

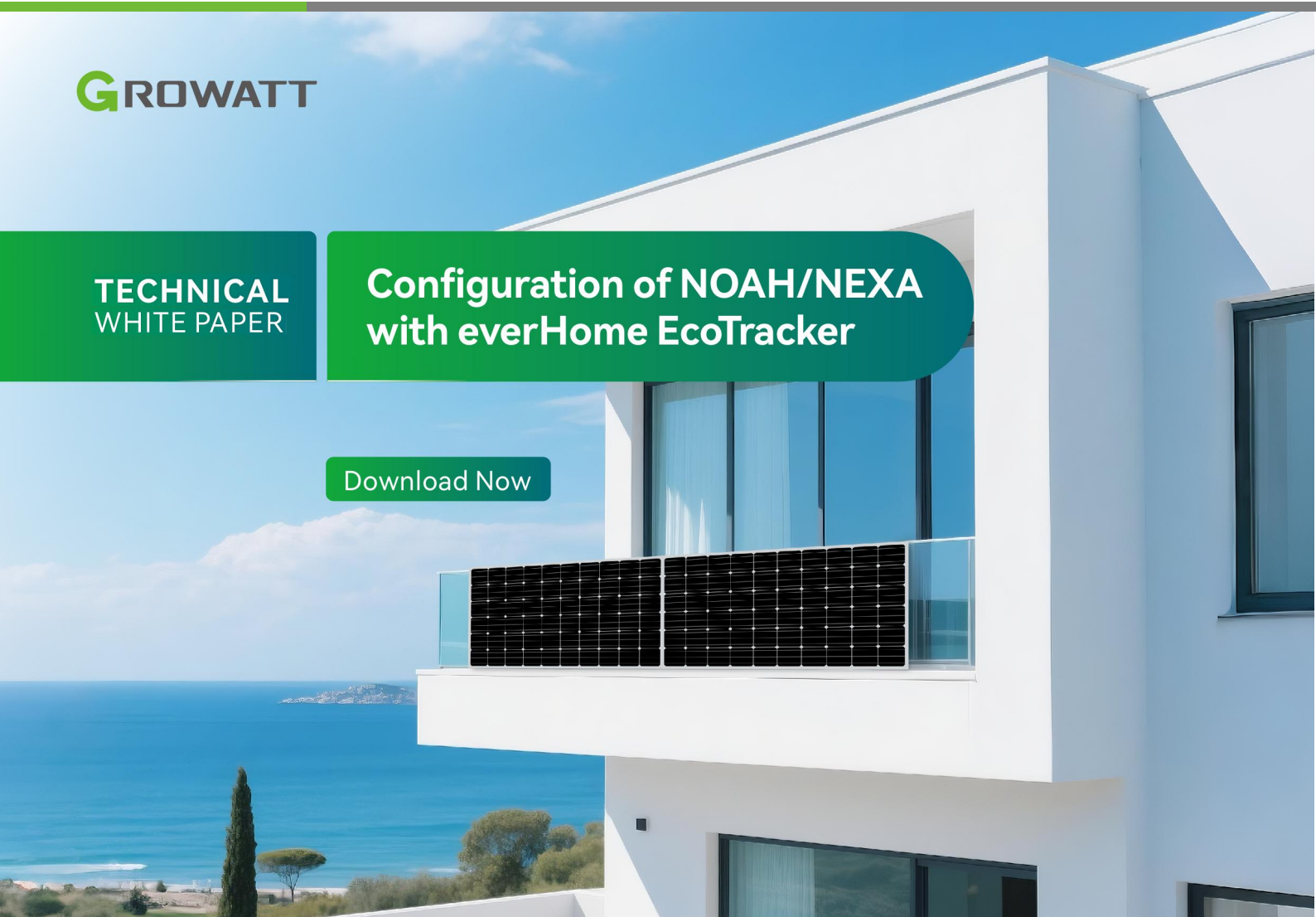
Configuration of NOAH/NEXA with everHome EcoTracker

Growatt's balcony energy storage solution offers excellent integration with leading energy monitoring devices—including the Shelly smart meter, Eastron SEM5-1, and everHome EcoTracker—in a local configuration. By connecting to these devices, the balcony energy storage system can access real-time energy data without relying on cloud-based communication. This local setup ensures faster and more reliable data transmission. Meanwhile, with these real-time data, the balcony energy storage system can achieve self-consumption, maximizing solar energy utilization and lowering energy costs.

