



BDS-1000 APP User Guide

Northern Electric Power Co., Ltd.

Date: 9/2023

Revision: v.1.0

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1. Monitoring Configuration

1.1. WiFi configuration

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.

NOTICE

Find the AP Number

An eight-digit string can be found under the barcode on the sticker.
This is the **Gateway S/N**



Step 1 Get and Open NEPViewer

- Obtain NEPViewer App



- Open NEPViewer

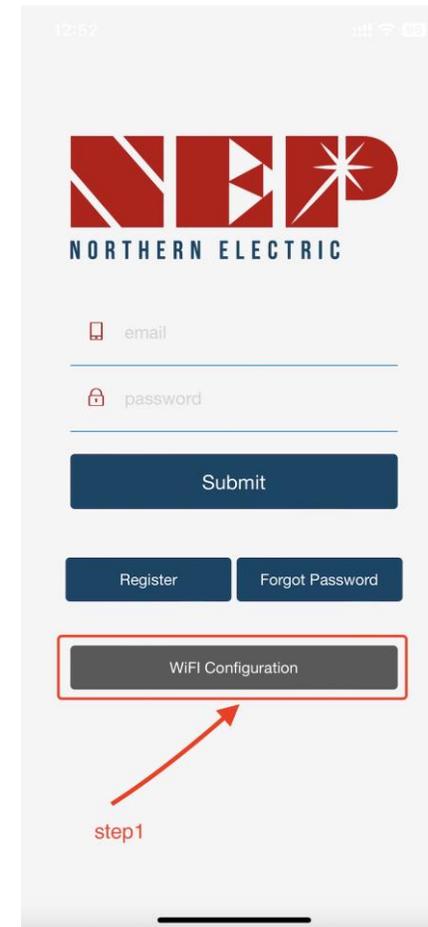
Search for NEPViewer in App Store or Google Play

*Android users can visit user.nepviewer.com for latest version APK file



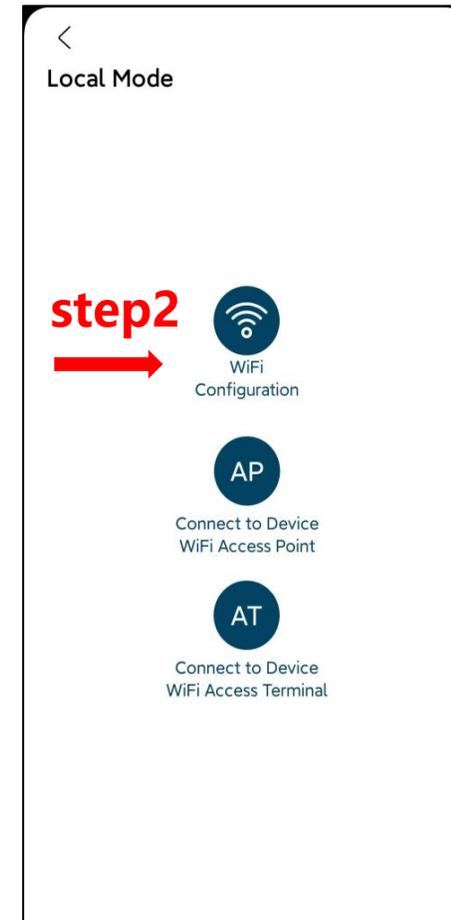
Step 2 NEPViewer WiFi Configuration

- Select the distribution network entrance



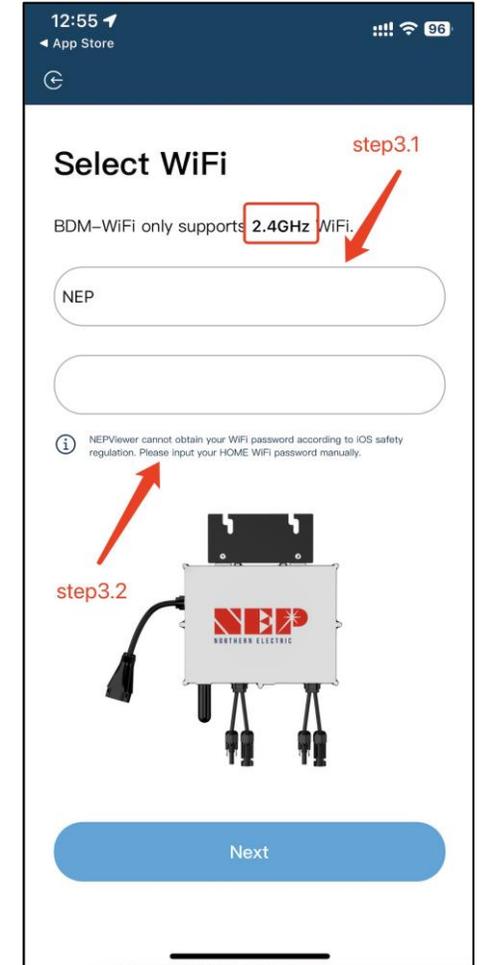
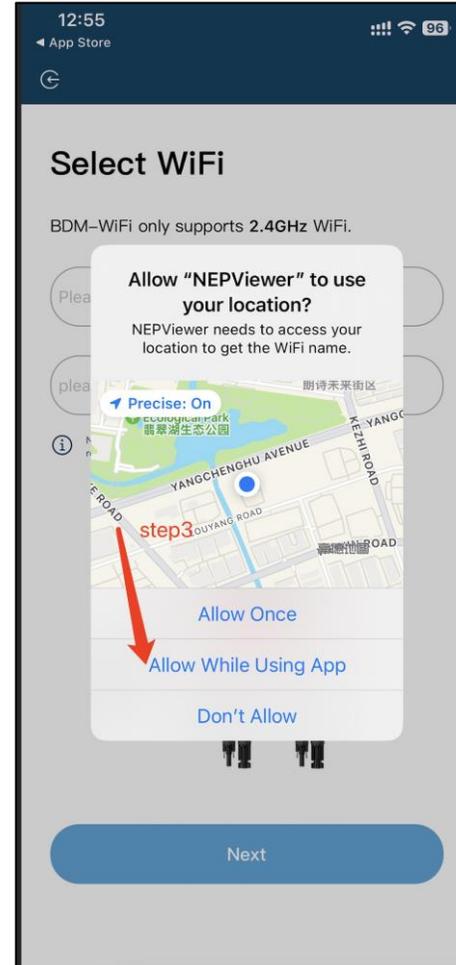
Step 3 NEPViewer WiFi Configuration

- Click to enter the distribution network



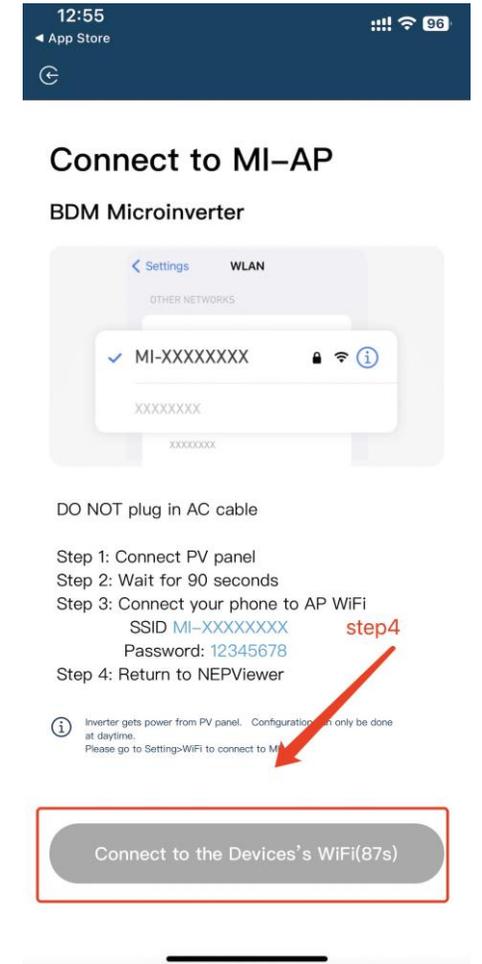
Step 3 NEPViewer WiFi Configuration

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



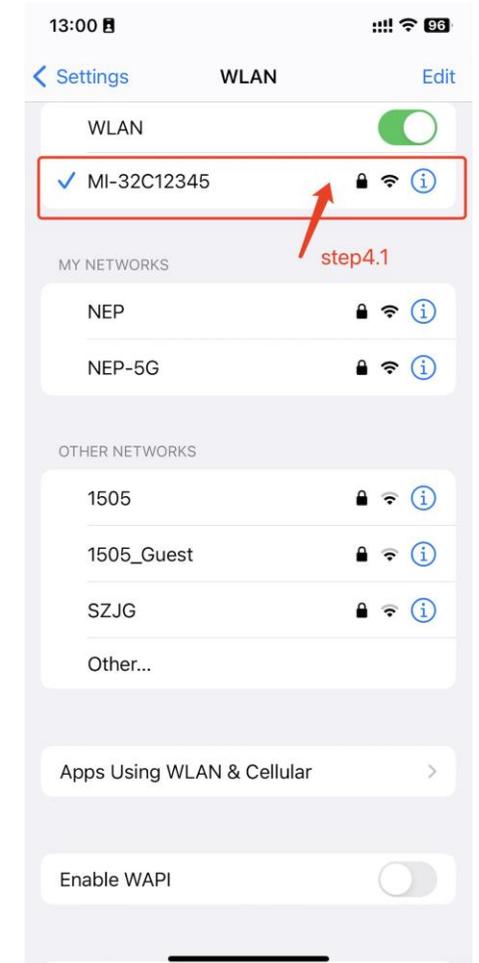
Step 3 NEPViewer WiFi Configuration

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



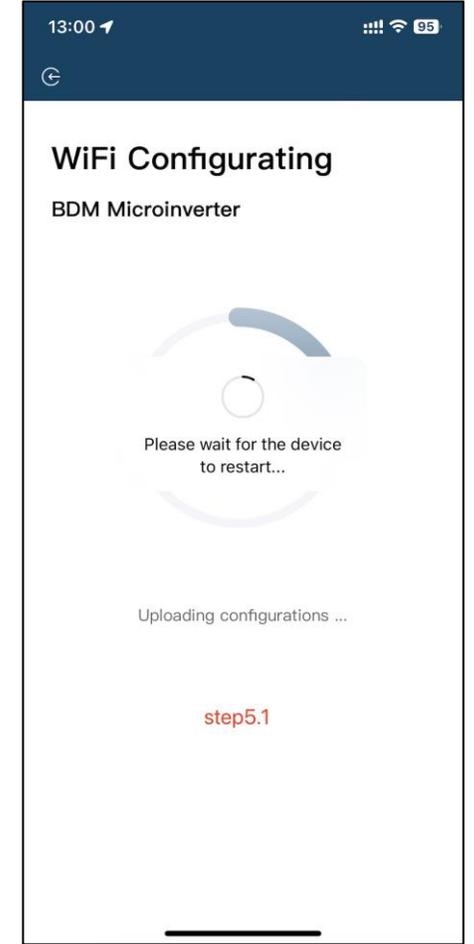
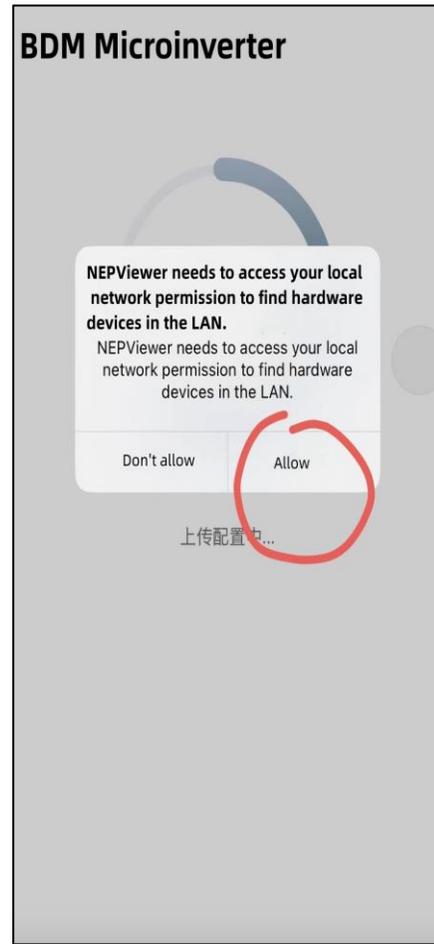
Step 3 NEPViewer WiFi Configuration

