

Commissioning of grid-tied PV-only Enphase Energy System

Contents

Applicable country	2
Overview	2
Preparing for Enphase Installer App (Installer Toolkit) communications.....	2
Commissioning process.....	3
Step 1: System Details	4
Step 2: Devices & Array	5
Step 3: IQ Gateway Connectivity	8
Step 4: Device Provisioning	11
Step 5: System Validation.....	12
Step 6: Post Commissioning	14
Revision history	16

Applicable country

- India

Overview

This document is intended for installers who commission Enphase Energy system in grid-tied applications. Follow the steps to complete the successful commissioning of the Enphase PV system.

Preparing for Enphase Installer App (Installer Toolkit) communications

The following process assumes that all IQ Microinverters have been installed in accordance with local standards and best practices, tested for appropriate voltages, and are ready to be energized.

Always follow the safety warnings and instructions for all the products in the Enphase quick install guides and installation manuals.



NOTE: For IQ8 Series Microinverter system commissioning, the Enphase Installer App (ITK) version 3.31.x or greater and IQ Gateway software 7.6.168 or greater are required.

The upgrade is part of the commissioning if your IQ Gateway software version is less than 7.6.168. It may take approximately 20–30 minutes for a software upgrade.

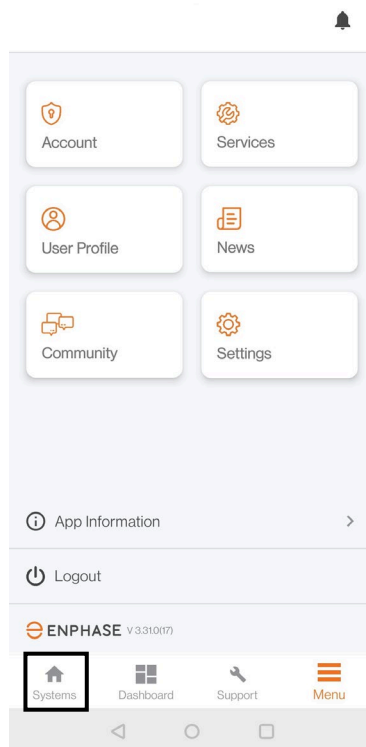


You can install the Enphase Installer App using the following links:

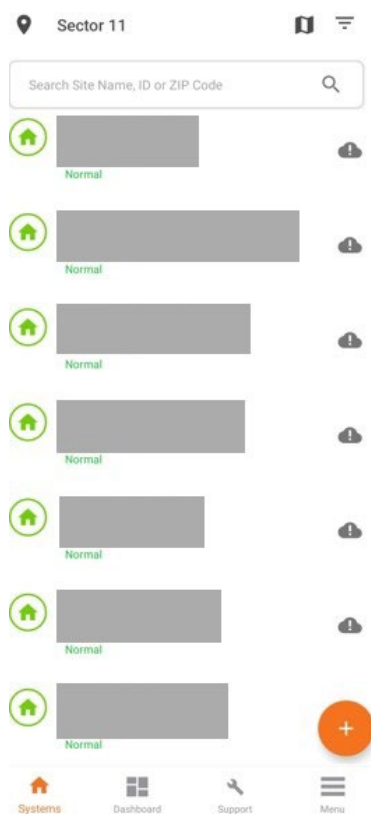
- [iOS](#)
- [Android](#)

Commissioning process

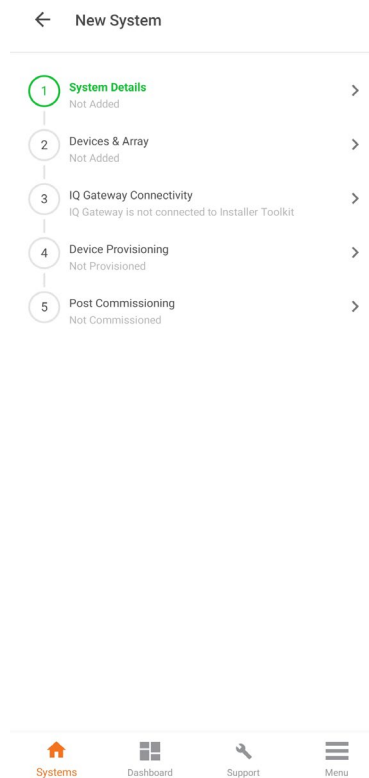
1. On the Enphase Installer App (ITK) homepage, select **Systems**.