**TECHNICAL
WHITE PAPER**

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with everHome EcoTracker**

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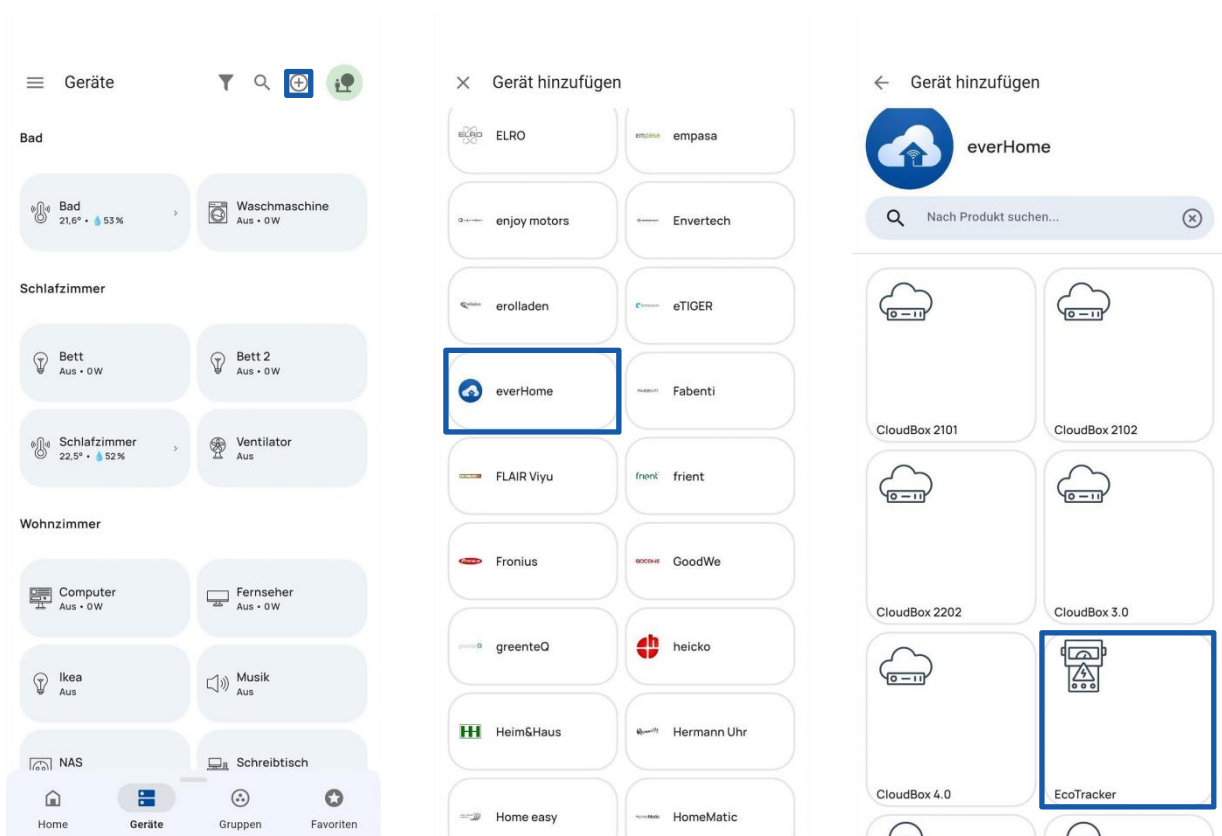


This whitepaper will focus on how the Growatt NOAH 2000/NEXA 2000 balcony energy storage devices achieve local compatibility with everHome EcoTracker, which can be attached magnetically to a home's existing smart meter to collect energy data and eliminate the need for customers to purchase or install an additional meter.

