × Device Type Inverter	4d7eaa479725	-	Delete Device
Device Type Inverter Model Name	4d7eaa479725 Version	 Plant Name	Delete Device
Device Type Inverter Model Name	4d7eaa479725 Version	 Plant Name	Delete Device

5.6.3 Device Parameter Setting

On the device details page, click **[Parameter Setting]** tab, it will open the device parameter page, and you can send remote parameter control to the device.

For **dongle**, you can modify the operation mode and working mode.

For **inverter**, you can modify the power parameters, operation mode, characteristic parameters, and other parameter settings.

For **battery**, you can modify the charge and discharge mode, charge and discharge power and other parameter settings.

For **meter**, you can modify the meter direction.



Cevice Management / Device Details	
Basic Info Parameter Setting	
Grid Parameters	
Grid Code 💿	
Select V	
Protection Parameters	
Feature Parameters	
AFCI	Off-grid Mode
Select V	Select V
Power Adjustment	
Remote Power Schedule	Max. active power
Select V	Please Input
	KW Reference value [0.1,6]
Issued	

To set the device parameter:

1. Please set the parameter value according to the threshold range and prompt description of the parameter as shown in the example below.

Device Management / Device Details		
Control Interlaging the grid code may return Some parameter is factory defaults. Basic M A first the grid code is changed, check whether the previously set parameters are parameter will cause the inverter to parameter will cause the inverter to reid code Grid Code Select		
Protection Parameters		
Feature Parameters		
AFCI	Off-grid Mode	
Select V	Select V	
Power Adjustment		
Remote Power Schedule	Active power percentage derating	Max. active power
Select V	Please Input ×	Please Input
		kW
	Reference value:[-100.0, 100.0]	Reference value:-
Active Power Control		
Issued		
Issued		

- 2. Update the preferred parameters and press [Issue].
- 3. Double confirm the update by pressing the Confirm button.



Device Management / Device Details Basic Info Parameter Setting		
Grid Parameters	Command Issue	
Grid Code ③	After the parameter settings are applied, control	
Select	 commands will be issued to the device. Please operate with caution to ensure that the set parameter values are 	
	correct.	
Protection Parameters	⊙ After some device parameters such as the Grid Code are modified, the device may be reset. Please	
Feature Parameters	ensure that the settings are correct. Do you want to confirm the issuance?	
AFCI		
Enable	Cancel Confirm	
Power Adjustment		
Remote Dower Schedule	Active nower nerventane deration Max active nower	

- 4. When the parameter is updating, the user can choose to:
 - a. wait on the current page or
 - b. click **[Confirm]** to leave temporarily and come back later to check the parameter.

Parameter updating		×
You can stay on the current page and wait for the results, and the entire process will last for a few n		etting
	Cancel	Confirm

- 5. If the user chooses to wait on the current page, the update will take a few minutes. After the parameter is updated, the pop-up window will show the result: **Command issue successful/failed**.
- 6. If the user chooses to leave temporarily, the user can come back to the parameter setting page later after 5mins, if parameter was set successfully, the parameter value will be updated.

5.7 Operation & Management

Pre-requisite: You are using a System Admin/Installer Admin/Installer account.

5.7.1 Active Alarm

On the Active Alarm page, all alarm information under the power plant is displayed in real time, including alarm generation time, alarm power plant, device, alarm level, alarm category, and alarm description.

On the top of the page, it displays the total number of active alarms (including number of active alarms by severity), total number of active alarms from today, total number of active alarms cleared today.

Users can manage the alarm based on the company node / power plant and support flexible filtering according to the alarm level and alarm category. Users can also search the alarms by alarm description or alarm code.

For the alarm record information that is invalid but not automatically recovered by the device, the manual clearing mechanism is supported. If the user clears the alarm, the alarm will enter the historical alarm record and no longer display and prompt the alarm that has not been restored.

Ξ	EnOS						ē	û hossain.admin ▼
Uni	vers EMS							
甲	Central Monitor				▲ Fault 0 ▲ Warning 0	Alarm Today		Recovered Alarm Today
1 I I I I I I I I I I I I I I I I I I I	Site Monitoring		0		▲ Info 0	0		0
ē	Device Monitoring	Plant: Select	~	Alarm Severity: Select	 Alarm Type: Select 	×		Search Reset 🗸
Ŕ	Alarm Managem	Flant. Select		Alaim Seventy, Select	 Alaini Type. Select 			Search Reset
i i	Active Alarm	Batch Clear					Q. Alarm	description or code
Ġ	Historical Alarm	Device Name		Site Name	Device Type	Alarm Severity	Alarm Type	Alarm D
		Inverter-1-yjh1		Yjh		🔺 Fault	(200) Power Alarm	High Sti 🖶
19	System Manage	Inverter-1-yjh1		Yjh		🔺 Fault	(200) Power Alarm	Grid Los 🖶
	Plant Management	Inverter-1-yjh1		Yjh		A Fault	(200) Power Alarm	DC Arc
8		Inverter-10		Demo site02	-	🔺 Fault	(200) Power Alarm	High Sti 🛗
Ø	About	Inverter-10		Demo site02	-	🔺 Fault	(200) Power Alarm	Grid Los 📅
								Total 5 < 1 >

5.7.2 Historical Alarm

On the Historical Alarm page, all the restored historical alarm records under the current power plant are summarized and displayed, including alarm generation time, recovery time, alarm power plant, device, alarm level, alarm category, alarm description, duration, and so on. Users can manage the alarm based on the company node / power plant and support flexible filtering according to the alarm Severity and alarm type. Users can also search the alarms by alarm description or alarm code.

EnOS						L @	수 hossain.admin ▼
Univers EMS	>	Plant: Select V	Alarm Severity: Select 🗸 🗸	Alarm Type: Select	V Device Type: Select	V	Search Reset 🗸
P Central Monitor	~					Q Alarm	description or code
🛍 Site Monitoring							
Device Monitoring		Device Name	Site Name	Device Type	Alarm Severity	Alarm Type	Alarm Description
🖄 Alarm Managem	^	Inverter-Demo1	Plant03 Hyde Park North,100cE Doeydai Serity asd	Inverter	A Fault	(200) Power Alarm	High String Input Volta
Active Alarm		Inverter-Demo1	Plant03 Hyde Park North,100cE Doeydai Serity asd	Inverter	A Fault	(200) Power Alarm	(8704) Internal fan 4 abnormal
B System Manage	~	Inverter-Demo2	Plant02 Hyde Park North,100 Month One 01 Wart Keels Ko Hyde ParK	Inverter	▲ Info	(201) Monitor Alarm	(1314) Abnormal string function of PV14
Plant ManagementOTA	~	inverter-solargain-mocked	For-Greensync-to-Verify	Inverter	A Fault	(200) Power Alarm	(10402) MPPT1 DC terminator temperature abnormal
🍄 About		inverter-2	WA-Integration-UAT Plant	Inverter	A Fault	(200) Power Alarm	(10402) MPPT1 DC terminator temperature abnormal
		Inverter-Demo3	Plant01	Inverter	A Fault	(200) Power Alarm	(315) DC arc fault of P'
							(000() DV assallal

5.7.3 Device Firmware Upgrade

When there is an upgrade / update of the device software version, the system supports remote firmware upgrade of the device. Under the OTA Upgrade module, users can uniformly manage and maintain firmware and upgrade tasks.

5.7.3.1 Create Firmware

1. Users can create new firmware by clicking the **[New]** button under each type of devices.

≡	EnOS					ē	🏚 hossain.admi	n 🔻
Un	ivers EMS	>	Residential Inverter Dongle Smart Logge	r Residential Storage				
罒	Central Monitor	~	+ New				Q. Enter firmware name	to search
			Firmware Name	Version	Firmware Description	Create On	Firmware File	
1	Site Monitoring		OTA Test 0822	v4.0.0	desc	2023-08-22 10:44:09	Download	∲ ⊡
			Version111Version111	Version111Version111	-	2023-08-21 18:39:28	Download	순 🗇
₽	Device Monitoring		Version66666Version66666	Version66666Version66666	**	2023-08-21 17:53:54	Download	∲ ⊡
			1.1.131	1.1.151		2023-08-21 14:14:15	Download	全面
ä	Alarm Managem	~	1018-4	v1.0.2023081804	创建job测试	2023-08-16 15:52:08	Download	☆ ⊡
r.	System Manage	~	1018-3	v1.0.2023081603	创建job测试	2023-08-16 15:14:35	Download	∲ ⊡
12	System Manage	Ť	Total 56 Items			<	1 2 3 4 5 6 > 10/	Page ∨
Ŷ	Plant Management	~						
•	ΟΤΑ							
Ŷ	About							

2. Fill in the firmware name and version. Upload the firmware package by clicking the button **[Click to upload].** You can choose to add the description and label for this new firmware.