2. Log in to the app and tap the + button to create a site.

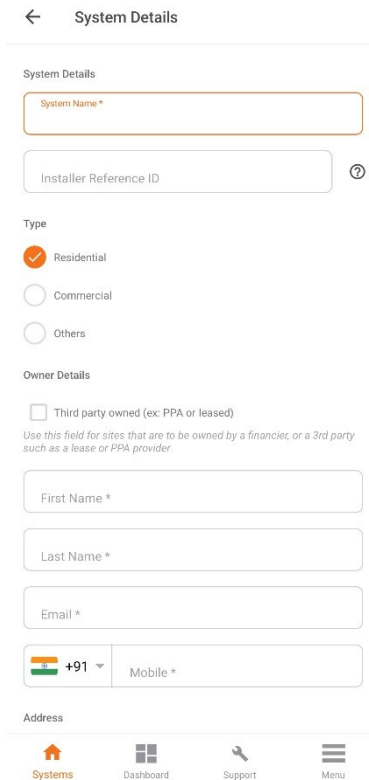


3. In the **New System** homepage, tap **System Details** to start the wizard.



Step 1: System Details

Fill in the site information and customer details.



← System Details

System Details

System Name *

Installer Reference ID ?

Type

☒ Residential

☐ Commercial

☐ Others

Owner Details

☐ Third party owned (ex. PPA or leased)
Use this field for sites that are to be owned by a financier, or a 3rd party such as a lease or PPA provider