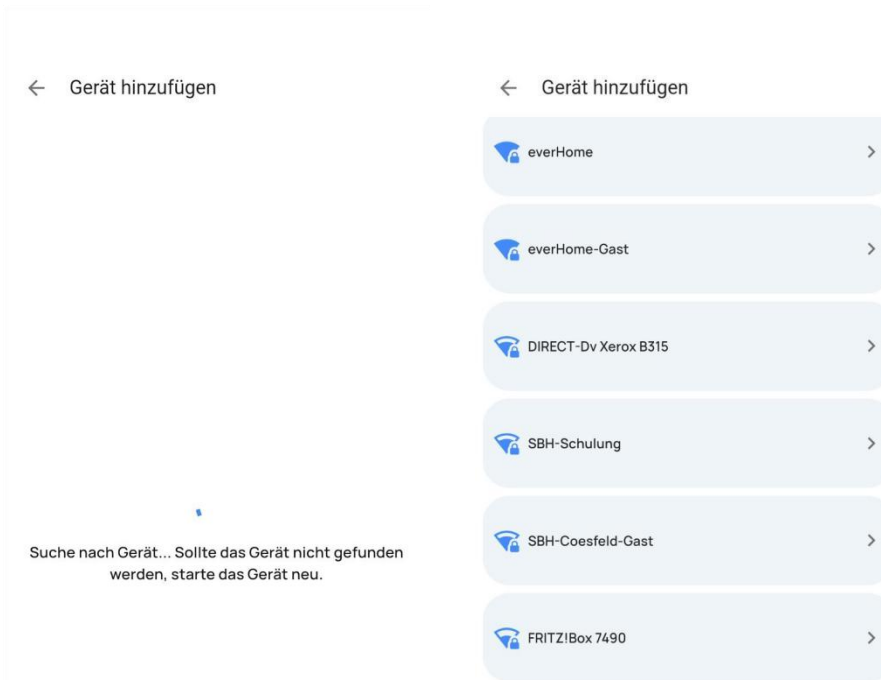
The balcony energy storage device discovers the everHome service on the local network by sending mDNS query, and EcoTracker will respond to that mDNS broadcast. Once discovered, the energy storage device will establish a connection with the EcoTracker, then send a GET request, and receive the smart meter data.

This local communication protocol is ideal for smart home and IoT applications requiring fast data exchange, while maintaining simplicity and cost-efficiency.

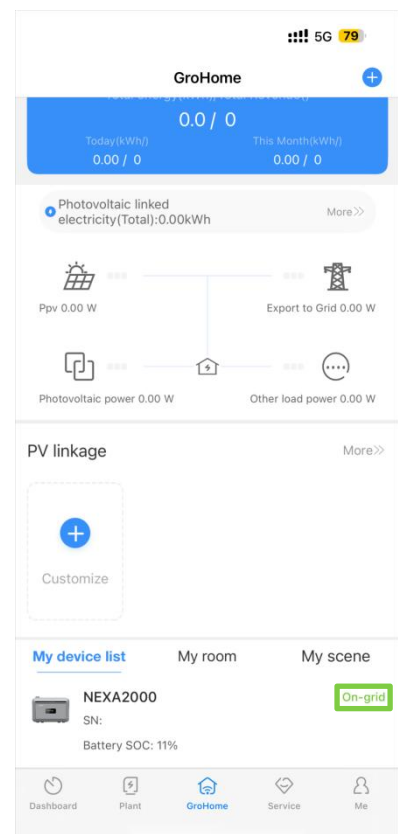
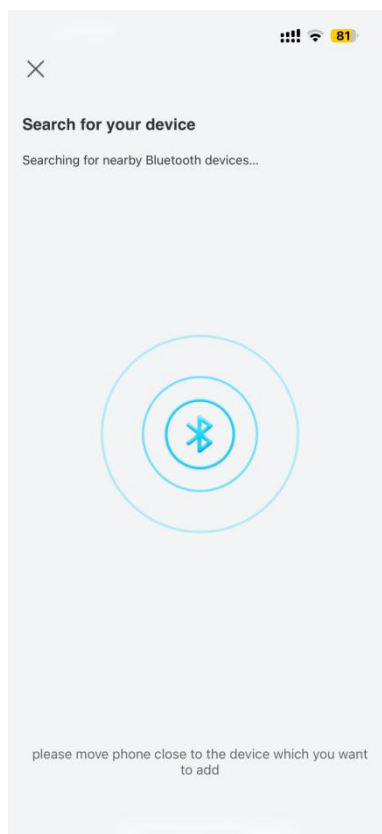
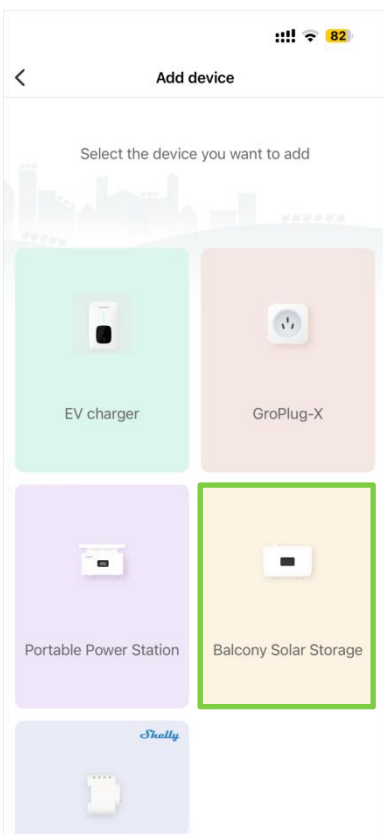
Step 1: Open the everHome APP and configure the network for EcoTracker



