emaldo

Emaldo Power Core AIO

APP USER GUIDE

ABOUT US

emaldo

At Emaldo, we are passionate about providing Sustainable Energy Solutions for Your Home. We specialize in home power stations with battery storage, offering you the freedom to harness and store clean energy efficiently.

The Emaldo app allows you to monitor and manage Your Energy usage in real-time. Maximize energy efficiency by setting the Reserve Mode and EV Charge according to your personal preferences. Control your system from anywhere with remote access and instant alerts.

Experience flexible system management, instant notifications, and core features in one app, elevating your energy utilization to the next level!

SIGN UP GUIDE

APP LAYOUT GUIDE

STATS

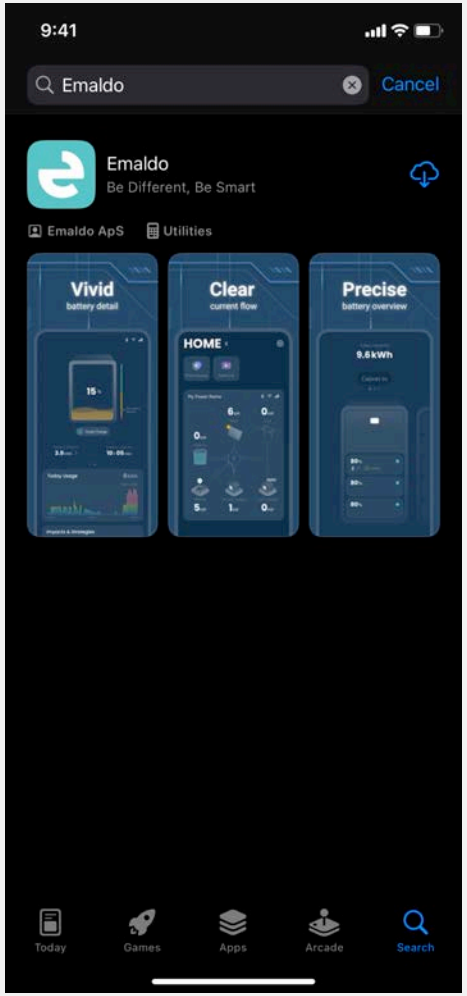
IMPACT & STRATEGIES GUIDE

EV CHARGE

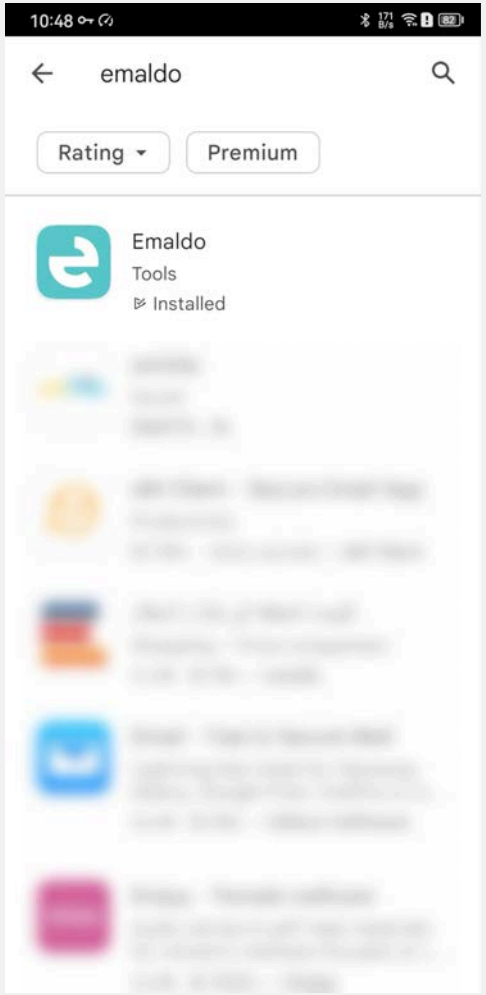
PRIME SERVICE

SETTINGS

DOWNLOAD APP



App Store



Google Play

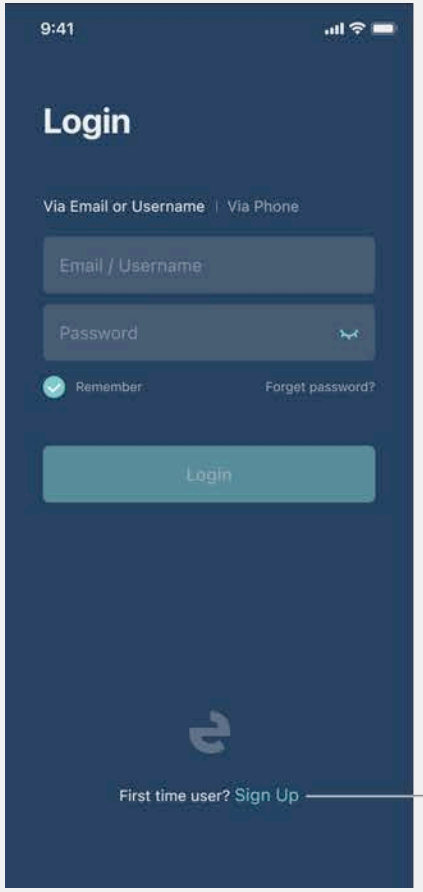
Download the App by scanning the QR code, or search Emaldo in the App Store or Google Play.

Download APP

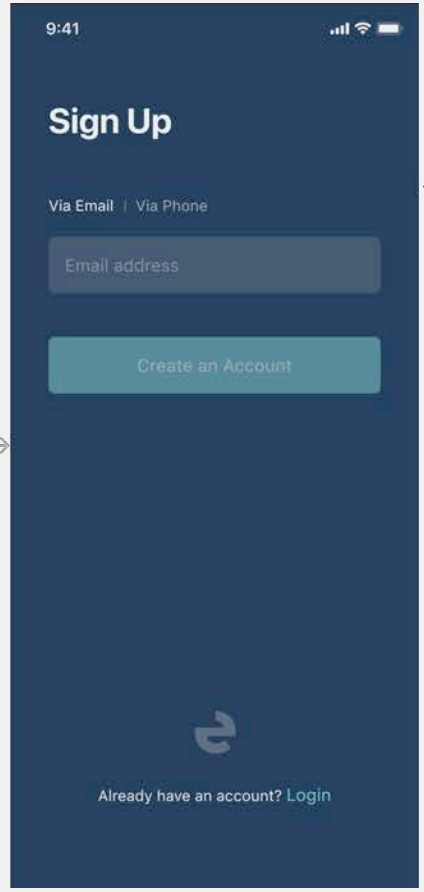
CREAT A LOGIN

emaldo

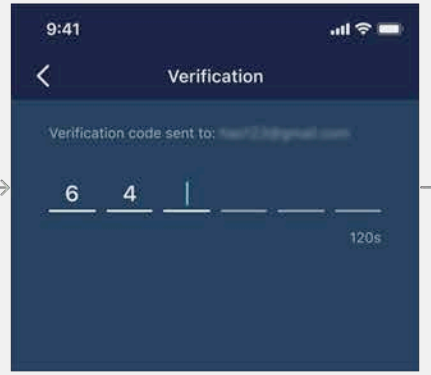
Login



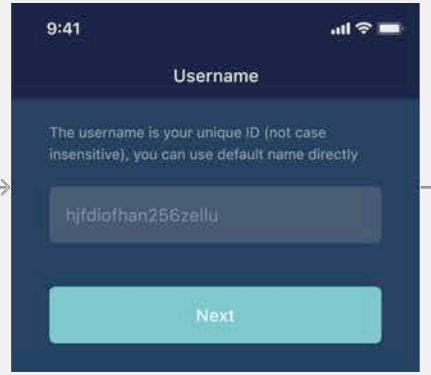
Account Registration



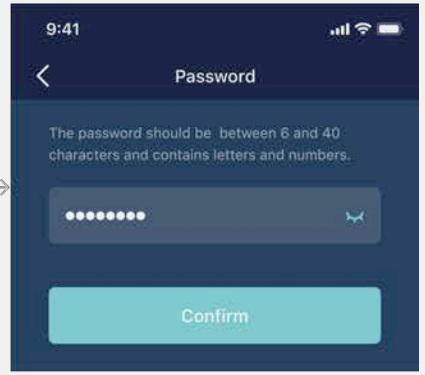
Verification code



Set username



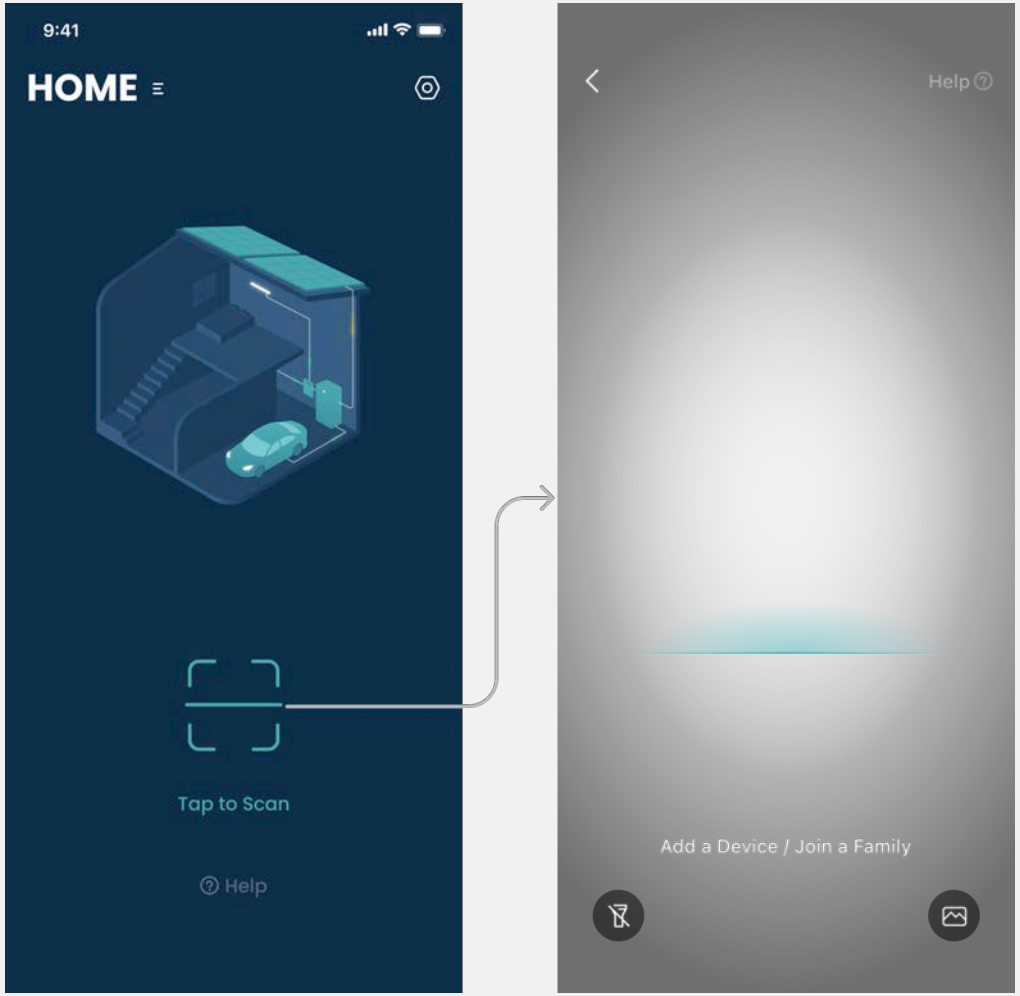
Set password



After launching the app, you need to log in to your account, and can tap ‘Sign up’ at the bottom to create an account.

It supports email or phone number registration, enter the verification code you received, set your username and password, and you will be able to enter the app.

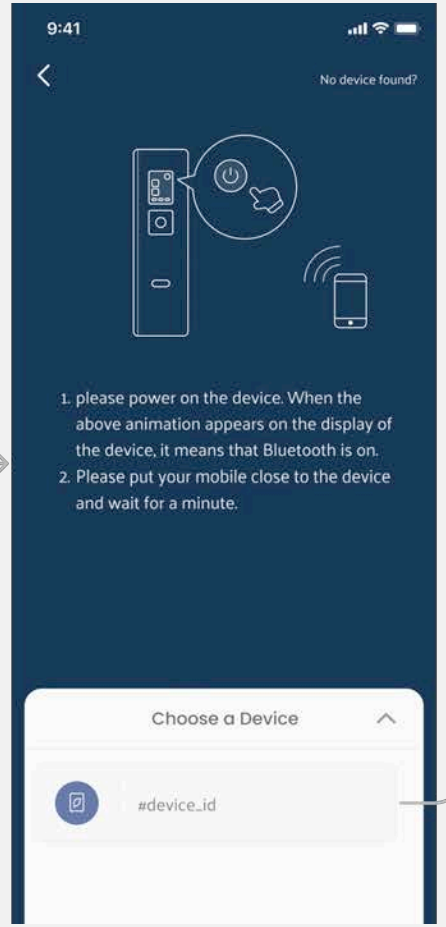
CONNECT POWER CORE



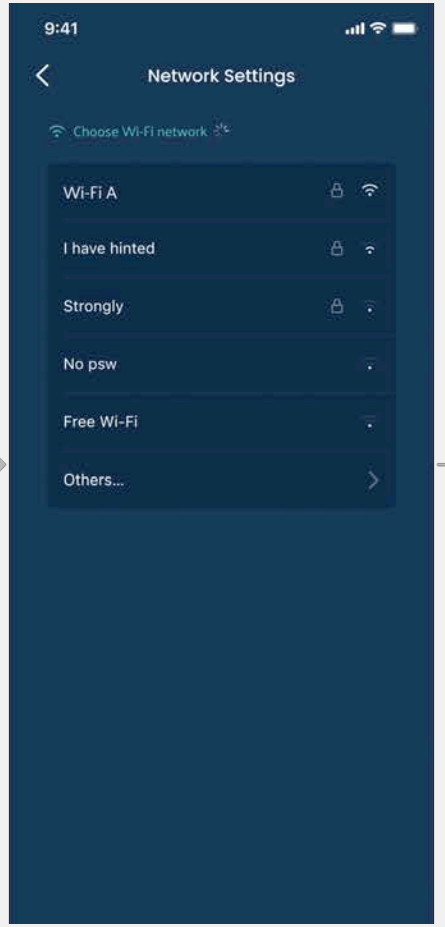
After you sign in, the App will create a family by default. Connect with the power core via the device QR code.

