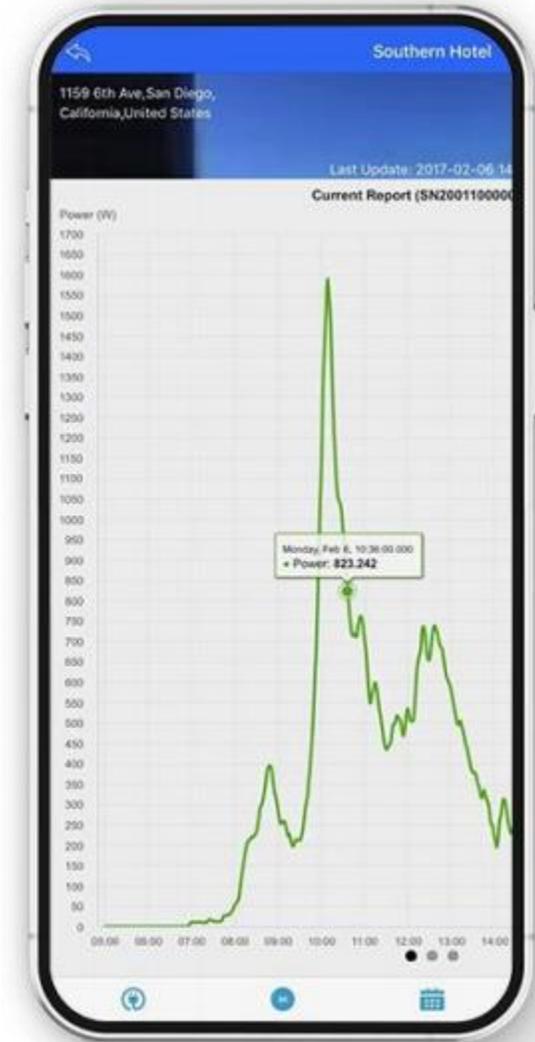


Microinverter APP User Guide

Northern Electric Power Co., Ltd.

Date: 12/2023

Revision: V2.0



1. Obtain NEPViewer App

2. Monitoring configuration

1. Notice
2. Create new account
3. Add PV plant
4. WiFi configuration (for iOS)
5. WiFi configuration (for Android)

3. PV Plant introduction

4. Setting

5. Additional information

1. Get and Open NEPViewer

- Obtain NEPViewer App



- Open NEPViewer

Search for NEPViewer in App Store (iOS) or Google Play (Android)



2. Monitoring Configuration - Notice

NOTICE

DO NOT CONNECT AC

In the state of DC connected, AC disconnected, AP mode of the microinverter will be activated. If AC connected by accident, please unplug AC, DC to wait for memory clearance of the microinverter.

2. Monitoring Configuration - Create new account

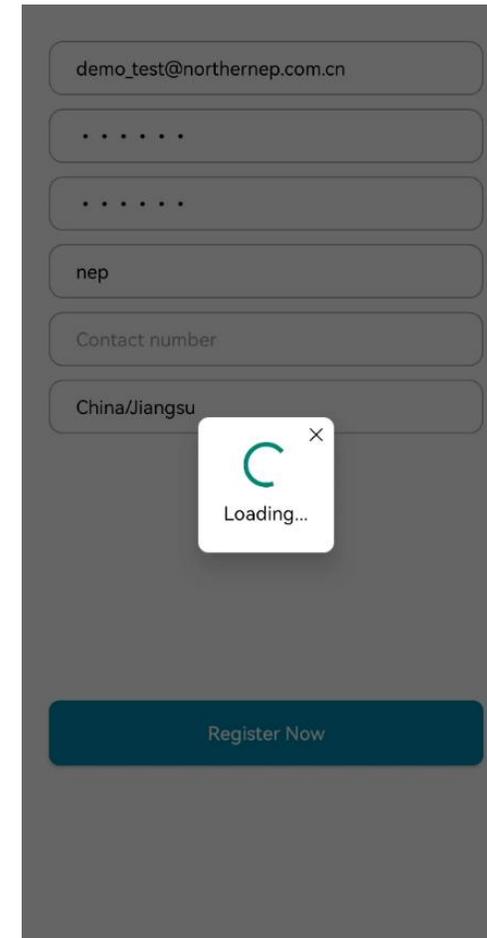


- For first time use, you need to register first.
 1. Enter e-mail format account
 2. Enter your password (Password must be at least 6 characters)
 3. Enter your password again for confirmation
 4. Enter user ID
 5. Enter your contact number (Optional)
 6. Select Country/Region
 7. Click "Register Now" (If registration succeeds, you will be logged in automatically. If registration fails, the reason for the failure will pop up.)

The screenshot shows the NEP registration interface. On the left, the NEP logo is at the top, followed by input fields for 'Email' and 'Password'. Below these are two buttons: 'Create New Account' (highlighted with a red box) and 'Reset Password'. A blue 'Sign in' button is at the bottom. On the right, the registration form is shown with seven numbered steps: 1. Email, 2. Password, 3. Confirm Password, 4. Name, 5. Contact number, 6. Country/Region, and 7. Register Now (a blue button).

2. Monitoring Configuration - Create new account

- After filling out the information, click **Register Now**, a prompt box 'Add Site' will pop up.
- If you want to add PV Site, you can click **Next**.
- If you click **Skip**, you'll go to the homepage.

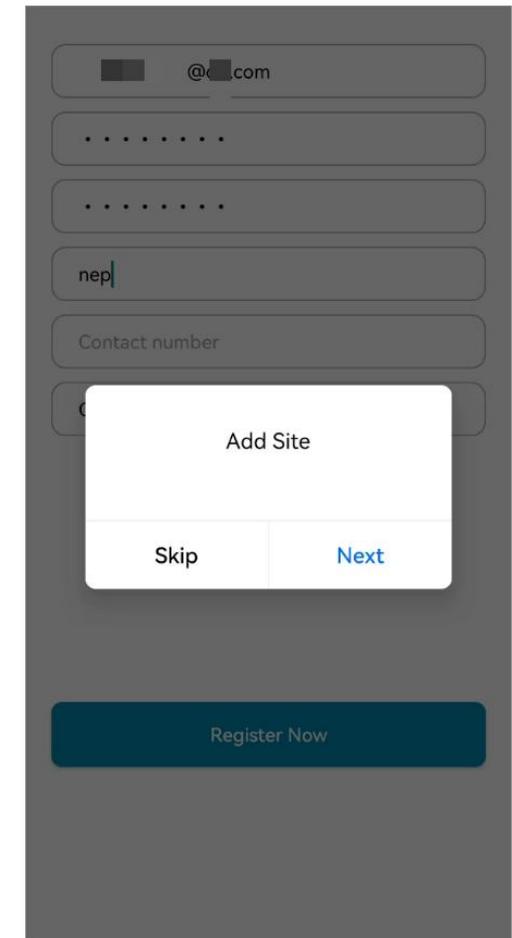


The registration form contains the following fields:

- demo_test@northernep.com.cn
-
-
- nep
- Contact number
- China/Jiangsu

A loading overlay is present in the center of the form, featuring a green circular progress indicator and the text "Loading...".

Register Now



The registration form contains the following fields:

- @.com
-
-
- nep
- Contact number
- C

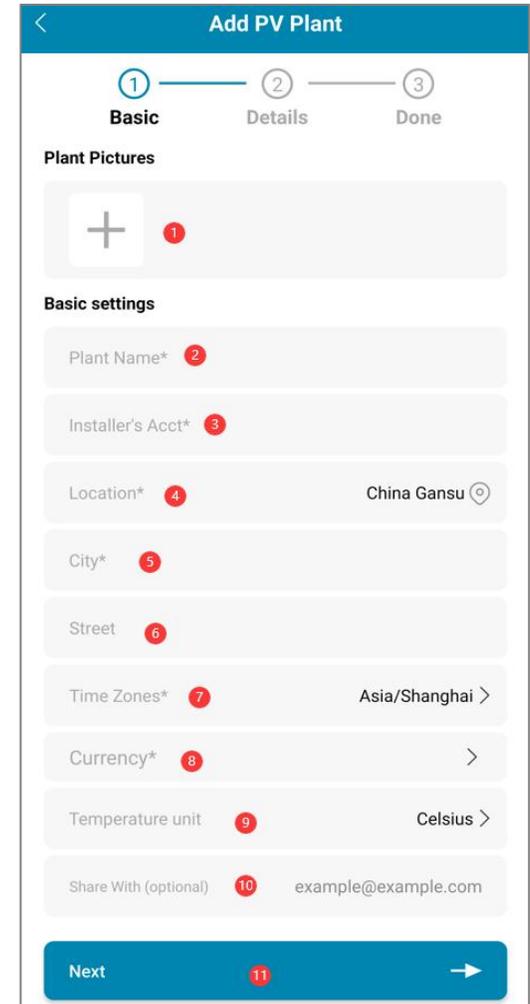
An "Add Site" pop-up dialog is displayed over the form, containing the following options:

- Skip
- Next

Register Now

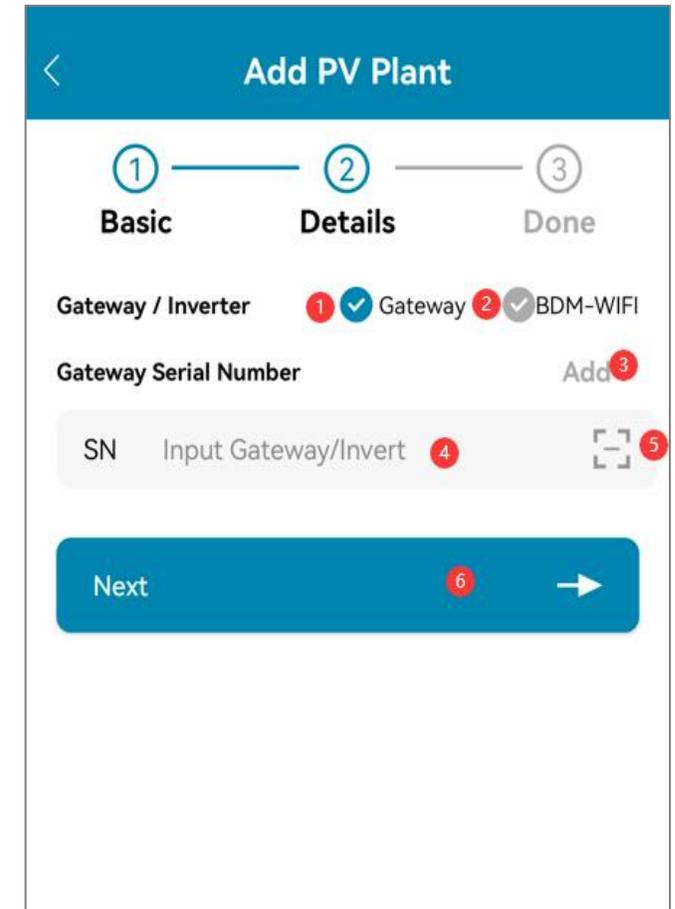
2. Monitoring Configuration - Add PV plant

1. Select photo of your plant (Optional. It will ask for authorization when you select photo from your gallery.)
2. Enter plant name (Necessary)
3. Enter installer e-mail (Necessary)
4. Click "Location" (Necessary. It will read country and region from where you are registering this site.)
5. Enter city name (Necessary)
6. Enter street name (Optional)
7. Click "Time zone" (Necessary. It will read time zone of "Location". If "Location" is modified, "Time zone" will be modified simultaneously.)
8. Currency (Necessary)
9. Select temperature unit (Optional)
10. Enter other viewer (Optional. You can enter multiple email addresses separated by ", ".)
Note: Others could see your plant information if you share it to them
11. Click "Next" to submit info which will be verified. Account will be created if there is no abnormalities.



2. Monitoring Configuration - Add PV plant

- If you're using a No-WiFi device (PLC communication), select **Gateway**, then enter the **SN Code** and click **Next**.
(only digits and letters in small capital)
- If you're using a WiFi device, select **BDM-WiFi**, then follow the following tutorial for WiFi Configuration.



Add PV Plant

① ——— ② ——— ③
Basic **Details** **Done**

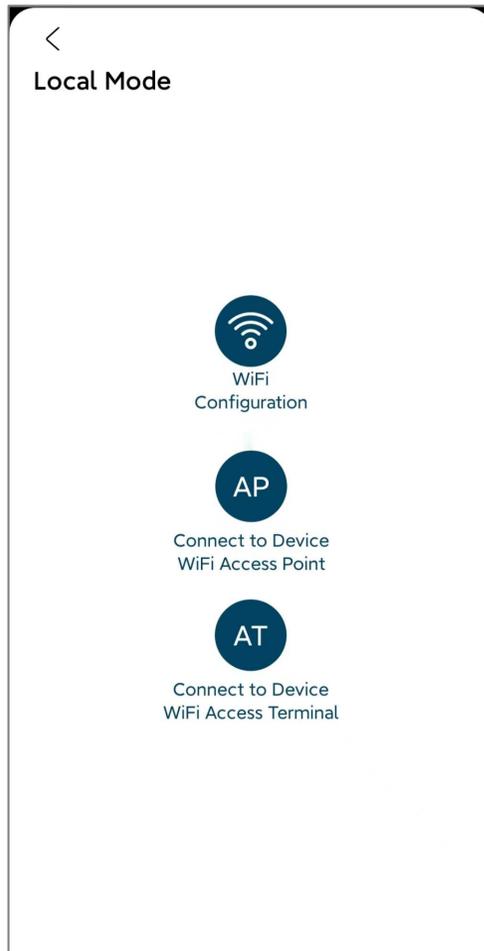
Gateway / Inverter 1 Gateway 2 BDM-WiFi

Gateway Serial Number Add ³

SN Input Gateway/Invert 4  5

Next ⁶ →

2. Monitoring Configuration - WiFi configuration



- Page 16~22 is **for Android**

- Page 10~15 is **for iOS**

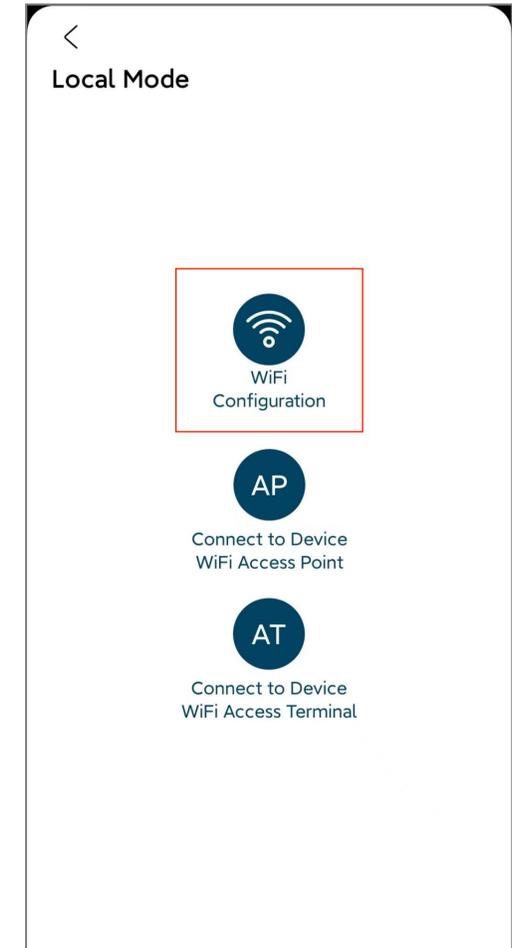
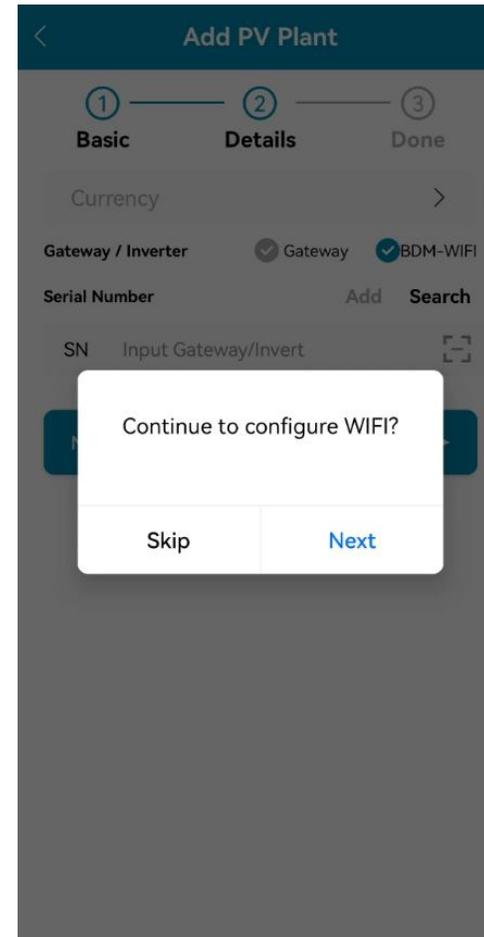


2. Monitoring Configuration - WiFi configuration (for iOS)

- If you select **BDM-WiFi**, a prompt box 'Continue to configure WIFI' will pop up, click **NEXT** and click **WiFi Configuration**.