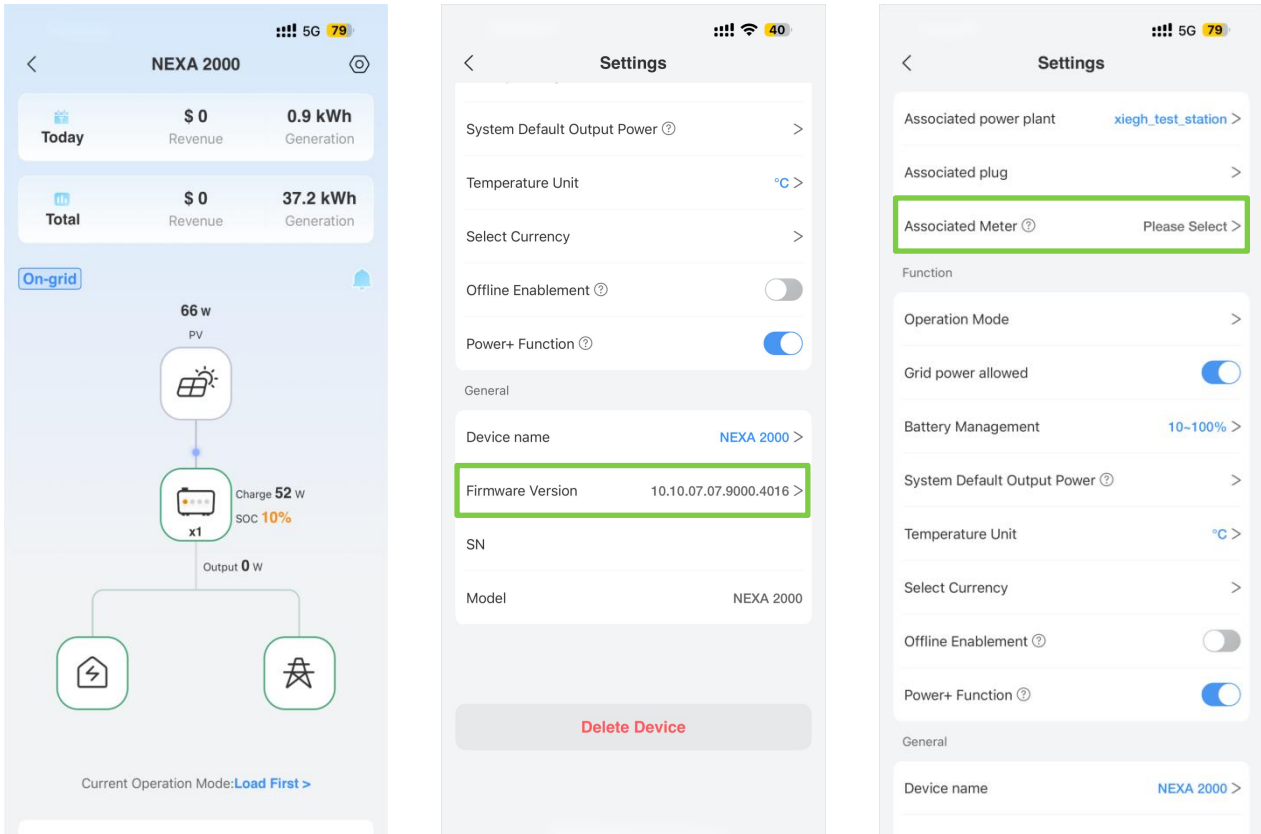
Please make sure that EcoTracker is connected to the same network that NOAH/NEXA will be connected to later.