CONNECT POWER CORE(1/2)

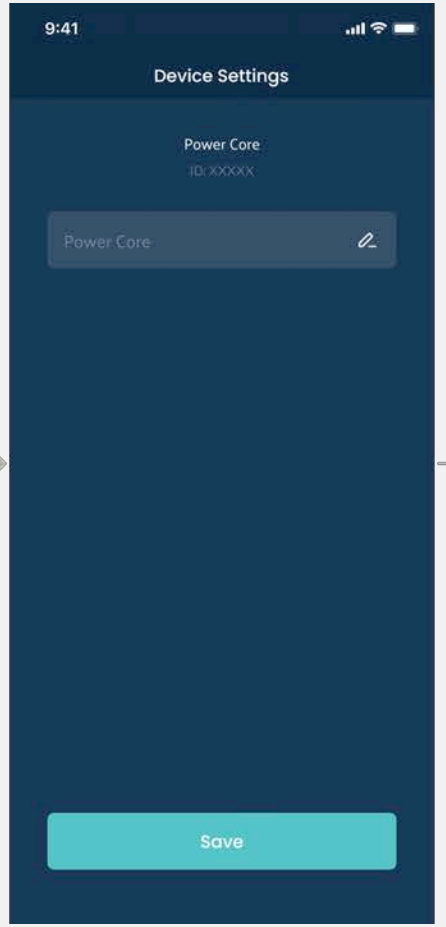
bluetooth scanning



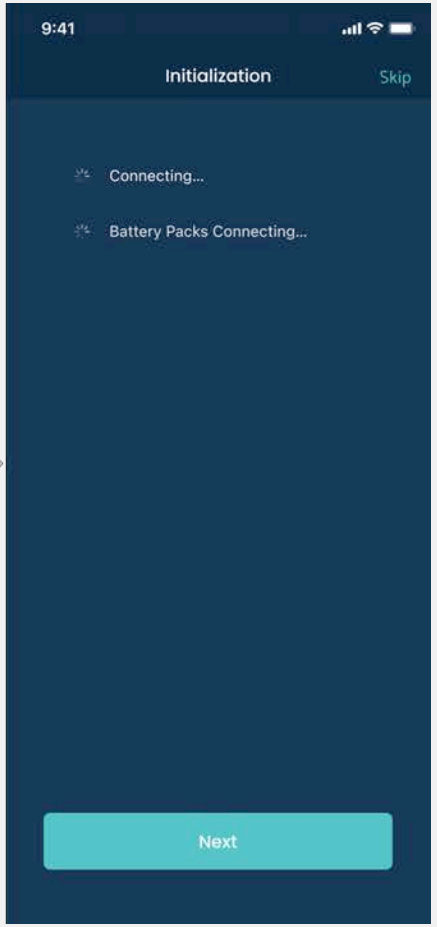
select a device



connected network



setting device name

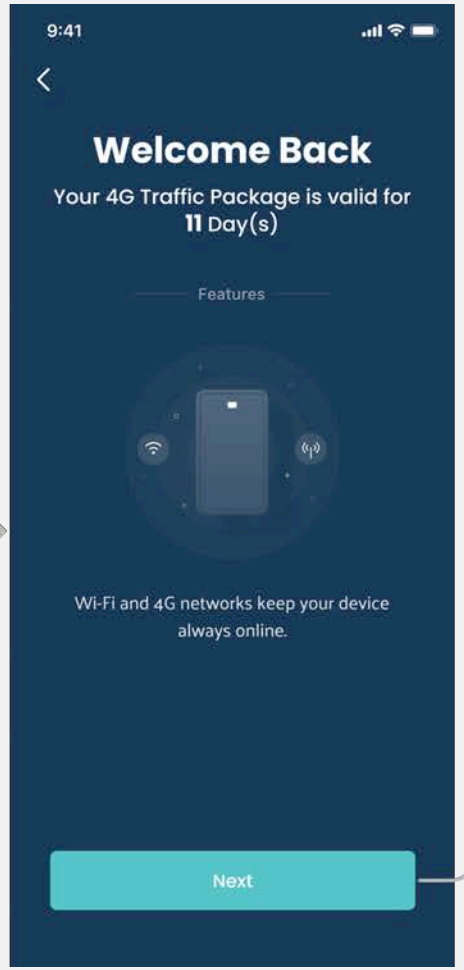


waiting to connect

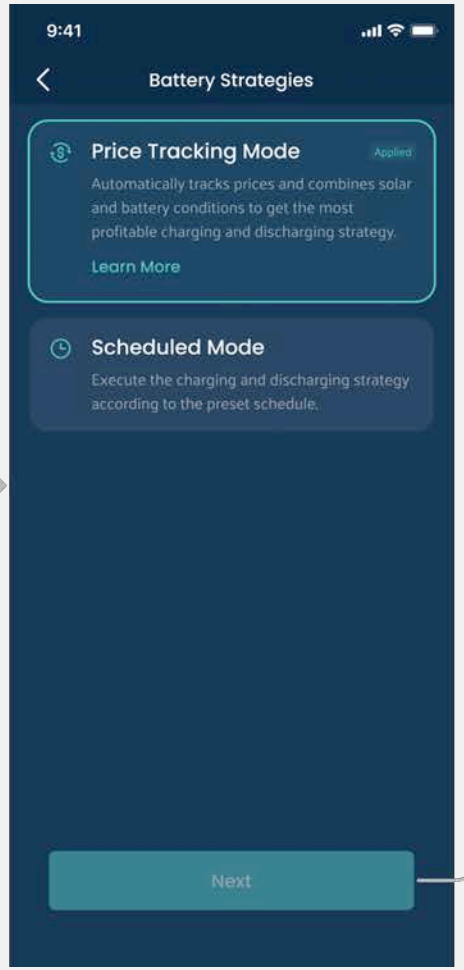
CONNECT POWER CORE(2/2)

emaldo

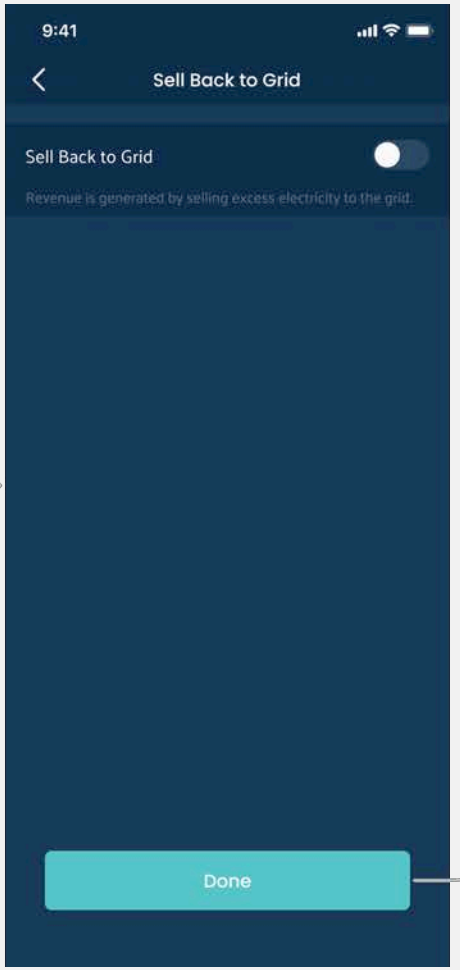
select your country



current Service Packs



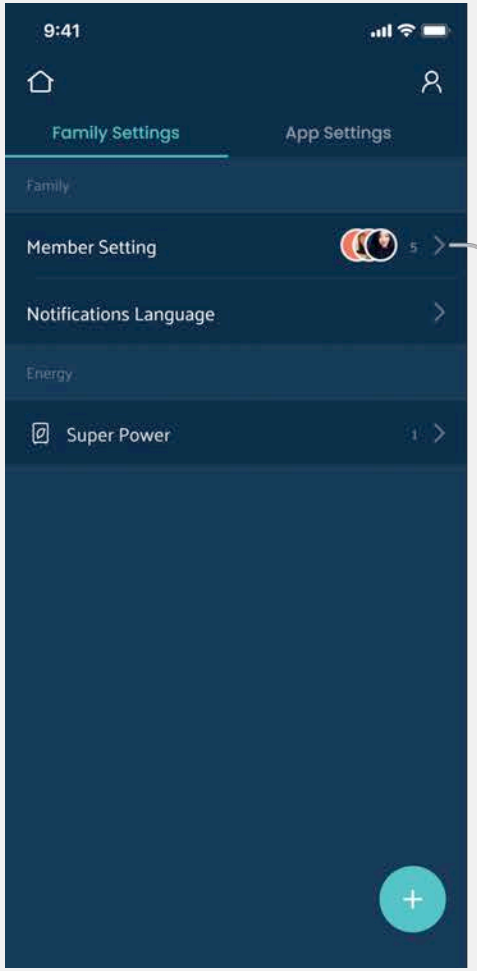
select Battery Strategy



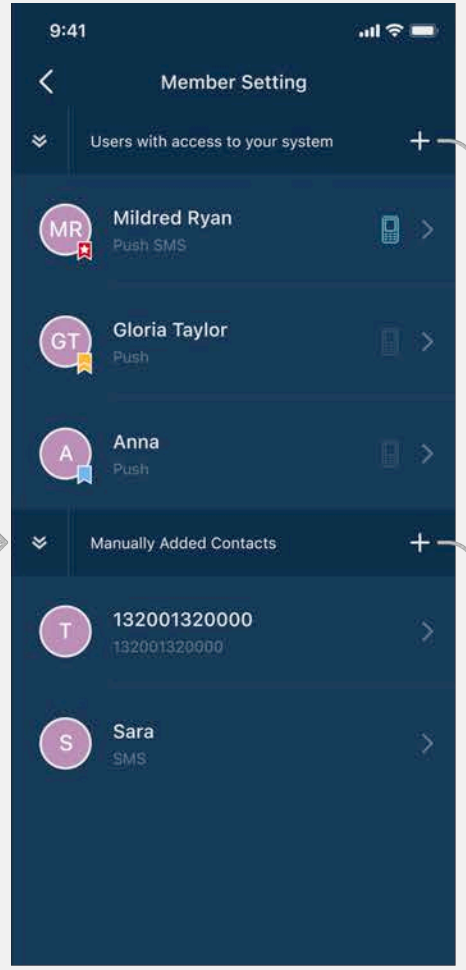
Sell utility switch

INVITE NEW FAMILY MEMBERS

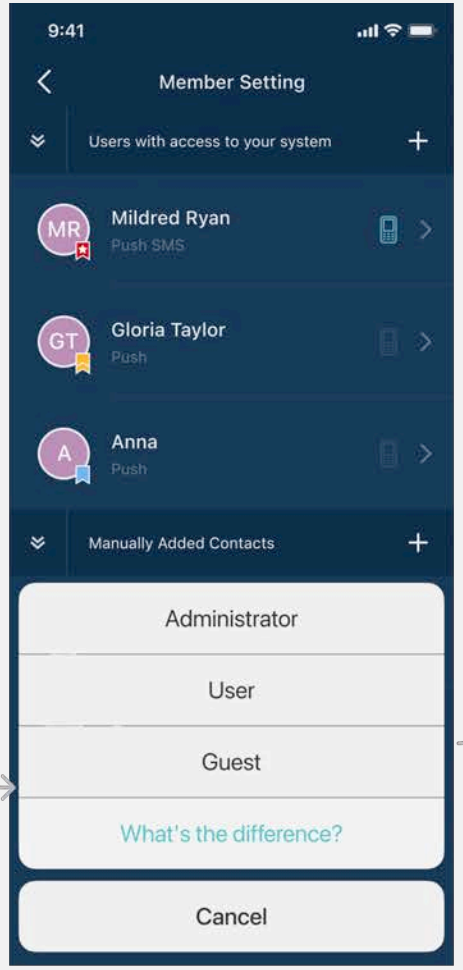
emaldo



menber setting

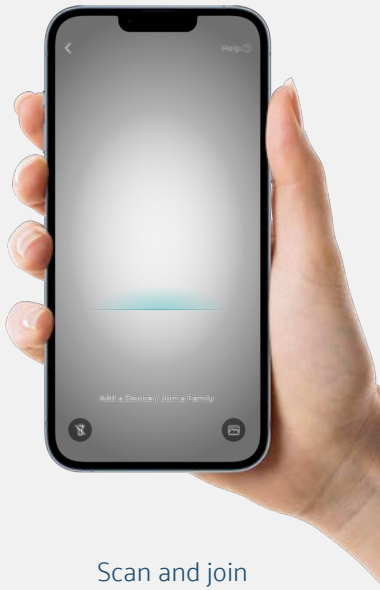


invitation method



permission settings

generate family QR code



Scan and join the family

SIGN UP GUIDE

APP LAYOUT GUIDE

STATS

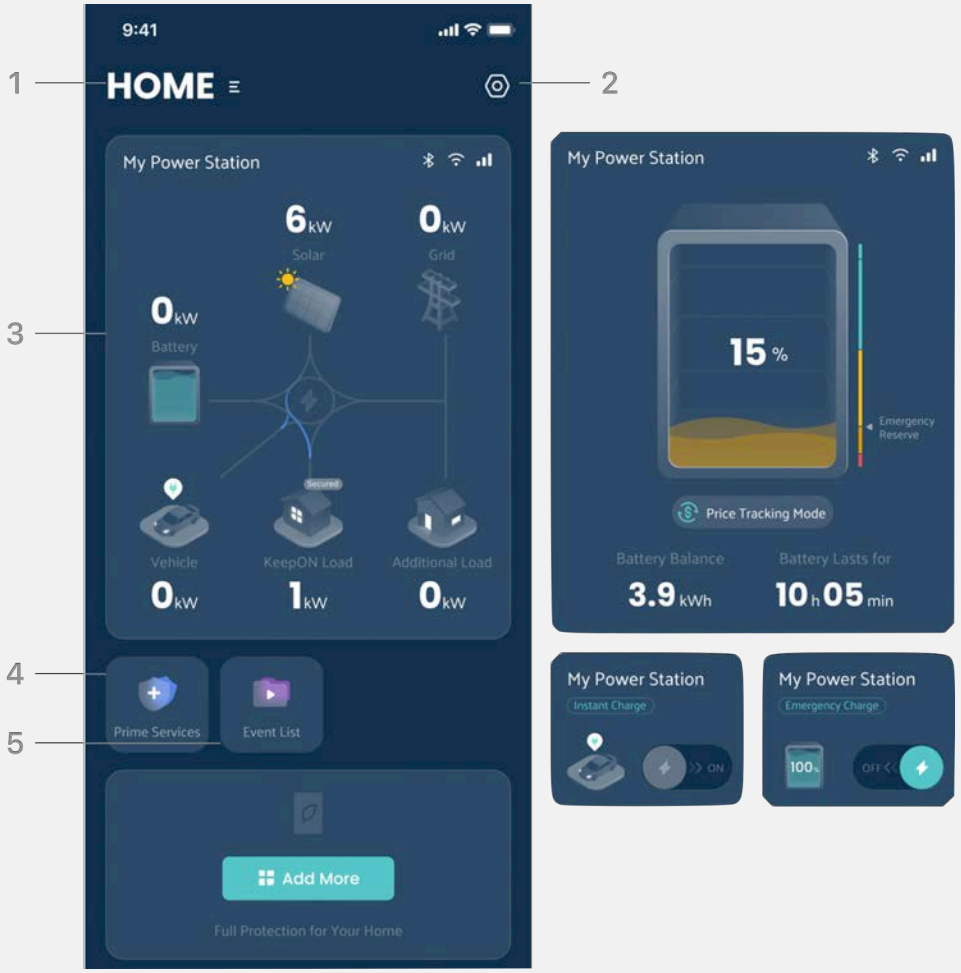
IMPACT & STRATEGIES GUIDE

EV CHARGE

PRIME SERVICE

SETTINGS

START PAGE



1 Switching Families

Multiple devices are assigned to different families and can be managed under the same account.