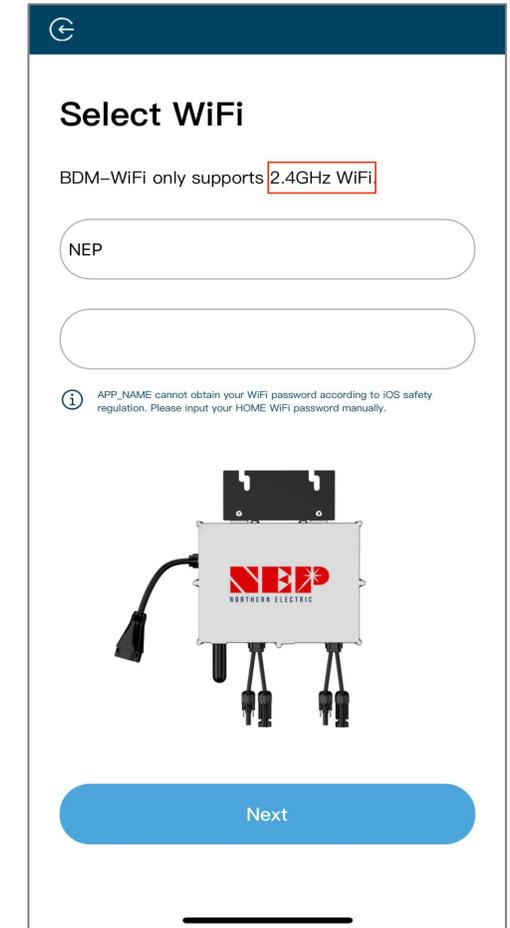
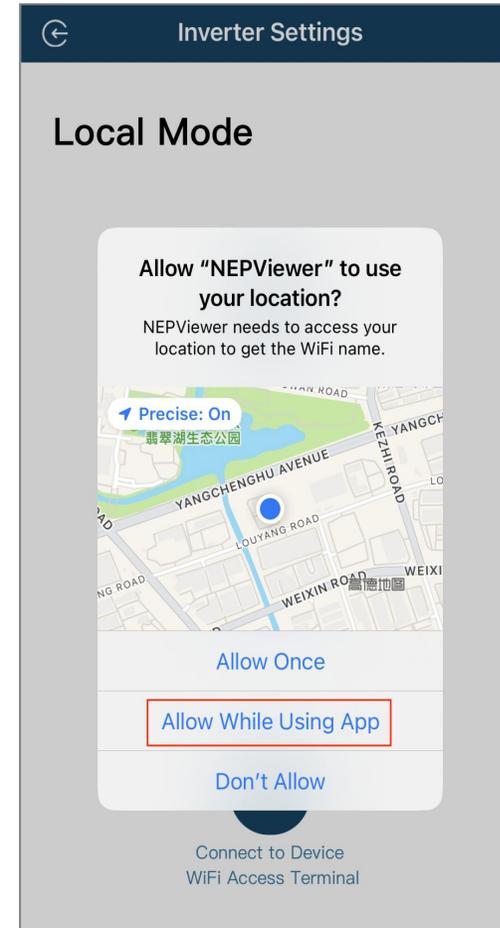
Reminder:

- For BDM600/800/1000/2000&BDH800:
Please make sure disconnect the AC
- For BDS1000:
Fast push **RESET Button** for 3times and confirm LED blinking
Note: RESET Button is on the right side of BDS1000)



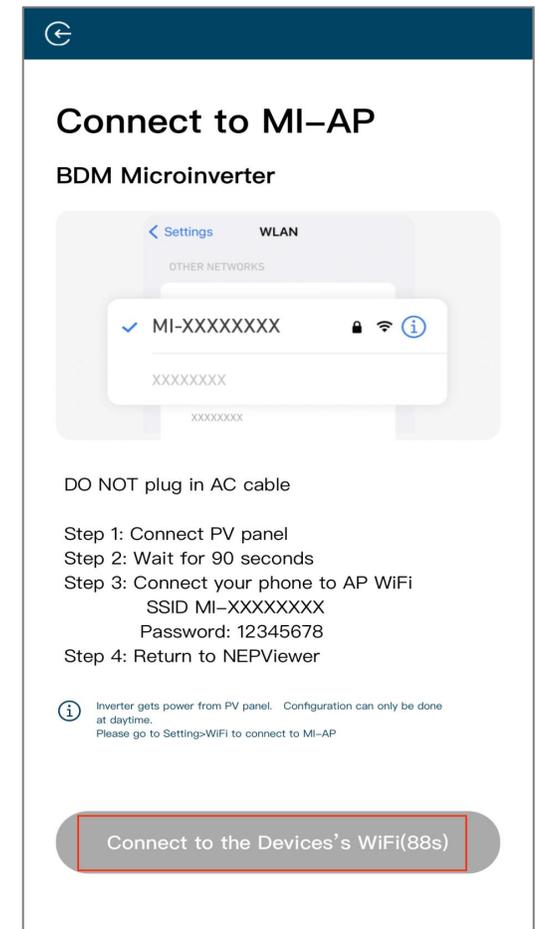
2. Monitoring Configuration - WiFi configuration (for iOS)

- Click **Allow** to obtain geographic location permission (only pops up when installing the app for the first time).
- Enter the home WiFi name (the current connected WiFi will be obtained by default).
- Enter the home wifi password (manual input is required).



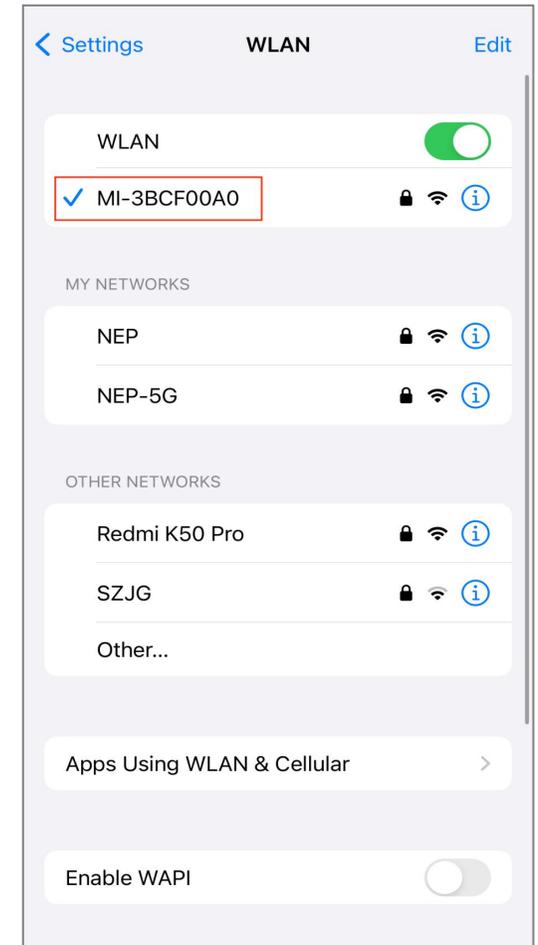
2. Monitoring Configuration - WiFi configuration (for iOS)

- Read the corresponding steps carefully within 90 seconds of the countdown and check that **only DC is plugged in.**



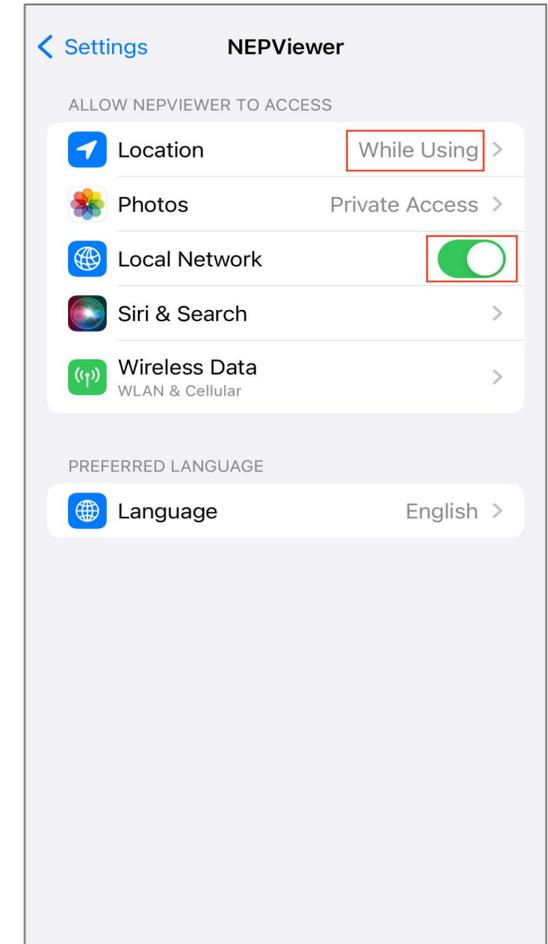
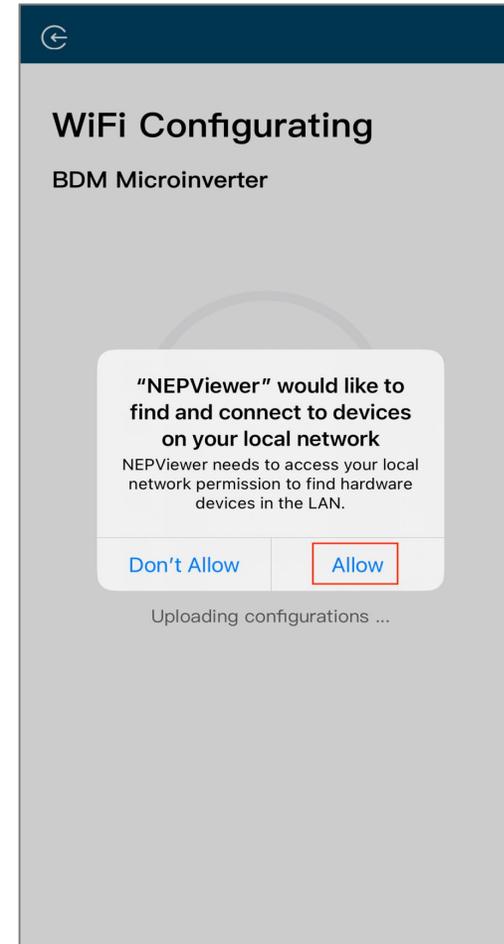
2. Monitoring Configuration - WiFi configuration (for iOS)