Step 2: Open the ShinePhone APP and configure the network for NOAH 2000/NEXA 2000

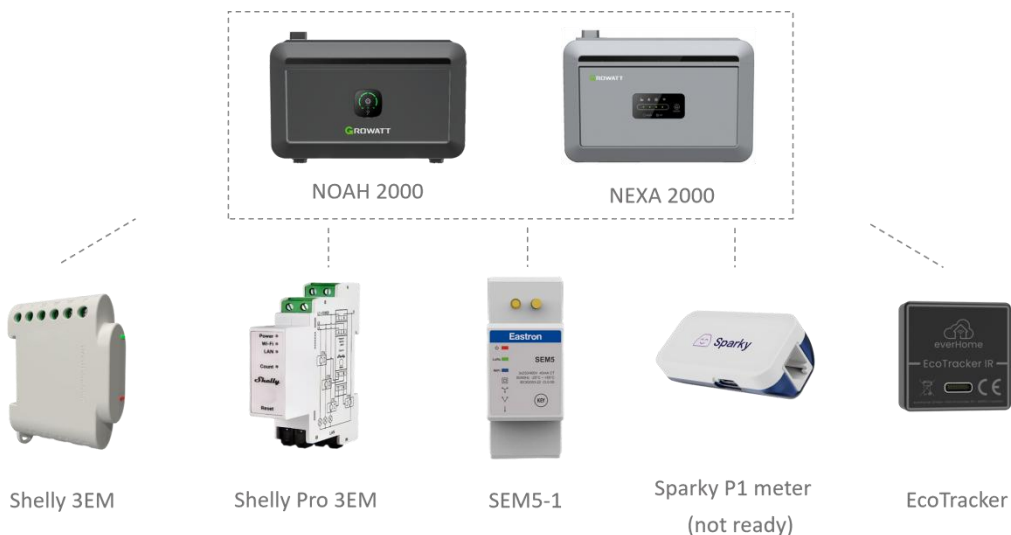


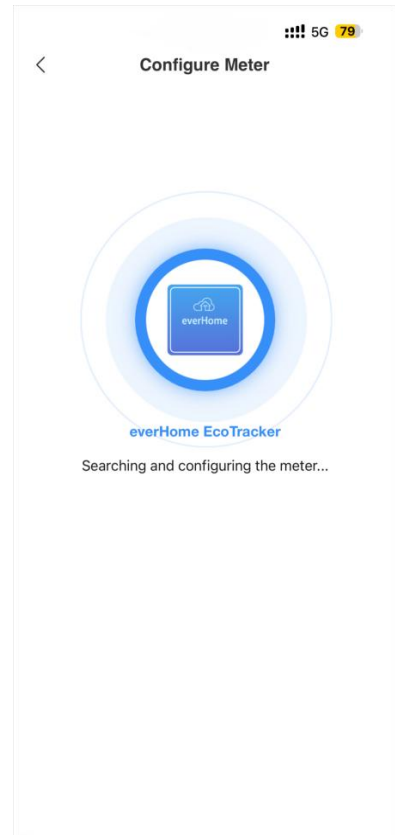
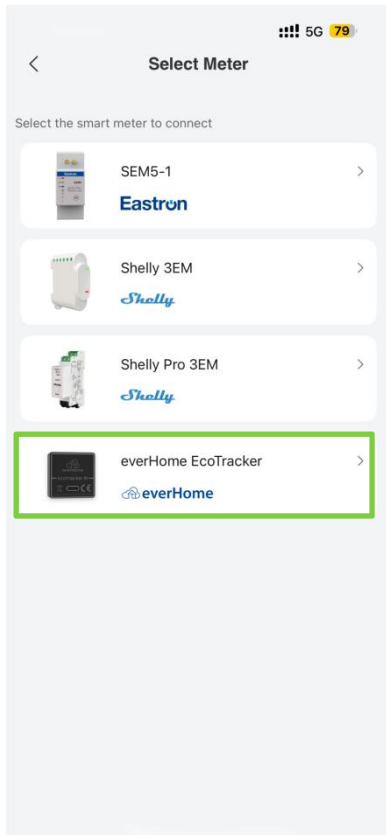
Step 3: Click the device and enter the setting interface.



Please make sure the firmware version is **4016** before proceeding to configure the meter locally!