2 Family Settings and App Settings

Manage family members, view all devices in the family, and view information related to other apps.

3 Widget Card

Users can also freely customize different widgets on the homepage, such as adding a Battery View , EV Instant Charge Widget or Battery Emergency Charge Widget. You can tap on add more button to add other widgets.

4 Value-added Services

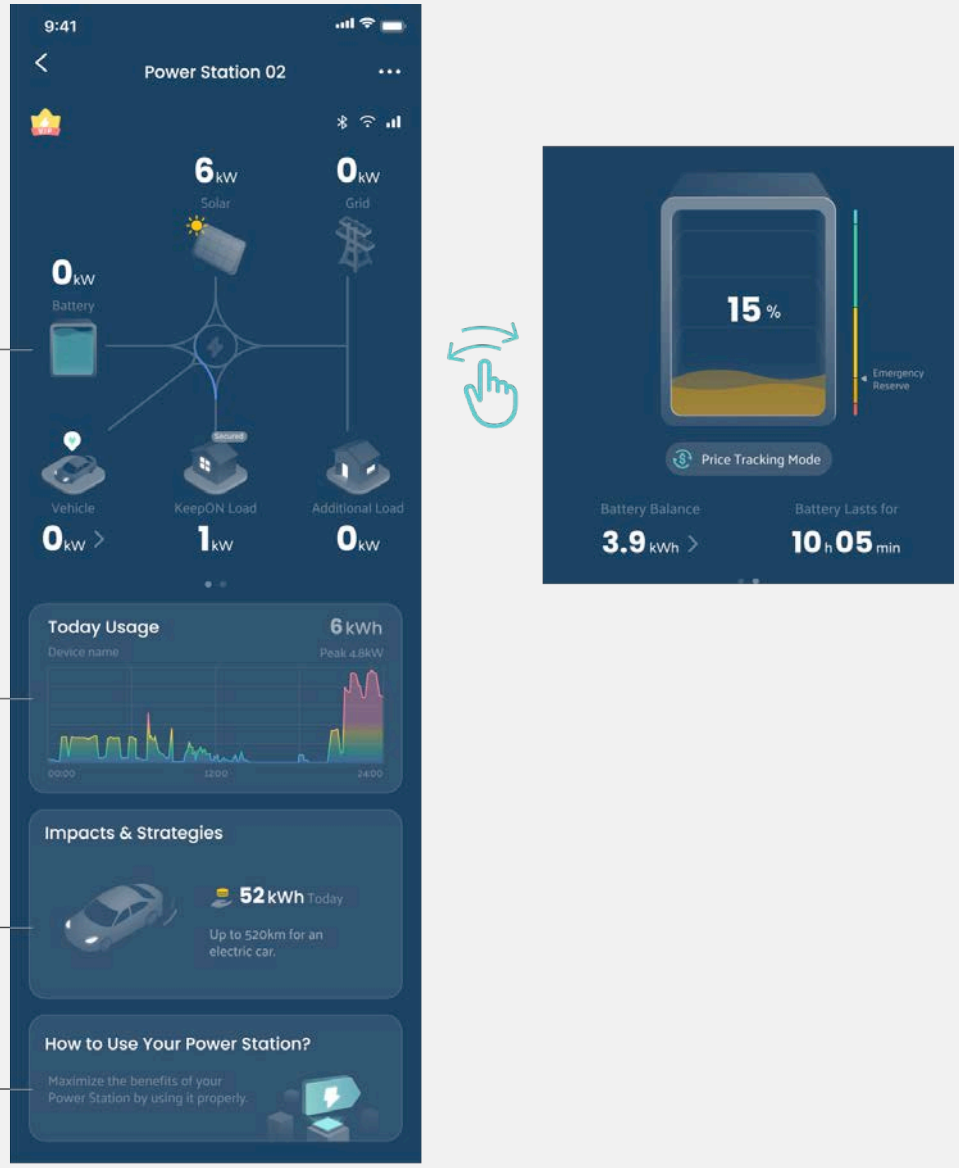
View service details and manage subscriptions.

5 Event List

All historical events of the home, including device exception records, device running records, and UPS function startup records after grid outage.

MAIN PAGE

emaldo



1 Device Status

Swipe left and right to switch the two main views of Real-time Current and Battery Status. Preview card for a quick look at your power core's usage.

2 Usage Statistics Overview

Here is a Today Usage chart, tap on it can check a detailed page of statistical charts by category.

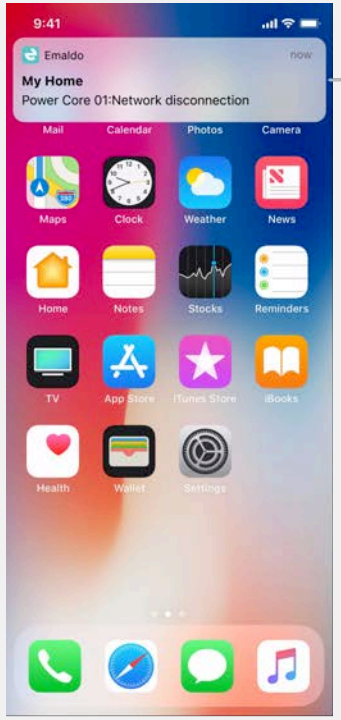
3 Impacts & Strategies

Here is for view Impacts assessments, which include total energy gain today, share of clean energy, income data statistics.

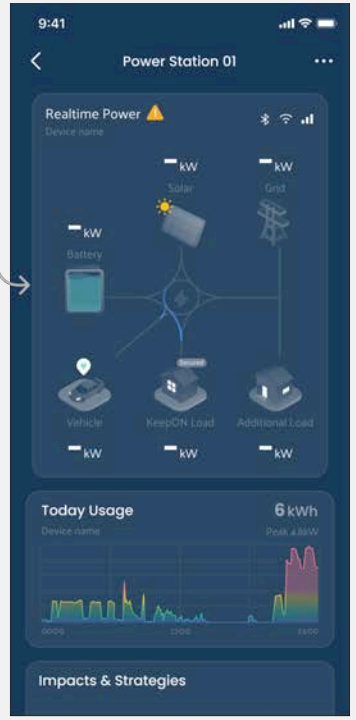
4 User Guide

Swipe left and right to switch the two main views of Real-time Current and Battery Status. Preview card for a quick look at your power core's usage.

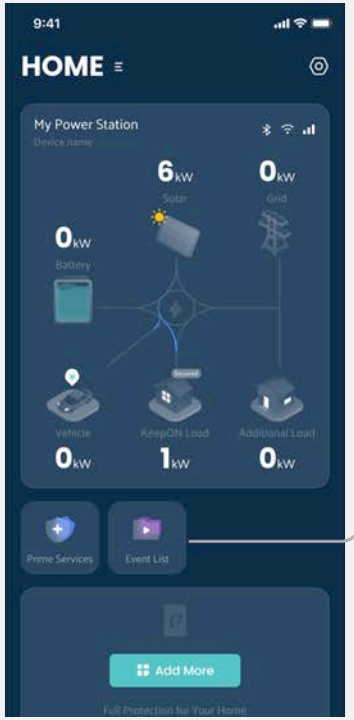
ABNORMAL ALERTS



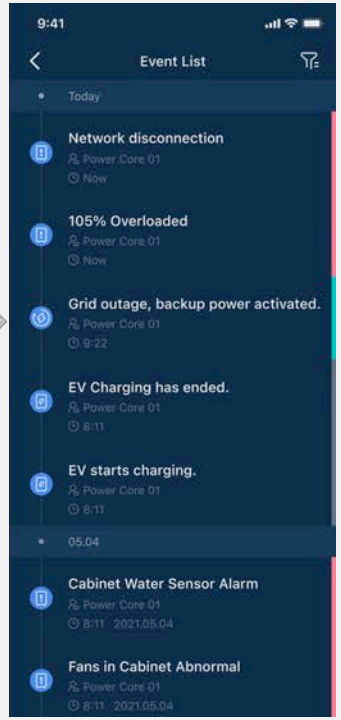
Exception Push



Switch main page



Even List



Even List record

If an exception occurs on the device, the system will push it to the user's mobile phone, and an exception message will be displayed at the top of the device details page.

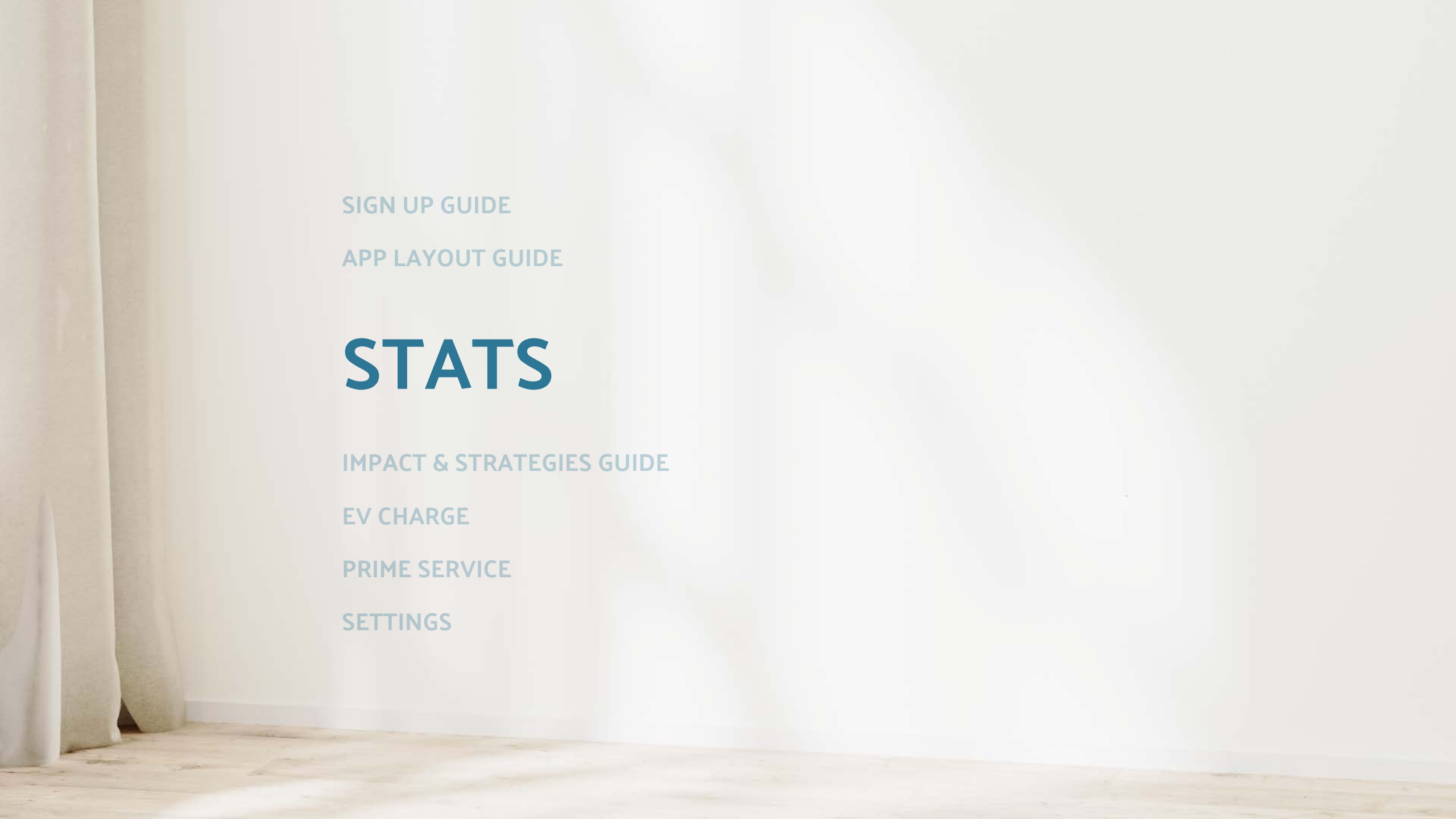
Open the message to view more details (You can query historical exception records in the Event List on the app homepage).

STATUS DESCRIPTION

The icons in the Real-time Current View respectively represent:

1. Solcar generation
2. Grid usage or selling back
3. Battery status
4. EV status
5. Home keepON load
6. Home additional load

In this picture you can see what the different states indicate.