3. Click [Submit].

Univers EMS >	Residential Inverter Dongle Smart Logge	r Residential Storage	8	Add Firmware
🕎 Central Monitor 🗸			•	Firmware Name +
🖾 Site Monitoring	+ New			Please Input 0 / 64
Device Monitoring	Firmware Name	Version	Firmware Description	Version*
효 Alarm Managem 🗸	OTA Test 0822	v4.0.0	desc	Please Input 0 / 128
💋 System Manago 🗸	Version111Version111	Version111Version111	-	
Plant Management ~	Version66666Version66666	Version66666Version66666	-	Upload Firmware *
🛛 ОТА	1.1.131	1.1.151	-	 Bin, tar, gz and zip files are supported, and the size is no more than 100M
♀ About	1018-4	v1.0.2023081804		Firmware Description
	1018-3	v1.0.2023081603		Please enter the text
	Total 56 Items			0 / 500
				Label (0 /10) + Add Label
				Cancel Submit

5.7.3.2 **Delete Firmware**

Users can delete an unwanted firmware package through **[Delete]** icon on the right hand column of the page.

Univers EMS >	Residential Inverter Dongle Smart Logg	jer Residential Storage				
모 Central Monitor ~ Site Monitoring	+ New				Q. Enter firmwar	e name to search
Device Monitoring	Firmware Name	Version	Firmware Description	Create On	Firmware File	
📩 Alarm Managom 🗸	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44:09	Download	4
🖉 System Manage 🗸	Version111Version111	Version111Version111		2023-08-21 18:39:28	Download	슐 🗇
Plant Management ~	Version66666Version66666	Version66666Version66666		2023-08-21 17:53:54	Download	순 🗇
Ф ота	1.1.131	1.1.151	**	2023-08-21 14:14:15	Download	<u> 순</u> 🗇
About	1018-4	v1.0.2023081804		2023-08-16 15:52:08	Download	<u> 순</u> 🗇
φ poou	1018-3	v1.0.2023081603		2023-08-16 15:14:35	Download	☆ 茴
	Total 56 Items				< 1 2 3 4 5 🚯	> 10 / Page ∨

5.7.3.3 **Download Firmware Packages**

Users can download firmware packages through **[Download]** button in the Firmware File column.

	+ New				Q. Enter firmware na	ame to sea
Site Monitoring						
Device Monitoring	Firmware Name	Version	Firmware Description	Create On	Firmware File	
Narm Managem v	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44:09	Download	슐
ystem Manage v	Version111Version111	Version111Version111		2023-08-21 18:39:28	Download	슐
lant Management 🤍	Version66666Version66666	Version66666Version66666		2023-08-21 17:53:54	Download	슏
та	1.1.131	1.1.151		2023-08-21 14:14:15	Download	⊉
oout	1018-4	v1.0.2023081804		2023-08-16 15:52:08	Download	⊉
	1018-3	v1.0.2023081603		2023-08-16 15:14:35	Download	⊉
	Total 56 Items				< 1 2 3 4 5 6 >	10 / Page
	Total So nems					107 P

5.7.3.4 Upload Firmware Packages

1. Users can upload firmware packages through **[Upload]** icon on the right hand column of the page.

Image: Set Mondage: Comparison Image: Mean Set Mondage: Set Mon	Image: Normal State Normal	central Monitor	Residential Inverter Dongle Smart Logg	er Residential Storage				
OrtA Test 0822 V4.0.0 desc 2023.08.21 04.09 Download Ø Syden Managen Version111Version111 2023.08.21 18.39.28 Download Ort Ø Syden Managen Version111Version111 2023.08.21 17.53.54 Download Ort Ø Part Managen 2023.08.21 17.53.54 Download Ort Ø ort 1.1.131 1.1151 2023.08.21 14.14.15 Download Ort Ø Acad 1018.4 v1 0.020201804 2023.08.21 14.14.15 Download Ort	OTA Test 0822 v4 0 0 desc 2023 08-22 10 44 09 Download of and		+ New				Q, Enter firmwar	e name to search
Version1111Version1111 Version111Version111 - 2023-08-21 18:39.28 Download © Plant Management Version666660 Version666666 - 2023-08-21 17:53.54 Download © © OLA 1.1.131 1.1.151 - 2023-08-21 14:14:15 Download © © ALA 1018-3 1.0.202308104 - 2023-08-21 14:15 Download ©	Version 1111Version 111 Version 066666 Version 066666 - 2023 08-21 18.39.28 Download - Version 066666 Version 066666 - 2023 08-21 17.53.54 Download - - Neuroscenter 11.131 1.1151 - 2023 08-21 14.151 Download - - 1018-4 v1.0202081044 - 2023 08-21 16.155.208 Download - - 1018-3 v1.0202081003 - - 2023 08-16 15.1335 Download - -	Device Monitoring	Firmware Name	Version	Firmware Description	Create On	Firmware File	
Version666605/Version666666 Version666605/Version666666 2023.08.2117.5354 Download 0 LA 1.1.131 1.1.151 2023.08.2114.151 Download © 0 LA 1018.4 v10.022081804 2023.08.2116.155.208 Download ©	Margane and Ansagene	Alarm Managem	OTA Test 0822	v4.0.0	desc	2023-08-22 10:44:09	Download	<u> 순</u> ::
Initialization Initial	1.1.131 1.1.151 2023.06.21 14.14.15 Download Image: Comparison of the compariso	System Manage v	Version111Version111	Version111Version111		2023-08-21 18:39:28	Download	∲ ⊡
About 1018-4 V1.0.2023081804 2023-08-16 15 52:08 Download C	1018-4 v1 0.2023081804 2023.08-16 15:52:08 Download 1 00 1018-3 v1 0.2023081603 2023-08-16 15:14:35 Download 1 00	Plant Management 🗸 🗸	Version66666Version66666	Version66666Version66666		2023-08-21 17:53:54	Download	∲ ⊡
2001 1019.2 1/10.2020/1002 1019.2 2/10.2020/1002 1019.2 2/10.2020 1019.2 2/10.2020 100000 100000 10000 10000 10000 10000 10000 100000 100000 10000 100	1018-3 v1.0.2023081603 . 2023-08-16 15:14:35 Download 🔶 🗇	DIA	1.1.131	1.1.151		2023-08-21 14:14:15	Download	☆ 茴
1018-3 v1 0.2023081603 . 2023-08-16 15:14-35 Download 🔶		About	1018-4	v1.0.2023081804		2023-08-16 15:52:08	Download	∲ ⊡
	Total 56 Items < 1 2 3 4 5 0 > 10 / Page v		1018-3	v1.0.2023081603		2023-08-16 15:14:35	Download	<u>ک</u> آ
Total 56 items < 1 2 3 4 5 0 > 10 / Pag								
			Total 56 Items				< 1 2 3 4 5 🚯	> 10 / Page v
			Total 56 Items				< 1 2 3 4 5 6	> 10 / Page \
			Total 56 Items				< 1 2 3 4 5 (6)	> 10 / Page 🛇
			Total 50 items				< 1 2 3 4 5 (3)	> 10 / Page 🔻
			Total 50 items				< 1 2 3 4 5 🕖	> 10 / Page \
			Total 56 Hems				< 1 2 3 4 5 🌒	> 10 / Page \
			Total 56 items				< 1 2 3 4 5 🚺	> 10 / Page 1

- 2. User will be able to track the upgrade task history on this page.
- 3. Click [Add Upgrade Task] to upload the firmware package.



ivers EMS >	← Firmware Management / Firmware Up	grade			
	1030_regression				
		pe Res_Inverter Firmware Description	test Label 1 [c]		
		-			
	+ Add upgrade task				Q Enter task name to search
	Upgrade Task Name	Upgrade Start Time	Task Creation Time	Operator	
	test	2023-10-30 16:10:42	2023-10-30 16:10:42	Rebecca.yu01	B
	Total 1 Items				< 1 > 10 / Page 🗸

- 4. Select the device/devices base on the device, device model or the version of the devices. The user can choose multiple devices.
- 5. Click [Confirm].