- 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



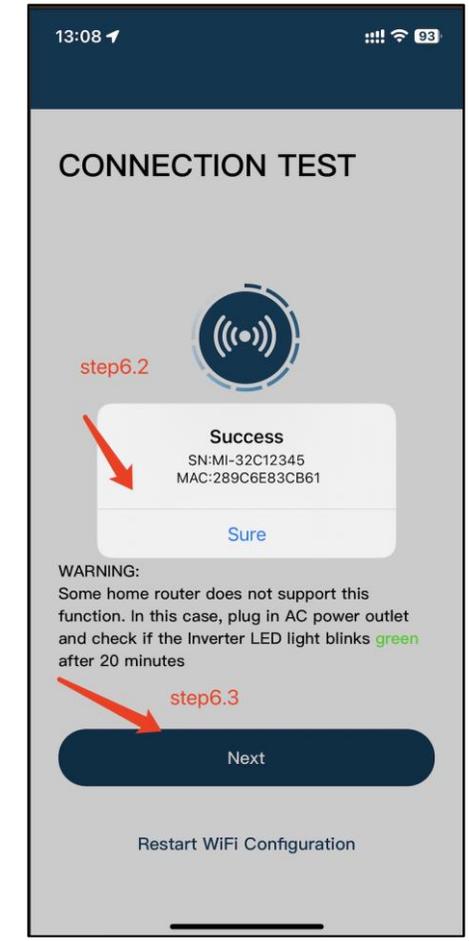
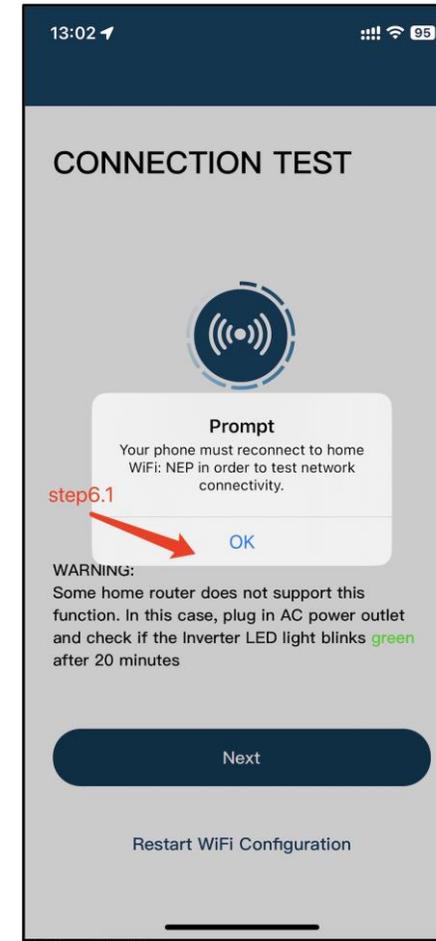
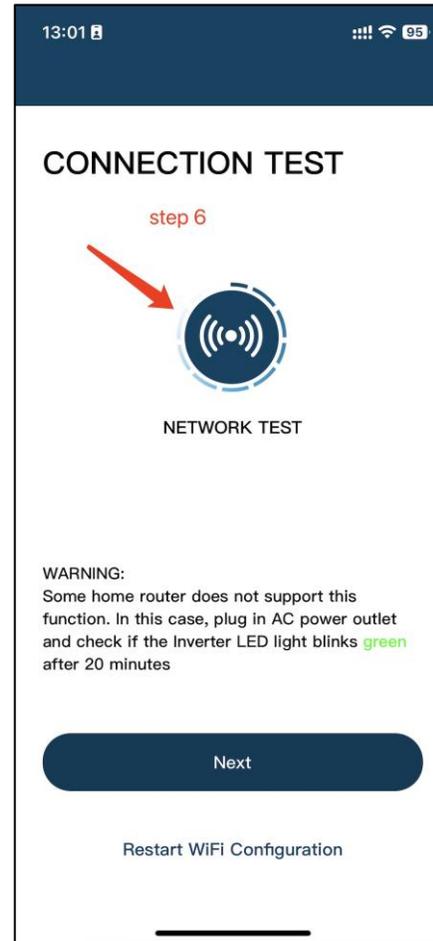
Step 3 NEPViewer WiFi Configuration

- **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



Step 3 NEPViewer WiFi Configuration

- **Click the button** to check the connectivity (provided that the current WiFi is connected to the **home WiFi**)
- Check that the current WiFi is connected to the home **WiFi (this step may not appear)**
- Click **Sure**, click **Next**, the WiFi configuration has been completed at this time.



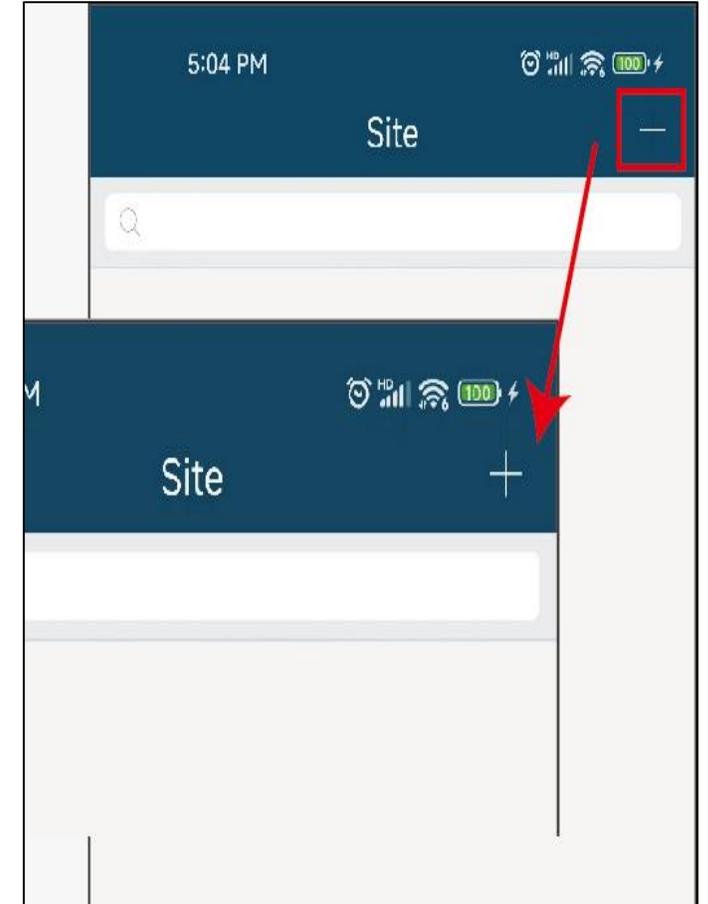
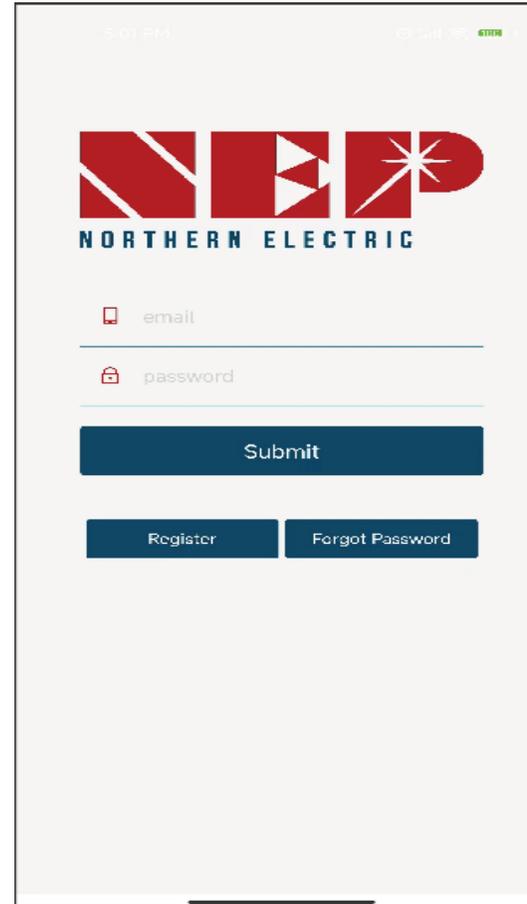
1. Monitoring Configuration

1.2. Add inverter to NEPViewer

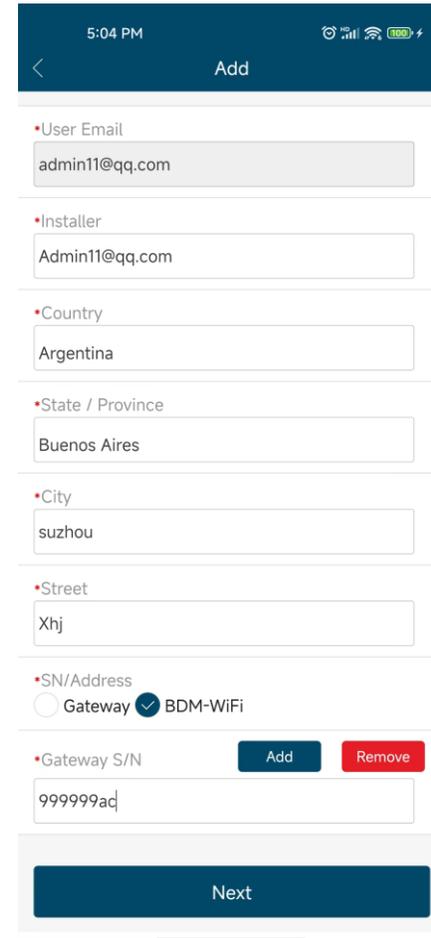
- **Login or Register**

*(You can see [User Interface -Login](#) in detail)