SIGN UP GUIDE

APP LAYOUT GUIDE

STATS

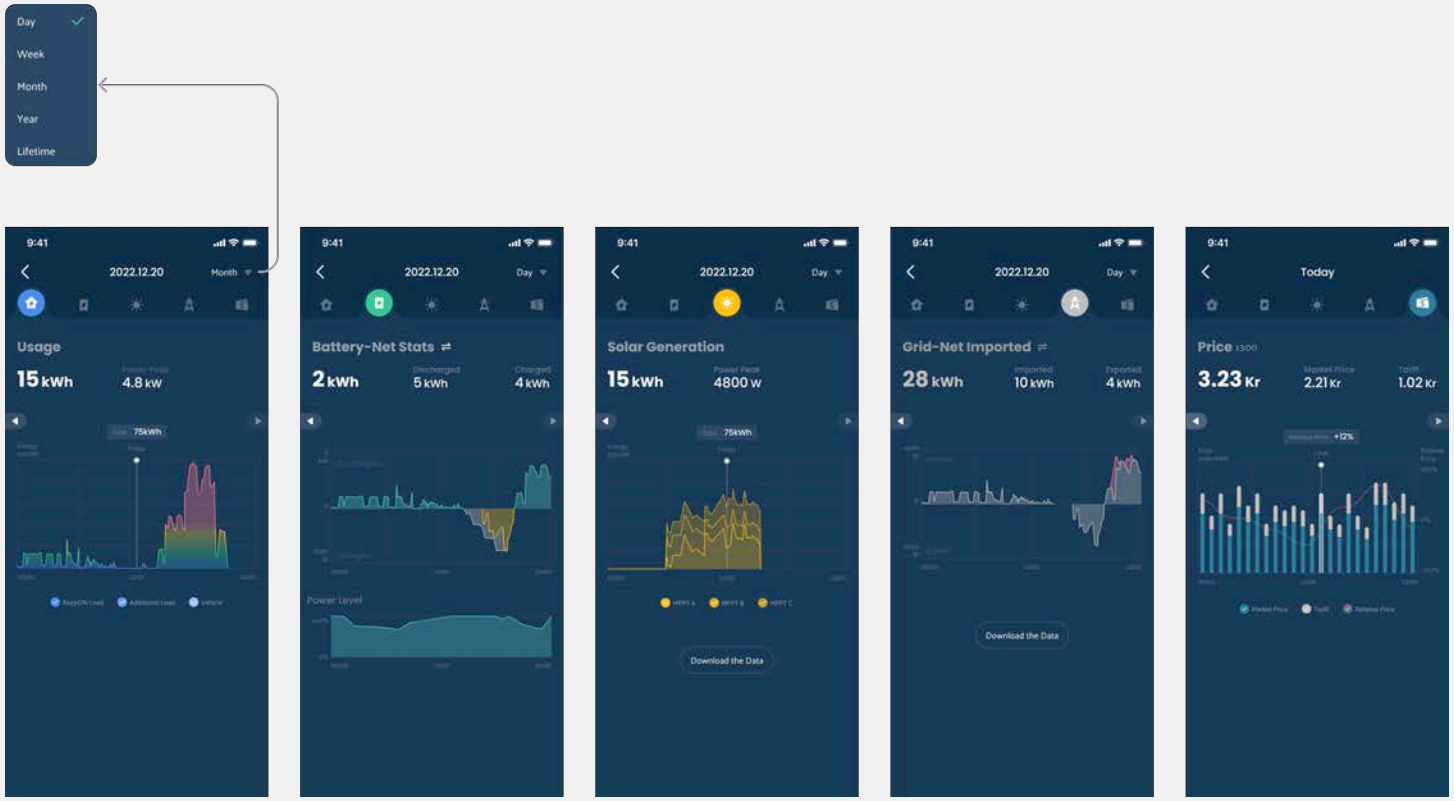
IMPACT & STRATEGIES GUIDE

EV CHARGE

PRIME SERVICE

SETTINGS

POWER/ENERGY STATS



usage | battery net stats | solar generation | grid net stats | price

How to read statistical charts?

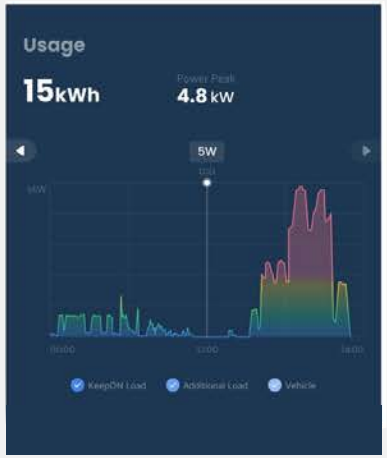
- The current statistical period is displayed in the title bar. By default, the statistics are collected in 'Days'. The buttons on the right can switch the statistical period, such as 'Week', 'Month', 'Year', or 'Lifetime'.
- The tab button below the title bar can switch the statistics subject between: Home Usage, Battery Charged/Discharged, Solar Generation and Grid Imported/Exported.

POWER/ENERGY STATS

Power and Energy Chart

When the period is ‘Day’, the statistics are the power at each moment, so it is a line graph. If you switch to a long period such as ‘Week’, ‘Month’, ‘year’, and ‘Lifetime’, the accumulated energy at each time granularity is counted.

At the same time, in the long period, the power peak of each time granularity will also be recorded and shown by the attenuated explicit graph overload on the bar chart. This allows you to see past power overload.



Day

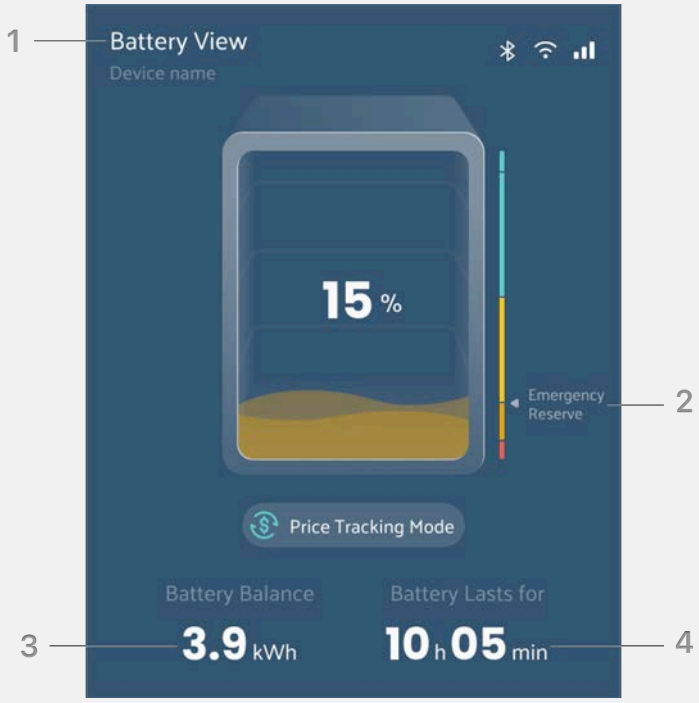
Week

Month

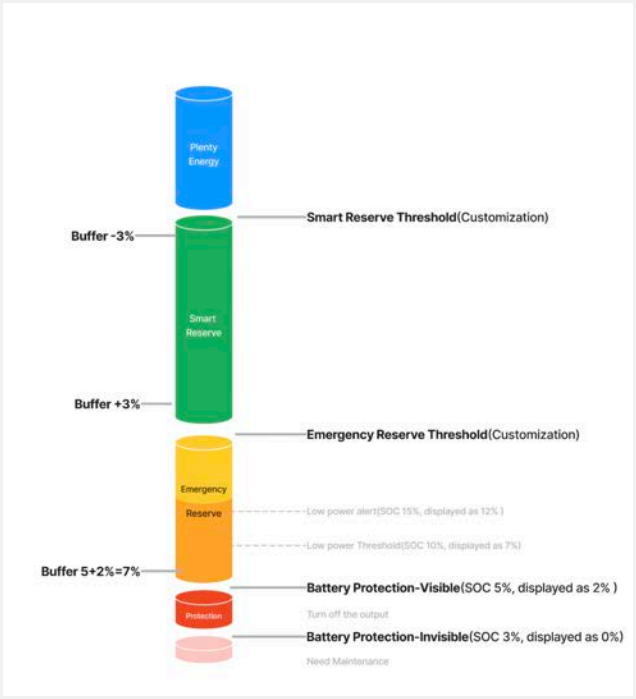
Year

Lifetime

BATTERY VIEW



Battery View



a loopback buffer mechanism 👆

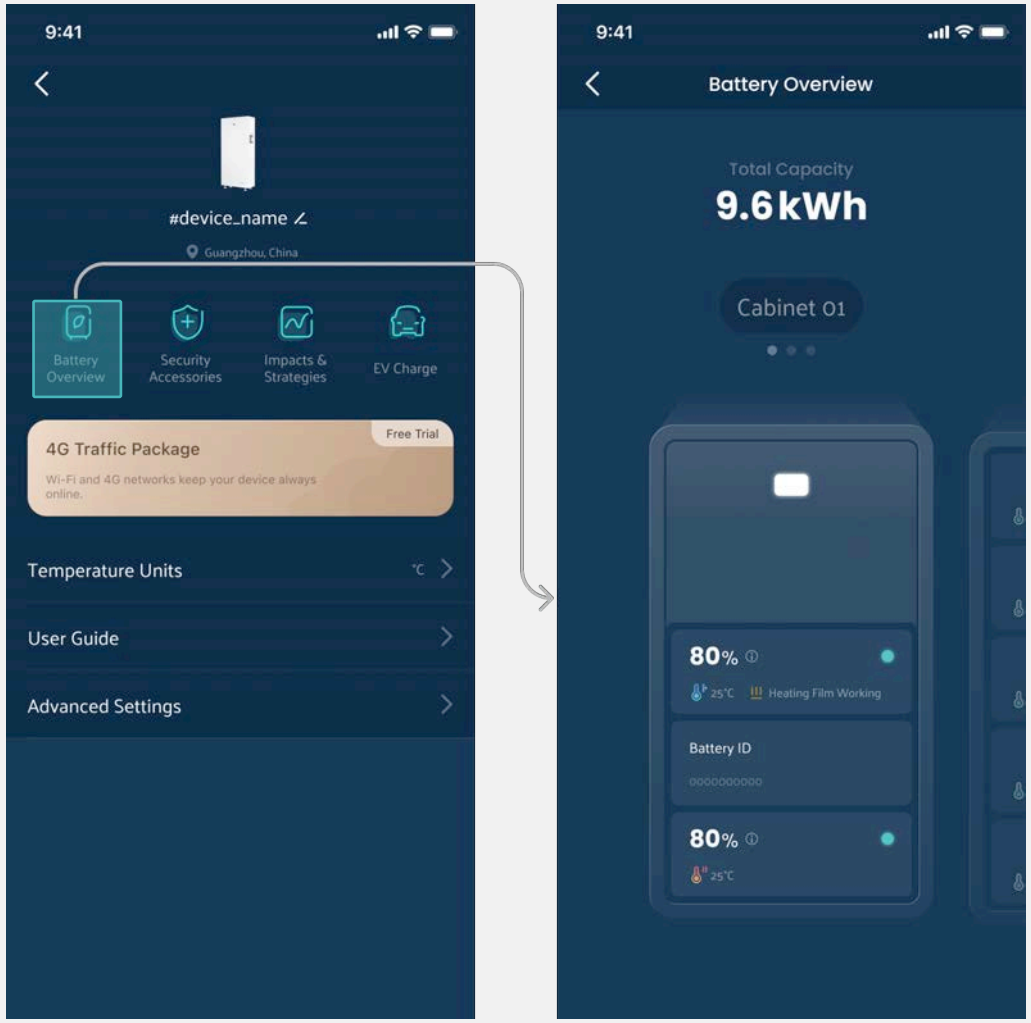
1. Power Core's battery
2. Power status range
3. The estimated battery capacity
4. Battery Life or Charging Time

Emaldo PC has lower and upper thresholds installed to protect the heart of your battery.

The lower threshold stops battery discharge.

The upper threshold slows down the charging.

BATTERY OVERVIEW



Tapping **Battery Balance** on the Device Main-page, or **Battery Overview** on the Battery Settings page to view battery details.

Slide horizontally to see the expansion cabinet (if any), where each small card represents a battery pack. Tap on the battery pack card to view the ID of each pack individually.

If the battery temperature is too low, the heating film provided with the battery pack will be heated respectively, and the corresponding status is displayed on the screen.

When the battery temperature reaches the low or high temperature protection threshold, the battery output will stop.

SIGN UP GUIDE

APP LAYOUT GUIDE

STATS

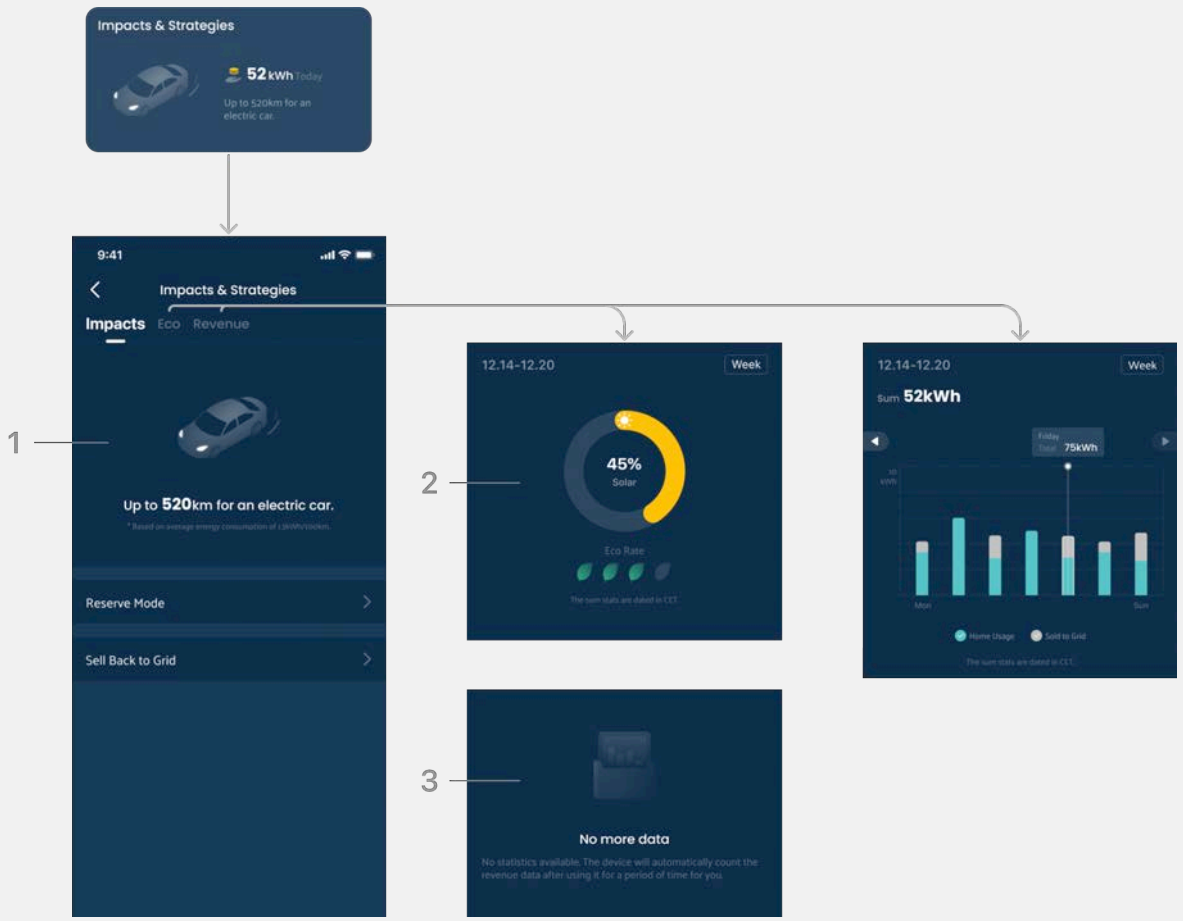
IMPACT & STRATEGIES GUIDE

EV CHARGE

PRIME SERVICE

SETTINGS

IMPACTS & STRATEGIES



Tapping the 'Impacts & Strategies' card on the Device Main-page to view Impacts assessments.