Part Management Q. Enter the company/plant n. Q. Enter the device model to 1.0.0 • o tA •	Q Contral Monitor ~ Li Site Monitoring	Choose Device Choose Device Device Choose Device Choose Device Choose Device	Device Nu: Selected(0)	Choose Device Current Ve: Selected(0)	Upgrade task settings Confirm Clear	
Image: Second and the state of the stat	9 OTA		None	A1234567890		
B1 tcompany2024.02.4 IsAHIB-00001CTHM Res Inverted/2020517			EESOLAR-6KTL-L1 IS-HYB-5000TL-1PH IS-HYB-5000TL-3PH IS-HYB-6000TL-1PH	V100R001C00SPC155 V100R001C00SPC156 V100R001C00SPC158		

6. A list of devices to be upgraded will be displayed.

ivers EMS	← Firmware Management / Firmware Upg	grade / Add Upgrade Task			
Central Monitor V					
Site Monitoring		1 Choose	Device ② Upgrade task settin	35	
Device Monitoring					
Alarm Managem	Choose Device 🕕				
System Manage 🗸 🗸	Device: Selected(1) v	Device Nu : Selected(0) V Current Ve	: Selected(0) v Confirm Clear		
Plant Monagement 🛛 🗸	Device Name	SN	Device Number	Software Number	Device Status
οτα	Inverter-1	16e7fc0f3e6a	Res_Inverter20230927	v1.0.20230927	 inactive
About	Inverter-1	846b2317		v1.0.20230814	* offline
	Inverter-2	13083811		v1.0.20230814	* offline
	Inverter-3	b8775e44		v1.0.20230814	• offline
	Total 4 Items				< 1 > 10 / Page >
Į					-

- 7. Click [Next].
- 8. Fill in the upgrade task settings, such as task name, upgrade window.

Univers EMS >	← Firmware Management / Firmware Upgrade / Add Upgrade Task
	Choose Device O Upgrade task settings
	Task name * Please enter a task name
	<i>k</i>
	0764
🗘 OTA	Update Window *
About	O Update Now
	Upgrade timeout
	Please Enter minutes
	Please enter an integer between 5 and 2880
	Failed to retry
	I have been authorized by the equipment owner to upgrade the equipment remotely.
	Submit Previous

9. The user can choose to enter an upgrade timeout minutes. Hover on the information icon to view the description of the Upgrade Timeout: If the device selected above does not return a verification result (success or failure) within this time period, the task will fail.



Univers EMS >	🗲 Firmware Management / Firmware Upgrade / Add Upgrade Task
🖳 Central Monitor 🗸 🗸	
篮 Site Monitoring	Choose Device (2) Upgrade task settings
Device Monitoring	
📩 Alarm Managern 🗸	Task name * Piease enter a task name
💋 System Manage 🗸	h.
🛛 Plant Management 🗸	0764
Φ ΟΤΑ	If the dware selected above does not return a verification result (success or Stature) within this time period, the task will
Ø About	tat.
	Upgrade timeoz 👩
	Please Enter minutes
	Please enter an integer between 5 and 2880
	Failed to retry
	I have been authorized by the equipment owner to upgrade the equipment remotely.
	Submit Previous

10. Toggle the switch to enable Failed to retry option. Enter retry interval minutes and number of retries. This option is for the system to retry upgrading if the first try has failed.

Univers EMS	🗧 Firmware Management / Firmware Upgrade / Add Upgrade Task	
	Occose Device 2 Upgrade task settings	
	0/64	
	Update Window *	
	O Update Now	
😫 OTA	Upgrade timeout 🕦	
	Please Enter minutes Please enter an integer between 5 and 2880	
	Field to retry	
	Retry Interval *	
	10 minutes	
	Please enter an integer between 5-1440	
	Number of retries •	
	2 times	
	Please onter 1~5	
	I have been authorized by the equipment owner to upgrade the equipment remotely.	
	Submit Previous	

- 11. Tick the consent box and click [Submit] to initialize the upgrade task.
- 12. The system will issue the firmware and remotely upgrade the device according to the definition of the upgrade task.

5.7.3.5 Track Upgrade Tasks

When the upgrade task starts, users can track the upgrade progress, and the page will display the upgrade progress. When the upgrade task is completed, the upgrade result will be displayed. If the upgrade fails, the reason for the failure will be reported. Users can retry the operation.

1. Select a firmware and click **[Upload]** icon on the right hand column of the page.

Control Memory Immunol Mana Version Firmware Description Create Con Firmware File Concert Firmware Name Version Firmware Description Create Con Firmware File Concert OTA Test 0822 v4.0.0 desc 2023.08.22 10.44.09 Docentod P for Management OTA Test 0822 v4.0.0 desc 2023.08.21 18.39.28 Docentod P for Management Version111Version111 2023.08.21 18.39.28 Docentod P for Management Version666600Version666660 2023.08.21 17.53.54 Docentod P for Management 11.131 1.1151 2023.08.21 11.1155.20.08 Docentod P for Management 1018.4 v1.0202081603 - 2023.08.15 15.20.08 Docentod
Demonstration Firmware Name Version Firmware Electropic Create On Firmware Electropic Advm Maragen OTA Test 0822 v4.0.0 desc 2023.08.22 10.44.09 Dominical Participation Version111Version111 Version111Version111 2023.08.21 18.39.28 Dominical Plant Maragen Version666666 2023.08.21 17.53.54 Dominical Plant Maragen 11.131 1.1151 2023.08.21 14.14.15 Dominical Plant Maragen vio.014 vio.0202081804 vio.0202081804 2023.08.21 14.14.15 Dominical
Water Managem Version 111 Version 111 Version 111 Version 111 - 2023 08 21 18 39 28 Download © Plant Managem Version666666 Version666666 Version666666 Version666666 - 2023 08 21 17.55 54 Download © Plant Managem 1.1.131 1.1.151 - 2023 08 21 14.14.155 Download © Plant Managem 101.84 v1.0.203081084 - 2023.08.21 14.14.155 Download
Optimul Management Version866660Version866660 Version866660Version866660
Plant Managament Plant Managament<
OA International International About 1018-4 v1.0.2023081804 2023-08-16 15 52.08 Download
About
1018 3 v1 0.2023/081603 2023/08 16 15 14:35 Download
1010-3 ¥1.02023001003 2025001010.14.33 20200010
Total 56 Items < 1 2 3 4 5 🕜 > 107

2. Click the [details] icon of the upgrade task that the use wants to track.

Univers EMS >	Firmware Management / Firmware Upgrade	
Central Monitor V	1030_regression	
Site Monitoring	Firmware Number v1030.01 Device Type Res_Inverter Firmware Description test Label 1 🗖	
Device Monitoring	+ Add upgrade task	Q. Enter task name to search
B System Manage V	Upgrade Task Name Upgrade Start Time Task Creation Time Operator	
 Plant Management v 	test 2023-10-30 16:10:42 2023-10-30 16:10:42 Rebecca yu01	
© 01A	Total 1 ltems	< (1) > 10 / Page 🗸
About		

3. On the Task Detail page, the user can filter the tasks according to the device model, device, upgrade status and firmware version.

Site Monitoring	Device Nu : Selected(0)	Device: Selected(0)	Update Sta: Selected(0)	Current Ve: Selected(0)	Query Reset
	Q. Enter the device model to search	Q. Enter the company/plant name to se	Firmware to be issued	1.0.0	
	E None		Firmware issued	1H	or SN to search
	5KTL-L1		y Upgrading	a A1234567890	le Progress
	EESOLAR-29.9KTL-M3	Plant2024-02-04 🗸	_ Successfully upgraded	B1234567890	EO
	EESOLAR-6KTL-L1		Failed to upgrade	V100R001C00SPC155	EU
στα	IS-HYB-5000TL-1PH			V100R001C00SPC156	< 1 > 10 / Page 🗸
About	IS-HYB-5000TL-3PH			V100R001C00SPC158	
ADOUR	IS-HYB-6000TL-1PH			V100R001C20SPC122	
	Res_Inverter20230517	Plant2024-02-04 ~			

4. The user can track the upgrade progress and status of each task.

Univers EMS	Firmware Management / Firmware Upgrade	/ Task Detail			
🖳 Central Monitor 🗸 🗸	Device Nu : Selected(0)	V Device: Selected(0)	V Update Sta: Selected(0)	Current Ve: Selected(0)	V Query Reset
🖾 Site Monitoring	Device Hu Selecteu(0)	 Device. Selected(0) 	 Opuale Sta Scieuleu(0) 	Current ve Selected(0)	 Query Reset
Device Monitoring	Batch Retry			Q, Enter	Device Name or SN to search
ής Alerm Managem ν	Device Name SN	Device Number Current Version	Version number to be upgraded Device Status	Installation company/site Upgrade Progress	Update Status 🔘
💋 System Manage 🗸	Inverter-1 9d495a94b13d	Res_Inverter20230 v1.0.20230605	v1030.01 offline	Plant01/rebecca site02 0%	Firmware to be issi
Plant Management ~	Total 1 Items				< (1) > 10 / Page >
AIO 🍄					lorrage -
About					

