



Intelligent Dynamic Update

How to set the Intelligent Dynamic mode based on a tariff threshold?

January 2026

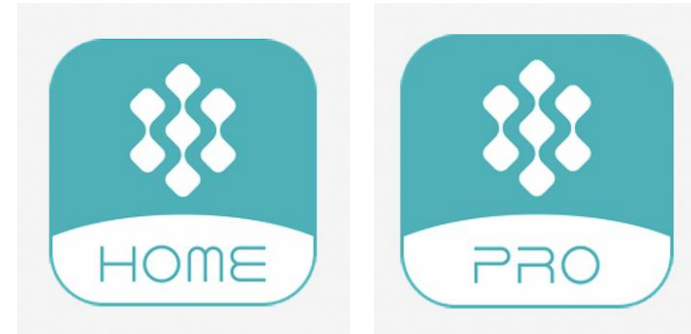
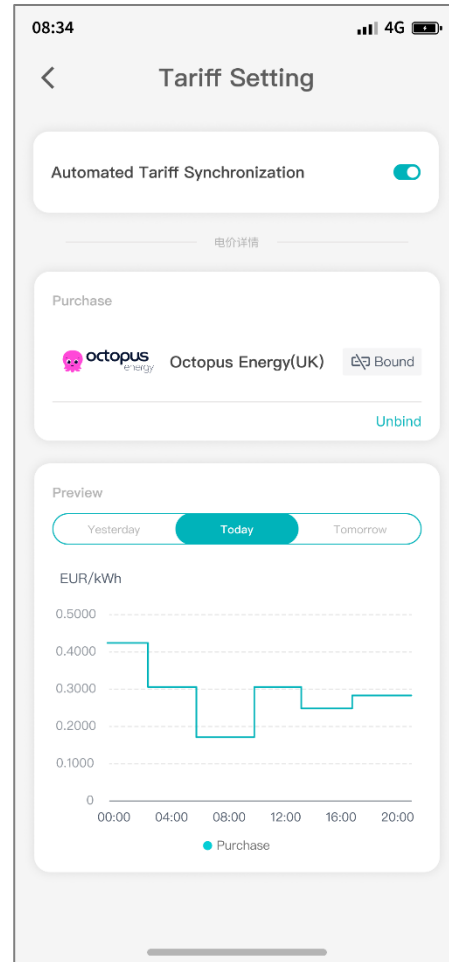
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01 Prerequisites

Prerequisites



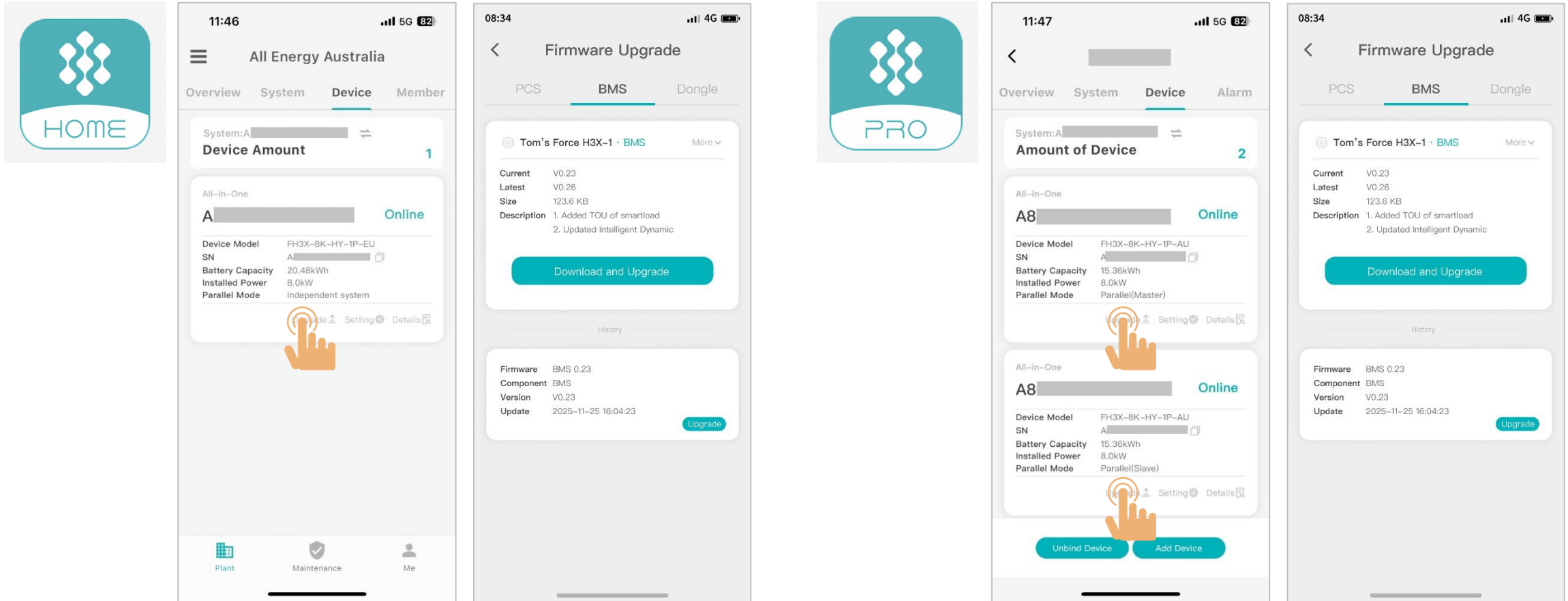
Intelligent Dynamic mode is designed to maximize benefits by optimizing energy scheduling in response to tariff changes. Currently, this mode is exclusively available with the **Force H3X** in Pylontech's solution.