1 Total Energy Gain Today

Toal energy = Home Usage Saved + Sold to Grid. The generated energy value can be converted into electric vehicles, light bulbs, refrigerators and other specific electrical appliance.

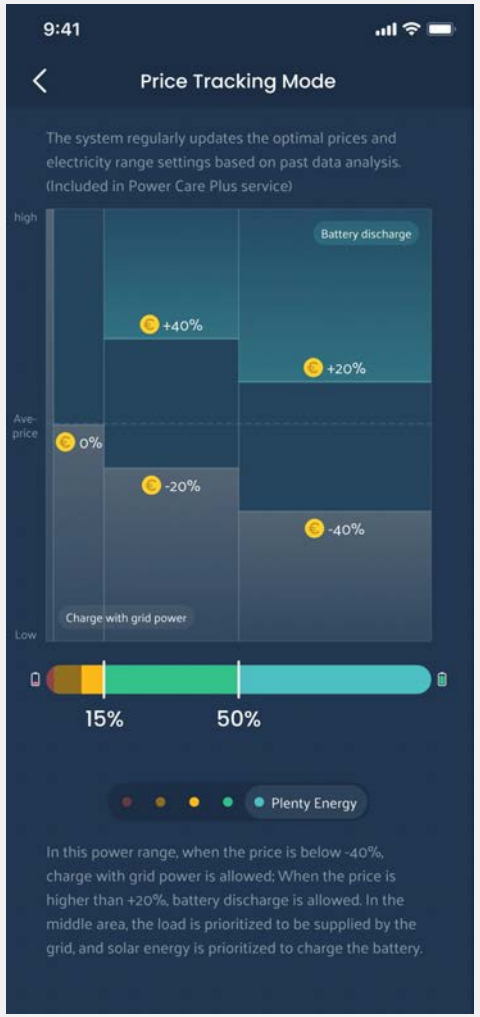
2 Share of Clean Energy

The ratio of solar power generation to total system energy consumption for the week.

3 Income Data Statistics

Your phased benefits including Home Usage Saved and Sold to Grid.

STRATEGIES

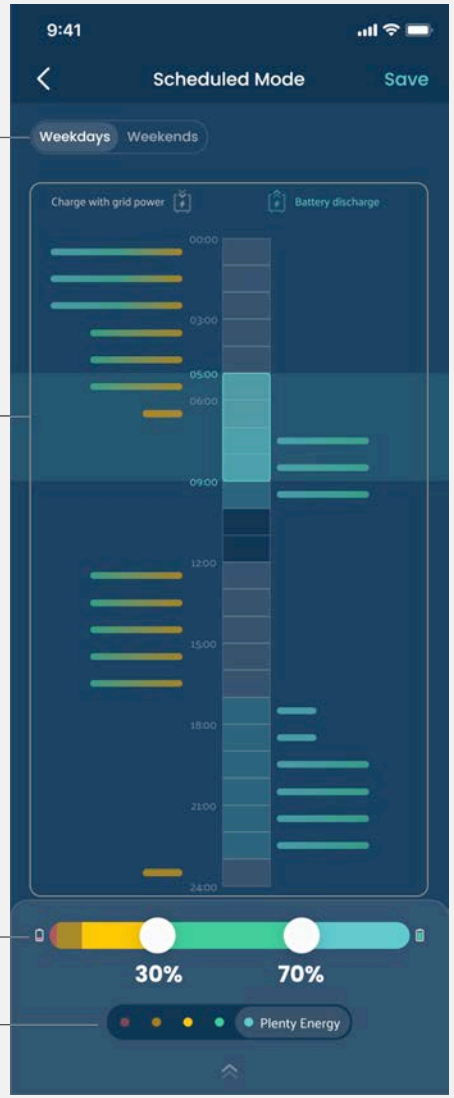


Price Tracking Mode

The system regularly updates the optimal prices and electricity range settings based on past data analysis.

- Plenty Energy. In this power range, when the price is below #C1, charge with grid power is allowed; When the price is higher than #S1, battery discharge is allowed. In the middle area, the load is prioritized to be supplied by the grid, and solar energy is prioritized to charge the battery.
- Smart Reserve. In this power range, when the price is below #C2, charge with grid power is allowed; When the price is higher than #S2, battery discharge is allowed. In the middle area, the load is prioritized to be supplied by the grid, and solar energy is prioritized to charge the battery.
- Emergency Reserve. This part of power is used as emergency power supply in case of grid outage. During daily use, when the price is below #C3, charge with grid power is allowed. Otherwise, the load will be supplied by the grid, and solar energy will charge the battery first.
- Low-power Alert. When the power is lower than 12%, the system will send a low power alert. This part of electricity is still belong to the Emergency Reserve.
- Battery Protection. When the battery power is lower than 2%, the battery will stop discharging to protect the battery performance. If there is a grid connection, the battery will be charged first.
- **Battery Protection (Invisible)**. The hidden capacity is 3% and will not be displayed on the IOT screen or mobile app.

STRATEGIES



Scheduled Mode

1 Time range switching

Categorized into weekdays and weekends based on user habits.

2 Charge/discharge time setting

Charging (left bar chart) or battery discharge (right bar chart) is allowed within 24 hours on weekdays or weekends. The length of the bar chart represents the applicable range of charge and discharge, and the color corresponds to the range of charge. If not charging or discharging, the bar chart will not be displayed.

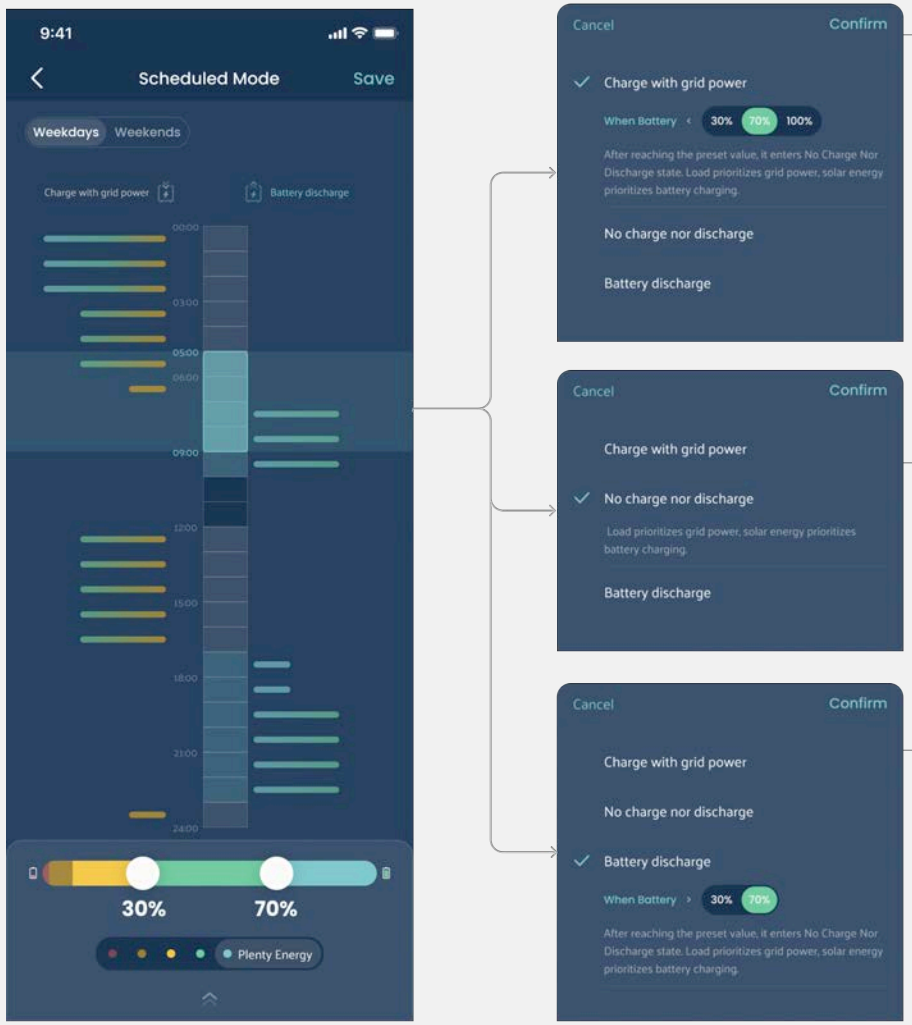
3 Battery threshold node setting

You can set the nodes smart reserve in green and plenty energy in blue.

4 Battery interval description

Five color strategies for electricity price tracking. Drag the bottom arrow for detailed explanations.

STRATEGIES



Charge with Grid Power

Users can choose to allow charge from the grid when the battery is lower than Plenty Energy / Smart Reserve / Emergency Reserve.

After reaching the preset value, it enters No Charge Nor Discharge state.

Load prioritizes grid power, solar energy prioritizes battery charging.

No Charge nor Discharge

Load prioritizes grid power, solar energy prioritizes battery charging.

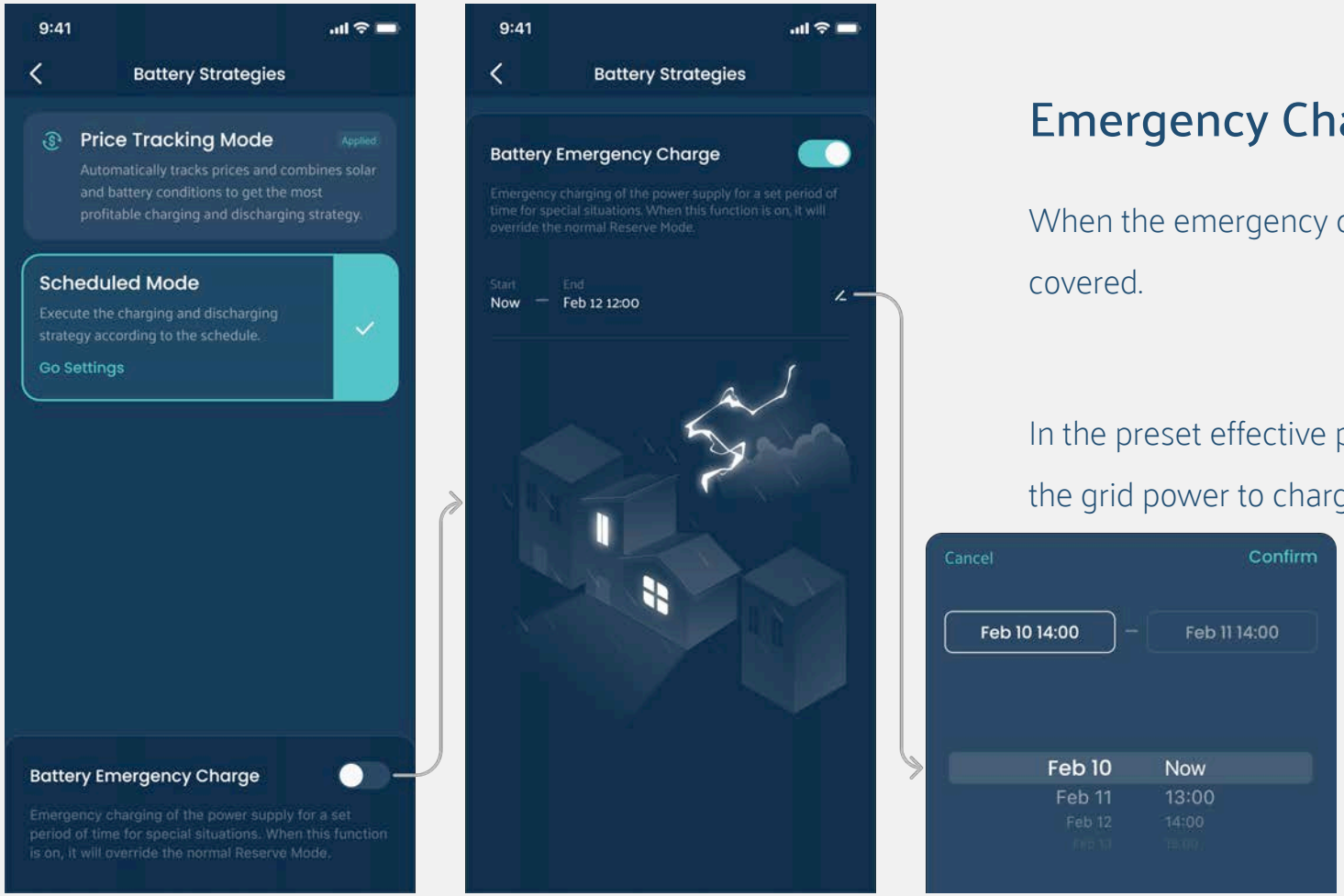
Battery Discharge

Users can choose to allow discharge only when the battery is larger than the Smart Reserve / Emergency Reserve.

After reaching the preset value, it enters No Charge Nor Discharge state.

Load prioritizes grid power, solar energy prioritizes battery charging.

IMPACTS & STRATEGIES

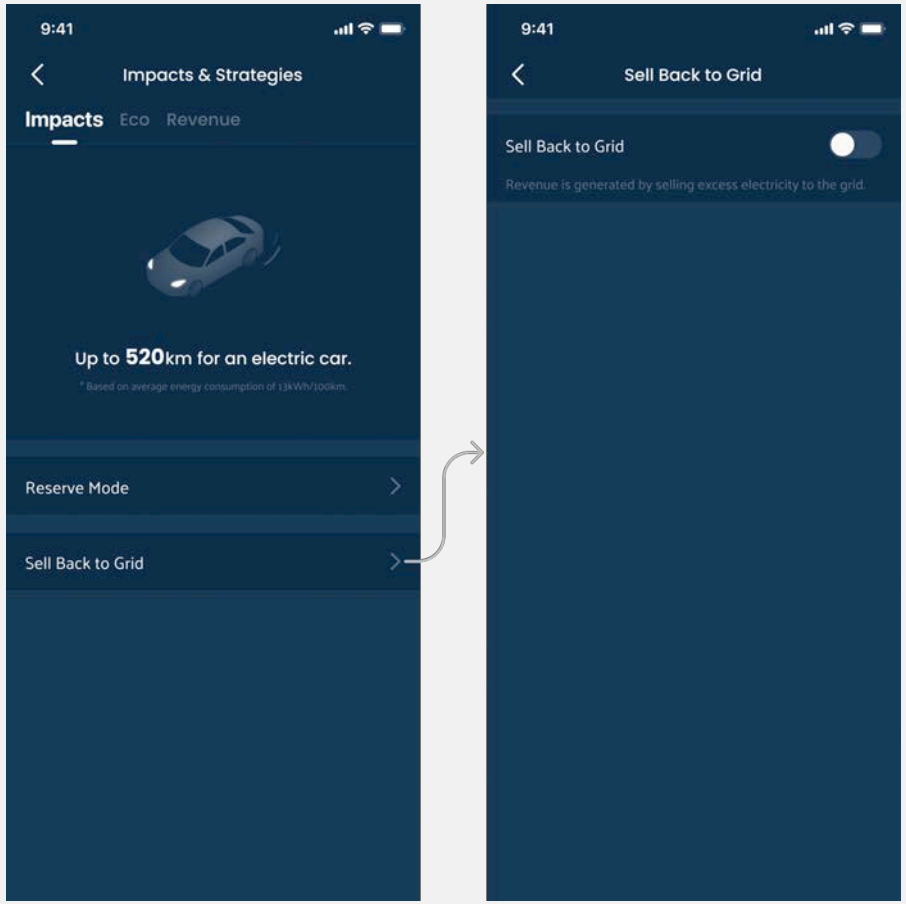


Emergency Charge Mode

When the emergency charge mode is turned on, the daily mode will be covered.