5. If the task has failed, the cause of failure will be displayed as well.

Univers EMS	← Firmware Management / Firmw	vare Upgrade / Task Deta	ail						
모 Central Monitor V	Device Nu : Selected(0)	v	Device: Selected(0))	V Update Sta:	Selected(0)	V Current Ve : Selected(0)	Que	ry Reset
🖾 Site Monitoring									-
Device Monitoring	Batch Retry							Q. Enter Device Name or SN to	o search
💥 Alarm Managem 🗸	Current Version	Version number to be upgraded	Device Status	Installation company/site	Upgrade Progress	Update Status 🕕	Cause of Failure	Status Update Time	
₿ System Manage ∨		v1030.01	offline	Plant01/rebecca site02		0% • Firmware to be issued		2023-10-30 16:10:41	E O
Plant Management	Total 1 Items							< (1	> 10 / Page V
\$ 0TA									
O About									

6. The user can click **[Batch Retry]** to batch retry upgrading.

Univers EMS	← Firmware Management / Firmware Upgra	de / Task Detail			
🕎 Central Monitor 🗸	Device Nu : Selected(0)	V Device: Selected(0)	V Update Sta: Selected(0)	Current Ve : Selected(0)	V Query Reset
Site Monitoring		· Dunc. occupy	· Opulational Science(0)		· Coory Nost
Device Monitoring	Batch Retry			Q, Ent	er Device Name or SN to search
🖄 Alarm Managem	Device Name SN	Device Number Current Version	Version number to be upgraded Device Status	Installation company/site Upgrade Progress	Update Status 🕕
💋 System Manage 🗸 🗸	Inverter-1 9d495a94b13d	Res_Inverter20230 v1.0.20230605	v1030.01 offline	Plant01/rebecca site02 0	% • Firmware to be issi 🖹 🔿
Plant Management ~	Total 1 Items				< (1) > 10 / Page >
Φ ΟΤΑ					
O About					
			4	业做信	
			12	11.00.15 I	

5.8 Northbound Management

Pre-requisite: You are using a System Admin/Installer Admin account.

Northbound Management module is used to create northbound user and assign plant permissions to the northbound user.

The northbound user list includes User name, Identifier, Secret key and Description. Secret key is used if the user uses access token to invoke open API.

Univers EMS User Manual Rev. 1.3.1

Jnivers EMS	~	+ Add User				Q. Search for username
	~	User name	Identifier	Secret key		Description
	~	smokeTest2024-02-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144******c1d	۲	smokeTest
Jarm Management	•	1111	40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b*******404	0	1111
System Managem	~	rebeccaOpenAPI01	2b470702-b291-4f99-882e-4af245878fef	14d9e******aaf	0	rebeccaOpenAPI01
		rebeccaOpenAPI	a3834e79-0cf3-4449-83f5-979547a66130	98114*******eaa	0	Open API SA
Plant Management	ř	test 011010	5cae3805-e472-417d-b0c0-717dea65b16f	b7354*****594	0	test00001
		test1113_04	64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	٢	test1113_04
lorthbound Manage		test1113_03	f6d193ca-e748-4b41-a472-0d2520b7b128	75f05*******469	۲	test1113_03
		test1113_02	ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7*******ebf	0	test1113_02
		test1113_01	cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	۲	test1113_01
		test1113	8caa54a4-6119-49f6-bdf8-d4c8acdd57ee	c557a******fa4	۲	test1113
		Total: 29				< 1 2 3 > 10 / Page

5.8.1 Add Northbound User

1. To add a northbound user, please click the button [Add User].

Univers EMS >	+ Add User					Q Search for username
Central Monitor V	User name	Identifier	Secret key		Description	
Site Monitor V	smokeTest2024-02-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144*******c1d	۲	smokeTest	
Alarm Management 🗸	1111	40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b*******404	٢	1111	
System Managem V	rebeccaOpenAPI01	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	۲	rebeccaOpenAl	2101
	rebeccaOpenAPI	a3834e79-0cf3-4449-83f5-979547a66130	98114******eaa	۲	Open API SA	
Plant Management ~	test 011010	5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	٢	test00001	
OTA Upgrades	test1113_04	64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	۲	test1113_04	
Northbound Manage	test1113_03	f6d193ca-e748-4b41-a472-0d2520b7b128	75f05***********************************	٢	test1113_03	
	test1113_02	ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7*******ebf	٢	test1113_02	
	test1113_01	cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	٢	test1113_01	
	test1113	8caa54a4-6119-49f6-bdf8-d4c8acdd57ee	c557a******fa4	۲	test1113	
	Total: 29					< 1 2 3 > 10 / Page 🗸

- 2. Input the user name and the description.
- 3. Click [Apply] and the northbound user will be created.

— P

Univers EMS	>	+ Add User							Q Search for username
	~	User name	Identifier		Secret key			Description	
	~	smokeTest2024-02-04	ca4af29f-e907-4c	8e-8f5d-77b0f3b5b8f5	2b144***********************************	**c1d	0	smokeTest	
Alarm Management	~	1111	40e76a9a-bdfb-40	06c-aaf3-d1fe7fc063c5	b6f5b******	*404	0	1111	
System Managem		rebeccaOpenAPI01	2b470702-b291	Add Northbound User		×	0	rebeccaOpenAF	101
		rebeccaOpenAPI	a3834e79-0cf3-	User name *			0	Open API SA	
Plant Management	Ť	test 011010	5cae3805-e472	Please Input		0 / 100	0	test00001	
		test1113_04	64602a8b-50ff-4	Description *			0	test1113_04	
Northbound Manage	θ	test1113_03	f6d193ca-e748-	Please Input			0	test1113_03	
		test1113_02	ca27d4ab-c6ac-				0	test1113_02	
		test1113_01	cb1c9e0a-fe1f-4			0/200	0	test1113_01	
		test1113	8caa54a4-6119-				0	test1113	
		Total: 29			Cancel	Apply			< 1 2 3 > 10 / Page ∨

4. Click the **[View]** icon besides the Secret Key, you will be able to view the full secret key.

Univers EMS	+ Add User				Q. Search for username
Central Monitor ~	User name	Identifier	Secret key		Description
Site Monitor V	test user manual	847a47fc-67be-4522-8e70-787d322259a9	4d823******325	0	create for user manual
Alarm Management 🗸 🗸	smokeTest2024-02-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144*******c1d	\odot	smokeTest
System Managem V	1111	40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b********404	0	1111
	rebeccaOpenAPI01	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	0	rebeccaOpenAPI01
Plant Management 🗸 🗸	rebeccaOpenAPI	a3834e79-0cf3-4449-83f5-979547a66130	98114******eaa	0	Open API SA
OTA Upgrades	test 011010	5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	0	test00001
Northbound Manage	test1113_04	64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	0	test1113_04
	test1113_03	f6d193ca-e748-4b41-a472-0d2520b7b128	75f05***********************************	0	test1113_03
	test1113_02	ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7******ebf	\odot	test1113_02
	test1113_01	cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	0	test1113_01
	Total: 30				< 1 2 3 > 10 / Page 🗸

5.8.2 Edit Northbound User

1. Scroll the window to the right and click the [Edit] icon.

Univers EMS User Manual Rev. 1.3.1

Univers EMS	+ Add User					Q. Search for username
		Identifier	Secret key		Description	Edit
		847a47fc-67be-4522-8e70-787d322259a9	4d823************************************	0	create for user manual	2 🗇 🔟
Alarm Management V	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144*******c1d	۲	smokeTest	∠ ⊙ ⊡
		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b*******404	0	1111	2 🛈 🗇
System Managem v	1	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	0	rebeccaOpenAPI01	2 🛈 🗇
		a3834e79-0cf3-4449-83f5-979547a66130	98114*******eaa	0	Open API SA	2 🛈 🛅
OTA Upgrades		5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	٢	test00001	<u>/</u> 🛈 🛅
Northbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	٢	test1113_04	2 💿 🖻
		f6d193ca-e748-4b41-a472-0d2520b7b128	75f05***********************************	0	test1113_03	2 💿 🖽
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7*******ebf	0	test1113_02	2 💿 🖻
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649*******c16	۲	test1113_01	2 🛈 🗇
	Total: 30					< 1 2 3 > 10/Page 🗸
						-