- **Click here to create a new site**



- LoginWiFi, can be added in the form of GATEWAY CODE
- On label of the inverter, a serial number can be found under the bar code, in form of:
XXXXX-XXXXXXXX-X
- This EIGHT-digit-code is the GATEWAY CODE
*(Only lowercase letters are supported)
- Fill in other detail info about your site and click on Next

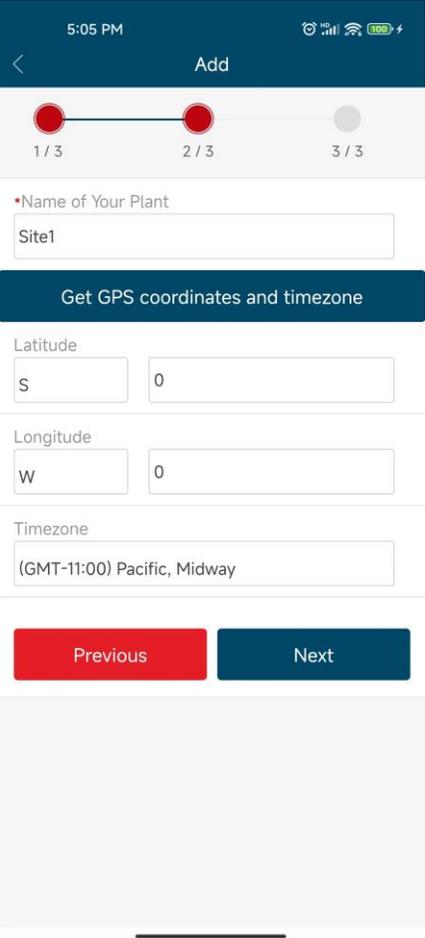


The screenshot shows a mobile application interface for adding a site. The screen is titled 'Add' and has a back arrow on the left. The time is 5:04 PM. The status bar shows signal strength, Wi-Fi, and battery icons. The form contains the following fields:

- User Email:** admin11@qq.com
- Installer:** Admin11@qq.com
- Country:** Argentina
- State / Province:** Buenos Aires
- City:** suzhou
- Street:** Xhj
- SN/Address:** Radio buttons for 'Gateway' and 'BDM-WiFi' (selected).
- Gateway S/N:** 999999ađ, with 'Add' and 'Remove' buttons.

A large blue 'Next' button is at the bottom of the form.

- Give a name to your site, and fill in GeoLocation click on Next



5:05 PM Add

1 / 3 2 / 3 3 / 3

*Name of Your Plant
Site1

Get GPS coordinates and timezone

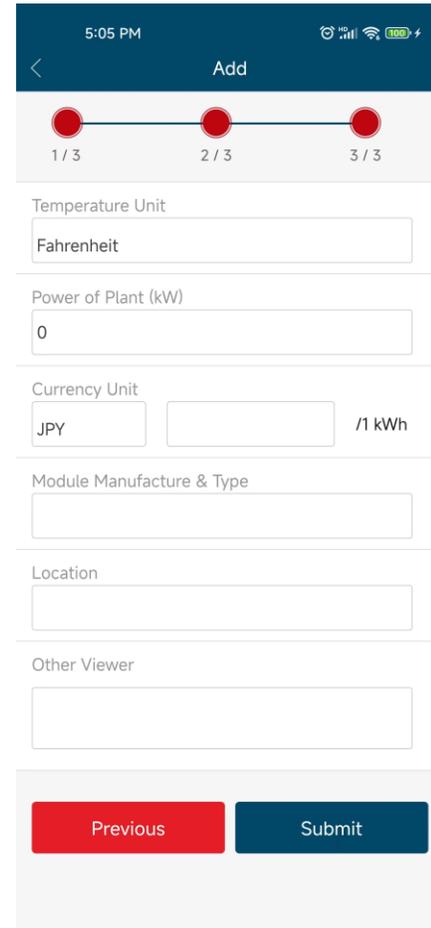
Latitude
S 0

Longitude
W 0

Timezone
(GMT-11:00) Pacific, Midway

Previous Next

- Fill in preferences



5:05 PM Add

1 / 3 2 / 3 3 / 3

Temperature Unit
Fahrenheit

Power of Plant (kW)
0

Currency Unit
JPY / kWh

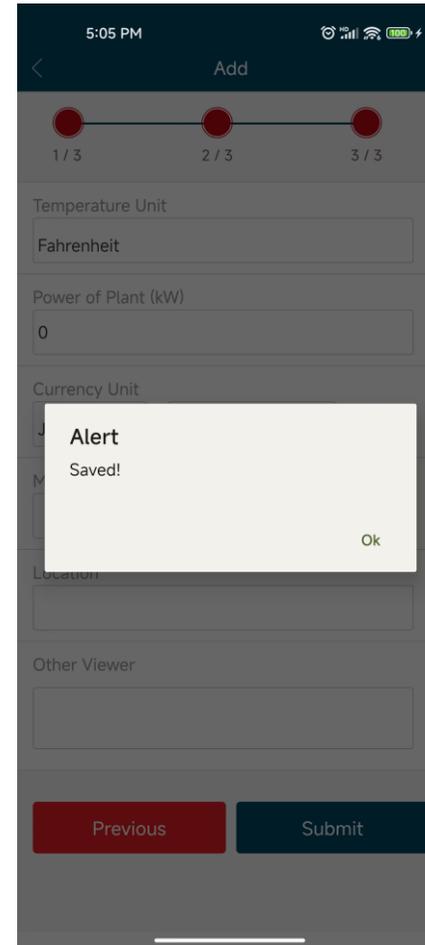
Module Manufacture & Type

Location

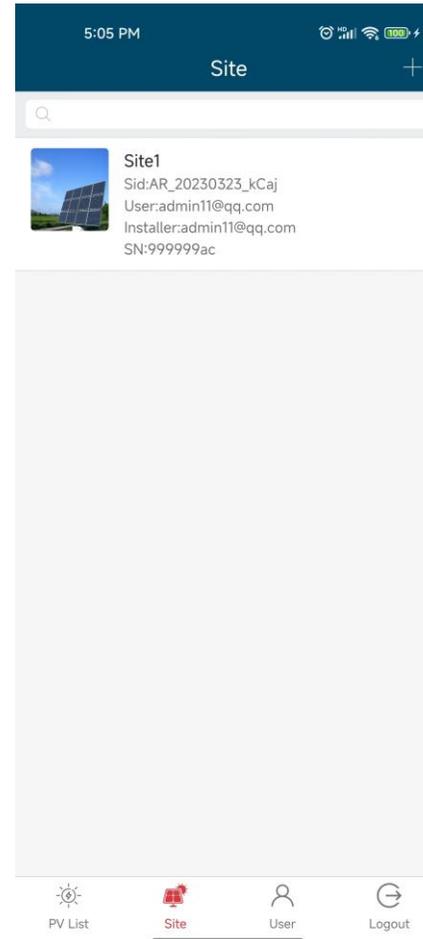
Other Viewer

Previous Submit

- Site added when this dialog shown



- It's all set! Enjoy your PV freedom!