In the preset effective period, the system will ignore the electricity price and use the grid power to charge to maintain sufficient energy reserves.

SELLING BACK TO GRID

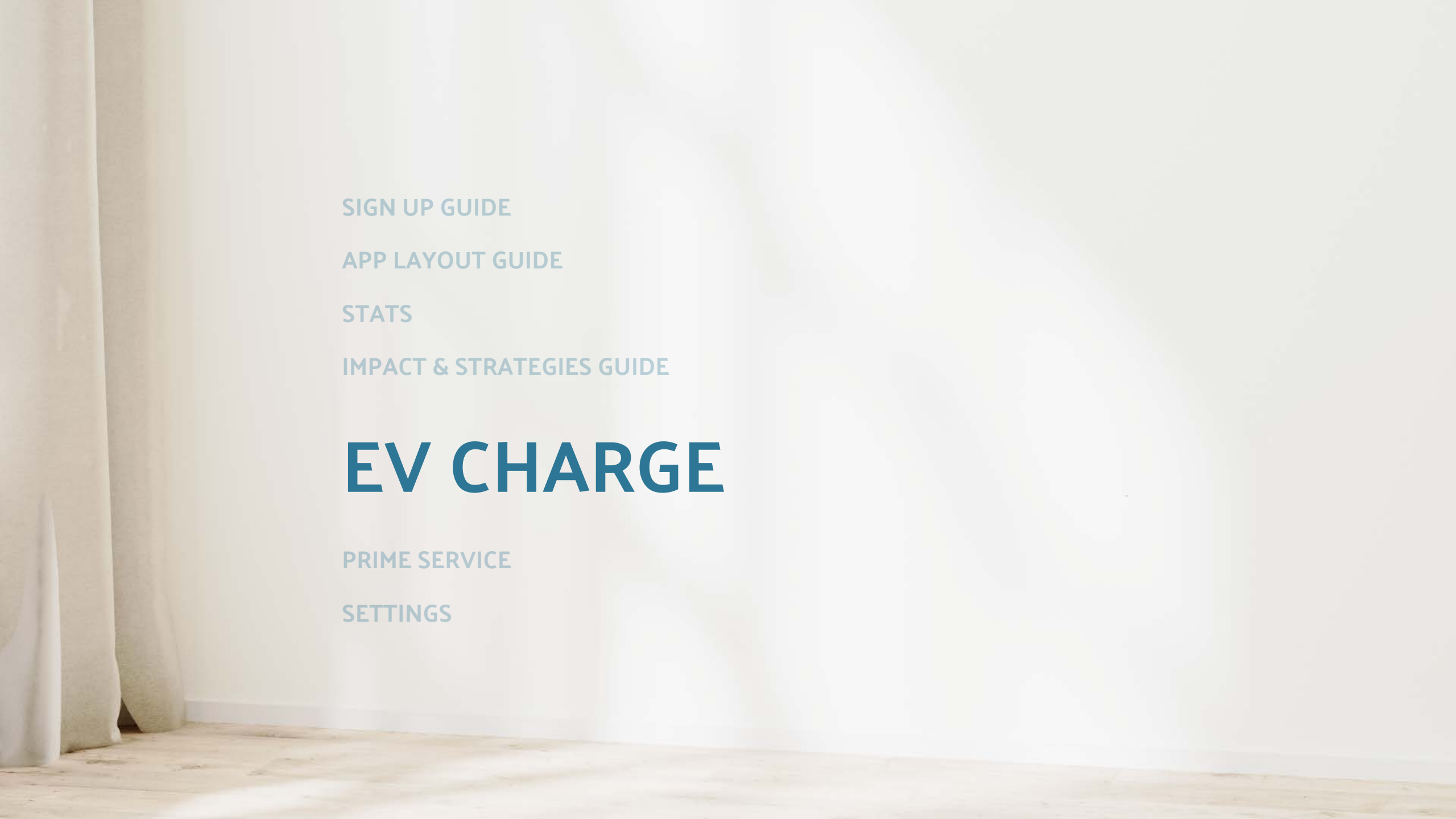


Start Selling Electricity

The following conditions shall be met for selling back to grid:

- The Grid Port of the cabinet has been connected.
- The user has signed an electricity selling agreement with the provider, with a two-way meter installed .

After this switch is turned on, the system will decide whether to sell electricity power to the grid according to the household energy supply and demand and the advanced Strategies.



SIGN UP GUIDE

APP LAYOUT GUIDE

STATS

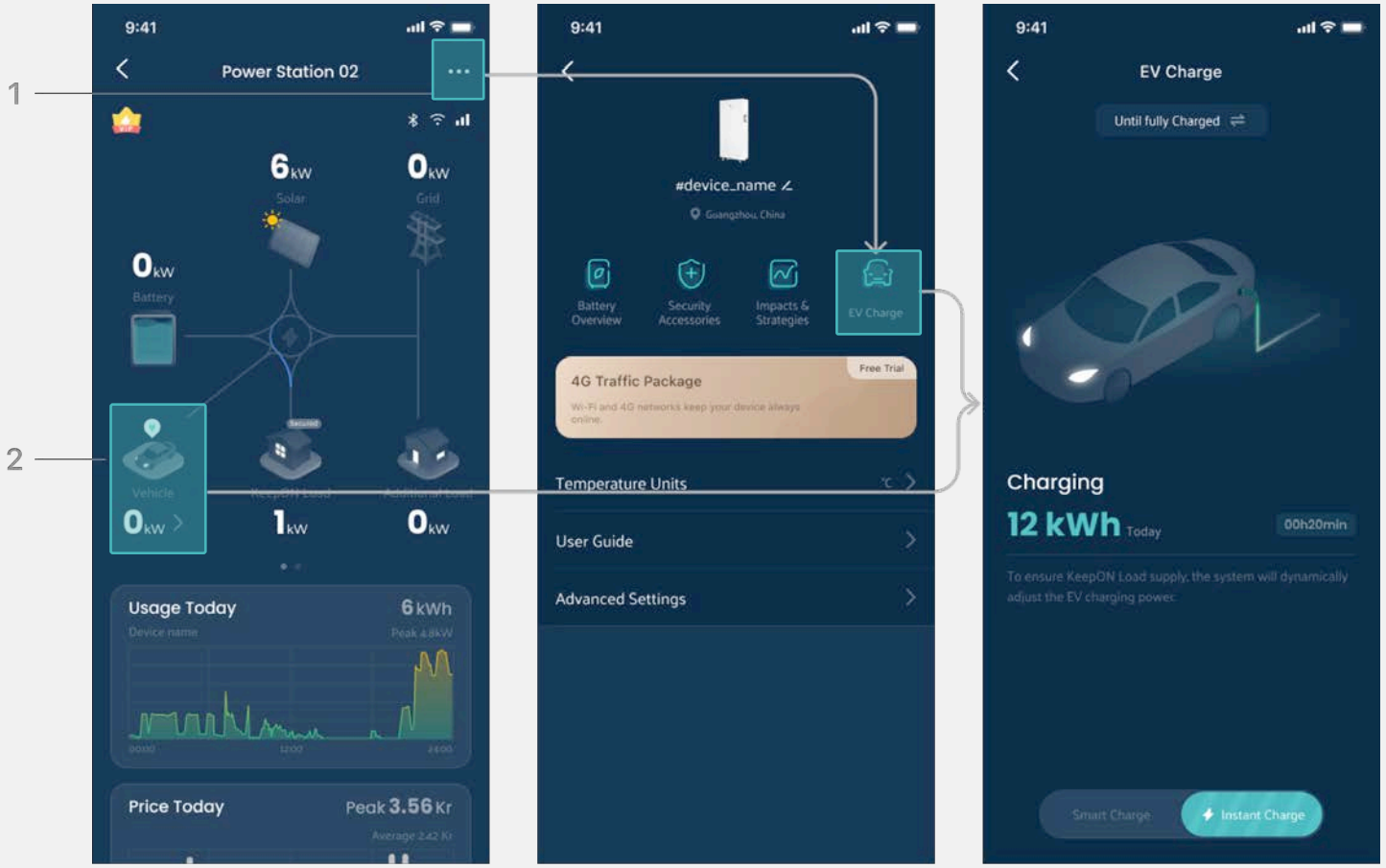
IMPACT & STRATEGIES GUIDE

EV CHARGE

PRIME SERVICE

SETTINGS

NAVIGATE TO EV SETTINGS



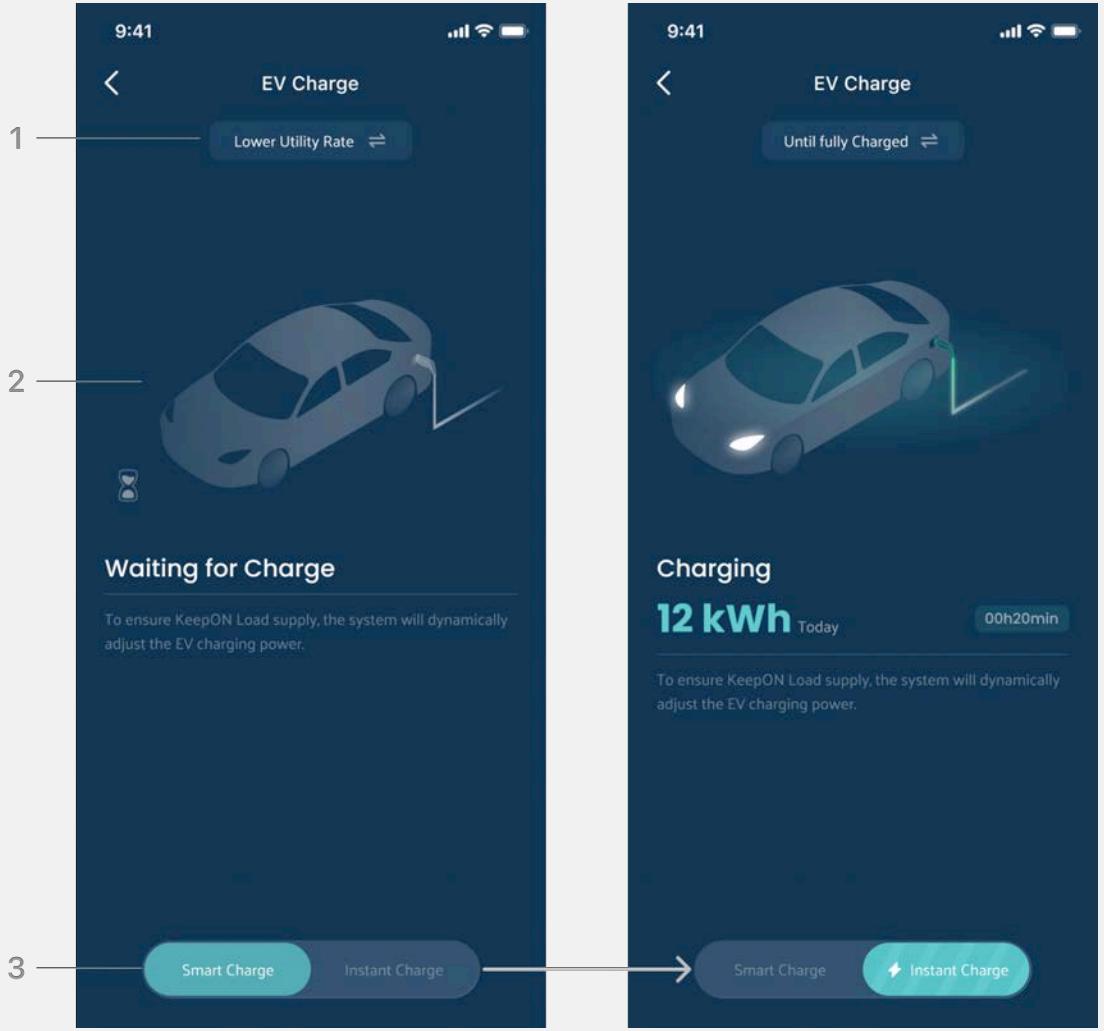
1

Tapping the EV icon in the main page to enter the EV setting.

2

Also, you can tap the ··· in the upper right corner of the Main page and tap the EV charge icon to enter the EV setting.

EV CHARGE



1 **More charging modes**

Tap to switch to more charging modes.

2 **Current EV status**

Users can see the current EV status, including charging, not charging, EV abnormal, and other states.