2. You can edit the description for the northbound user.

Univers EMS >	+ Add User			Q. Search for username
Central Monitor ~	Identifier	Secont key Descrin	^{di} on	
Site Monitor 🛛 🗸	847a47fc-67be-4522-8e70-787d322;	Edit Northbound User ×	user manual	∠ ⊙ ⊞
Alarm Management 🖂	2-04 ca4af29f-e907-4c8e-8f5d-77b0f3b5b	User name •	st	∠ ⊙ ⊞
System Managem 🛩	40e76a9a-bdfb-406c-aaf3-d1fe7fc06	test user manual		∠ ⊙ ⊡
	1 2b470702-b291-4f99-882e-4af24587	Identifier	penAPI01	∠ ⊙ ⊡
Plant Management 🗠	a3834e79-0cf3-4449-83f5-979547a6	847a47fc-67be-4522-8e70-787d322259a9	SA	∠ ⊙ ⊞
OTA Upgrades	5cae3805-e472-417d-b0c0-717dea6	Secret key		∠ ⊙ ⊞
Northbound Manage	64602a8b-50ff-4eb4-b499-15062c14	4d823************************************	04	∠ ⊙ ⊞
	f6d193ca-e748-4b41-a472-0d2520b7	Description *	03	∠ ⊙ ⊞
	ca27d4ab-c6ac-4c7c-8cf2-9b6ae82ft	create for user manual	02	∠ ⊙ ⊡
	cb1c9e0a-fe1f-46b5-9008-a3584ded		.01	∠ ⊙ ⊡
	Total: 30	22 / 200		< 1 2 3 > 10 / Page v
		Cancel Save		

3. Click **[Save]** to save the changes.

5.8.3 Manage Northbound User

1. Scroll the window to the right and click the [Manage] icon.

Univers EMS >	+ Add User					Q. Search for username
		Identifier	Secret key		Description	Manage
		847a47fc-67be-4522-8e70-787d322259a9	4d823*******325	0	create for user manual	∠ ⊙ 🗇
Alarm Management 🗸 🗸	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144********c1d	۲	smokeTest	2 🖸 🗇
System Managem V		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b*******404	۲	1111	2 🖸 🗇
	1	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	۲	rebeccaOpenAPI01	2 💿 🖻
Plant Management v		a3834e79-0cf3-4449-83f5-979547a66130	98114******eaa	0	Open API SA	∠ ⊙ ⊡
		5cae3805-e472-417d-b0c0-717dea65b16f	b7354*****594	0	test00001	2 💿 🗇
Northbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	٢	test1113_04	2 🛈 🗇
		f6d193ca-e748-4b41-a472-0d2520b7b128	75f05*******469	٢	test1113_03	2 🛈 🗇
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7******ebf	0	test1113_02	_ ⊙ ⊡
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649*******c16	0	test1113_01	∠ ⊙ ⊡
	Total: 30					< 1 2 3 > 10 / Page \

2. Tick the box of the plants that you want to assign to the northbound user. The selected plants will appear on the Selected List on the right. You can select multiple sites.

	+ Add User				Q. Search for username
Central Monitor V	Identifier				
Site Monitor V	847a47fc-67be-4	Plant Management		×	∠ ⊙ ⊞
Alarm Management V	2-04 ca4af29f-e907-4	Selectable List	Selected List 1	Clear All	∠ ⊙ ⊡
System Managem v	40e76a9a-bdfb-4	Q. Enter	Q Search by site name		∠ ⊙ ⊡
	1 2b470702-b291-	₽ testsite00123	Test Site 004	ū	2 💿 🗇
Plant Management V	a3834e79-0cf3-4	P Test upload file final			∠ ⊙ ⊡
OTA Upgrades	5cae3805-e472-	📃 🚇 Test upload file Jimmy			∠ ⊙ ⊞
Northbound Manage	64602a8b-50ff-4	Est site photo			∠ ⊙ ⊞
	f6d193ca-e748-4	 			2 0 🖻
	ca27d4ab-c6ac-	Todd test			2 💿 🖻
	cb1c9e0a-fe1f-4a	要 HHTestSite001			2 💿 🖻
	Total: 30	☐ ∰ test001			< 1 2 3 > 10 / Page ∨
				Cancel	

3. Click the **[Delete]** icon on the right if you do not wish to grant the permission of the selected site to the northbound user.

s EMS User .3.1	Manual				En	(C
ers EMS > + Ad	d User				Q. Search for usern	iame	
Aonitor 🗸	847a47fc-67be-4	Plant Management		×	P	•	ū
Management ~ 2-04	ca4af29f-e907-4	Selectable List	Selected List 1	Clear All		٢	
n Managem v 1 Management v pgrades	40e76a9a-bdfb- 2b470702-b291- a3834e79-0cf3-4 5cae3805-e472- 64602a8b-50ff-4	Q. Enter > □ Installer Company > □ InstallerAdminRegistration > □ □ □	Q. Search by site name		L L L	 ○ ○ ○ ○ ○ ○ 	0 0 0
	f6d193ca-e748-4 ca27d4ab-c6ac-				l L	0 0	10 10
Total:	cb1c9e0a-fe1f-4				< 1 2 3 >	0 /	
				Cancel OK			

4. Click **[OK]** to assign the plants permission to the northbound user.

5.8.4 Delete Northbound User

1. Scroll the window to the right and click the [Delete] icon to delete the northbound user.

Univers EMS	+ Add User					Q. Search for usern	ame
Central Monitor V		Identifier	Secret key		Description		Delete
Site Monitor V		847a47fc-67be-4522-8e70-787d322259a9	4d823*******325	٢	create for user manual	2	• 🖻
Alarm Management 🗸 🗸	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144*******c1d	۲	smokeTest	L	
System Managem V		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b*********404	0	1111	2	• ±
	1	2b470702-b291-4f99-882e-4af245878fef	14d9e*******aaf	٢	rebeccaOpenAPI01	2	•
Plant Management 🗸 🗸		a3834e79-0cf3-4449-83f5-979547a66130	98114******eaa	٢	Open API SA	2	•
OTA Upgrades		5cae3805-e472-417d-b0c0-717dea65b16f	b7354******594	٢	test00001	_	•
Northbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	c3d99******d22	٢	test1113_04	2	•
		f6d193ca-e748-4b41-a472-0d2520b7b128	75105***********************************	\odot	test1113_03	2	•
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	25be7********ebf	۲	test1113_02	2	•
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	۲	test1113_01	L	•
	Total: 30					< 1 2 3 >	10 / Page 🗸

2. Click the [Delete] button on the pop-up window to double confirm the deletion.

Inivers EMS >	+ Add User					Q. Search for usern	ame	
entral Monitor 🛛 🗸		Identifier	Secret key		Description			
ite Monitor 🛛 🗸 🗸		847a47fc-67be-4522-8e70-787d322259a9	4d823******325	0	create for user manual	L	0 🗉	ů.
larm Management 🗸 🗸	2-04	ca4af29f-e907-4c8e-8f5d-77b0f3b5b8f5	2b144******c1d	0	smokeTest	2	0	ů.
		40e76a9a-bdfb-406c-aaf3-d1fe7fc063c5	b6f5b******404	0	1111	2	0	ů.
ystem Managem 🗸	1	2b470702-b291-4f99-882e-4af245878fef	14d9e******aaf	0	rebeccaOpenAPI01	L	0	Ü
lant Management 🗸 🗸		a3834e79-0cf3-4449-83f5-979547a66130	Delete Northbound User	×	open API SA	2	0 ē	Ü
TA Upgrades		5cae3805-e472-417d-b0c0-717dea65b16f			est00001	L	0 🗉	Ü
orthbound Manage		64602a8b-50ff-4eb4-b499-15062c14baec	User and associated permission will be deleted and cannot be recovered. Are you sure you want to delete	e this	ost1113_04	L	0 ē	Ū
		f6d193ca-e748-4b41-a472-0d2520b7b128	user?		ost1113_03	L	0 🗉	Ü
		ca27d4ab-c6ac-4c7c-8cf2-9b6ae82fb2f3	Cancel De	lete	st1113_02	2	0	ů
		cb1c9e0a-fe1f-46b5-9008-a3584deda3be	43649***********************************	0	test1113_01	<u>_</u>	0	ii ii
	Total: 30					< 0 2 3 >	10 / Pa	Jge ∨

3. The northbound user is then deleted.

5.9 Company & User Management

5.9.1 Company Management

Pre-requisite: You are using a System Admin/Installer Admin/Installer account.

The application provides the module of multi-level company management, which can be flexibly supported by the multi-level distributor and installer model of overseas household savings. Company Management module is for System Admin and Installer Admin to manage the sub-companies. The user can create, edit, or delete a sub-company. The user is allowed to create up to four levels of sub-companies under the root node.

You can access the page by go to **[System Management]** and then **[Company and User Management].** The page will show a list of sub-companies that you have permission, together with the user list under the selected company.