- After the countdown ends (the button turns blue), you can jump to the WLAN setting page to connect to the hotspot SSID: MI-XXXXXXXX
- Password: 12345678
- **Return** to NEPViewer app.



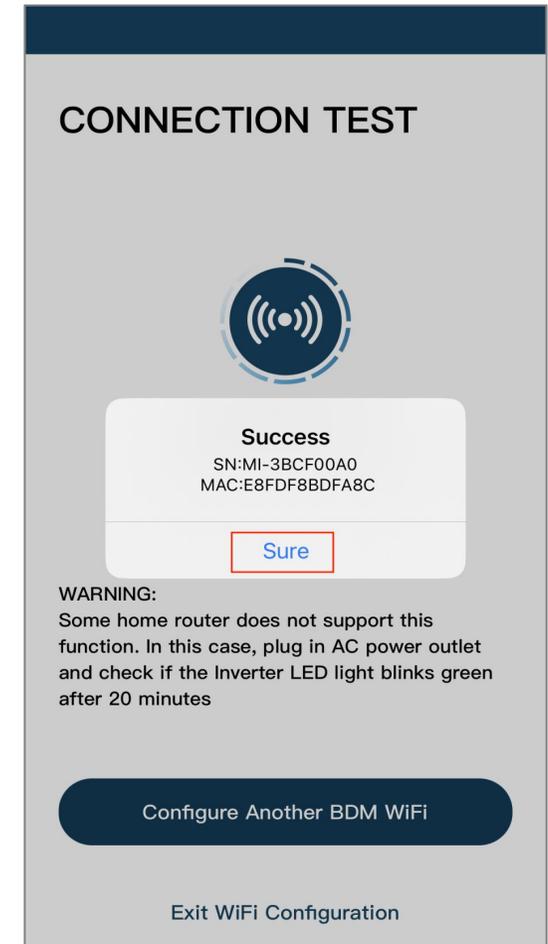
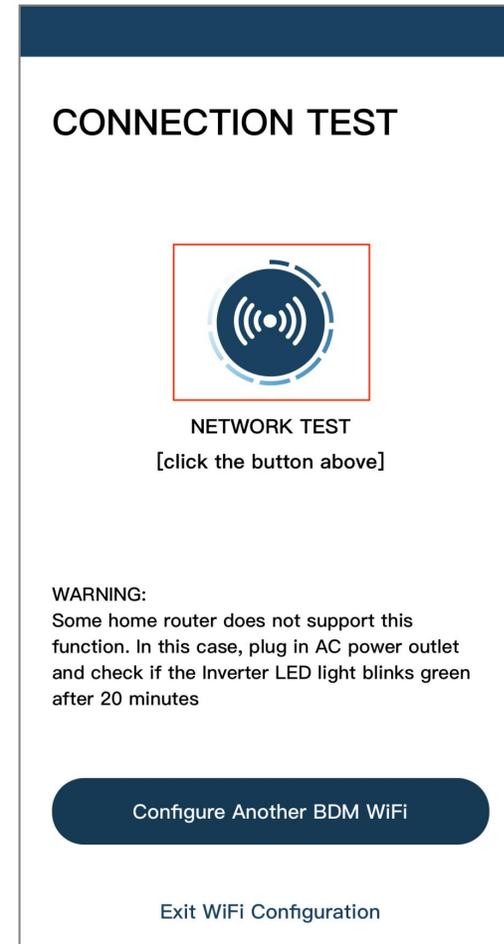
2. Monitoring Configuration - WiFi configuration (for iOS)

- **Allow** connection to local network (It will pop up only when the app is installed for the **first** time)
- Check this permission you can go to phone settings - NEPViewer - **open** local network
- Wait for **50s** for the device to complete configuration and restart.



2. Monitoring Configuration - WiFi configuration (for iOS)

- **Click the button** to check the connectivity (provided that the current WiFi is connected to the **home WiFi**).
- Click **Sure**, click **Exit**, the WiFi configuration has been completed at this time.

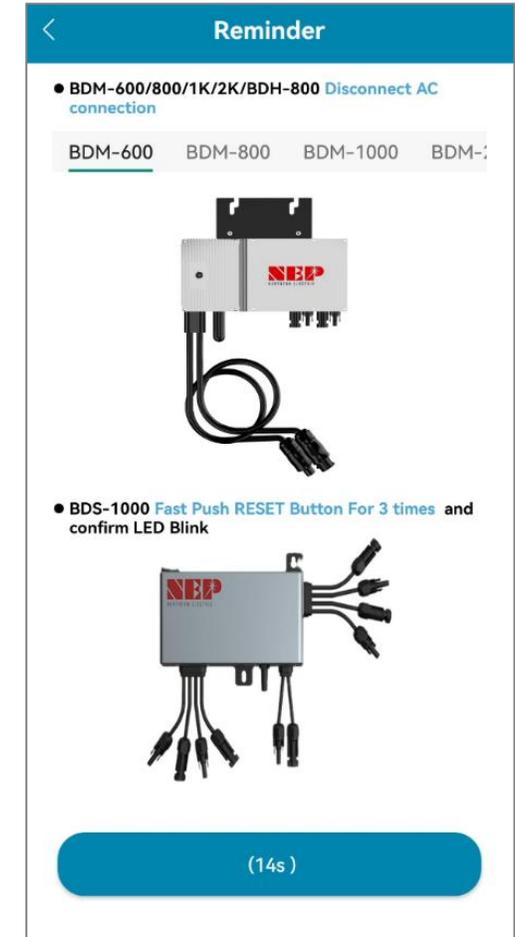
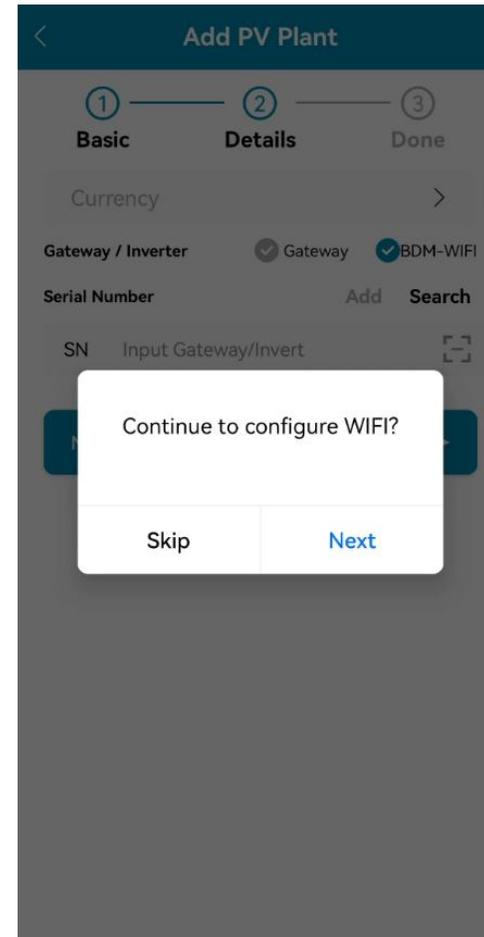


2. Monitoring Configuration - WiFi configuration (for Android)

- If you select **BDM-WiFi**, a prompt box 'Continue to configure WIFI' will pop up, click **NEXT**.