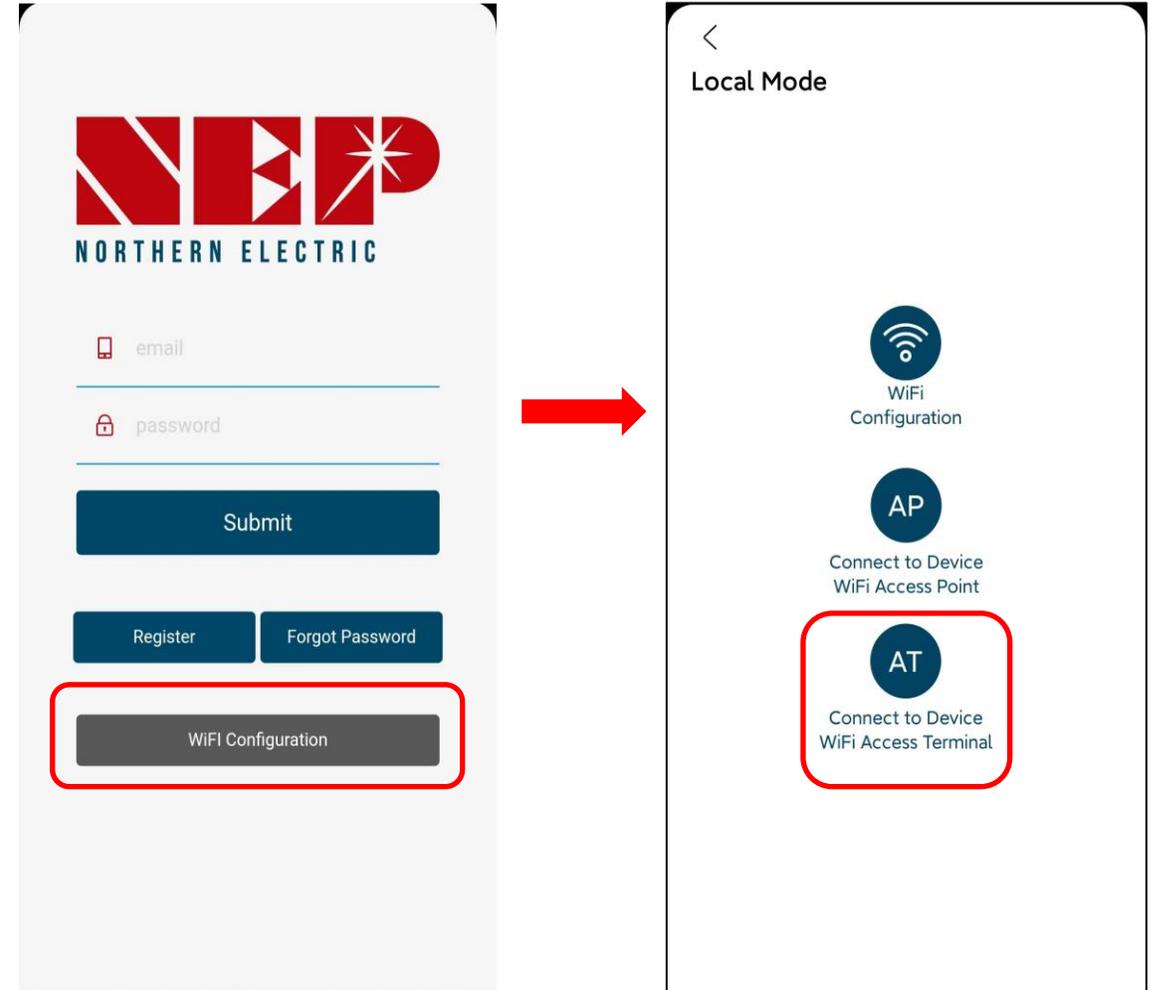


1. Monitoring Configuration

1.3. BDS-1000 configuration

- In detail, click on the icon **AT** you will enter the inverter configuration

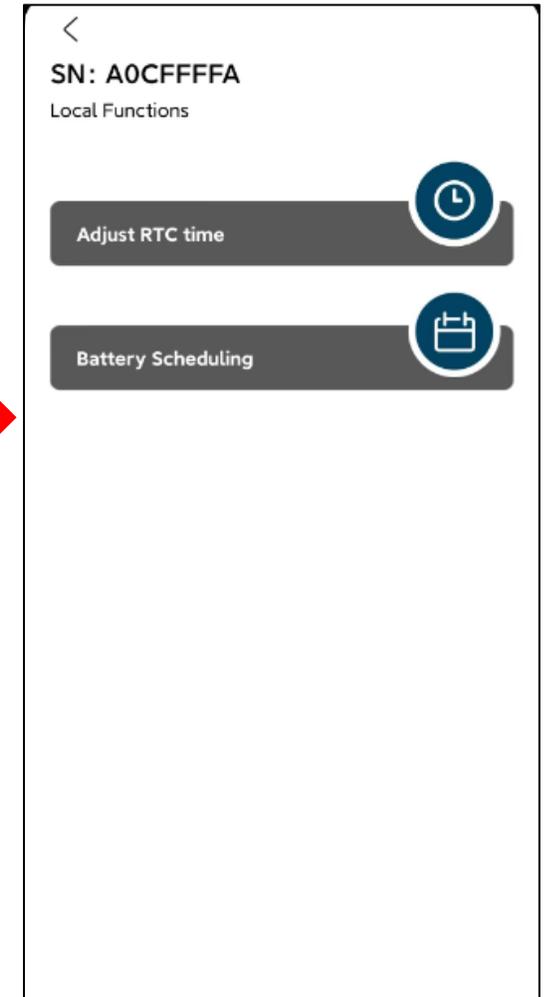
*(AT intended for inverter configuration in storage system now, such as BDH-800, BDS-1000)



1. Monitoring Configuration

1.3. BDS-1000 configuration

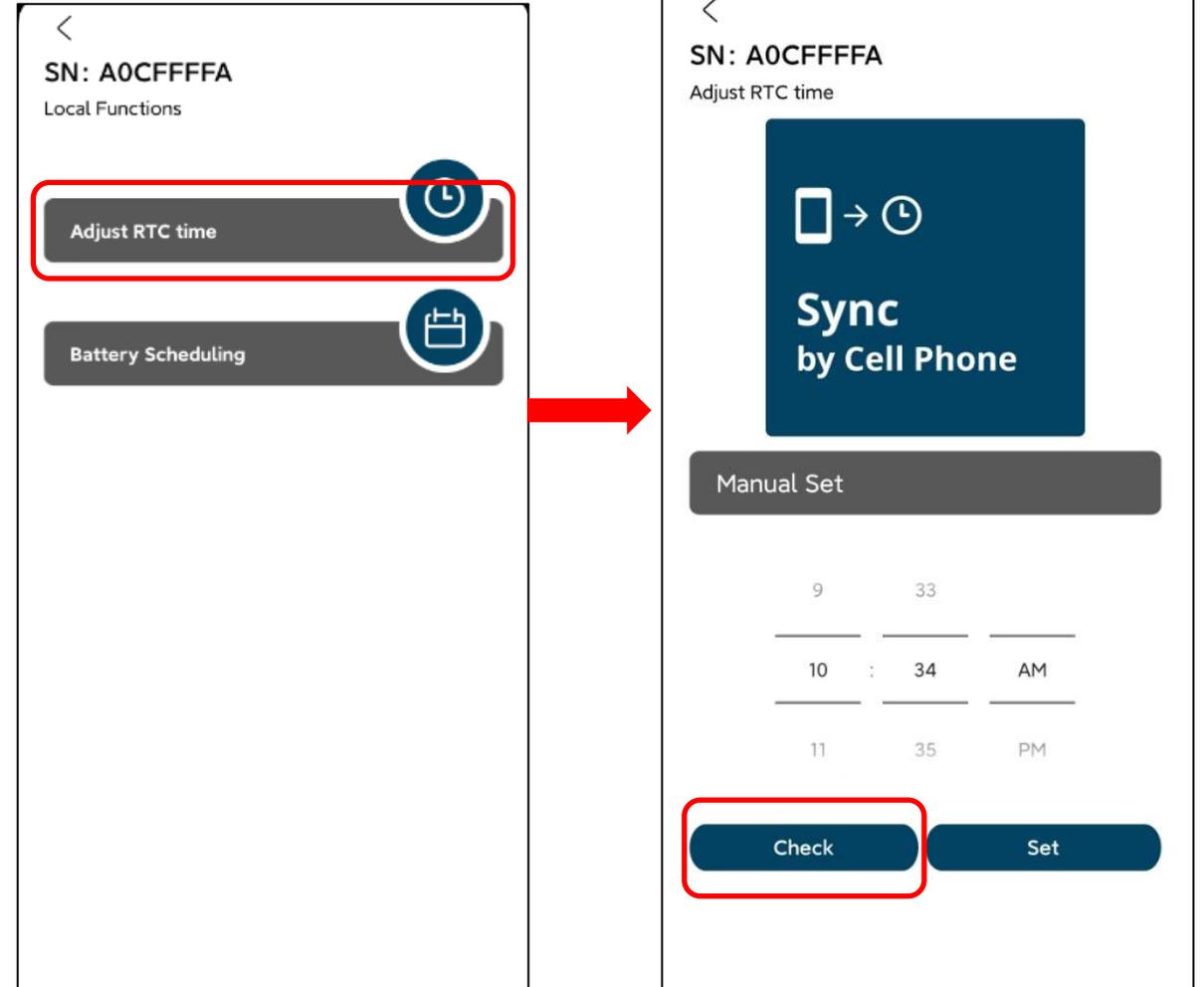
- Click on the invert model **“BDS-1000”** and you'll see it in detail



1. Monitoring Configuration

1.3. BDS-1000 configuration

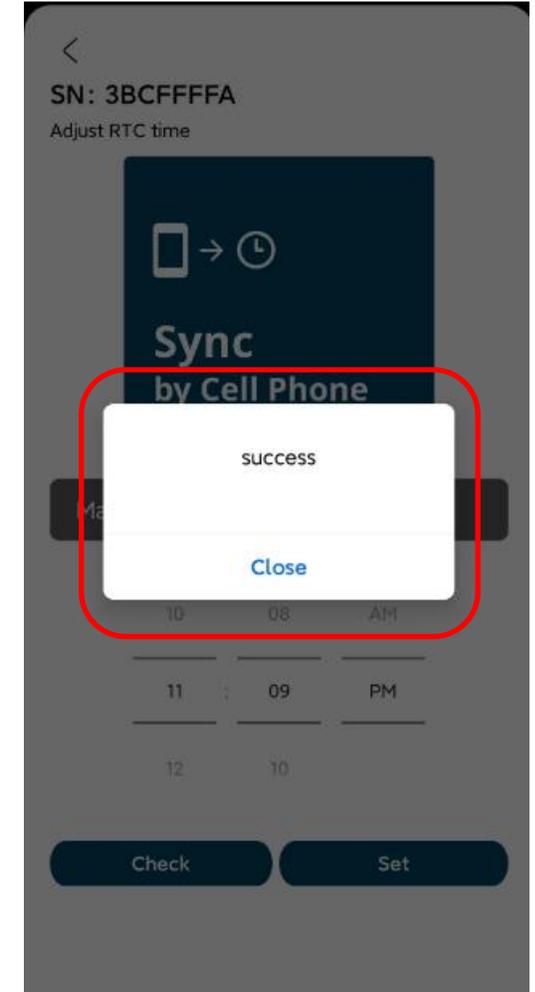
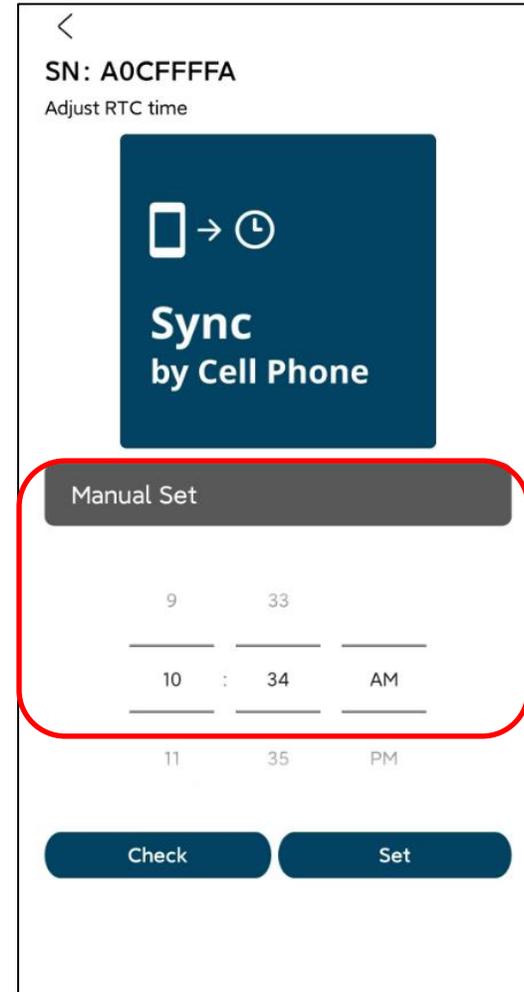
- In detail, click on text **Adjust RTC time** you will enter the inverter time sync configuration
- Click **Check**, you can check if inverter has the same time as cell phone.