First Name *

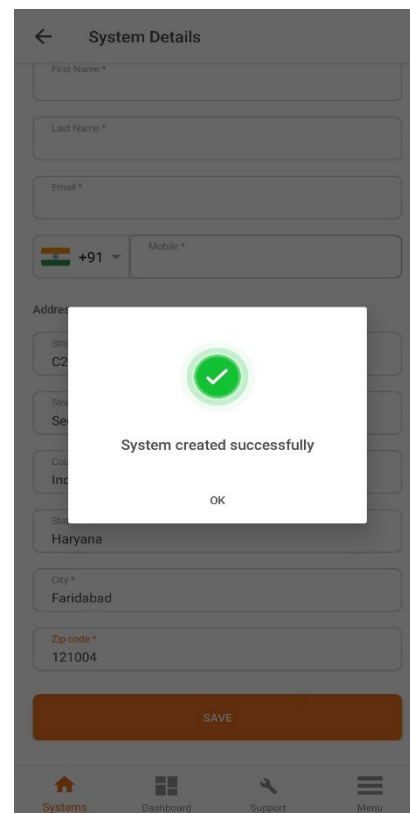
Last Name *

Email *

+91 Mobile *

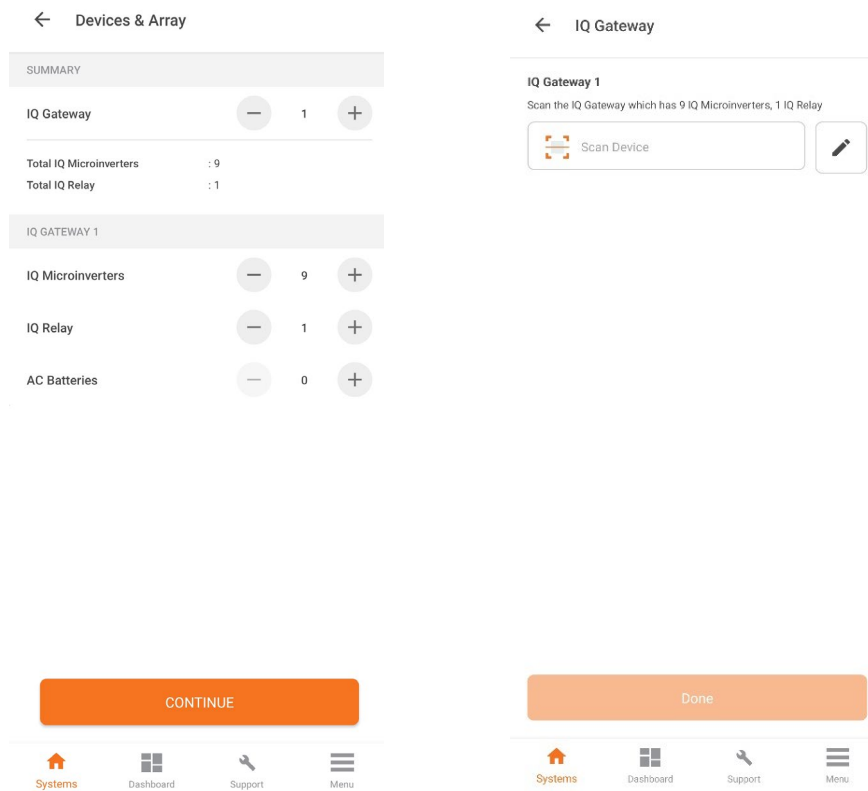
Address

Systems Dashboard Support Menu



Step 2: Devices & Array

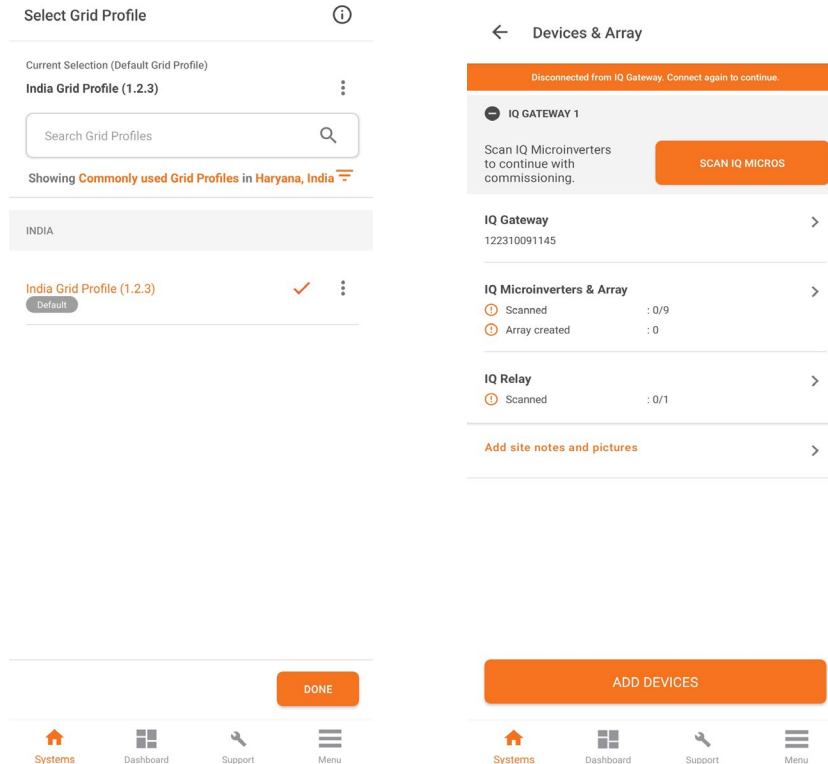
2.1 Tap **Devices & Array** and add the devices, then follow the prompts to scan **IQ Gateway**, as shown in the following screen.



2.2 Scan all the IQ Gateways by scanning the barcode located on their flap.

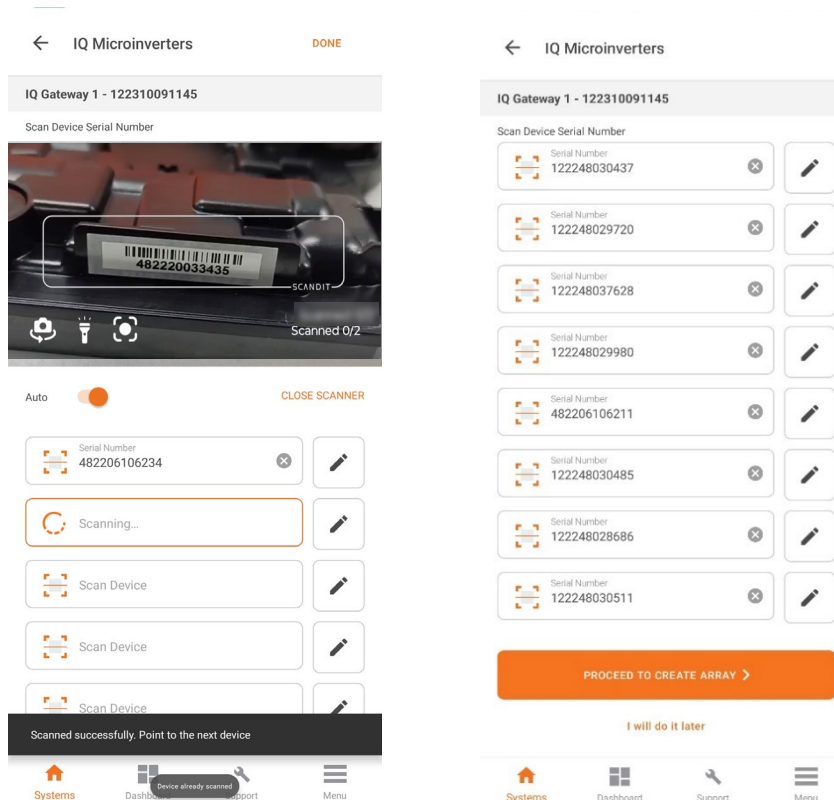


2.3 Select the grid profile based on the region/state.



NOTE: Make sure that India Grid Profile (1.2.3) is selected.