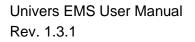
Univers EMS >	Q Search	Add User					Q Enter A Keyword
Central Monitor	Q Search	Username	Service provider T	Role 🐨	Status	User Email	
Site Monitoring	▼ ■ parent_company	02	02_Edit	Installer admin	Disabled	02@163.com	∠ ⊡ …
Device Monitoring	▶ 🗈 02_Edit	05	05edit	Installer admin	 Enabled 	05@maildrop.cc	∠ ⊡ …
🖄 Alarm Managem 🗸	E 03	111000	Company03	Installer	 Enabled 	Hhj@11.com	∠ ⊡ …
👂 System Manage 🗠	En 22 ▼En Company02002	123213123123213123123	Company03	Installer admin	 Enabled 	121231123213@qq.com	∠ ⊡ …
Company and User	▼En Company02002	12323312213123123123123	Company04	Users	 Enabled 	123312123123132@qq.com	2
artheta System Configuration	-	123312123123	Trina	Installer	 Enabled 	123213213@ccc.com	2
Plant Management	D 05edit	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com	∠ ⊡ …
Э ОТА	 envisiont estAportalfe 	123334	Company03	Users	 Enabled 	111@wwww.com	∠ ⊡ …
S About	En ztgTest02	16364747474748484847374	3737474747747477774747474	Installer admin	 Enabled 	bhhheudufuie@yyy.com	∠ ⊡ …
	Rebecca_demo01	21321312312213123123123	Company03	Installer	 Enabled 	213213213213213222@qq.com	n ∠⊡…
		Total 98 Items				< 1 2 3	3 4 5 10 > 10

5.9.1.1 Create Sub-Company

You can create more sub-company if needed.

- 1. Hover your mouse over a parent company that you want to add the sub-company to and hover over the [...] button on the right of the company.
- 2. Click on [Add Sub-company] button.

Univers EMS	Q Search	Add User					Q. Enter A Keyword
🖵 Central Monitor 🗸 🗸	Q Search	Username	Service provider	Role	Status	User Email	
E Site Monitoring	▼ 🗈 parent_company	02	02_Edit	Installer admin	 Disabled 	02@163.com	∠ ⊡ …
Device Monitoring	▶ 🗈 02_Edit	05	05edit	Installer admin	 Enabled 	05@maildrop.cc	∠ ⊡ …
ந் Alarm Managem 🗸	⊡ 03	111000	Company03	Installer	 Enabled 	Hhj@11.com	∠ ⊡ …
👂 System Manage 🗠	E1 22	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com	∠ ⊡ …
Company and User	Company02002	12323312213123123123123	Company04	Users	 Enabled 	123312123123132@qq.com	∠ ⊡ …
\mathscr{O} System Configuration	🐍 Add Sub-company	123312123123	Trina	Installer	 Enabled 	123213213@ccc.com	∠ ⊡ …
🔗 Plant Management 🗸 🗸	🖉 Edit Company	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com	∠ ⊡ …
OTA	Delete Company	123334	Company03	Users	 Enabled 	111@wwww.com	_ ⊡ …
🗘 About	E1 ztgTest02	16364747474748484847374	3737474747747477774747474	Installer admin	 Enabled 	bhhheudufuie@yyy.com	∠ ⊡ …
	Rebecca_demo01	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.com	∠ ⊡ …
		Total 98 Items				< 1 2 3	4 5 10 > 10/1





3. Enter the **Company name**, **Username** and **User email**. This user account will automatically be installer admin for this company.

👳 Central Monitor 🗸 🗸	Q Search	Add User				Add Sub-company
		Username	Service provider W	Role T	Status	Parent company Company02002
Site Monitoring	▼ parent_company	05	05edit	Installer admin	• Enable	Company02002
Device Monitoring	► En 02_Edit	123213123123213123123	Company03	Installer admin	• Enable	* Company Name
🖞 Alarm Managem 🗸	D 03	12323312213123123123123	Company03	Users	• Enable	Please enter company name
👂 System Manage 🗠	 En 22 ▼ En Company02002 	123312123123222	Company03	Installer admin	Enable	* Username
Company and User	• En Company02002	123334	Company03	Users	Enable	Please enter username
System Configuration	+ En Company04	21321312312213123123123	Company03	Installer	Enable	* User Email
Plant Management ~	D 05edit	Hhb	Company02002	Installer admin	Enable	Please enter User's email address
OTA	• 🗈 envisiont estAportalfe	Justtest	Company02002	Users	Enable	Company Email
∂ About	E ztgTest02	Yjh	Company04	Installer admin	Enable	Please enter company contact email
Philod	Rebecca_demo01	eee30	Company04	Users	Enable	Company Phone
						Please enter company contact phone number
		Total 42 Items				Company Website
						Please enter company website
						0/500

4. Press the [Complete] button to create the sub-company.

Note: Maximum four levels of company are allowed.

5.9.1.2 Delete Sub-Company

Pre-requisite: You only can delete a sub-company if there is no sub-companies, no users and no plants under this sub-company.

- 1. Hover your mouse over a company that you want to delete and hover over the [...] button on the right of the company.
- 2. Click on [Delete Company] button.

Univers EMS		Add User					Q. Enter A Key	auord
🖵 Central Monitor 🗸	Q Search	Add Oder					C Litter A Key	word
Site Monitoring	-	Username	Service provider T	Role	Status	User Email		
-	parent_company	02	02_Edit	Installer admin	 Disabled 	02@163.com	2	ū ··
Device Monitoring	▶ E 02_Edit E 03	05	05edit	Installer admin	 Enabled 	05@maildrop.cc	L	ā ··
ස් Alarm Managem 🗸	En 22	111000	Company03	Installer	 Enabled 	Hhj@11.com	0	ā ··
System Manage	• En Company02002	123213123123213123123	Company03	Installer admin	 Enabled 	121231123213@qq.com	0	
Company and User	• En Company03	12323312213123123123123	Company04	Users	 Enabled 	123312123123132@qq.com	0	·
C System Configuration	😓 Add Sub-company	123312123123	Trina	Installer	 Enabled 	123213213@ccc.com	0	
Plant Management V	🖉 Edit Company	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com	0	ā ··
ο ότα	Delete Company	123334	Company03	Users	 Enabled 	111@wwww.com	0	· • •
About	En ztgTest02	16364747474748484847374	3737474747747477774747474	Installer admin	 Enabled 	bhhheudufuie@yyy.com	0	ā ··
	En Rebecca_demo01	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.cor	m 🖉	·
		Total 98 Items				< 1 2	3 4 5 ••• 10) > 10

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3. Press [Delete] on the pop-up window to confirm the deletion.

5.9.1.3 Edit Sub-Company

- 1. Hover your mouse over a company that you want to edit and hover over the [...] button on the right of the company.
- 2. Click on [Edit Company] button.

Univers EMS		Add User					Q. Enter A	A Keyword
Central Monitor ·	Q Search	Username	Service provider	Role T	Status	User Email		
Site Monitoring	E parent_company	02	02_Edit	Installer admin	Disabled	02@163.com		∠ ⊡ …
Device Monitoring	D2_Edit	05	05edit	Installer admin	 Enabled 	05@maildrop.cc		∠ □ …
🖄 Alarm Managem 🗸	 D 03 D 22 	111000	Company03	Installer	 Enabled 	Hhj@11.com		∠ □ …
👂 System Manage 🗠	• En Company02002 ····	123213123123213123123	Company03	Installer admin	 Enabled 	121231123213@qq.com		∠ ⊡ …
Company and User	• Ph. Company03	12323312213123123123123	Company04	Users	 Enabled 	123312123123132@qq.com		∠ □ …
\mathscr{O} System Configuration	🐍 Add Sub-company	123312123123	Trina	Installer	 Enabled 	123213213@ccc.com		∠ □ …
🛇 Plant Management 🗸 🗸	∠ Edit Company	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com		⊿ ⊡ …
© 0TA	Delete Company	123334	Company03	Users	 Enabled 	111@wwww.com		∠ ⊡ …
O About	I ztgTest02	16364747474748484847374	3737474747747477774747474	Installer admin	 Enabled 	bhhheudufuie@yyy.com		_ ⊡ …
	Rebecca_demo01	21321312312213123123123	Company03	Installer	 Enabled 	213213213213213222@qq.cor	n	_ ⊡ …
		Total 98 Items				< 1 2	3 4 5	• 10 > 10

3. You can edit the company information such as the company name, email, phone, website, address and invitation code. Parent company is not editable.

Univers EMS >	Q Search	Add User			×	Edit Company
E Central Monitor · ·	Q search	Usemame	Service provider	T Role T	Status	Parent company
Site Monitoring	■ parent_company	05	05edit	Installer admin	 Enable 	Company04
Device Monitoring	▼ 🗈 02_Edit				_	* Company Name
📩 Alarm Managem 🗸	En 021	Total 1 Items				05edit
👂 System Manage 🗠	Eb 03					Company Email
Company and User	En 22					Company Email
 System Configuration 	Company02002 En Company03					Company Phone
😚 Plant Management 🗸	▼ En Company04					Company Phone
Φ ΟΤΑ	D5edit					Company Website
O About	🕨 🗈 envisiont estAportalf					Company Website
	En ztgTest02					
						0 / 500
						Company Address
						Company Address
						Cancel Complete

4. Press [Complete] to save the changes.

5.9.2 User Management

Pre-requisite: You are using a System Admin/Installer Admin/Installer account.