1. Monitoring Configuration

1.3. BDS-1000 configuration

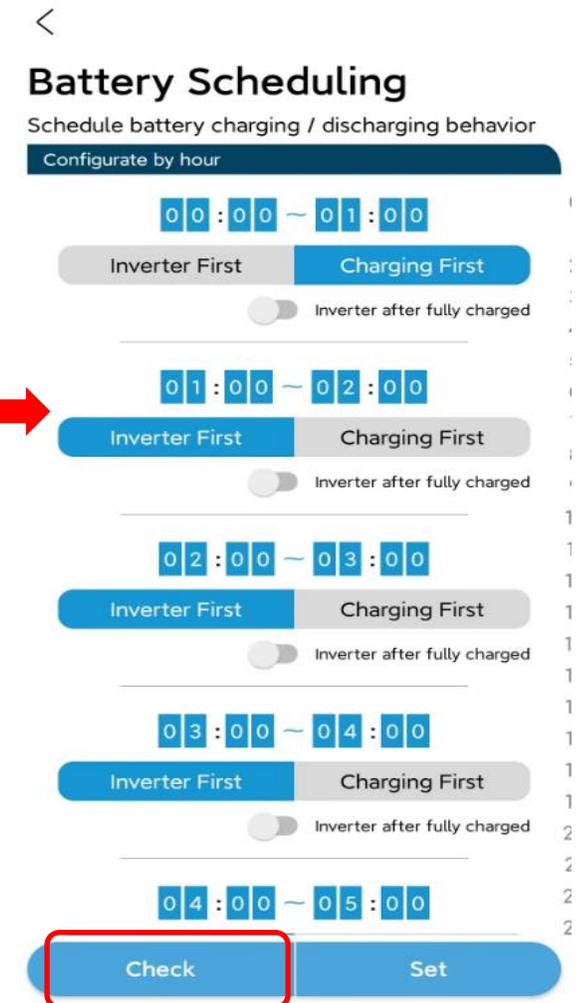
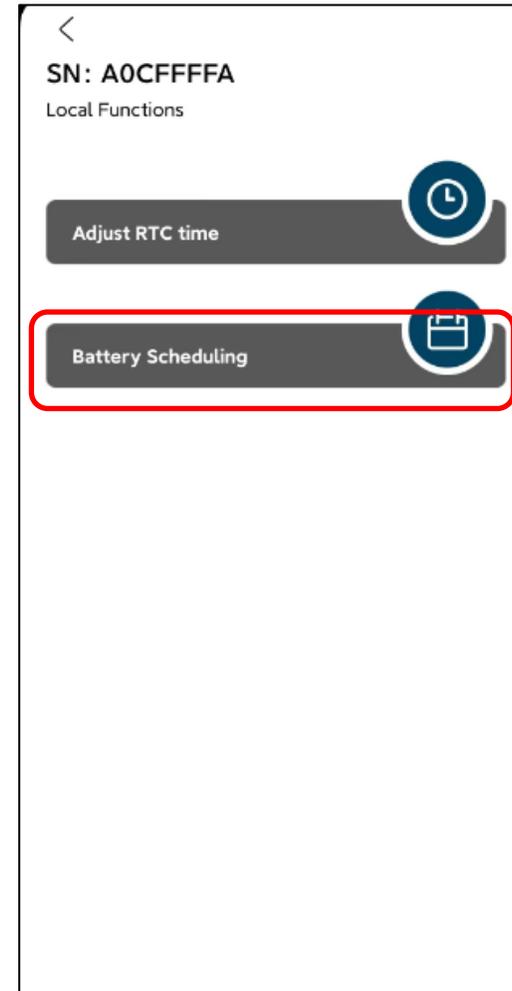
- If not, in **manual set** to fill in the phone time and click **Set**.
- If pop up **success**, inverter has the same time as cell phone now.



1. Monitoring Configuration

1.3. BDS-1000 configuration

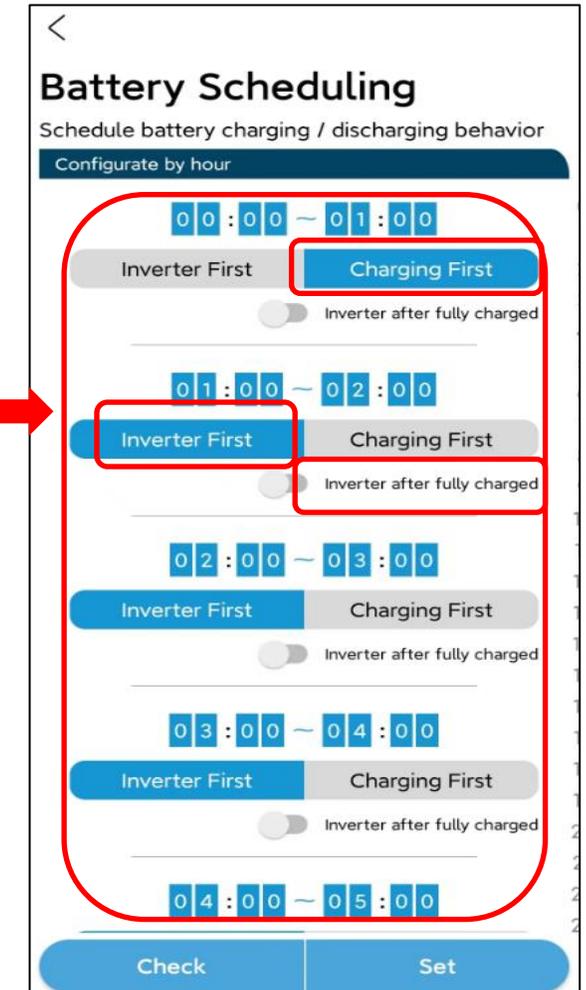
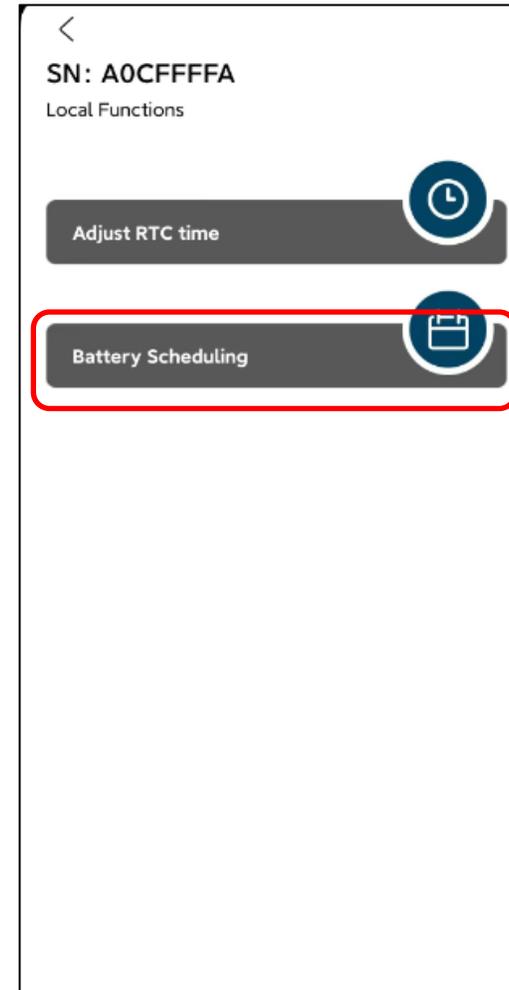
- Click on text **Battery Scheduling** you will enter the Battery charging/discharging configuration.
- Click **Check** ,you can see current Battery charging/discharging configuration.



1. Monitoring Configuration

1.3. BDS-1000 configuration

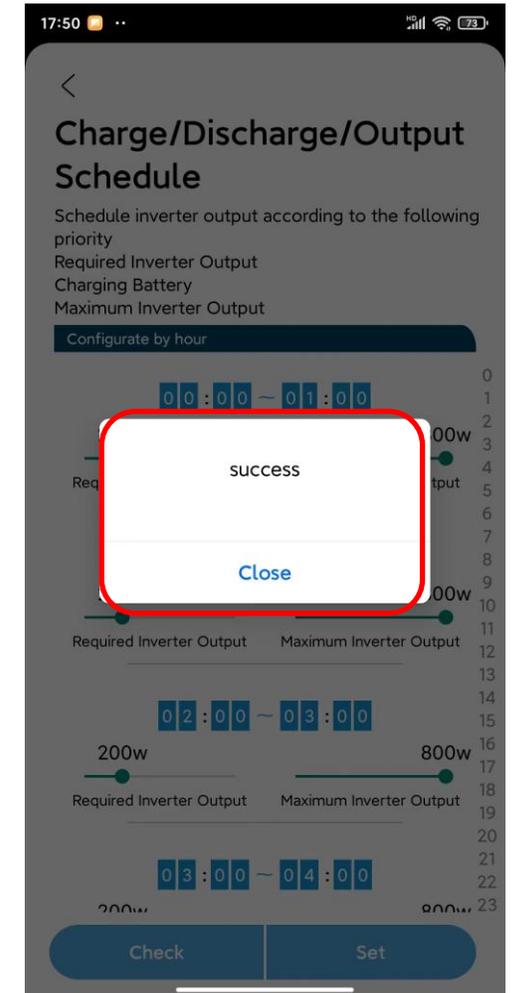
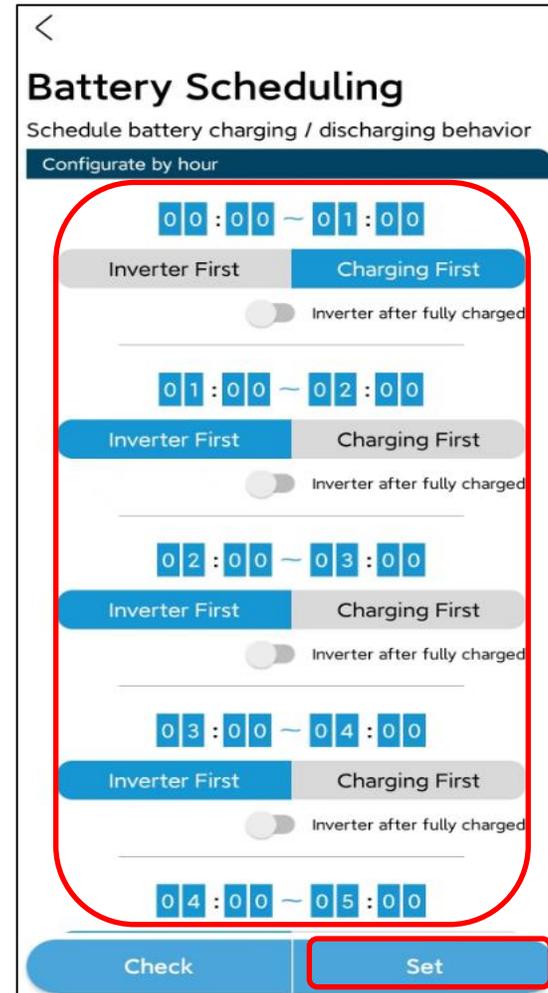
- In **Configure by hour**, you can change Battery scheduling policy by hour by clicking function text .
- **Inverter First** means the electricity generated by the PV or from battery output is given first to the inverter and then to the AC.
- **Charging First** means the electricity generated by the PV is given first to charge the battery and be stored.
- **Inverter after fully charged** means enter inverter first mode when the battery is fully charged
- The time range from 0 o'clock to 23 o'clock.