2.4 Scan all IQ Microinverters by scanning the barcode located on them.

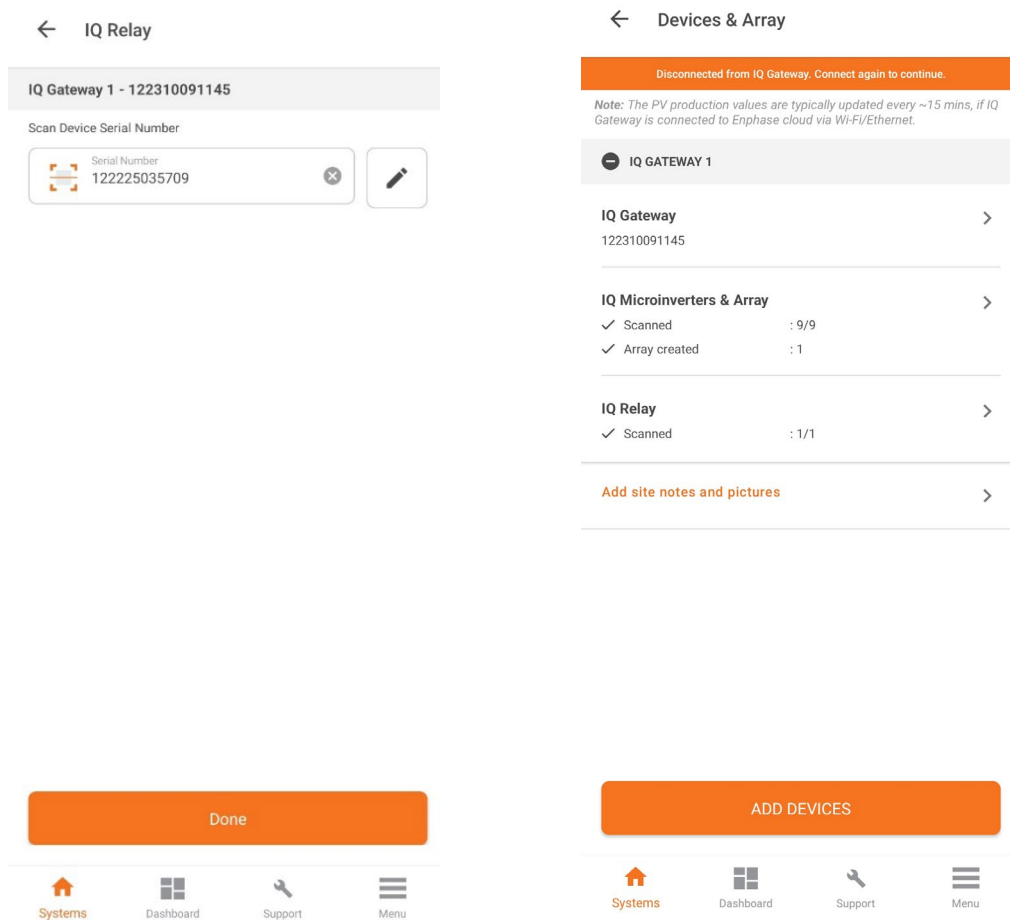


The image displays two screenshots of the Array Builder interface. The left screenshot shows the 'Welcome' screen with a grid of 10 squares (2 rows by 5 columns) and a 'Welcome' message. The right screenshot shows the 'Add Array' dialog box with the array name 'B1', dimensions '2 Rows' and '5 Columns', and a 'Portrait' orientation. Both screenshots show a 'SAVED' button and a close 'X' button.

The image displays three screenshots of the 'Array Builder' software interface, illustrating the process of configuring an array of microinverters.