To use this mode, please ensure the following prerequisites are met:

1. The version of your **APP** (Pylontech or PylontechPro) must be **V1.1.50 or higher**
2. The **BMS** version of your Force H3X must be **V0.26 or higher**
3. The electricity **tariff is set** at the selected plant.
4. The **tariff threshold is configured**. This enables the algorithm to implement distinct strategies for high, mid, and low tariff periods.

02 Firmware Version

Where to upgrade?



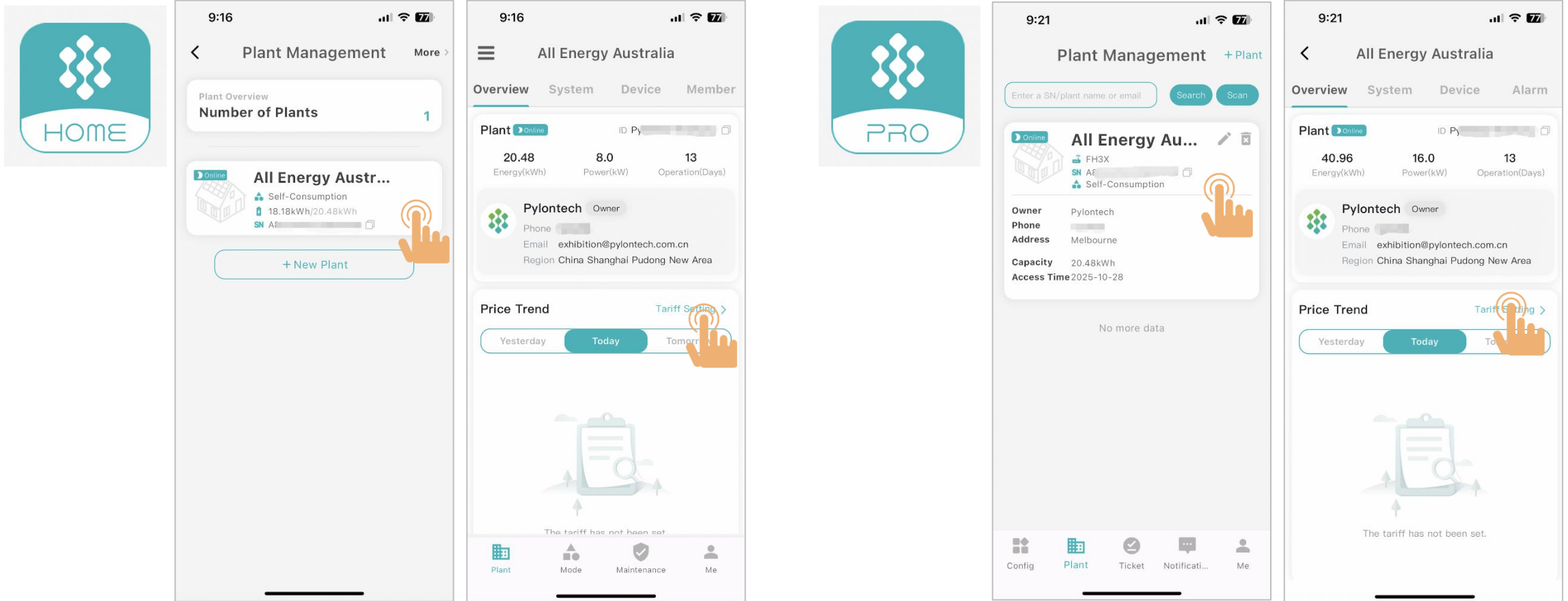
For both Pylontech (consumer facing) and Pylontech Pro (installer/distributor facing), navigate to **Plant -> Device -> Upgrade** to check your current BMS version.