1. Monitoring Configuration

1.3. BDS-1000 configuration

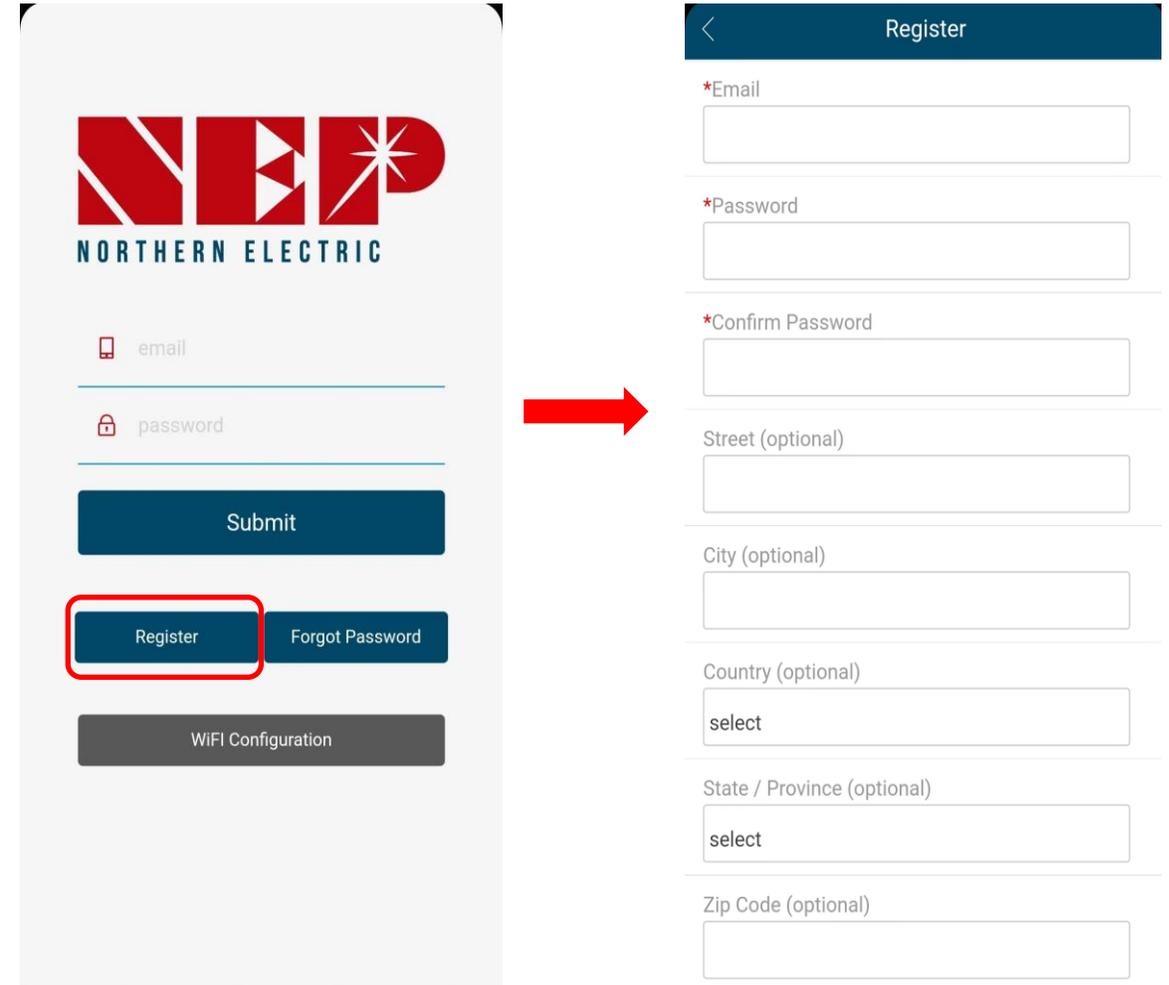
- Click **Set**, if pop up **success**, your set is ok.
- Now you can control your device remotely using the NEPViewer app !



2. User Interface

2.1. Login

- Click on the button **'Register'** if you are a new user
- In detail, you can enter the info, such as Email, Password, City, Country and so on and submit it

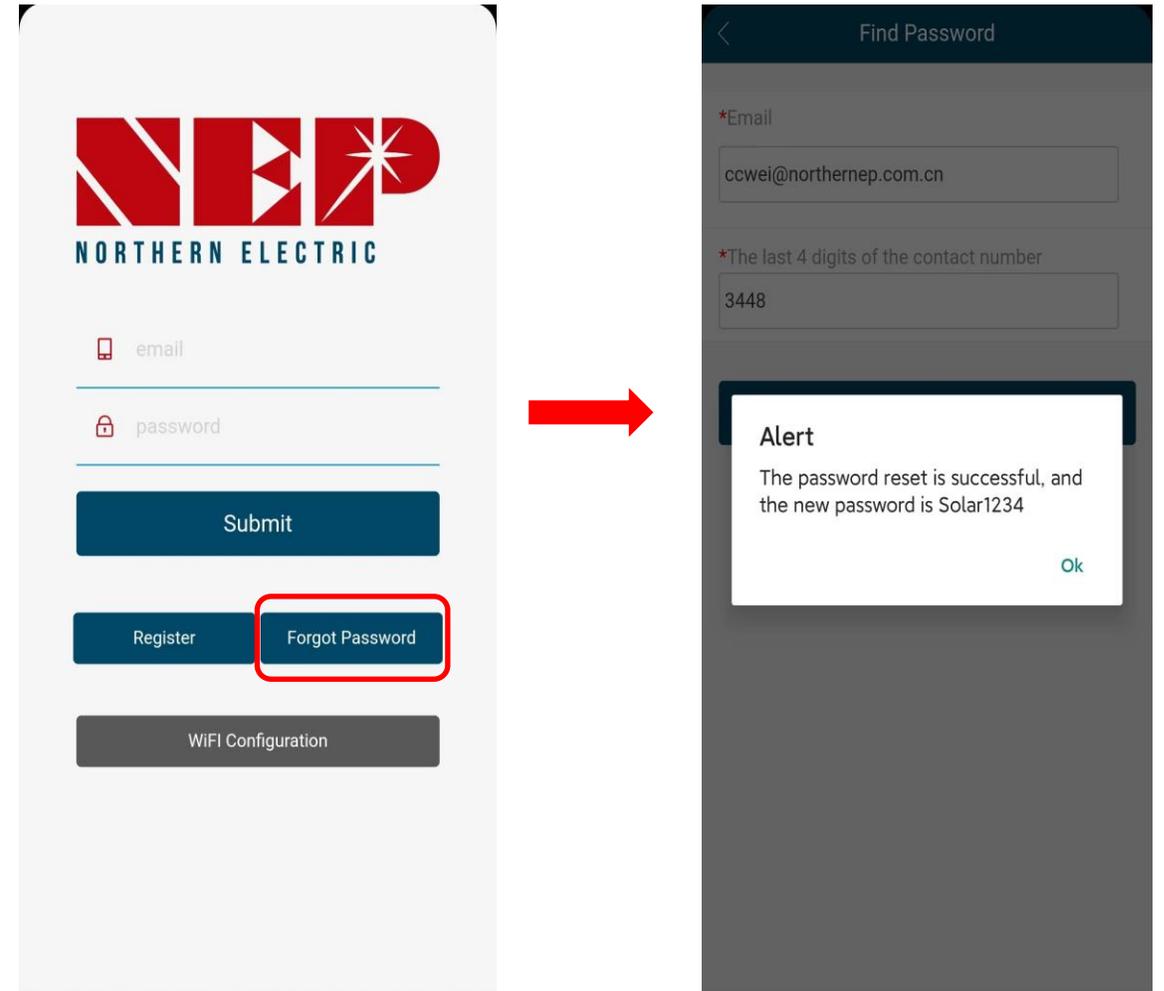


The image shows two screenshots of the Northern Electric mobile application interface. The left screenshot is the login screen, featuring the Northern Electric logo at the top, followed by input fields for 'email' and 'password'. Below these fields are three buttons: 'Submit', 'Register' (highlighted with a red box), and 'Forgot Password'. At the bottom is a 'WIFI Configuration' button. A red arrow points from the 'Register' button to the right screenshot. The right screenshot is the 'Register' form, which includes a back arrow, a title bar 'Register', and several input fields: '*Email', '*Password', '*Confirm Password', 'Street (optional)', 'City (optional)', 'Country (optional)' with a 'select' dropdown, 'State / Province (optional)' with a 'select' dropdown, and 'Zip Code (optional)'.

2.User Interface

2.1.Login

- Click on the button **'Forgot Password'** if you forget your login password
- In detail,you can enter the **Email** and **The last 4 digits of the contact number**
- Click on the button **Sent** ,A window will pop up with a new password,and now you get your new password successfully

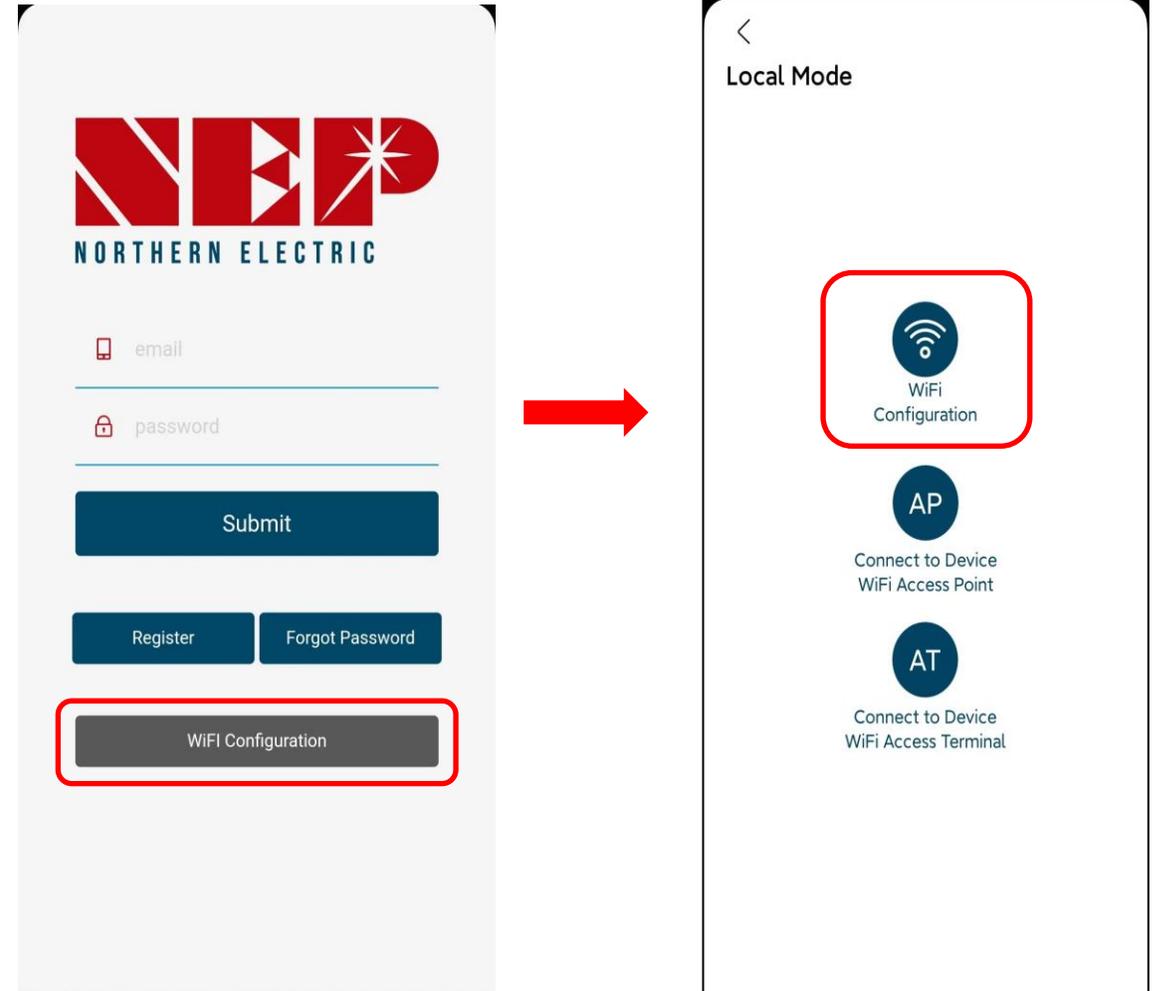


2.User Interface

2.1.Login

- Click on the button **'WiFi Configuration'** and you'll see it in detail
- In detail,click on the icon **WiFi Configuration** you will enter the distribution network