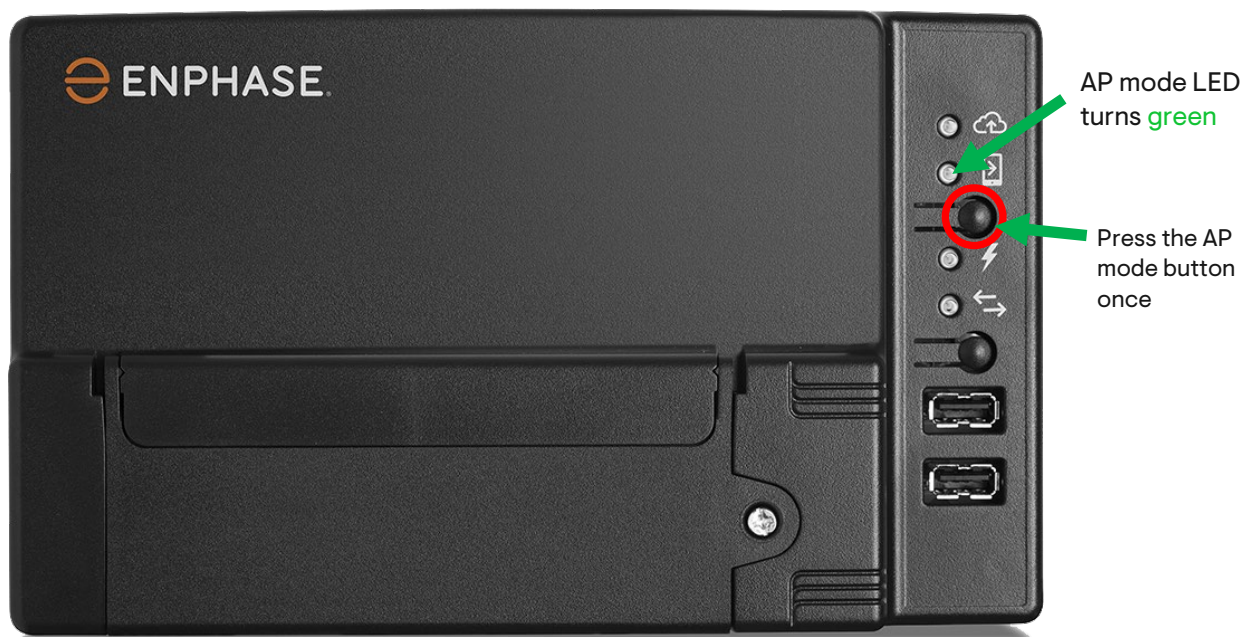
- Left Screenshot:** Shows the 'Array Builder' window with a 'Select Array' dropdown set to 'B1'. The main area displays a grid of 16 empty slots (4x4). A toolbar on the right contains icons for search, zoom, and navigation. A 'None assigned' dialog box is visible at the bottom left, with an 'ASSIGN' button and icons for array selection, refresh, and delete.
- Middle Screenshot:** Shows the 'Microinverters' window. It features a 'Search' bar and a 'Sort Serial Numbers' checkbox. Below, a list of unassigned microinverters is shown, each with a battery icon and a serial number (e.g., 122248028686 IQ7A, 122248029720 IQ7A, etc.).
- Right Screenshot:** Shows the 'Array Builder' window again, but now the grid is populated with 16 blue tiles. Each tile displays a serial number (e.g., ...106234, ...030437, ...029720, ...037628, etc.). The 'None assigned' dialog box is no longer present.