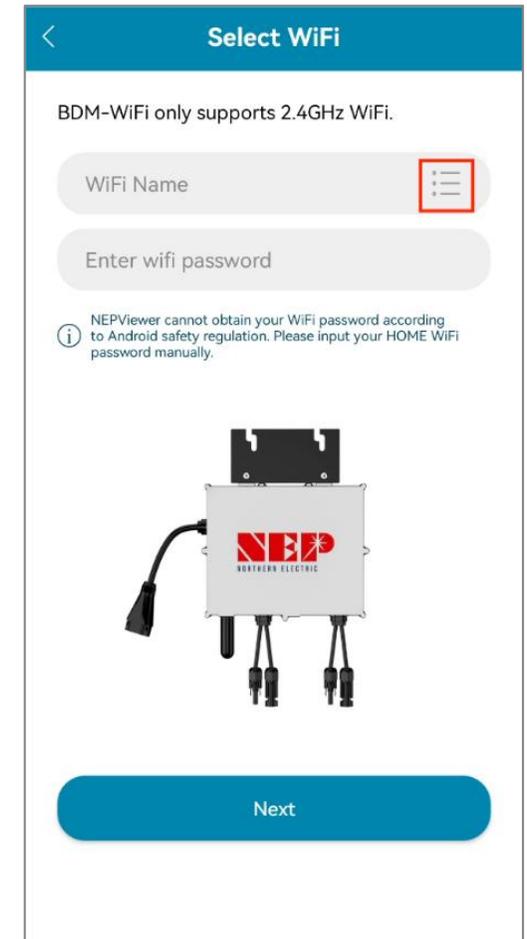
Reminder:

- For BDM600/800/1000/2000&BDH800:
Please make sure disconnect the AC
- For BDS1000:
Fast push **RESET Button** for 3times and confirm LED blinking
Note: RESET Button is on the right side of BDS1000)



2. Monitoring Configuration - WiFi configuration (for Android)

- Enter home WiFi Name and Password.
- You can click the right icon, scan for **Home WiFi** (Allow geolocation permissions when installing the app for the first time).
- Click **Next** to verify that the home WiFi information is correct.



Select WiFi

BDM-WiFi only supports 2.4GHz WiFi.

WiFi Name 

Enter wifi password

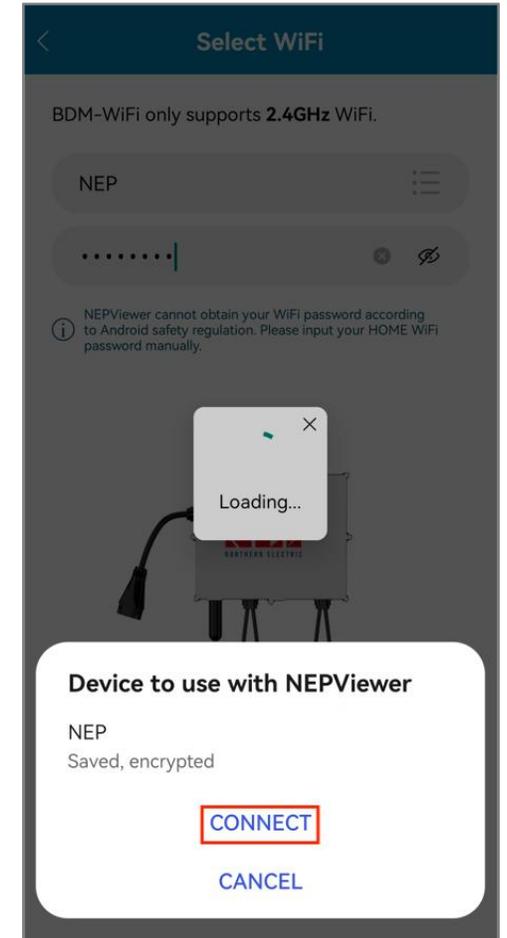
 NEPViewer cannot obtain your WiFi password according to Android safety regulation. Please input your HOME WiFi password manually.



Next

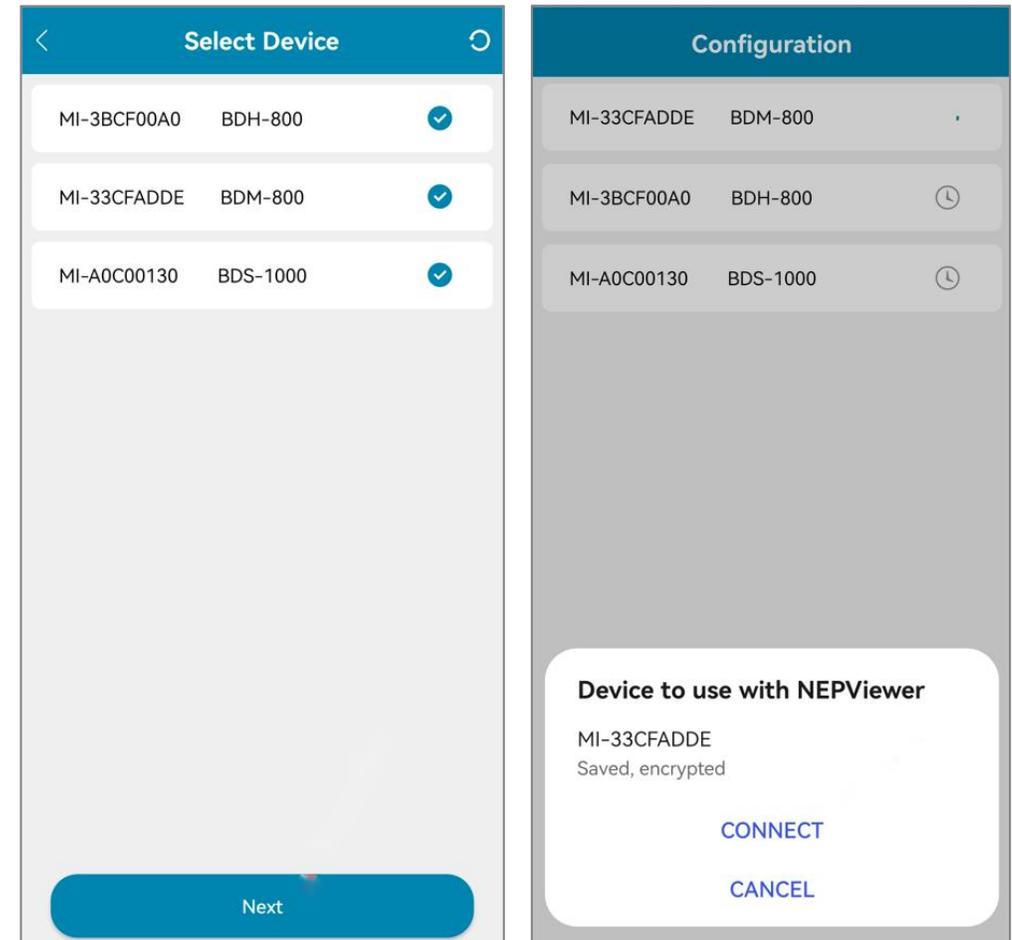
2. Monitoring Configuration - WiFi configuration (for Android)

- Verify that the home WiFi information.
- If the phone **is connected** to the home WiFi, the APP will enter the NEP device scanning page.
- If the phone **is not connected** to the home WiFi, the APP will pop up the option to connect to the home WiFi, make sure the home WiFi name and password entered are correct.



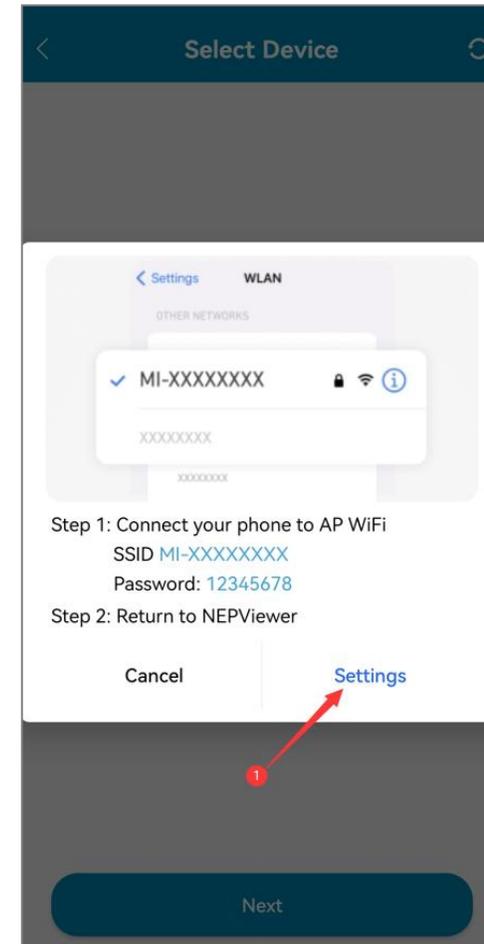
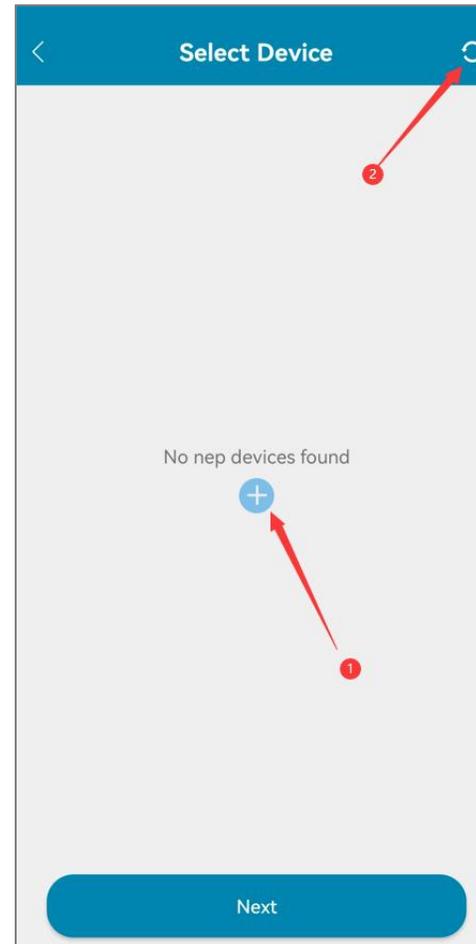
2. Monitoring Configuration - WiFi configuration (for Android)

- Select the device that requires WiFi configuration.
- Click **Next** to go to the WiFi configuration page.
- Click **CONNECT** to connect the NEP device.