If not, please contact our after-sales engineer for the upgrade.

Step 4: Configure the EcoTracker

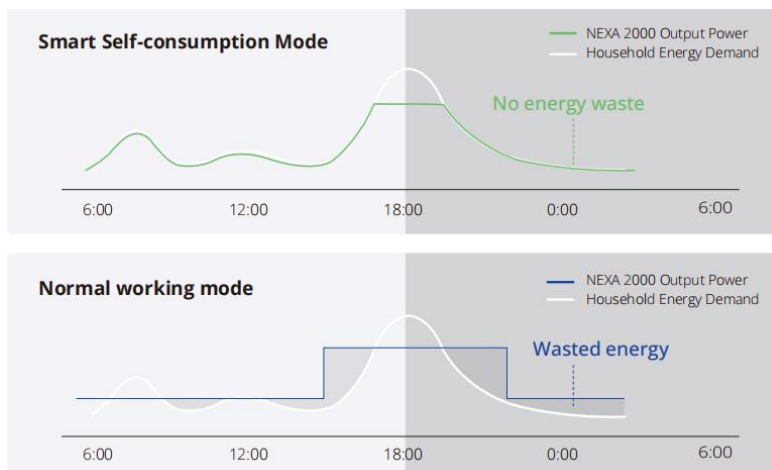




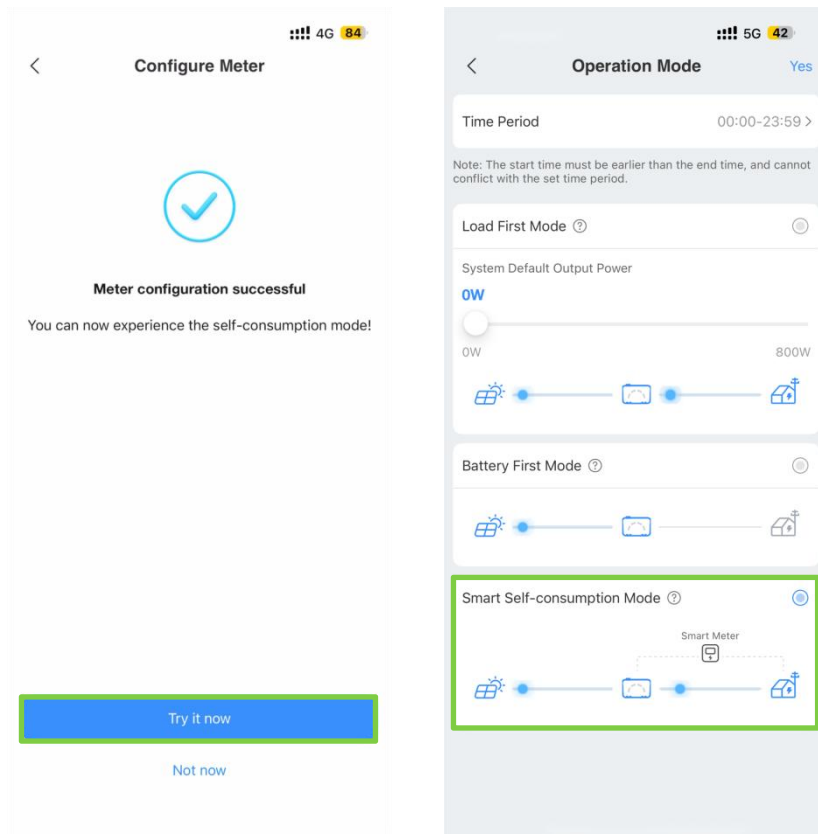
NOAH 2000 supports third-party meters including the Shelly 3EM, Shelly Pro 3EM, and everHome EcoTracker. NEXA 2000 also supports the SEM5-1.