2.7 Scan the IQ Relay.

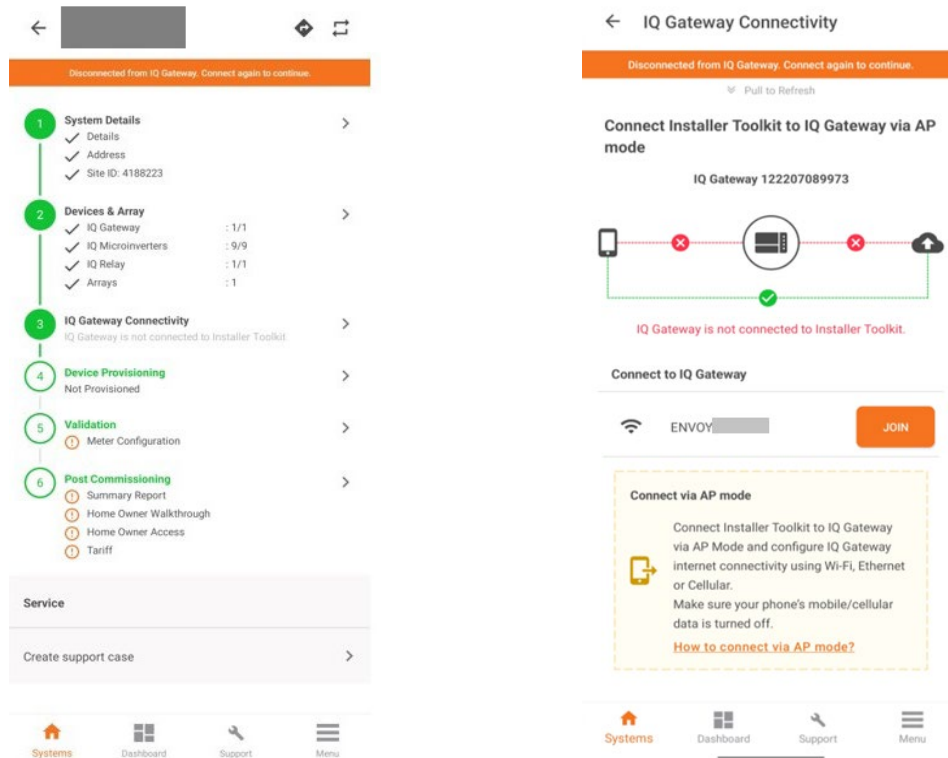


Step 3: IQ Gateway Connectivity

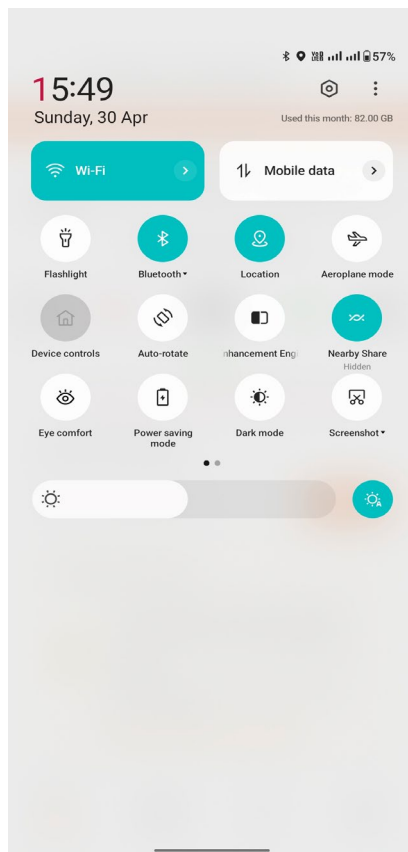
3.1 Turn ON IQ Gateway AP mode.



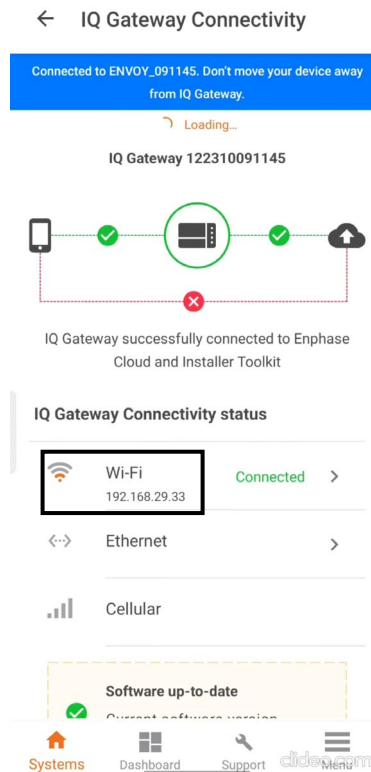
3.2 Activate Gateway Wi-Fi Access Point, then tap **JOIN** to connect to the network.



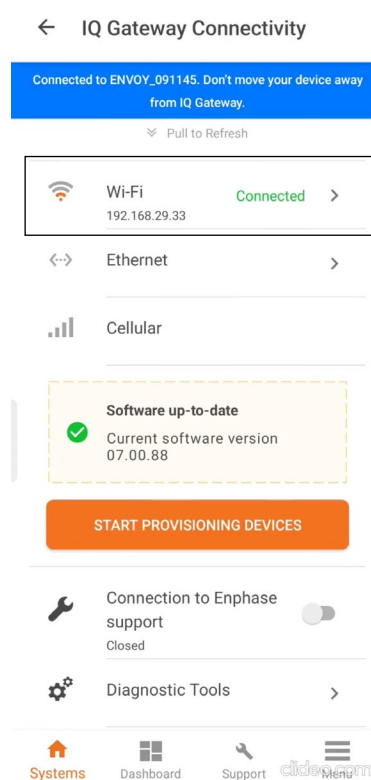
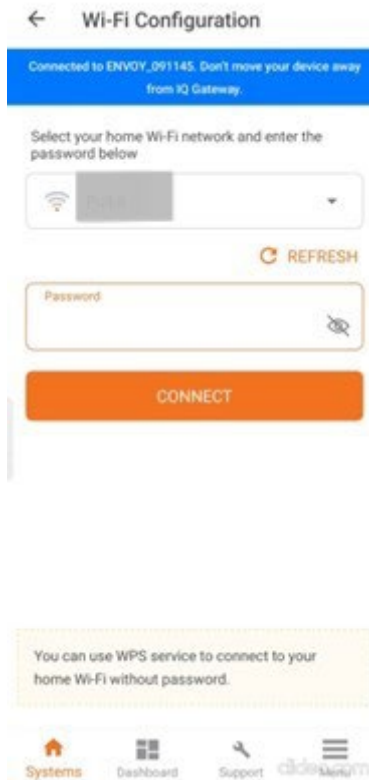
3.3 To connect the mobile device to IQ Gateway, turn OFF mobile data and turn ON Wi-Fi. Tap on Gateway_XXXXXX Wi-Fi network in the available Wi-Fi networks.