The Intelligent Dynamic mode requires **BMS version must be V0.26 or higher**. If your Force H3X is on an older version, please upgrade it to the latest BMS version to enable this feature.

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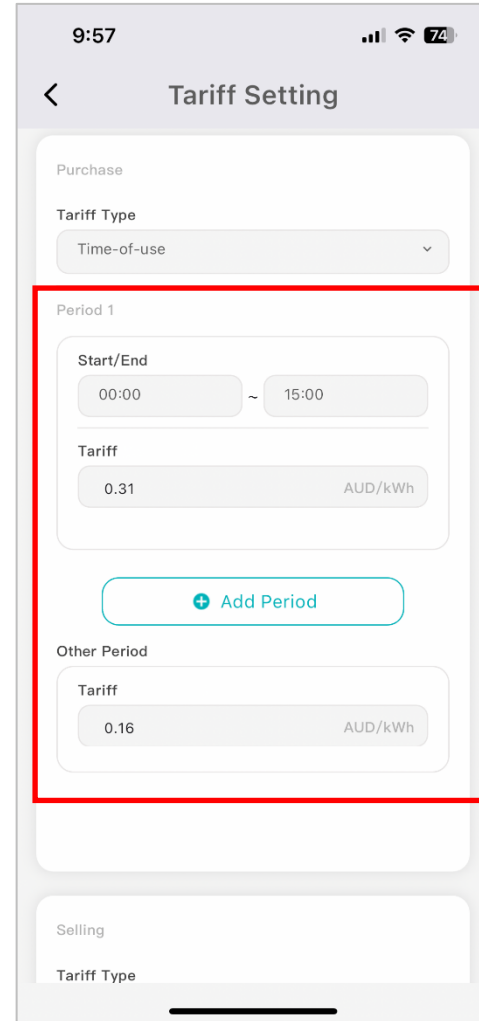
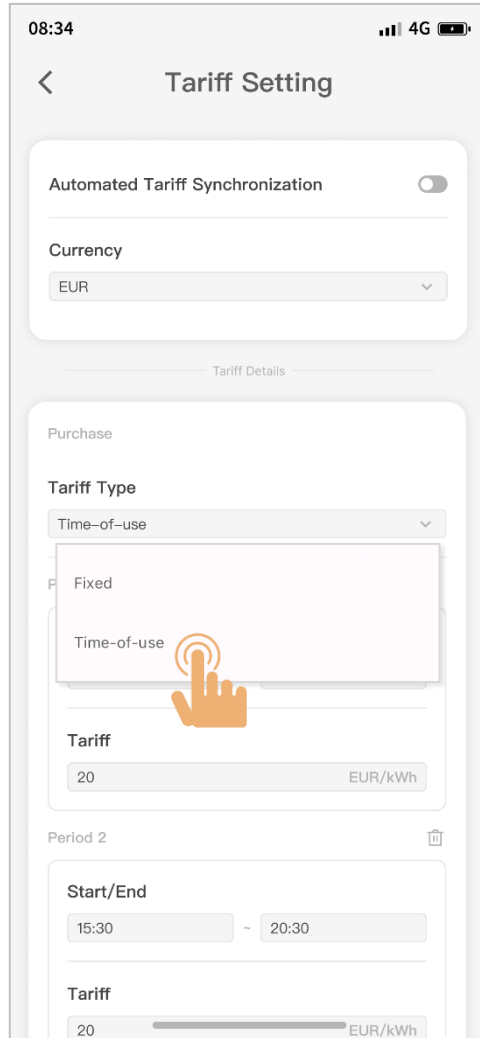
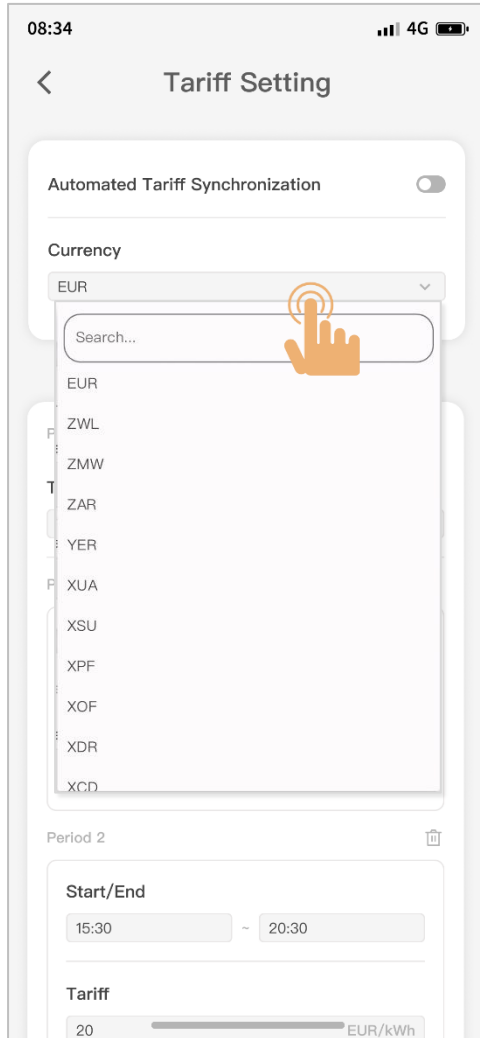
Acquiring Tariff Data