User Management page is designed for Admin, Installer Admin and Installer to manage the user accounts under his/her authority. This involves creating, deleting, and disabling a user account or reset password for a user account. Distinct roles have different management permissions:

- System Admin: can manage Installer Admin, Installer and End User accounts.
- Installer Admin: can manage Installer and End User accounts.
- Installer: Installer could manage End User accounts.

You can access the page by go to **[System Management]** and then **[Company and User Management].** The page will show a list of sub-companies that you have permission, together with the user list under the selected company.

Univers EMS >		Add User					Q. Enter A Keyword
🖵 Central Monitor 🗸 🗸	Q Search	Usemame	Service provider T	Role T	Status	User Email	
🖾 Site Monitoring	★	02	02_Edit	Installer admin	Disabled	02@163.com	2 亩 …
Device Monitoring	▼ En 02_Edit	05	05edit	Installer admin	Enabled	05@maildrop.cc	2 10
🖄 Alarm Managem 🗸	Eh 021	111000	Company03	Installer	 Enabled 	Hhj@11.com	2 亩 …
👂 System Manage 🗠	En 03 En 22	123213123123213123123	Company03	Installer admin	 Enabled 	121231123213@qq.com	2 亩…
Company and User	• En Company02002	12323312213123123123123	Company04	Users	Enabled	123312123123132@qq.com	2
System Configuration	• En Company03	123312123123	Company03	Installer	Enabled	123213213@ccc.com	2 亩…
🛇 Plant Management 🗸 🗸	- En Company04	123312123123222	Company03	Installer admin	Enabled	233232@www.com	∠ ⊡ …
\$ OTA	D 05edit	123334	Company03	Users	Enabled	111@wwww.com	2
O About	► En envisiont estAportalf	16364747474748484847374	3737474747747477774747474	Installer admin	Enabled	bhhheudufuie@yyy.com	2 亩 …
	Et ztgTest02	21321312312213123123123	Company03	Installer	 Enabled 	213213213213213222@qq.com	2 茴 …
		Total 98 Items				< 1 2 3	3 4 5 *** 10 > 10

5.9.2.1 User Account Creation through Management Page

For accounts already added in the App Portal Console, our system will automatically integrated their accounts in our application.

Inivers EMS	Company: Wholesale Plumber v	O Synchronize Asset Tree		0	Add User
Home Page	Add User				* User email
2 Central Monitoring ~					Please enter the email address
	Username	User Email	Role	Y Service provider	* Usemame
	000825	0825@163.com	Installer admin	Plant01	Please enter the username
Device Monitoring	04	04@163.com	System admin	Wholesale Plumt	* Role
2 O&M Management 🤟	0520	0520@maildrop.cc	System admin	Wholesale Plumt	Please select
c Oow management	0521	0521@163.com	System admin	Wholesale Plumb	
Device Management	06	06@163.com	System admin	Wholesale Plumt	* Service provider
Company and User Mgt	0614_test337	0614_test33701@163.com	Installer admin	0614_test337	Wholesale Plumber
] Message Center 🗸 🗸	0614_test346	0614_test34601@163.com	Installer admin	0614_test346	I have obtained the owner's authorization.
] Help and Feedback 🔗	0614_test348	0614_test34801@163.com	Installer admin	0614_test348	
	0614_test349	0614_test34901@163.com	Installer admin	0614_test349	
] More ~	0614_test351	0614_test35101@163.com	Installer admin	0614_test351	
] About	Total 2312 Items				

1. Click **[Add User]** button on the top of the user list.

- 2. User email: enter the user's **email** address. If the user's email has been already registered in App Portal Console, it will auto populate the username corresponding to the email address and the username is uneditable. If the user's email has not been registered, the account will be created here, no need to add the account again in App Portal Console.
- 3. Username: enter the **Username** for the user.
- 4. Role: select [Installer Admin]/[Installer]/[End User].
- 5. Service provider: select company this user belongs to
- 6. Check the **[box]** to consent that you have obtained the owner's authorization.
- 7. Press the [Complete] button to create the account.

5.9.2.2 User Account Deletion

1. Choose a user account that you wish to delete and click on the **[Delete]** button on the right hand side of the account.

nivers EMS >		Add User					Q. Enter A Keyword
Central Monitor V	Q Search	Usemame	Service provider T	Role T	Status	User Email	
Site Monitoring	• 🗈 1 parent_company	02	02_Edit	Installer admin	Disabled	02@163.com	20
Device Monitoring	- 🗈 02_Edit	05	05edit	Installer admin	 Enabled 	05@maildrop.cc	2 0
Alarm Managem 🗸 🗸	En 021 En 03	111000	Company03	Installer	 Enabled 	Hhj@11.com	20
System Manage ^		123213123123213123123	Company03	Installer admin	 Enabled 	121231123213@qq.com	20
Company and User	 E1 22 ★ E1 Company02002 	12323312213123123123123	Company04	Users	 Enabled 	123312123123132@qq.com	2 0
System Configuration	✓ I Company03	123312123123	Company03	Installer	Enabled	123213213@ccc.com	2 1
nt Management 🔍 🗸	- 🗈 Company04	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com	2 0
4	D 05edit	123334	Company03	Users	 Enabled 	111@wwww.com	2 茴
t	• En envisiont estAportalf	16364747474748484847374	373747474774747477774747474	Installer admin	Enabled	bhhheudufuie@yyy.com	LŌ
	₽ ztgTest02	21321312312213123123123	Company03	Installer	 Enabled 	213213213213213222@qq.com	n 2 ē
		Total 98 Items < (1) 2 3 4 5					

2. Press [Delete] on the pop-up window to confirm the deletion.

5.9.2.3 User Account Disabling

1. Choose a user account that you wish to disable, hover onto the [...] button on the right hand side of the account and click [Disable account].

Univers EMS >		Add User					Q. Enter A Keyword	
🖳 Central Monitor 🛛 🗸	Q Search	Usemame	Service provider T	Role T	Status	User Email		
Site Monitoring	• 🗈 1 parent_company	02	02_Edit	Installer admin	Disabled	02@163.com	② Disable account	
Device Monitoring	-	05	05edit	Installer admin	 Enabled 	05@maildrop.cc	O Reset password	
🖄 Alarm Managem 🗸	臣 021 臣 03	111000	Company03	Installer	 Enabled 	Hhj@11.com	20	
👂 System Manage 🗠		123213123123213123123	Company03	Installer admin	 Enabled 	121231123213@qq.com	20	
Company and User	 En 22 ▼ En Company02002 	12323312213123123123123	Company04	Users	 Enabled 	123312123123132@qq.com	2 0	
\mathscr{O} System Configuration	→ En Company03	123312123123	Company03	Installer	 Enabled 	123213213@ccc.com	2 0	
Plant Management	- En Company04	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com	2 0	
© 0TA	🗈 05edit	123334	Company03	Users	 Enabled 	111@wwww.com	2 0	
O About	envisiont estAportalf	16364747474748484847374	373747474774747477774747474	Installer admin	 Enabled 	bhhheudufuie@yyy.com	20	
	En ztgTest02	21321312312213123123123123	Company03	Installer	 Enabled 	213213213213213222@qq.cor	m 🖉 🗇	
		Total 98 Items				< 🚺 2	3 4 5 10 > 1	

- 2. You will see the status of the account became 'Disabled'.
- 3. To enable the account, perform the same steps.



5.9.2.4 Password Resetting

1. Choose a user account that you wish to reset the password, hover onto the [...] button on the right-hand side of the account and click [Reset password].