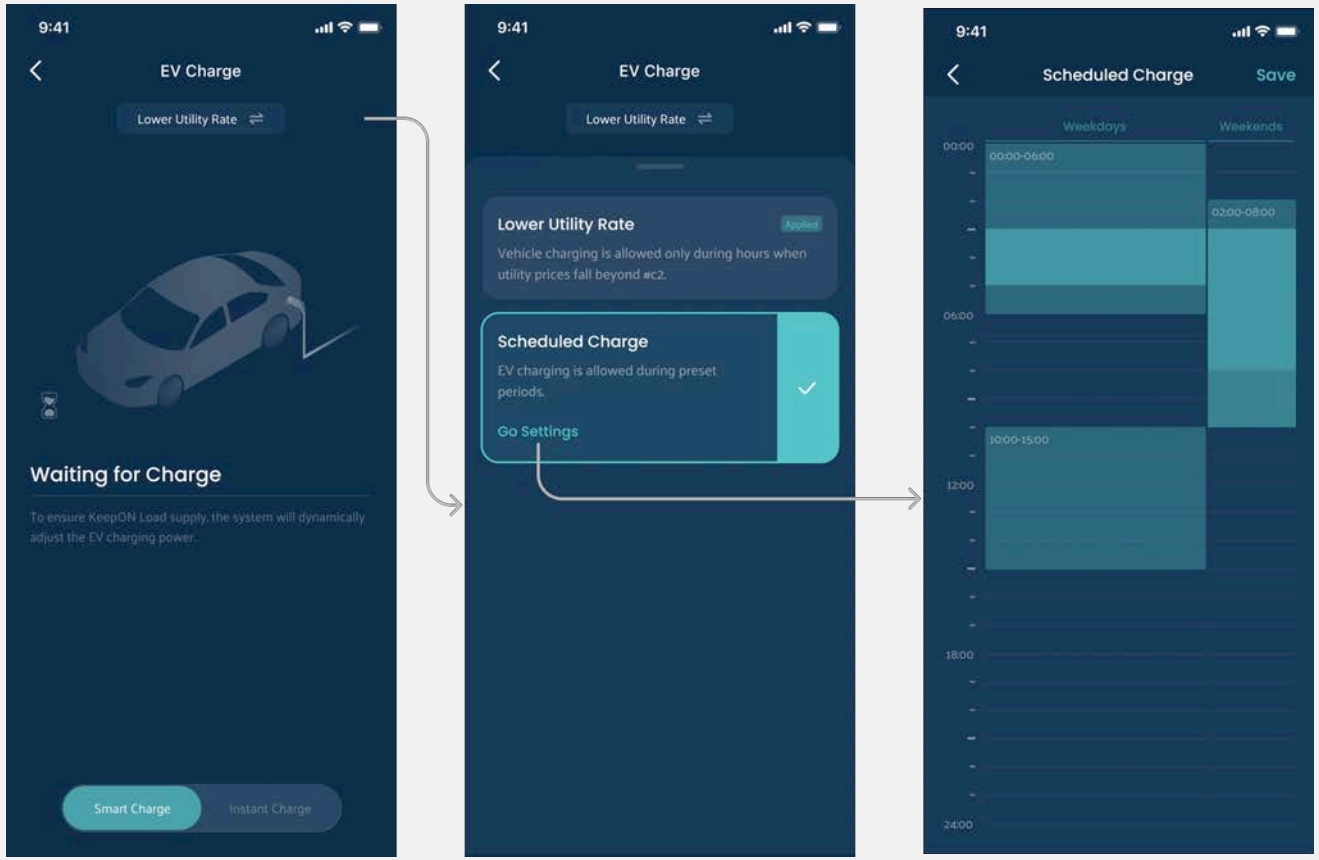
3 **EV charging modes**

Sliding or tap the bottom slider enables instant charging.

To ensure keepON supply, the system will dynamically adjust the EV charge power. Basic adjustment method:

- On Grid: EV charge power = 21.6kW * 90% - keepON_load
- Off Grid: EV charge power = 10.8kW * 90% - keepON_load

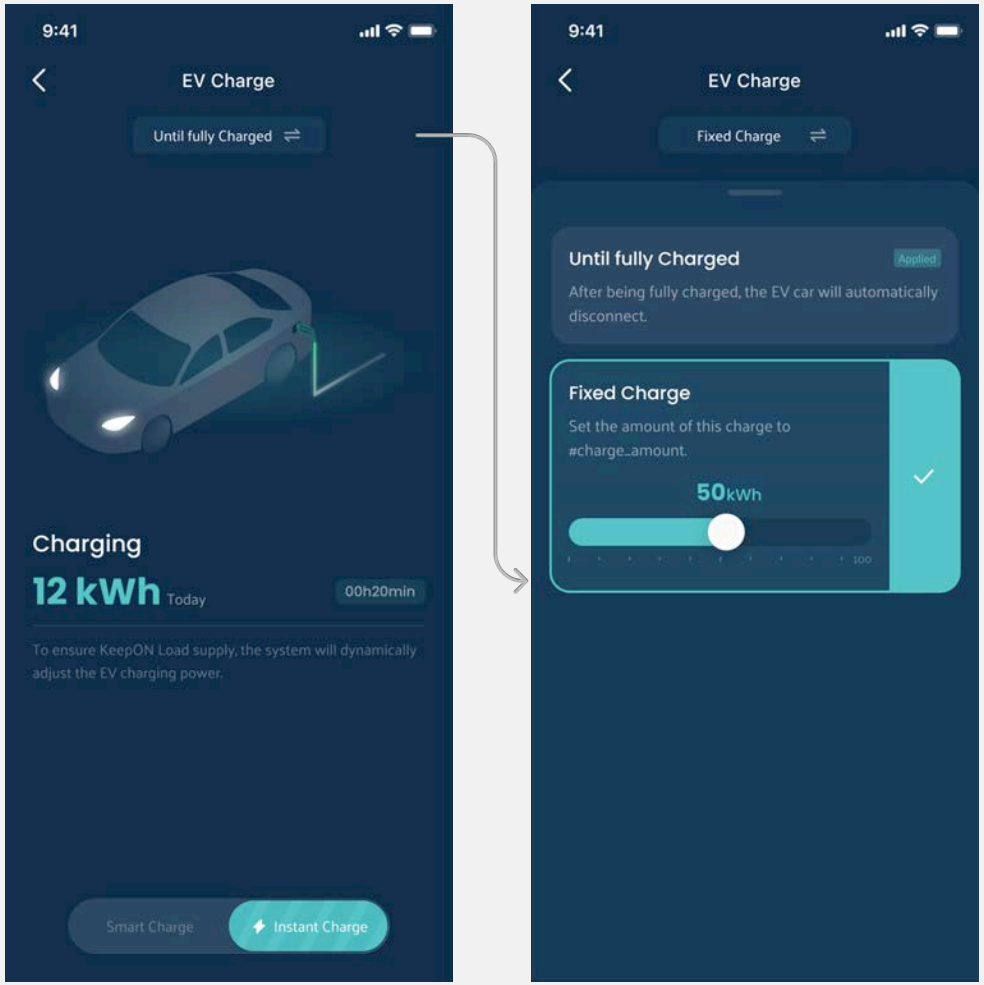
EV CHARGE



Smart Charge

- **Lower Utility Rate**: EV charging is allowed when the electricity price based on today's average price falls by more than 20% (the price threshold can be periodically adjusted in the backend).
- **Scheduled Charge**: EV charging is allowed only for a preset time.

EV CHARGE

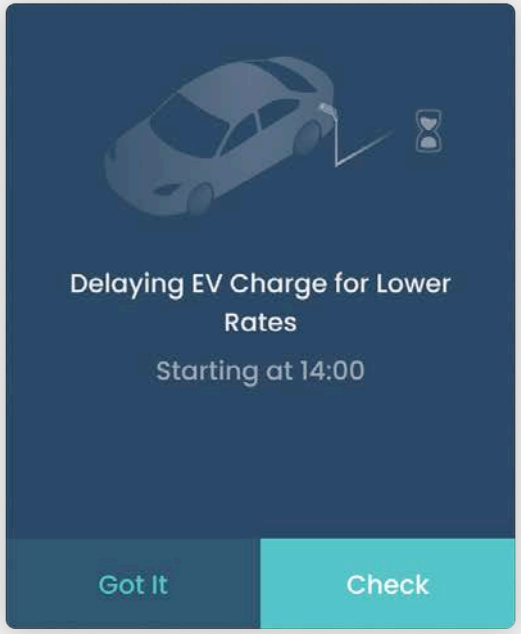


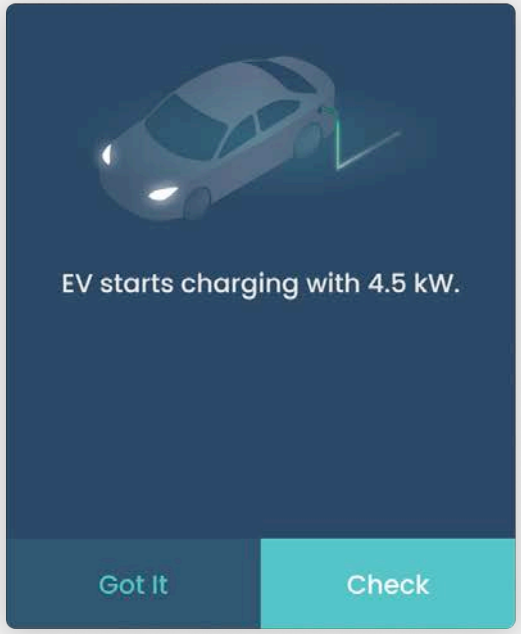
Instant Charge

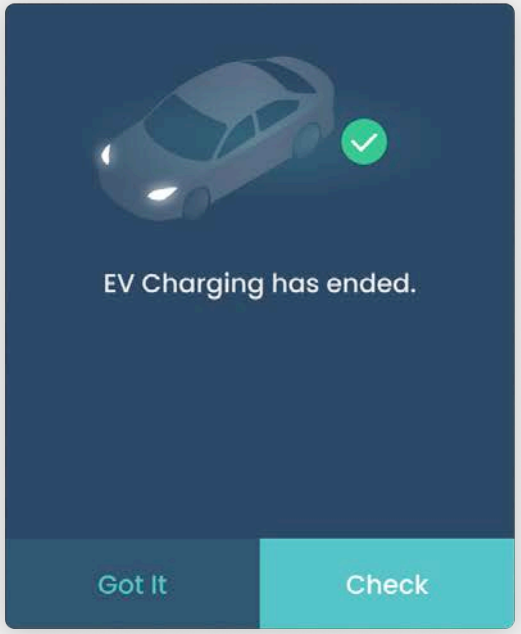
- Until Fully Charged.
- Fixed Charge: The amount of charge can be preset to be between 0 and 100 kWh for this charging session.

EV CHARGE

emaldo

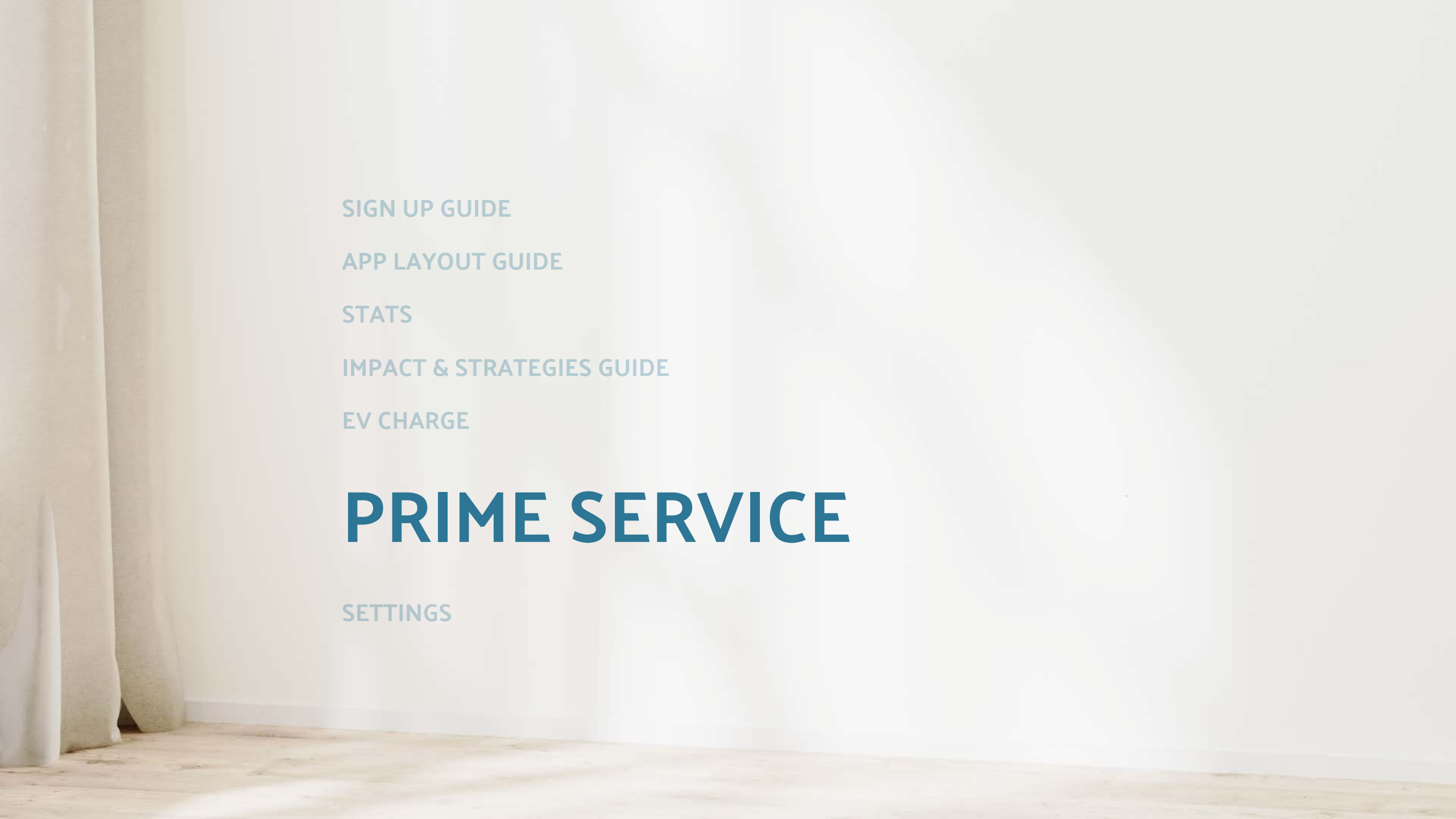






Charging Status Reminder and Prediction

The status of start or end of EV car charging will be pushed to the user's mobile phone, and the charging amount or time can be predicted based on the currently selected charging mode.