2. Monitoring Configuration - WiFi configuration (for Android)

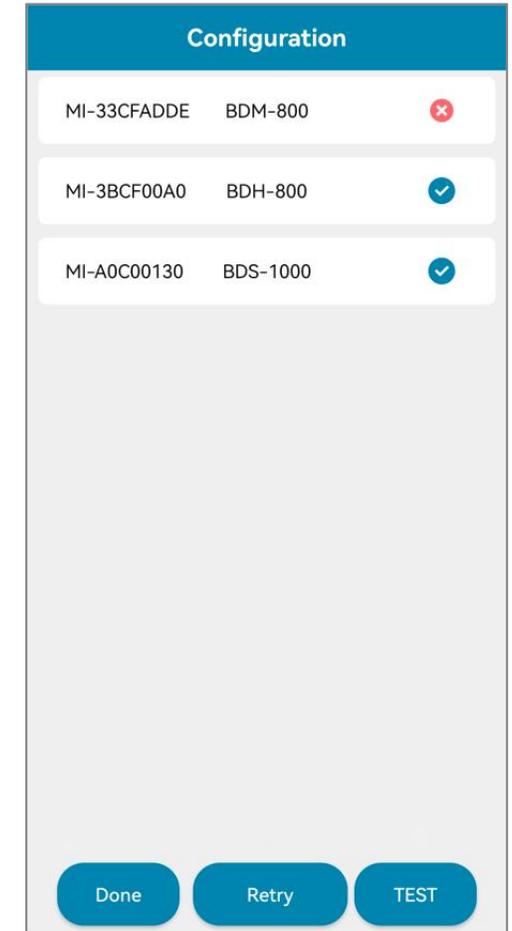
- If **no NEP device** shows up:
 1. Click the button to pop up the WiFi setting pop-up window
 2. Click to refresh and search for nearby NEP devices



1. Click **Settings** to enter the mobile phone connection WiFi interface

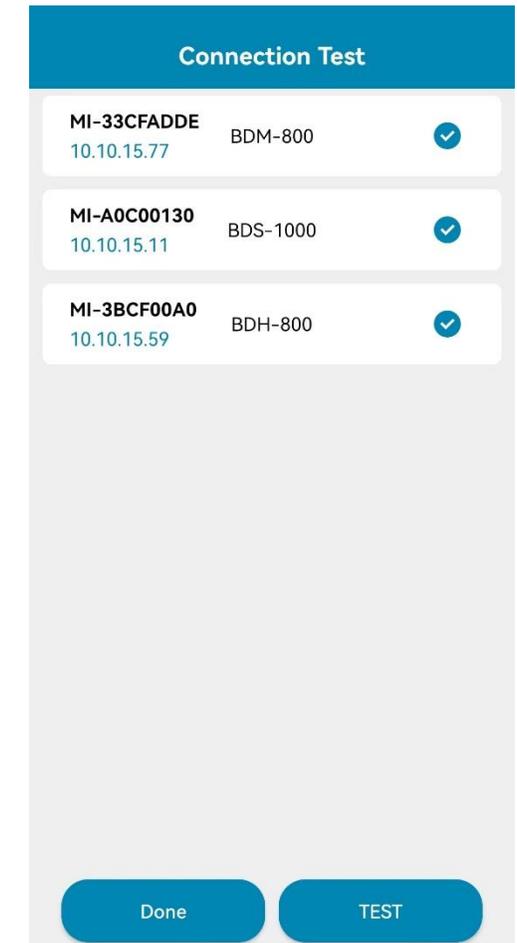
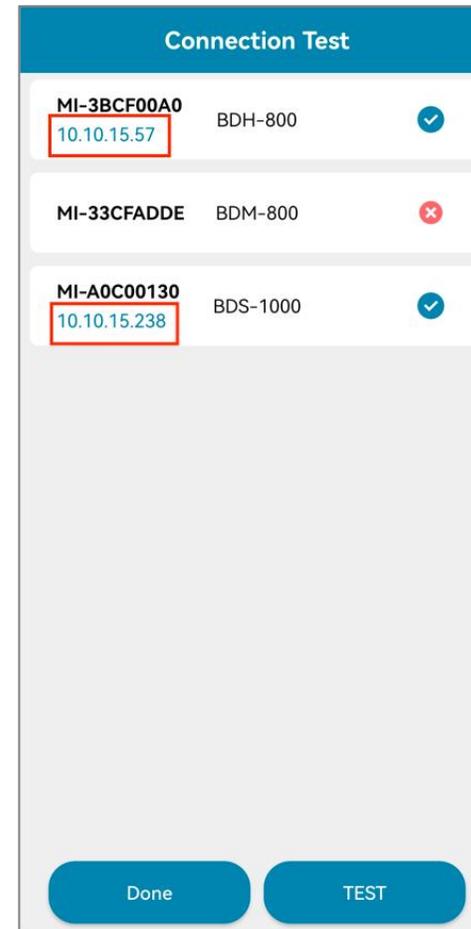
2. Monitoring Configuration - WiFi configuration (for Android)

- When there is a failed device, the **Retry** button will appear for easy re-networking.
- Click **TEST** to go to the connectivity test page.



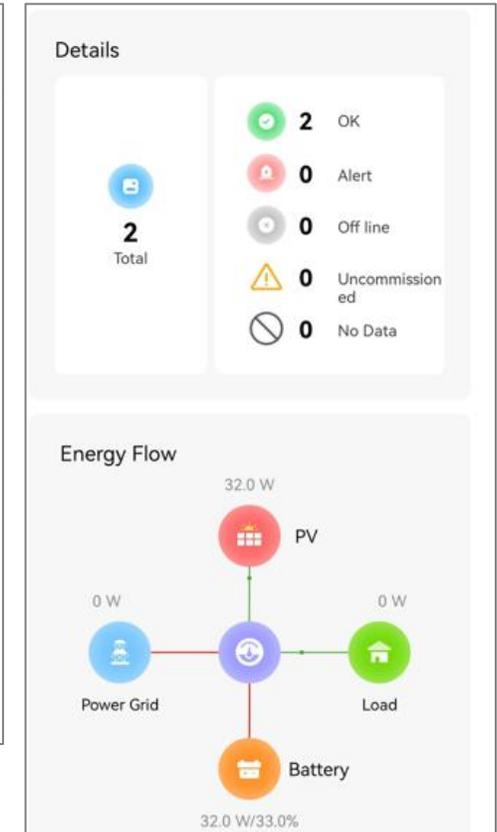
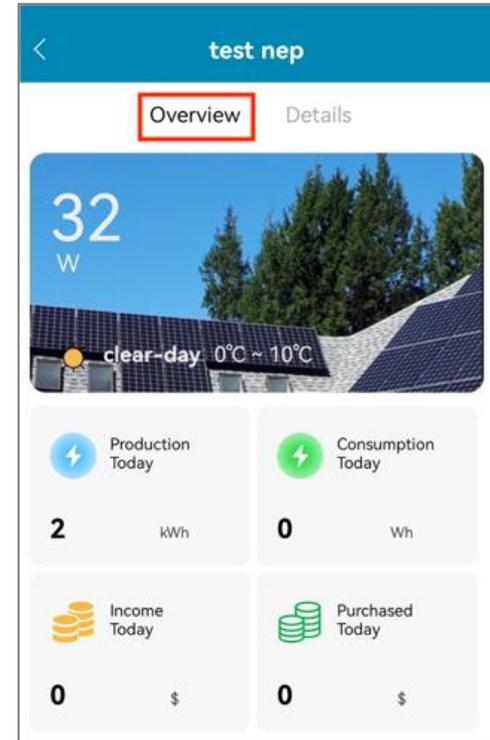
2. Monitoring Configuration - WiFi configuration (for Android)

- Successful connectivity detection will display the **IP address**.
- For the one without IP address, please try the TEST again.
- Click **Done** to complete and exit the Configuration page.