3.4 Once connected, the status tab changes from orange to blue. Connect the IQ Gateway to the customer's Wi-Fi or Ethernet.

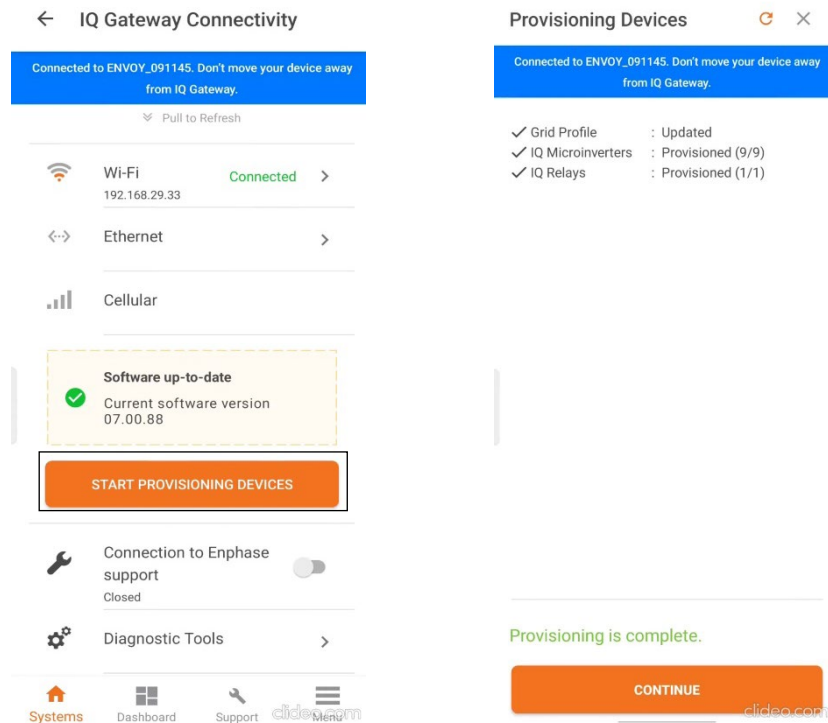


3.5 To connect the IQ Gateway via Wi-Fi, the customer's Wi-Fi login credentials are required.

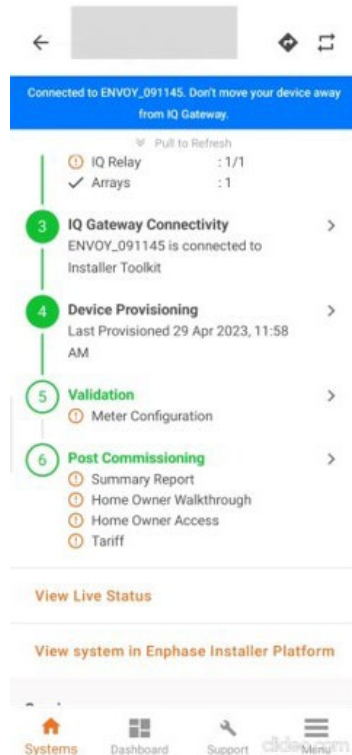


Step 4: Device Provisioning

- 4.1 The Enphase Installer App requests a software update if the software does not match the required version. Wait for the software update to finish.
- 4.2 Tap **START PROVISIONING DEVICES**.