SIGN UP GUIDE

APP LAYOUT GUIDE

STATS

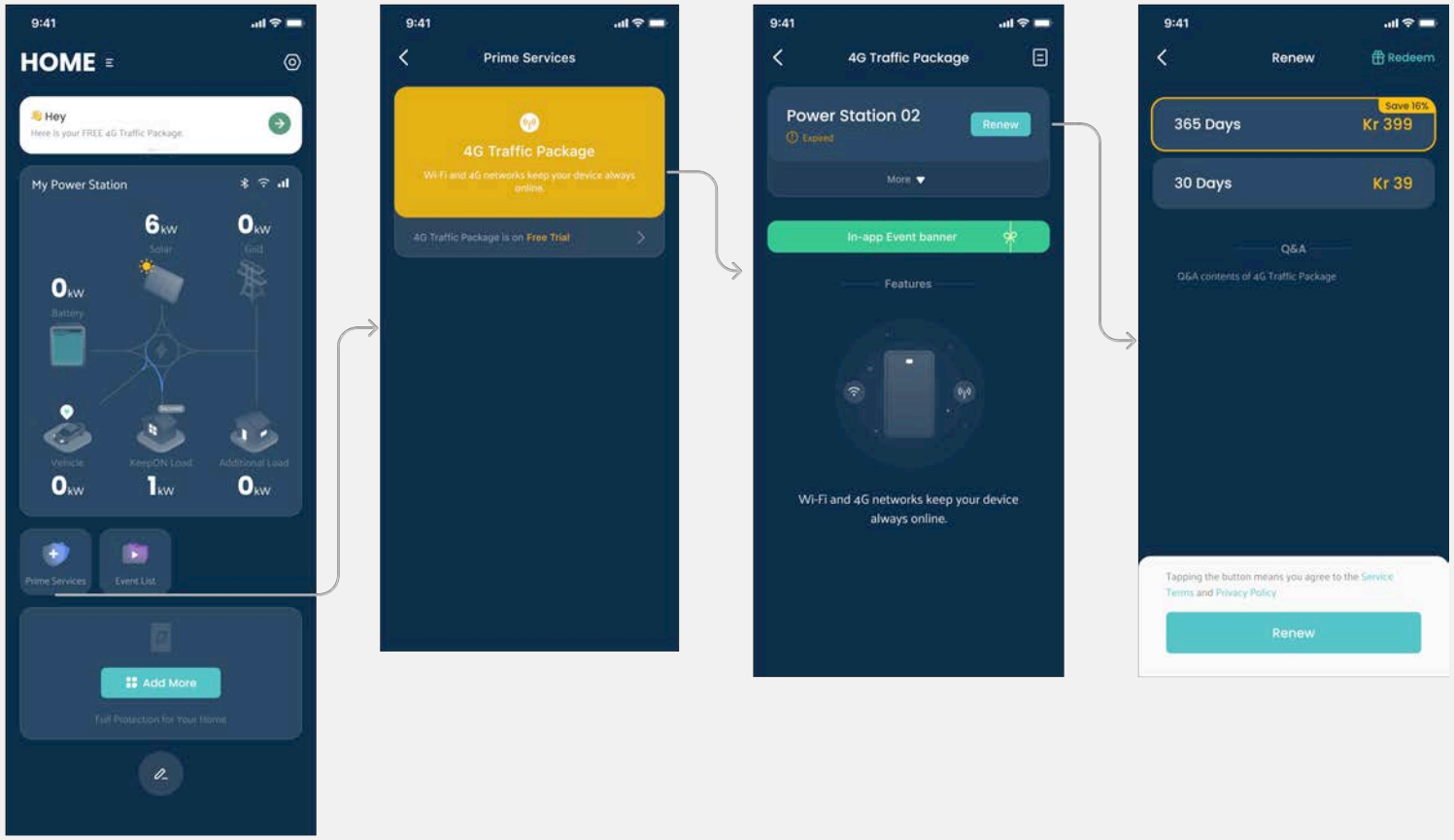
IMPACT & STRATEGIES GUIDE

EV CHARGE

PRIME SERVICE

SETTINGS

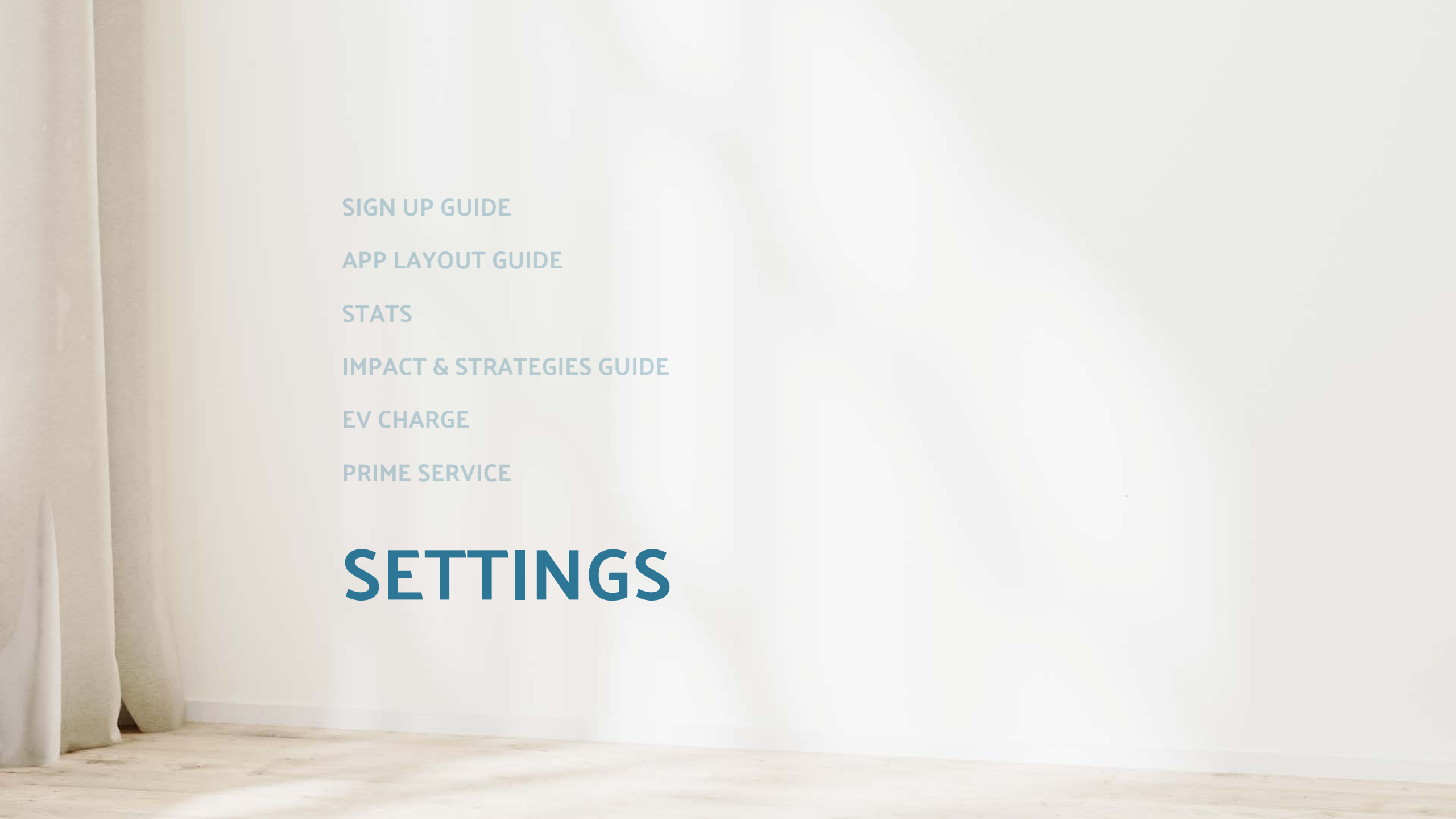
PRIME SERVICE



if your wifi service isn't strong enough then you can active 4G service.

Package Content

- 24/7 4G Backup
- 4G Internet access function



SIGN UP GUIDE

APP LAYOUT GUIDE

STATS

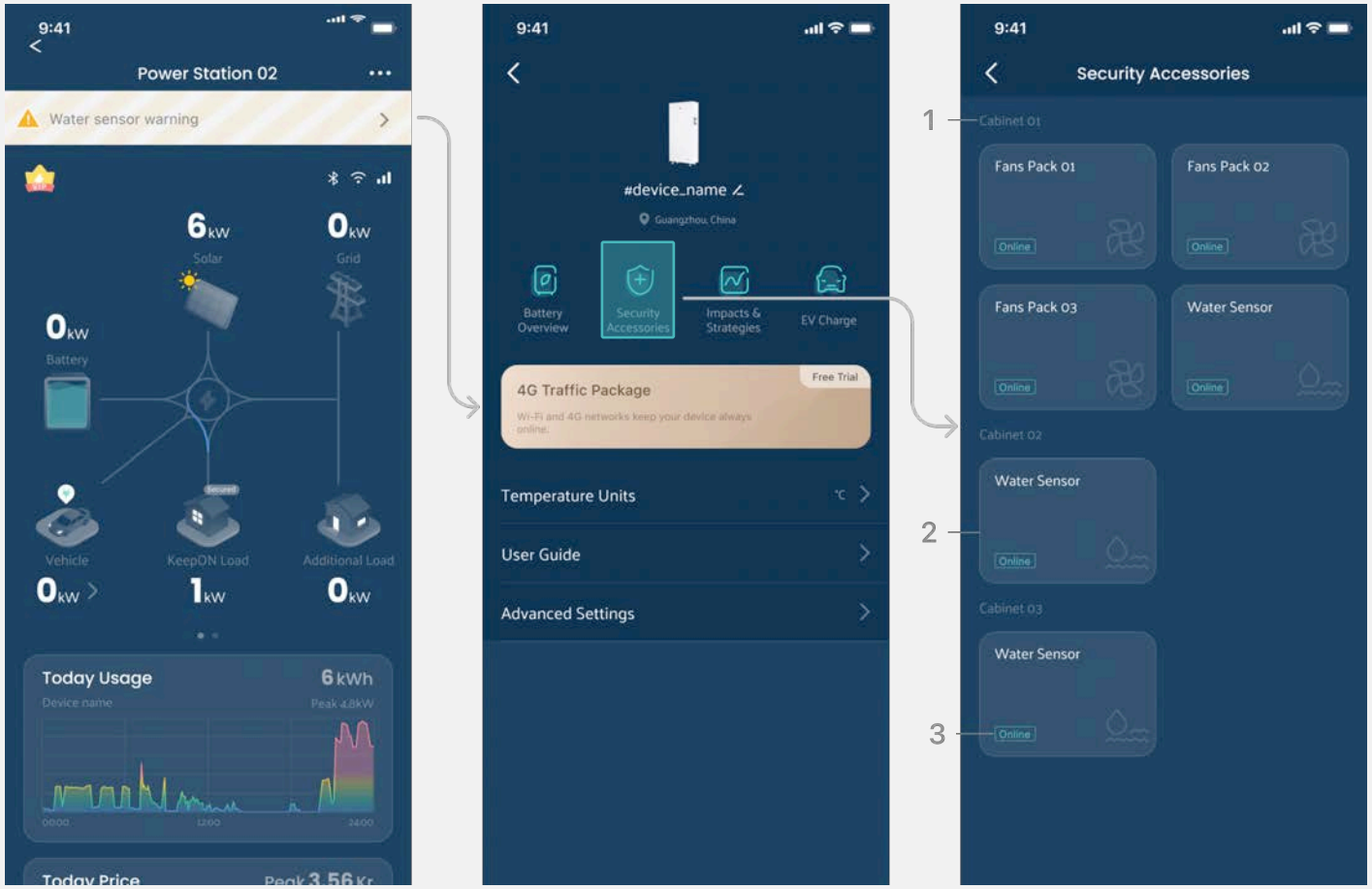
IMPACT & STRATEGIES GUIDE

EV CHARGE

PRIME SERVICE

SETTINGS

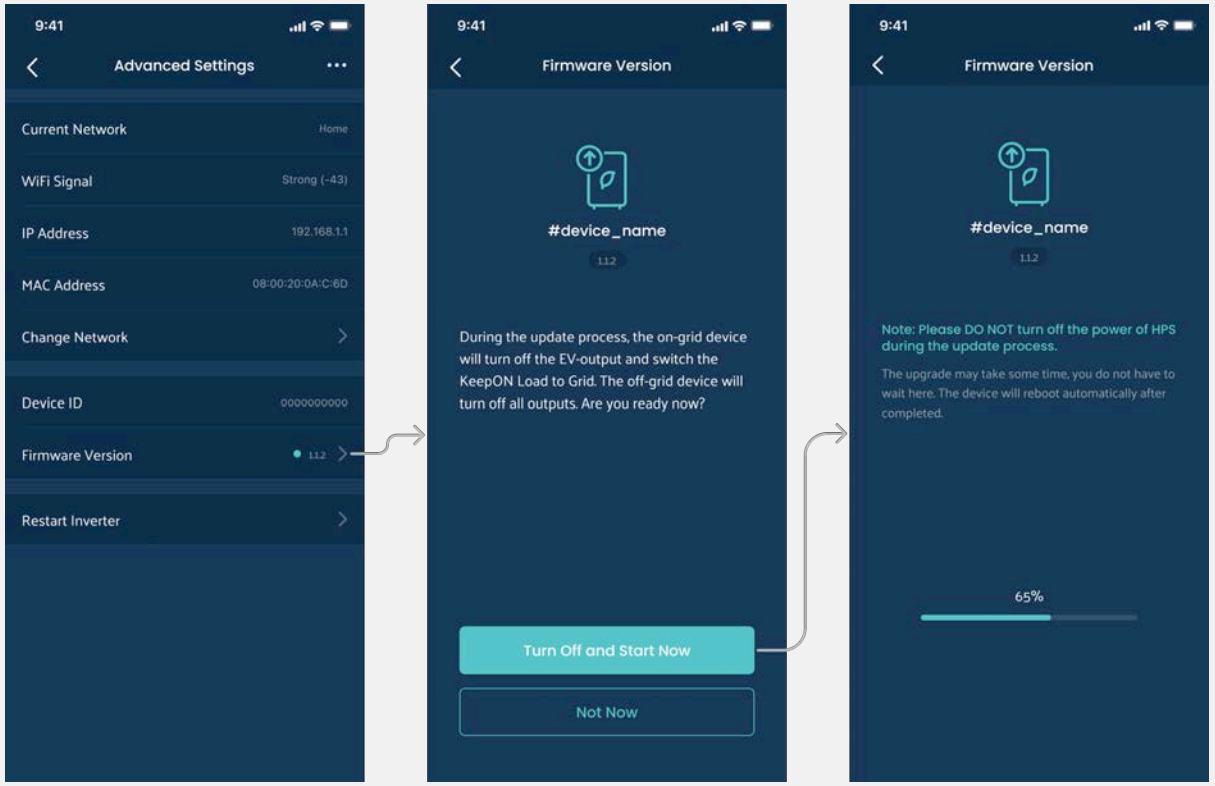
DEVICE SETTINGS



1. Cabinet number
2. Accessory Status
3. Accessory Name

Tap on the right side of the Device Main-page navigation bar ••• , You can enter the battery Settings page, as shown in the figure. You can also view the status of safety accessories, including fans and water sensors.

FIRMWARE UPGRADE



Users will receive push message when firmware update is released on the cloud. Tapping the update message or enter 'Advanced Settings' - 'Firmware Version', Access to the upgrade screen.

Before the firmware upgrade, the device will switch off all load outputs (in the case of grid-connected devices, the load can be automatically switched to the grid supply) and the power cannot be switched off during the upgrade.

Conditions for starting the upgrade: The battery level is above 15% and at least one of the following conditions is met

- There is a PV input
- There is a utility input
- The number of battery packs is more than 1