3. PV Plant introduction

- Include the real-time power, weather, income, equipment status, equipment energy flow indication and environment benefit information of the power station.



3. PV Plant introduction

test nep

Overview **Details**

SN: a0c00110 OK
Type: BDM-WIFI Reg Date: 2023-11-27 08:29

SN: 30c15da0 OK
Type: BDM-WIFI Reg Date: 2023-11-27 08:04

Click the related SN
→

a0c00110

Basic info

SN	a0c00110
Model	BDS-1000
Version	20190509.69-6.2
Device Type	BDM-WIFI
PV Plant	test nep
Status	OK

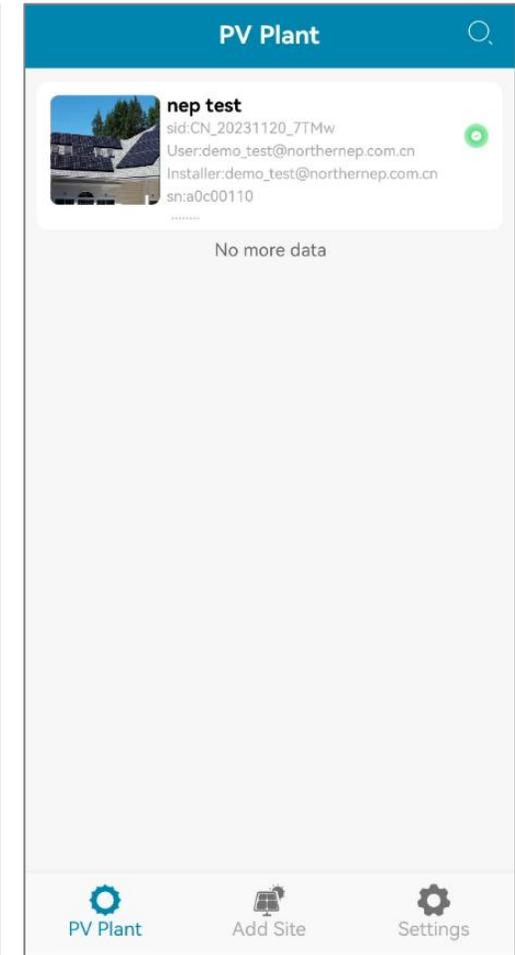
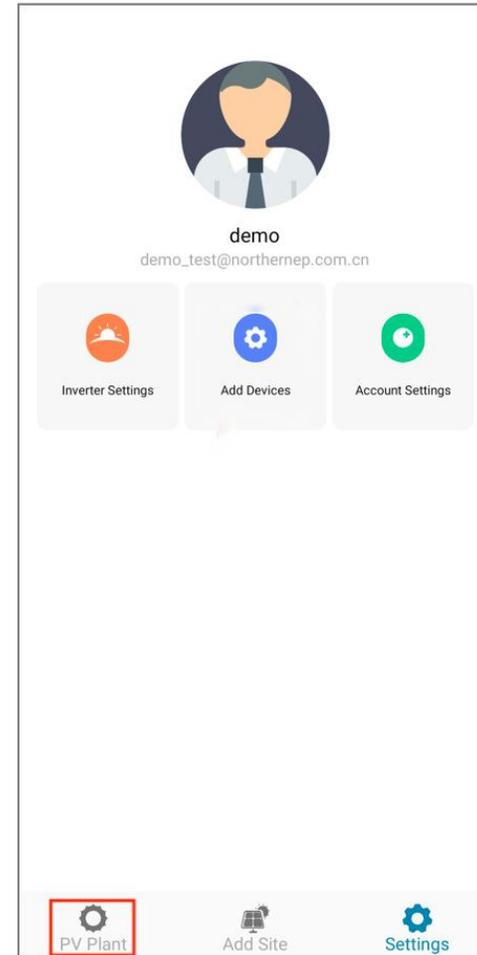
Production

1.69 Today(kWh)	54.24 This Month(kWh)
298.6 Life Time(kWh)	0.0 Total Income(\$)



3. PV Plant introduction

- Enter the APP homepage, select **PV Plant**.
- You can see all the sites you've added.
- Click on any site you added before, you'll see it in detail.



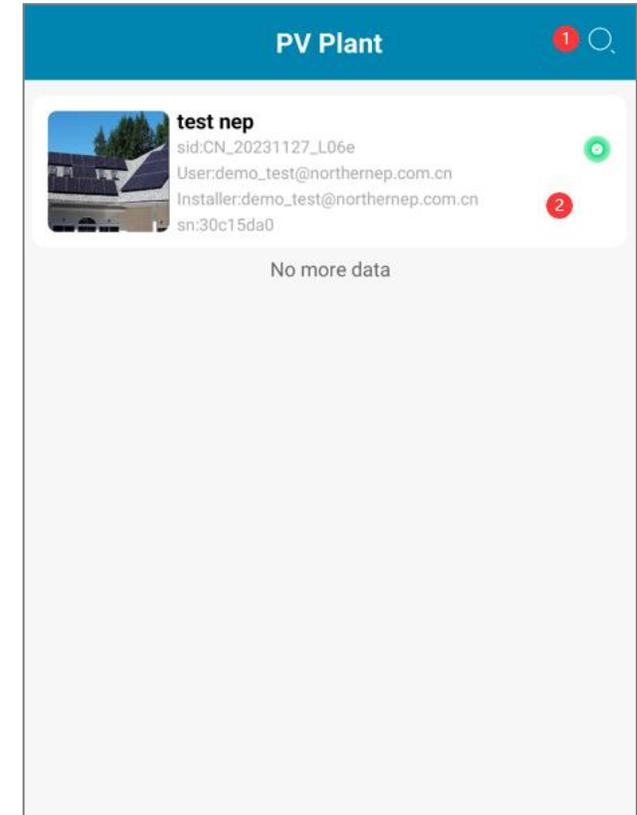
3. PV Plant introduction

- PV Plant page will display PV plant name, user e-mail and installer e-mail.

1. Click search box to search page
2. Click PV plant to detailed page

Note:

- Long press PV plant to for a dialog of edit or delete option.

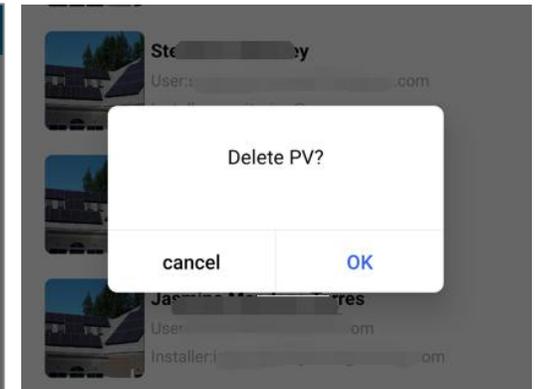


3. PV Plant introduction

- Long press the PV Plant, then you could edit or delete the PV plant.

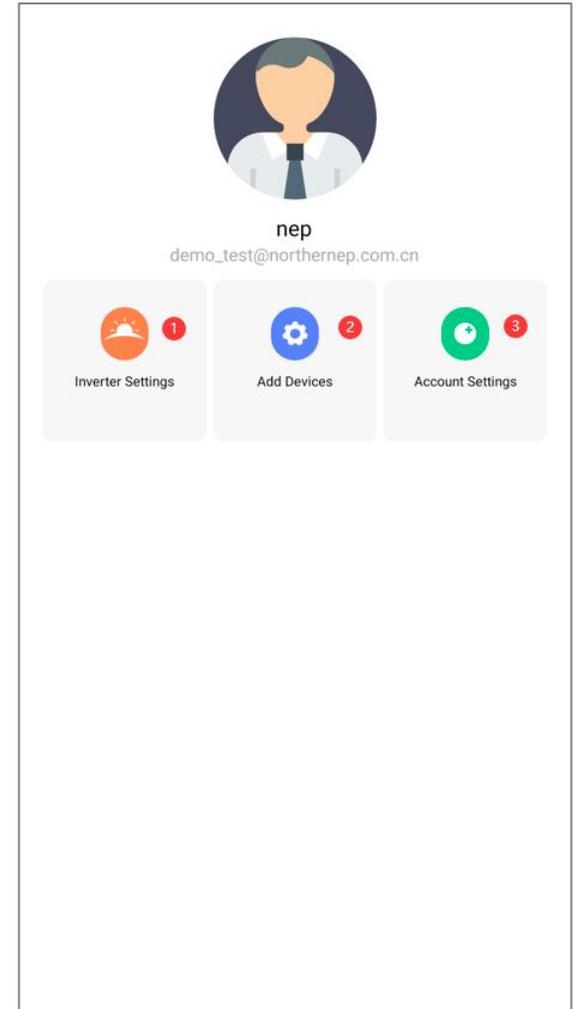
1. Edit PV plant
2. Delete PV plant

- Click "OK" to delete. List will refresh after delete.
- Click "cancel" to close dialog