Please follow the instructions of the APP step by step. If there are any hints of unsuccessful configuration, please check and modify them.

Step 5: Choose the Smart Self-consumption Mode

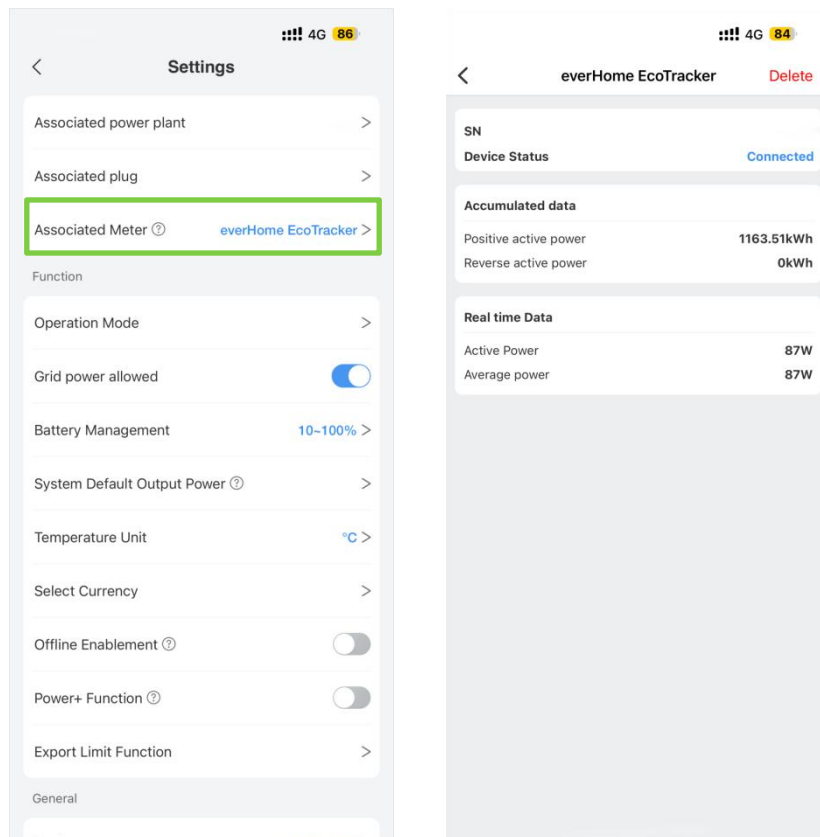


With data from smart meters, NEXA 2000 dynamically adjusts output power based on demand, ensuring efficient charging and discharging. Similarly, the NOAH 2000 features demand-responsive charge/discharge control. Both systems deliver enhanced energy management through intelligent power adjustment.



Step 6: Check the meter data and running state of NOAH/NEXA





Real-time data from the meter can also be viewed via OSS and ShineServer.

OSS: Balcony energy storage--Enter the SN--Check the meter information, the interface displays the associated meter SN, brand, and active power presented as a three-phase sum.

ShineServer: Dashboard--All device--Balcony Solar Storage--Smart meter data, the interface displays the associated meter SN, brand, and active power presented as a three-phase sum.