Univers EMS >		Add User					Q, Enter A	Keywo	ord
Central Monitor V	Q Search								
🖾 Site Monitoring	■ 1 parent_company	Username 02	Service provider T 02_Edit	Role T	Status Disabled	User Email 02@163.com	Disable		-
Device Monitoring	• 🗈 02_Edit	05	05edit	Installer admin	Enabled	05@maildrop.cc	O Reset p	nassword	d
📩 Alarm Managem 🗸	Eb 021 Eb 03	111000	Company03	Installer	Enabled	Hhj@11.com		21	ā -
System Manage ^	En 22	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com		21	ē ··
Company and User		12323312213123123123123	Company04	Users	Enabled	123312123123132@qq.com		0	ē ··
\mathscr{O} System Configuration	- En Company03	123312123123	Company03	Installer	Enabled	123213213@ccc.com		21	.
9 Plant Management V	▼ 🗈 Company04	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com		21	ē ··
∂ OTA	D 05edit	123334	Company03	Users	 Enabled 	111@wwww.com		2	ē ··
ð About	envisiont estAportalf	16364747474748484847374	373747474774747477774747474	Installer admin	 Enabled 	bhhheudufuie@yyy.com		21	ē
	En ztgTest02	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.com	n	2 0	ō
		Total 98 Items				< 🚺 2	3 4 5	10 >	> 10

2. A password reset email will be sent to this user's email.

5.9.2.5 User Account Editing

1. Choose a user account that you wish to edit and click on the **[Edit]** button on the righthand side of the account.

Univers EMS		Add User					Q. Enter A H	Kevwor	rd
🖳 Central Monitor 🗸	Q. Search								
🖾 Site Monitoring	• D parent_company	Username			Status	User Email			
Device Monitoring	✓ ID 02_Edit	02	02_Edit 05edit	Installer admin	 Disabled Enabled 	02@163.com 05@maildrop.cc			
🖄 Alarm Managem 🗸	Eb 021	111000	Company03	Installer	Enabled	Hhj@11.com			
System Manage ^	E 1 03	123213123123213123123	Company03	Installer admin	Enabled	121231123213@qq.com		20	
Company and User	Eb 22	12323312213123123123123123	Company04	Users	Enabled	123312123123132@gg.com		20	
System Configuration	 € Company02002 € Company03 	123312123123	Company03	Installer	 Enabled 	123213213@ccc.com		20	
Plant Management ~	▼ En Company04	123312123123222	Company03	Installer admin	 Enabled 	233232@www.com		2 0	i
9 OTA	Eb 05edit	123334	Company03	Users	Enabled	111@wwww.com		2 0	1
About	envisiont estAportalf	16364747474748484847374	373747474774747477774747474	Installer admin	 Enabled 	bhhheudufuie@yyy.com		20	j
	En ztgTest02	21321312312213123123123	Company03	Installer	Enabled	213213213213213222@qq.com	n	2 0	1
		Total 99 Items				< 🙆 2	3 4 5	10 >	10/

2. You could edit the company and the plant for the user.



Univers EMS		Add User				Edit user
	Q Search	Usemame	Service provider T	Role	Status	* Service provider
🖾 Site Monitoring	• En parent_company	02	02_Edit	Installer admin	Disable	Company04 v
Device Monitoring	02_Edit	05	05edit	Installer admin	 Enable 	* Role
📩 Alarm Managem 🗸	卧 021	111000	Company03	Installer	• Enable	Users v
🔑 System Manage 🔿	En 03 En 22	123213123123213123123	Company03	Installer admin	• Enable	* Username
Company and User		12323312213123123123123	Company04	Users	• Enable	12323312213123123123123
System Configuration	Ten Company03	123312123123	Company03	Installer	Enable	* User email
Plant Management ~	✓ Eh Company04	123312123123222	Company03	Installer admin	• Enable	123312123123132@qq.com
OP OTA		123334	Company03	Users	Enable	* Related Plant
🏵 About	envisiont estAportalf	16364747474748484847374	37374747477474777774747474	Installer admin	• Enable	Selected (1) Please Select
	En ztgTest02	21321312312213123123123	Company03	Installer	• Enable	I have obtained the owner's authorization.
		Total 99 Items				
						Cancel Comple

3. Tick the box after you have obtained the owner's authorization and press **[Complete]** to save the changes.

5.9.3 System Configuration

Pre-requisite: You are using a system admin account.

Go to **[System Management]** – **[System Configuration]**, you can edit your company's basic information here.

≡	EnOS		Ð	¢	hossain.admin ▼
Uni	ivers EMS	Company Information			
타	Central Monitor	Contact Number			
E	Site Monitoring				
Q	Device Monitoring	Email			
Ŕ	Alarm Managem	Company Website			
ez,	System Manage	x = -			
ទ	Company and User				
l d	System Configuration				
Ø	Plant Management				
Ŷ					
Ø	About				
		Edit			

5.10 System Management

5.10.1 Edit User Information

In personal settings, you could edit your own phone number information.

- 1. Click on the [Change] button besides the mobile number.
- 2. Choose your country code and enter your phone number.
- 3. Click [OK] to save.

Univers EMS	User_name	
Central Monitor ~	user@email.com	
Site Monitor	User Information	
Alarm Managem 🗵	Mobile Phone	+86 17777777777 Change
System Manage	Basic Settings	
Company and Us	Temperature Settings	Centigrade Degree("C) Shhrenheit Degree("F)
System Config.		① Temperature related indicators and device monitoring data will be calculated and displayed in the selected unit.
Personal Settings	Account Deletion	
Plant Management 🗸	Account Deletion	Apply for Account Deletion
OTA Upgrades		After account deletion, it cannot be retrieved. Please operate with caution.
WeCo Battery OTA		
Device Provisioning		
1 1 - 1		

5.10.2 Temperature Setting

You could configure the temperature unit by choosing Centigrade degree or Fahrenheit degree to calculate and display the temperature related indicators and device monitoring data in the selected unit.

Univers EMS	User_name
Central Monitor 🗸 🗸	user@email.com
Site Monitor V	User Information
Alarm Managem 🗸	Mobile Phone +86 1777777777 Change
System Manage 🗠	Basic Settings
Company and Us	Temperature Settings Centigrade Degree(*C) O Fahrenheit Degree(*F)
System Config.	① Temperature related indicators and device monitoring data will be calculated and displayed in the selected unit.
Personal Settings	Account Deletion
Plant Management ~	Account Deletion Apply for Account Deletion
OTA Upgrades	① After account deletion, it cannot be retrieved. Please operate with caution.
WeCo Battery OTA	
Device Provisioning	
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5.10.3 Account Deletion

You could delete your own user account by clicking the **[Apply for Account Deletion]** button.

Univers EMS	User_name	
Central Monitor 🗸 🗸	user@email.com	
Site Monitor V	User Information	
Alarm Managem 👻	Mobile Phone	+8617777777777 Change
System Manage	Basic Settings	
Company and Us	Temperature Settings	Centigrade Degree("C) Sahrenheit Degree("F)
System Config.		① Temperature related indicators and device monitoring data will be calculated and displayed in the selected unit.
Personal Settings	Account Deletion	
Plant Management 🗸	Account Deletion	Apply for Account Deletion
OTA Upgrades		After account deletion, it cannot be retrieved. Please operate with caution.
WeCo Battery OTA		
Device Provisioning		
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Read the account deletion notice carefully, after you have deleted your account, you are not able to use this account anymore and all the related data will be deleted.

Click on the box to agree with the account deletion notice and click [Apply for deletion].

Univers EMS	← Basic Settings / Account Deletion
Central Monitor V	Apply for Account Deletion
Site Monitor V	Please read, understand, and accept our account "Deletion Notice" before permanently deleting your MyNex account. If you do not agree with any part of this "Deletion Notice", please stop the account deletion procedure immediately.
Alarm Managem 🗸	Account deletion is permanent and cannot be reversed. We recommend that you make a backup copy of all information associated with your account and ensure that all services associated with your account have been properly attended. Once you delete your account, we will delete your personal information, content, and information saved in or associated with this account (except in cases required by national laws, regulations, rules, the property attended.
System Manage ^	government policies, orders, etc., or required to perform our contractual or compliance obligations).
Company and Use	You will no longer be able to access this account, or retrieve any content or information saved in or associated with this account (this is true even if you use the same personal details to register for a new MyNex account again).
System Config.	1. Please confirm your account status below before you proceed with account deletion. a. You are the authorized party to raise a request to delete your account.
Personal Settings	b. Your account is in a normal state, not subject to ongoing complaints, disputes, penalties, and no payment in arrears. c. There are no uncompleted orders or services tied to your account.
Plant Management V	d. The deletion of your account will not infringe the legitimate rights and interests of any third party.
OTA Upgrades	 Upon completion of account deletion, the circumstances including but not limited to the following will apply: You will not be able to join to or use this account, and you will not be able to retrieve any content or information related to the account. You will not be able to join to rest this account, and you will apply:
WeCo Battery OTA	c. You understand and accept that 1. MMkev will not be able to assist you with an account recovery request.
Device Provisioning	ii. Deleting your account does not exempt or diminish any rights, remedies, obligations, or liabilities caused by any activity associated with your account that has accrued before account deletion.
Help and Feedback \sim	
About	I agree with the above, voluntarily give up all rights and interests in the account, and no longer accept the corresponding services of the account.
	Apply for Deletion