Tariff Setting



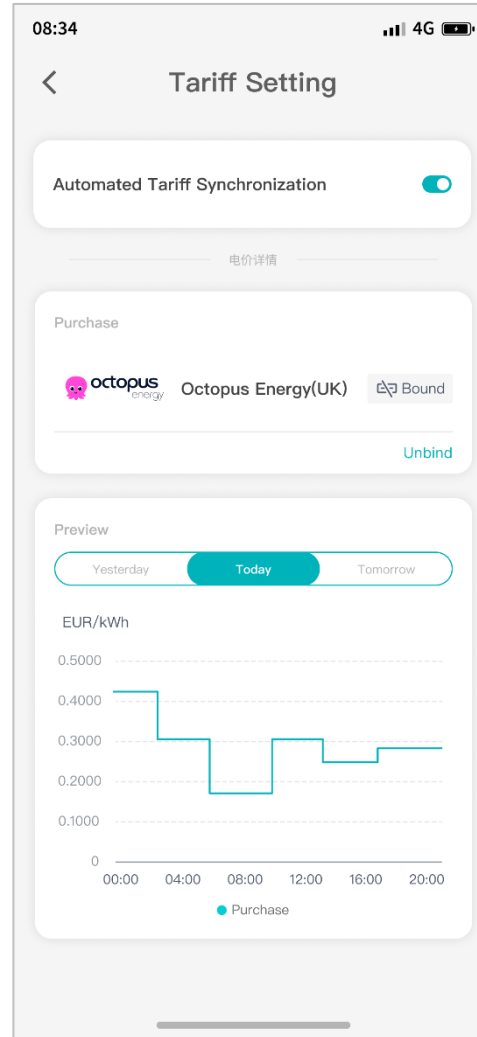
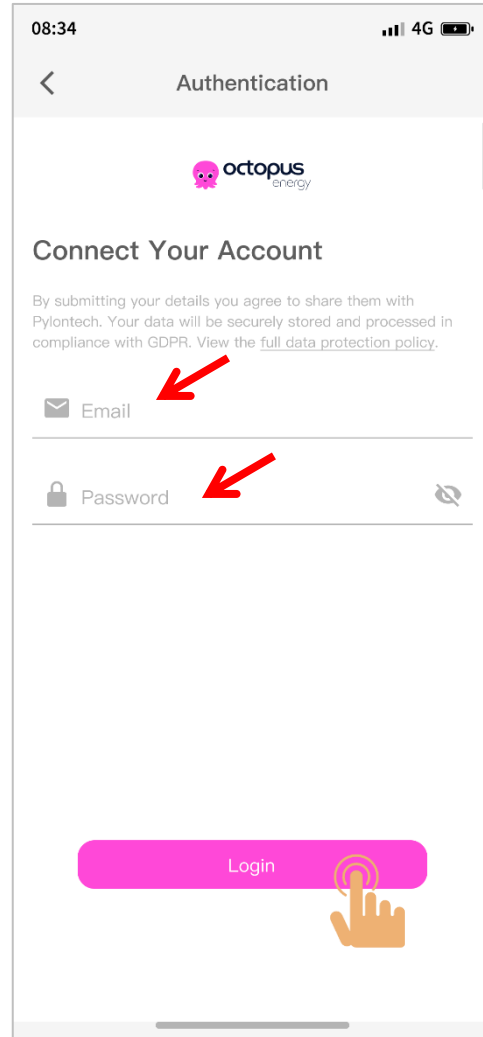
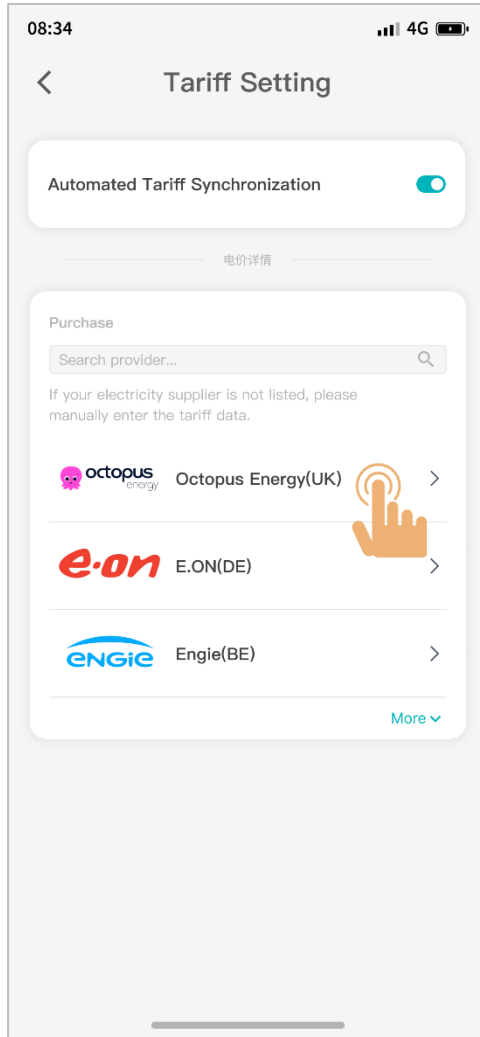
Tariff Setting can be accessed from **Plant -> Overview** in both Pylontech (consumer facing) and Pylontech Pro (installer/distributor facing). Our Intelligent Dynamic algorithm optimizes strategy based on the **purchase tariff changes** and the **user's tariff threshold customization**. So, we recommend using a **Time-of-Use** tariff type or accessing **dynamic pricing** via **Automated Tariff Synchronization** for optimal results.