*(You can see **Step2-3 NEPViewer WiFi Configuration** in detail)

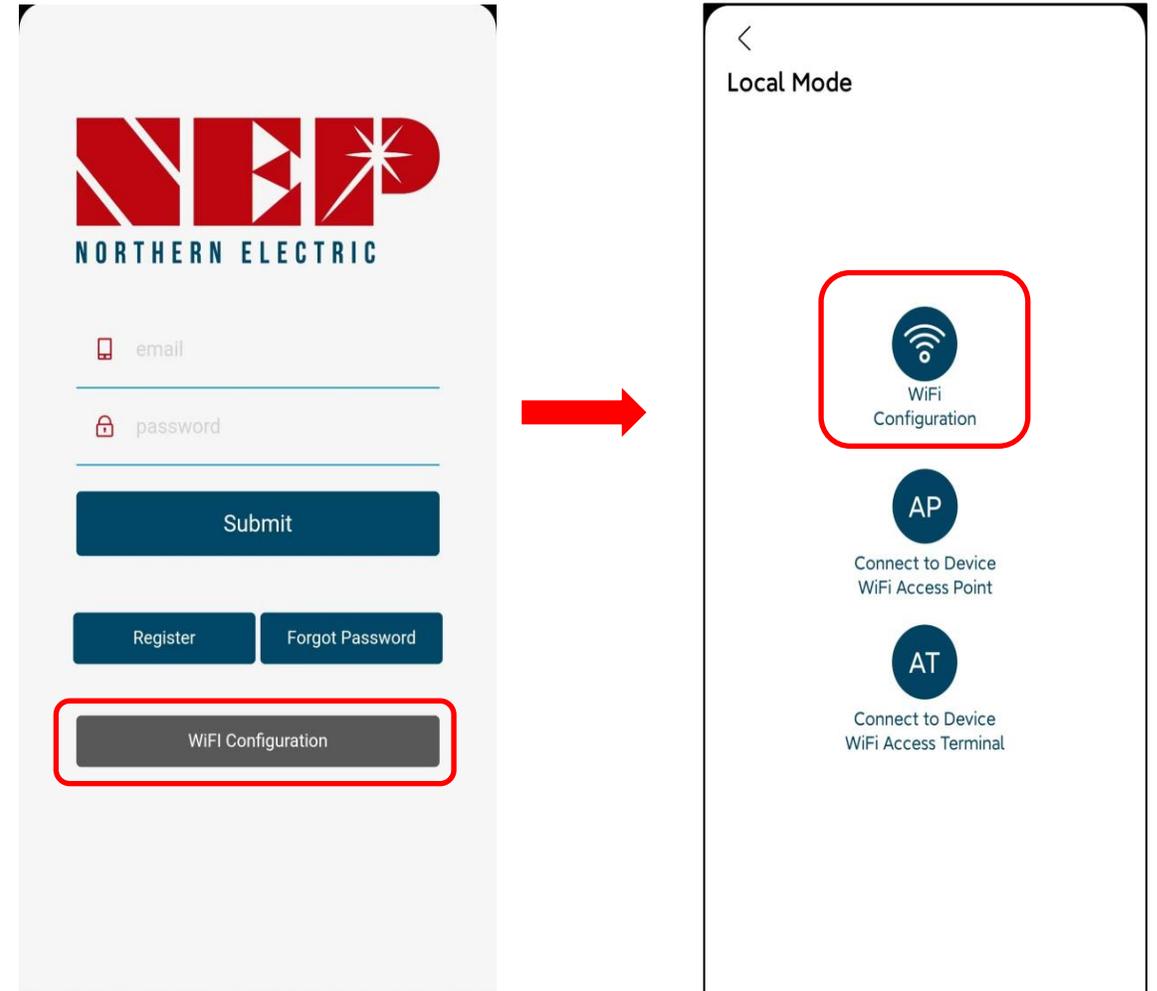


2. User Interface

2.1. Login

- In detail, click on the icon **wifi Configuration** you will enter the distribution network

*(You can see **Step2-3 NEPViewer WiFi Configuration** in detail)



2. User Interface

2.2. PV List

- Click on this icon **'PV List'** and you'll see all the sites you've added



2. User Interface

2.2. PV List

- Click on any site you added before, **NEP SUZHOU** and you'll see it in detail

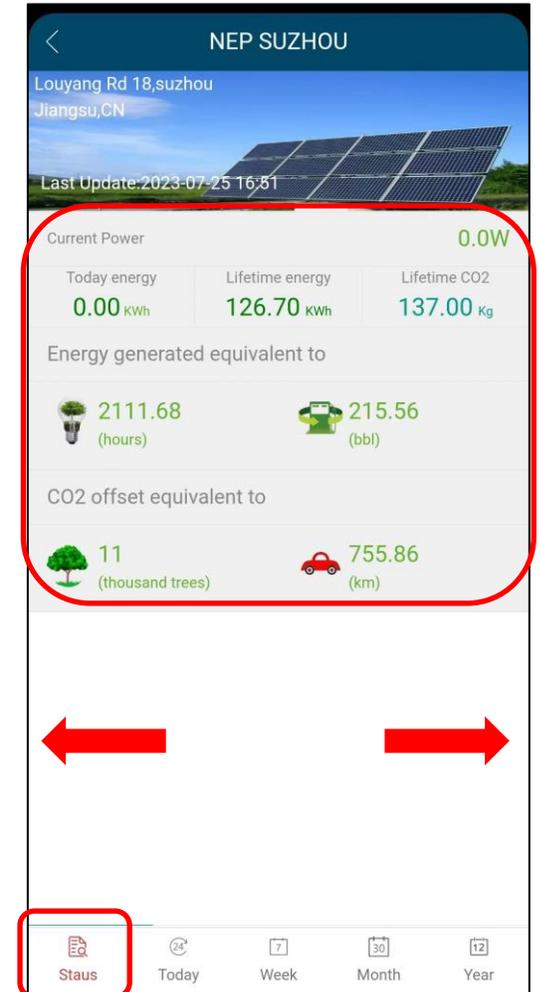


2.2.PV List

2.2.1.PV List-Status

- Click on this icon **'Status'** and you'll see it in detail
- **Current Power** 0.0W means current generation power is 0.0W
- **Today energy** 0.0kw/h means electricity generation today is 0.0kw/h
- **Lifetime energy** 126.70kw/h means total electricity generation reaches 100 kWh
- **Lifetime CO2** 137.00kg means CO2 emissions are reduced by 137 kg

*(You can swipe left and right to switch between different MIS if you have more than one MI)

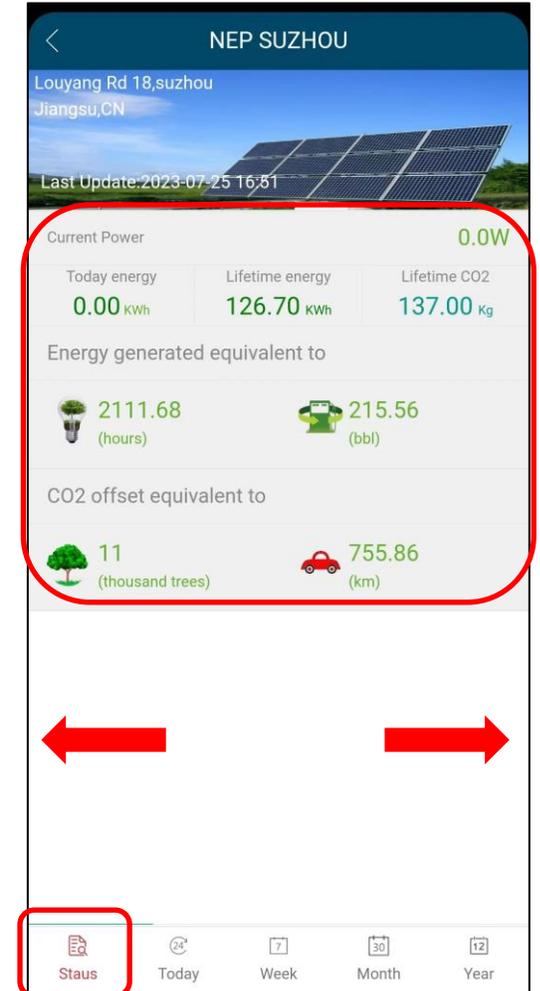


2.2.PV List

2.2.1.PV List-Status

- **Energy generated equivalent to** 2111.68H,215.56L means the power generation can maintain the lighting 2111.68H or can save gasoline 215.56L
- **CO2 offset equivalent to** 11000 trees,215.56km means it can reduce CO2 emissions from 11 trees or 1 km of car driving

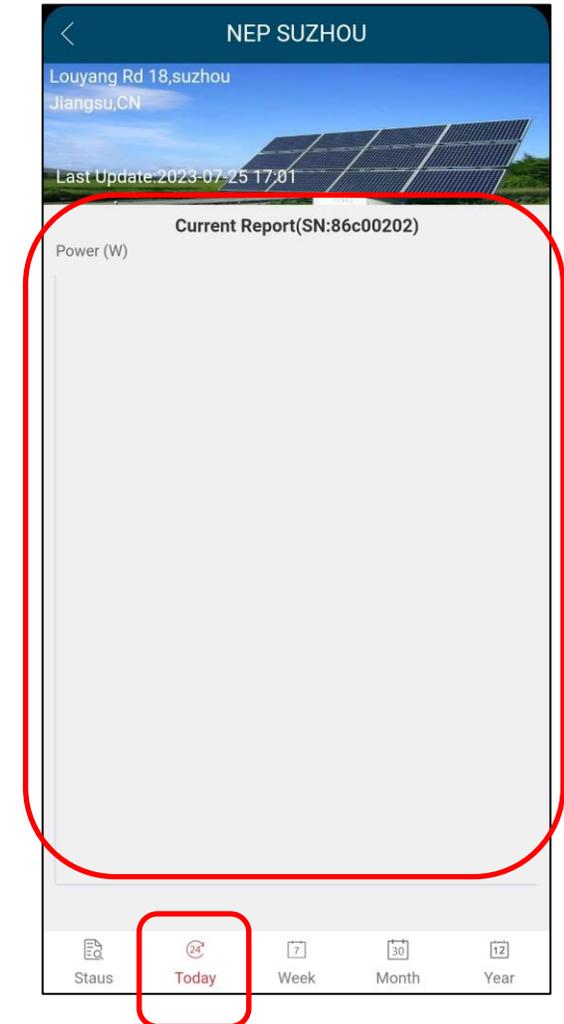
*(You can swipe left and right to switch between different MIS if you have more than one MI)