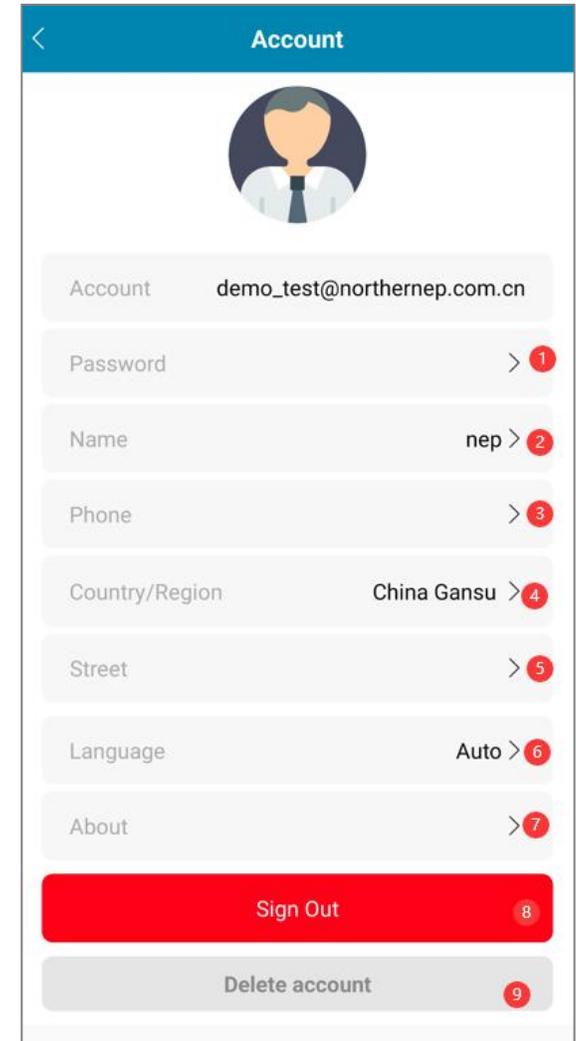
4. Setting

1. Inverter setting
2. Add devices to the PV Plant
3. Account setting

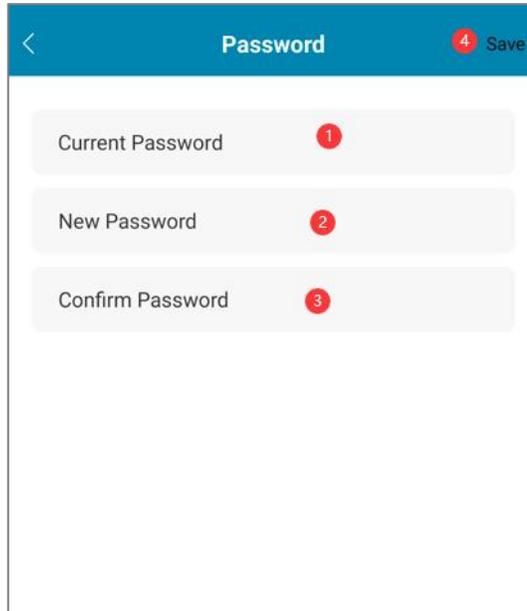


4. Setting

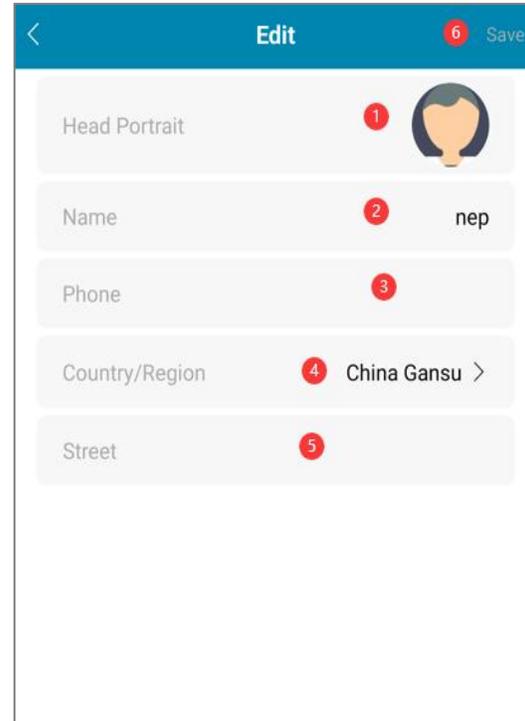
1. Reset the password
2. Change the account name
3. Change the phone number
4. Select the country/Region
5. Stress address
6. Set language
7. About NEP
8. Sign out
9. Delete account



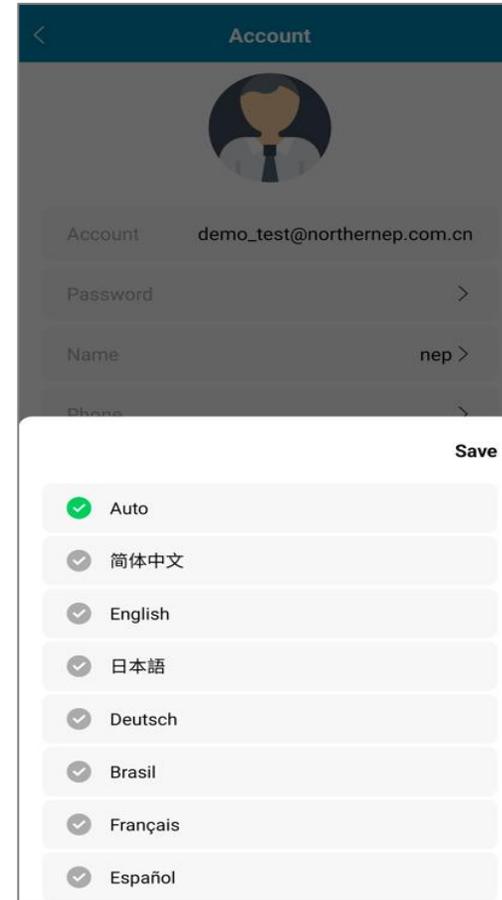
4. Setting



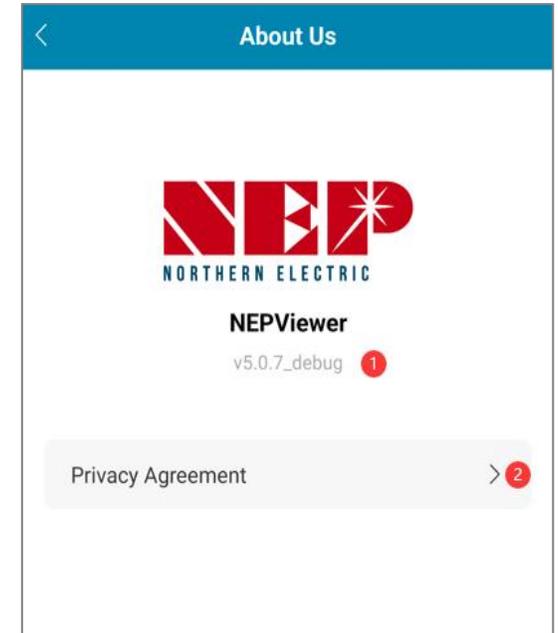
Reset the password



Change the account information



Set language

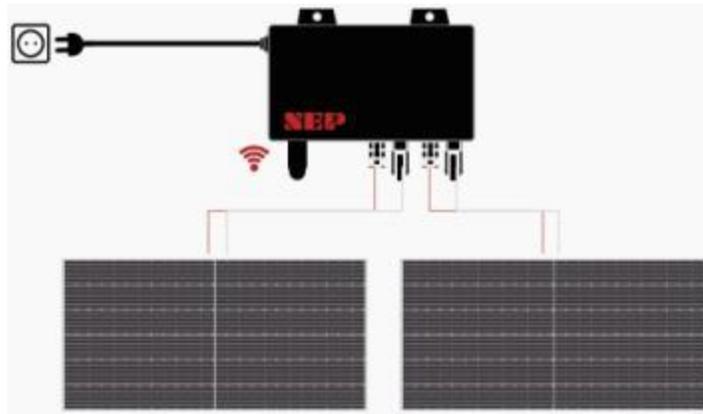


About NEP

1. APP version
2. Privacy agreement

5. Additional information

- Typical connection scheme diagram



- LED explanation

	Flashing per 1 sec	Flashing per 2 sec	Flashing per 4 sec
●	WiFi Connected AC connected	WiFi Connected Inverter Standby	WiFi Connected Inverter Working
●	WiFi not connected AC disconnected	Inverter Alert	Inverter Alert
●	WiFi not connected AC connected	WiFi not connected Inverter standby	WiFi not connected Inverter working