Set a Time-of-Use Tariff Manually



- If dynamic electricity pricing is not available in your region, you can disable “Automated Tariff Synchronization”. Then please choose **Currency** and **Tariff Type** for further settings.
- In the Time-of-use tariff settings, you need to set the **start time**, **end time**, and corresponding **tariff** for each period.
- You can add additional periods by tapping **"Add Period"**. Users can set tariffs for up to 24 hours in total.
- Tariff periods must not overlap, and there should be no gaps between periods. Therefore, you can use the "Other Period" tariff option to quickly assign a price to all remaining hours not covered by specific periods.

Importing Dynamic Tariff Data

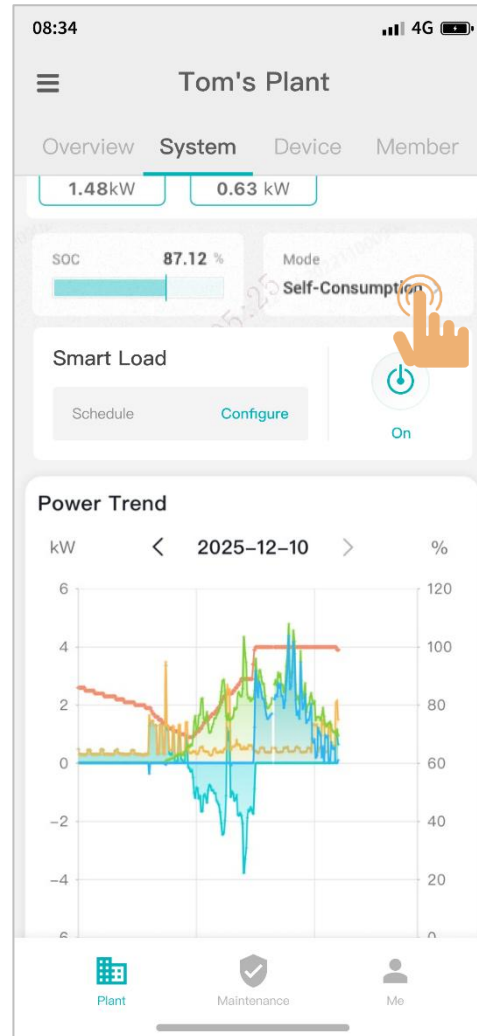
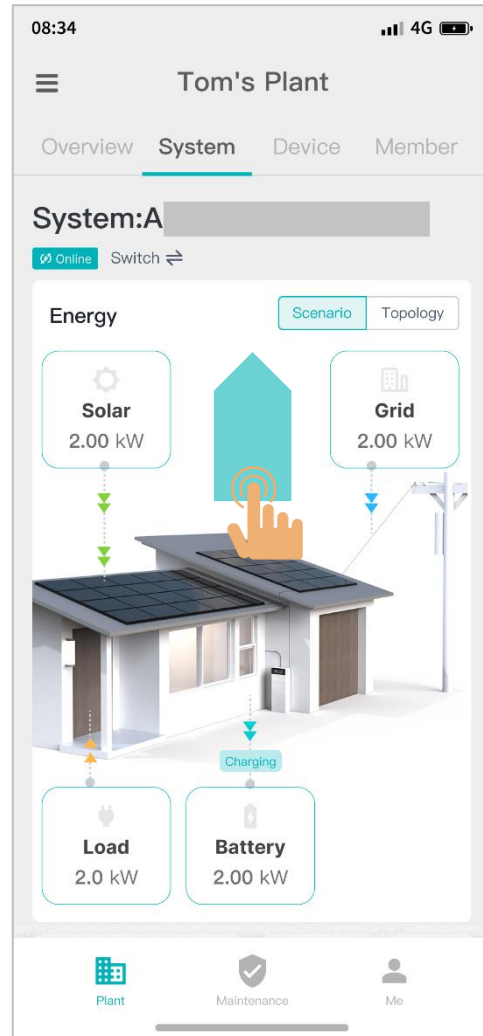
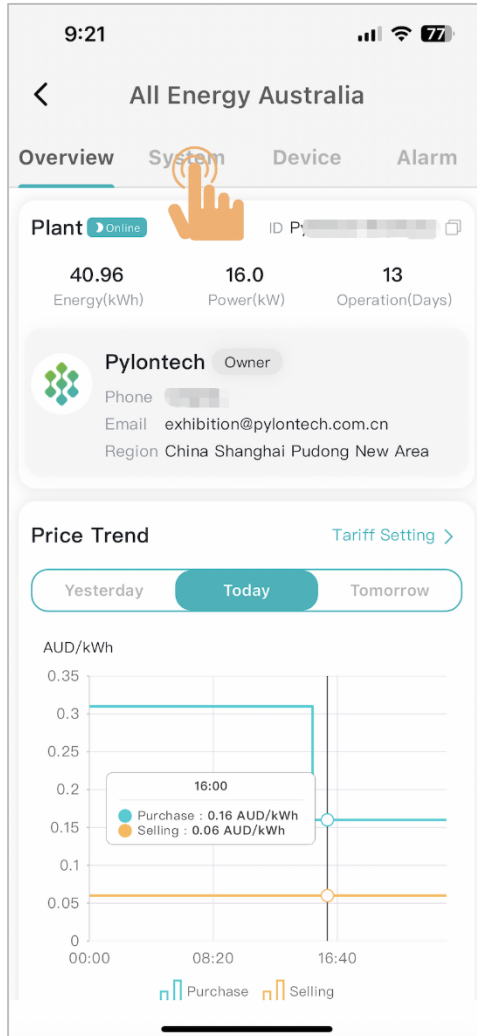


- If dynamic electricity pricing is available in your region, you can **enable “Automated Tariff Synchronization”**.
- Then, **select your electricity supplier**.
- Via FlatPeak's secure API, you will be **redirected** to their official authentication page to retrieve your tariff data.
- Once you **securely log in and approve data access** on your electricity supplier's page, your plant's purchase tariff will be automatically updated in Pylontech Cloud Service.