2.2.PV List

2.2.2.PV List-Today

- Click on this icon **'Today'** and you'll see it in detail
- **Current Report** means a report of the current generation power and it is displayed in a bar chart



2.2.PV List

2.2.3.PV List-Week

- Click on this icon **'Week'** and you'll see it in detail
- **Weekly Report** means a weekly report on electricity generation and it is displayed in a bar chart

*(You can swipe left and right to switch between different MIS if you have more than one MI)

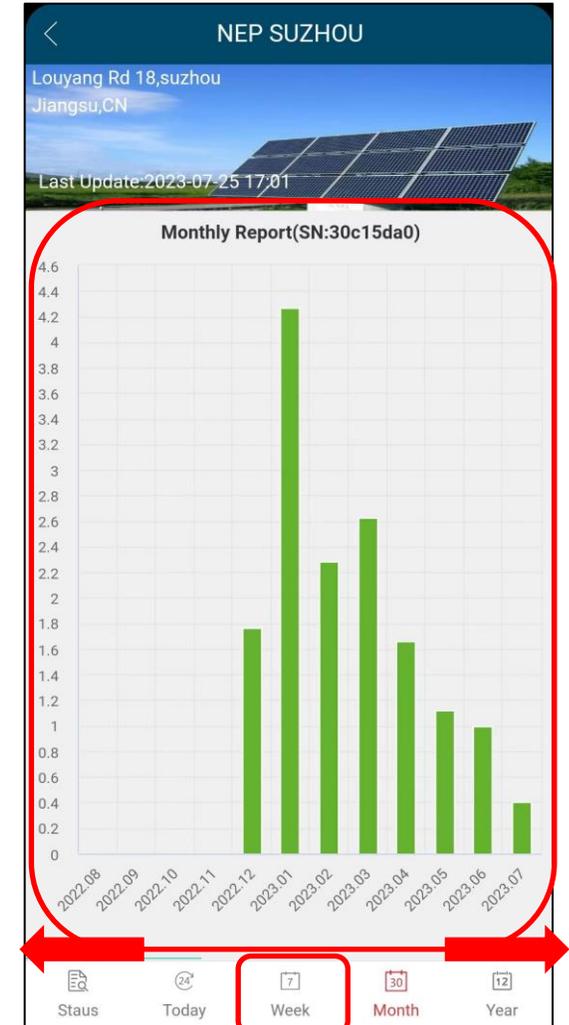


2.2.PV List

2.2.4.PV List-Month

- Click on this icon **'Month'** and you'll see it in detail
- **Monthly Report** means monthly report on electricity generation and it is displayed in a bar chart

*(You can swipe left and right to switch between different MIS if you have more than one MI)



2.2.PV List

2.2.5.PV List-Year

- Click on this icon **'Year'** and you'll see it in detail
- **Yearly Report** means yearly report on electricity generation and it is displayed in a bar chart
- Click on this icon **'return'** and you'll return to the main interface

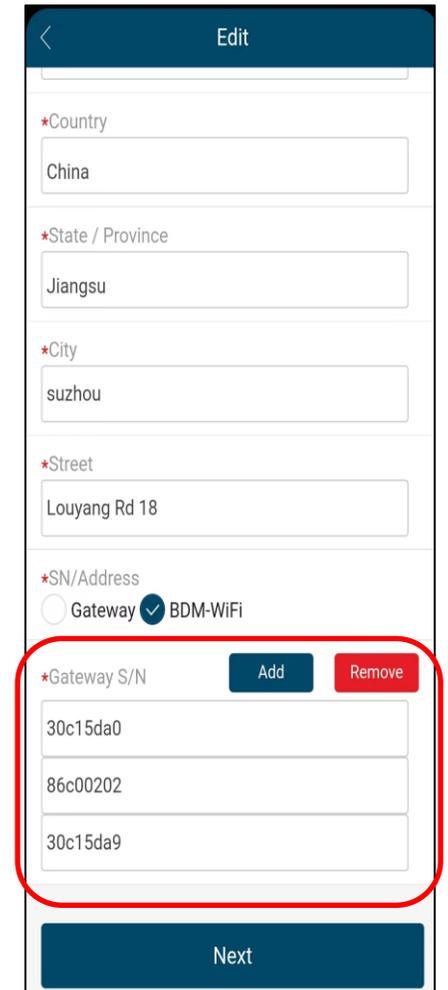
*(You can swipe left and right to switch between different MIS if you have more than one MI)



2. User Interface

2.3. Site

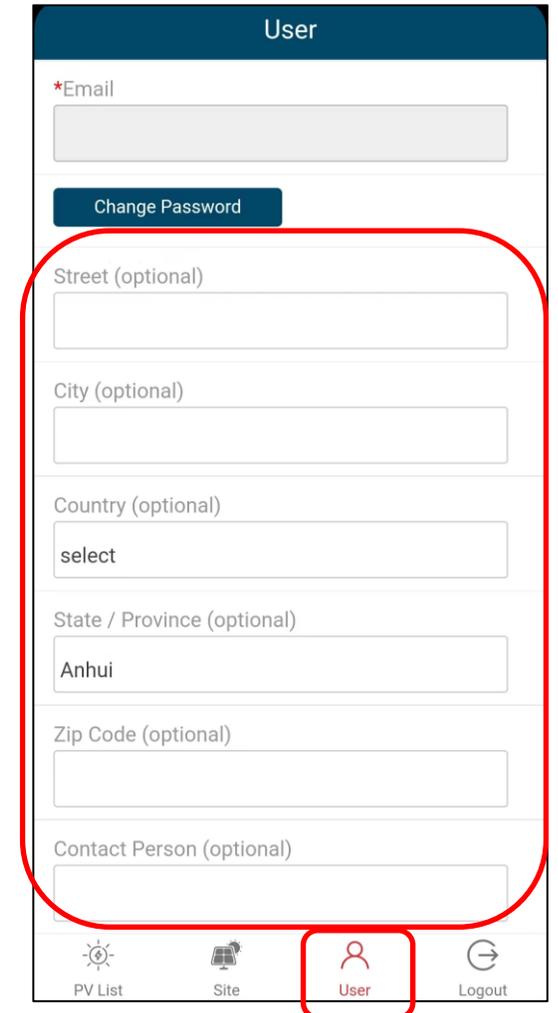
- Click on this icon **'Site'** and you'll see it in detail
- Click on any site you added before, **NEP SUZHOU** and you can edit old infos, and also add or del MIs



2.2.PV List

2.4.User

- Click on this icon **'User'** and you'll see it in detail
- Here you can edit your infos,such as email, password,city,contact number and so on

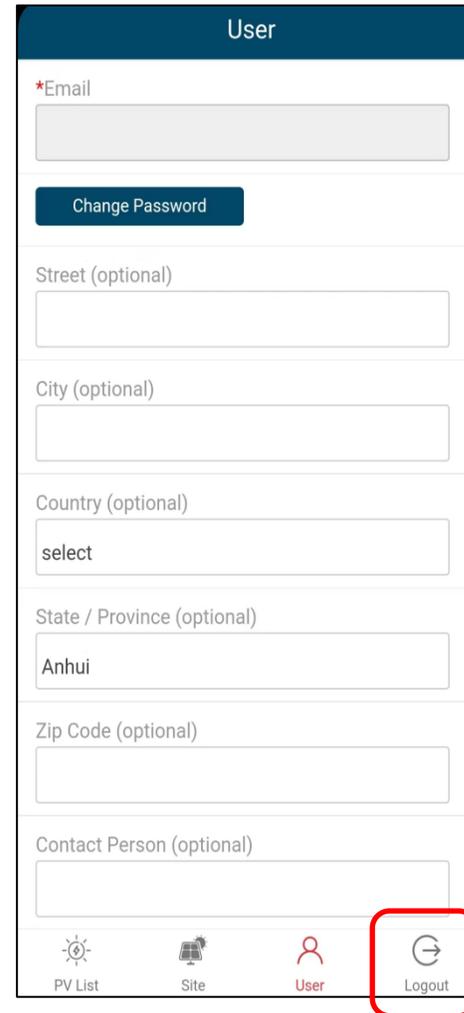


The screenshot shows a mobile application interface for editing a user profile. The page is titled "User" and features several input fields for personal information. A red rounded rectangle highlights the address-related fields: "Street (optional)", "City (optional)", "Country (optional)" (with a "select" dropdown), "State / Province (optional)" (with "Anhui" selected), "Zip Code (optional)", and "Contact Person (optional)". Below the email field, there is a "Change Password" button. At the bottom, a navigation bar contains icons for "PV List", "Site", "User" (highlighted with a red square), and "Logout".

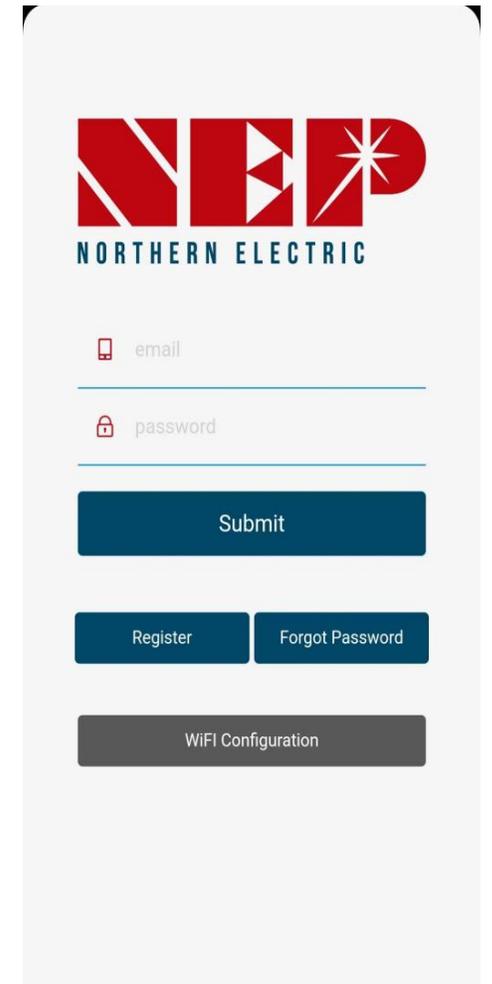
2. User Interface

2.5. Logout

- Click on this icon **'Logout'** and you'll return to the login page



The 'User' page contains a form with the following fields: *Email, Change Password, Street (optional), City (optional), Country (optional) with a 'select' dropdown, State / Province (optional) with 'Anhui' selected, Zip Code (optional), and Contact Person (optional). At the bottom, there is a navigation bar with icons for PV List, Site, User, and Logout. The Logout icon, which is a circular arrow, is highlighted with a red square.



The login page features the Northern Electric logo at the top, followed by input fields for email and password. Below these fields are buttons for Submit, Register, and Forgot Password. At the bottom, there is a dark button labeled 'WiFi Configuration'.