04

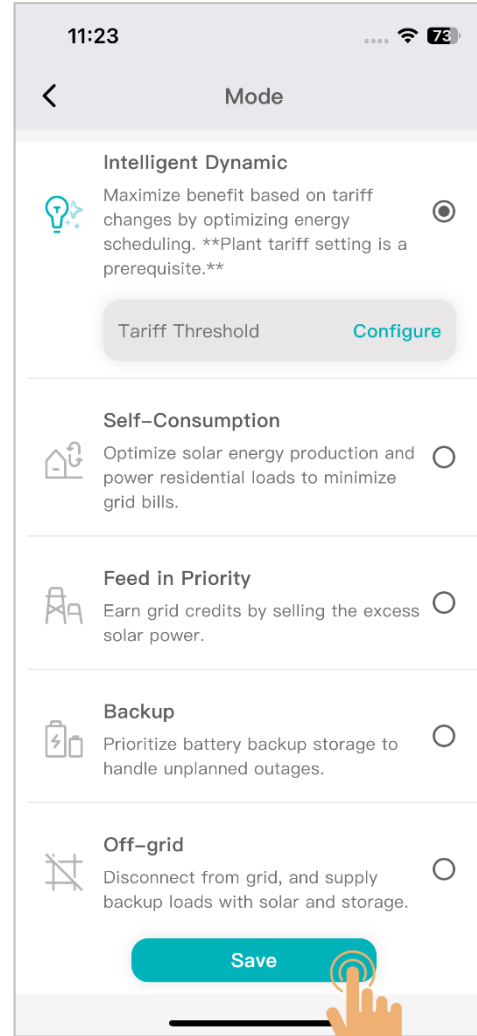
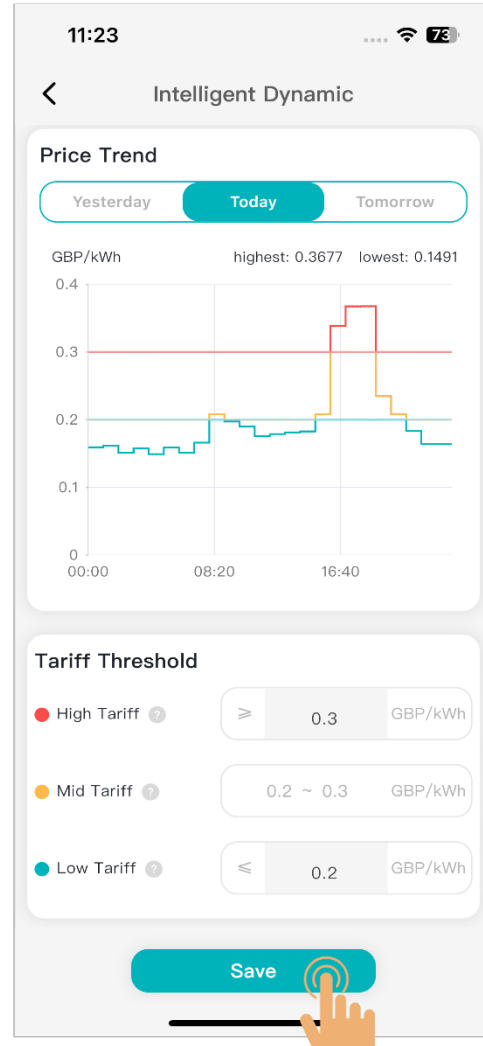
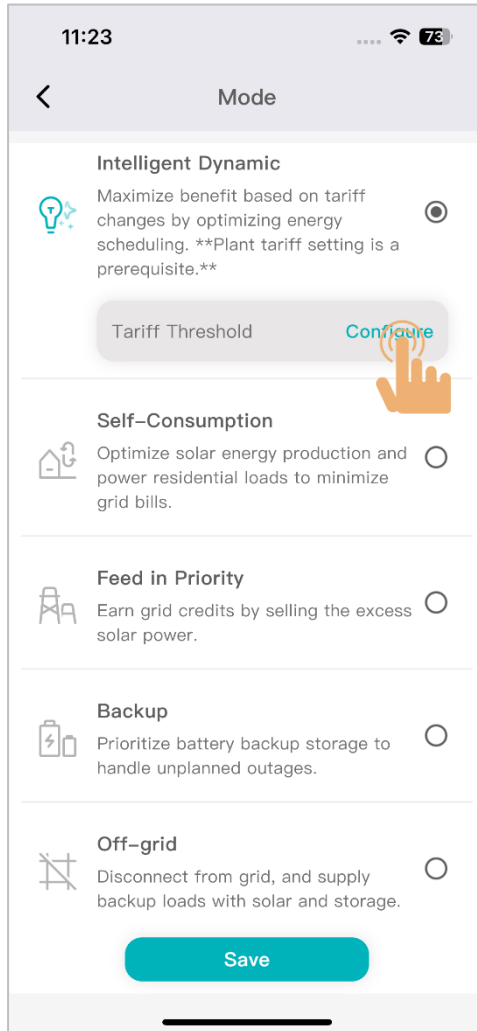
**Switch Mode based
on Tariff Threshold**

Set System Mode



Intelligent Dynamic is a system-level energy management strategy. To switch to this mode, go to **the Plant -> System** and scroll down to find the **mode** selector.

Tariff Threshold Configuration



Navigate to the mode settings, select Intelligent Dynamic and set your desired Tariff thresholds.

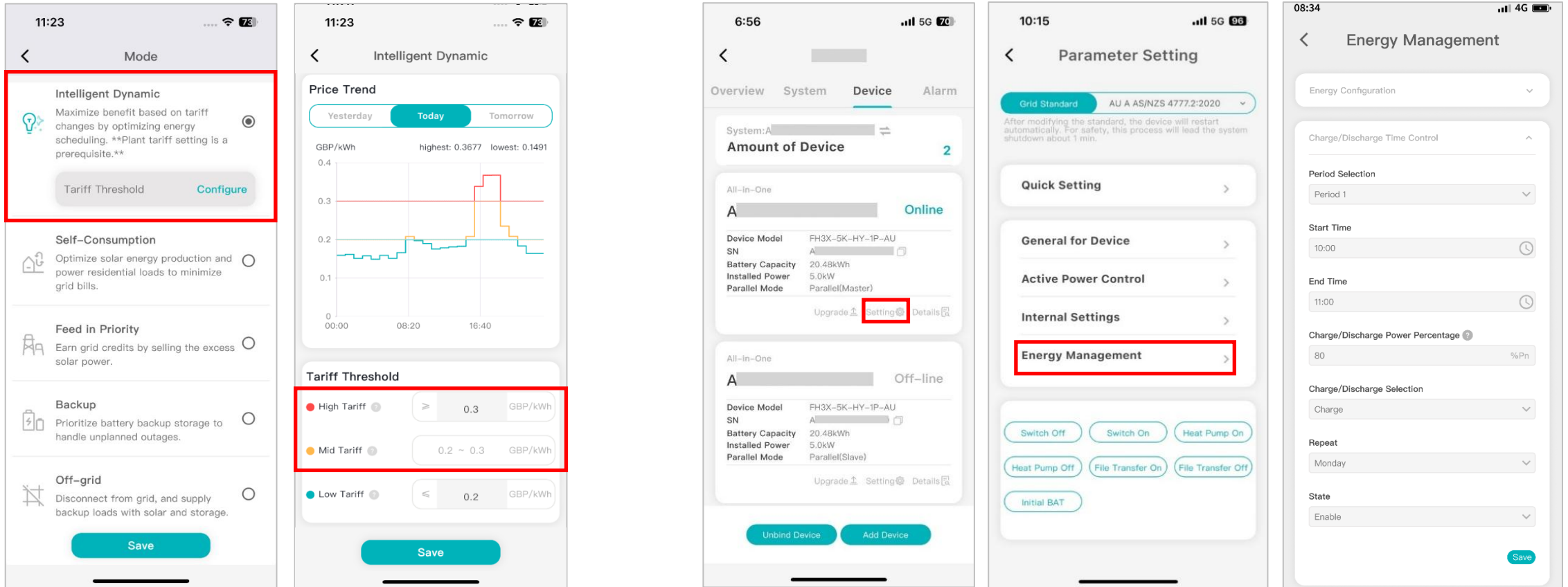
The system will apply the following strategy:

High Tariff - PV and battery will first support the load consumption. Surplus energy then charges the battery, and any further surplus feeds into the grid.

Mid Tariff - PV power is prioritized for the load, ensuring the battery neither discharges nor imports from the grid. If there is surplus PV energy, it will recharge the battery.

Low Tariff - maximize grid usage for battery charging, it is recommended during periods of extremely low tariff.

Priority & Influence



During **High** and **Mid Tariff periods**, if a **Charge/Discharge Time Control** schedule is enabled, **the schedule will take priority**. This may reduce the benefits of Intelligent Dynamic scheduling.

Please review and adjust your settings based on your actual needs and strategy priorities.



THANKS

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