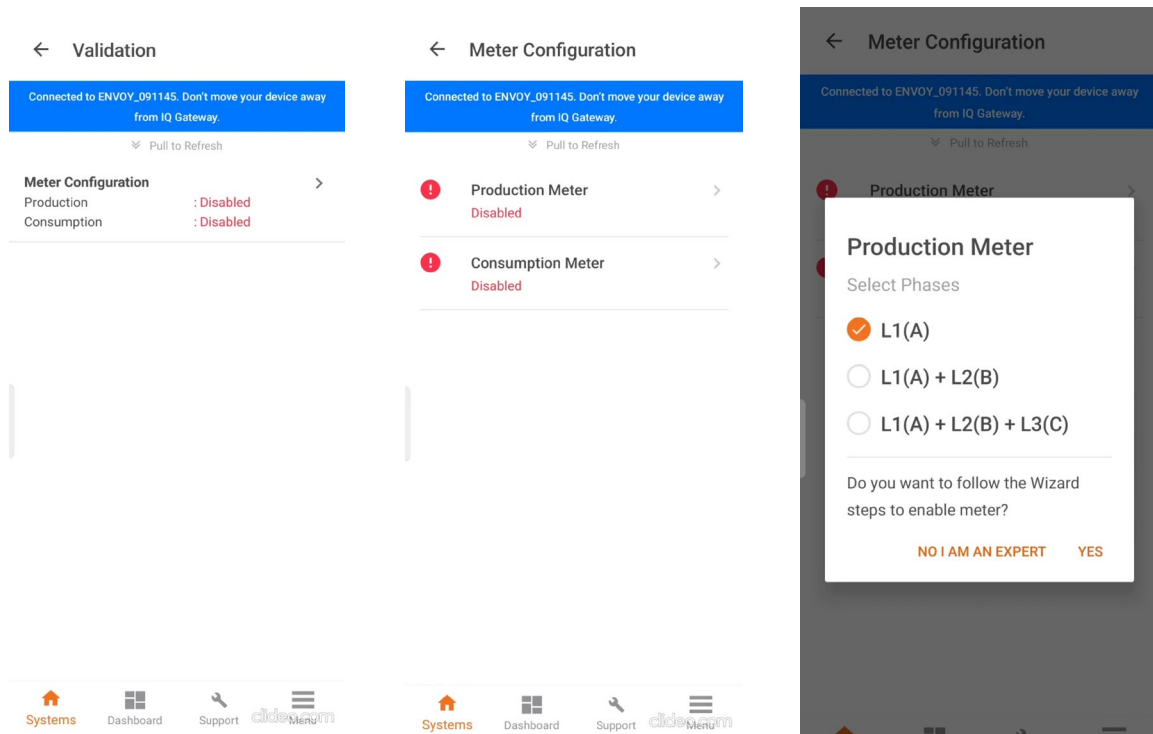
- 4.3 Once provisioned, the status tab changes to green (step 4).



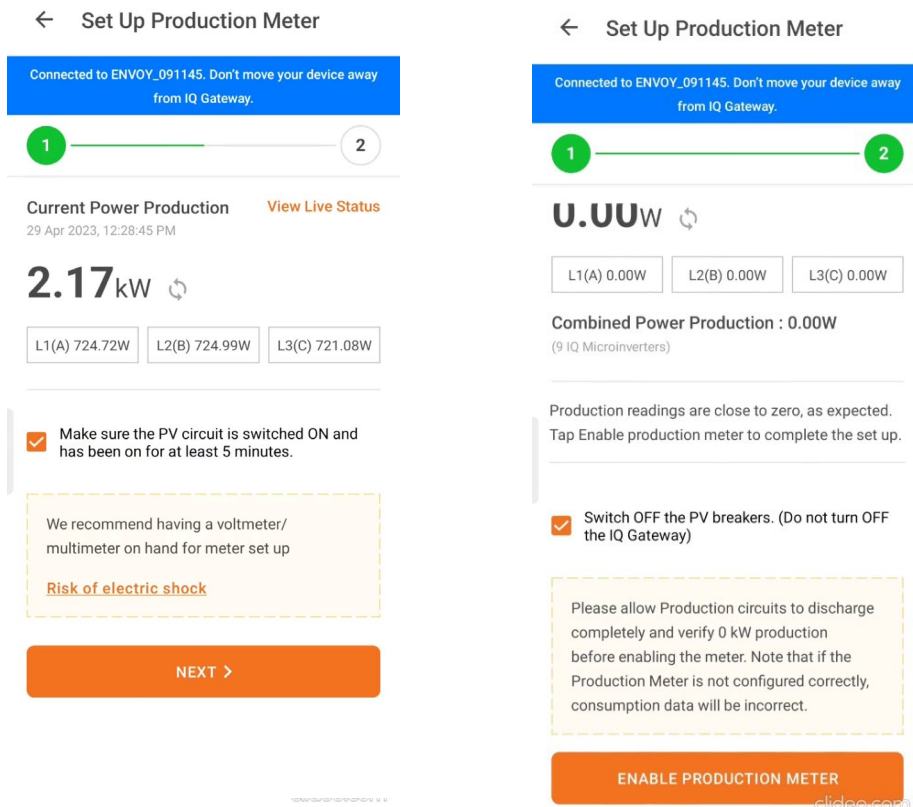
NOTE: After provisioning is complete, the IQ8 Series Microinverters take around 20-30 minutes to start production.

Step 5: System Validation

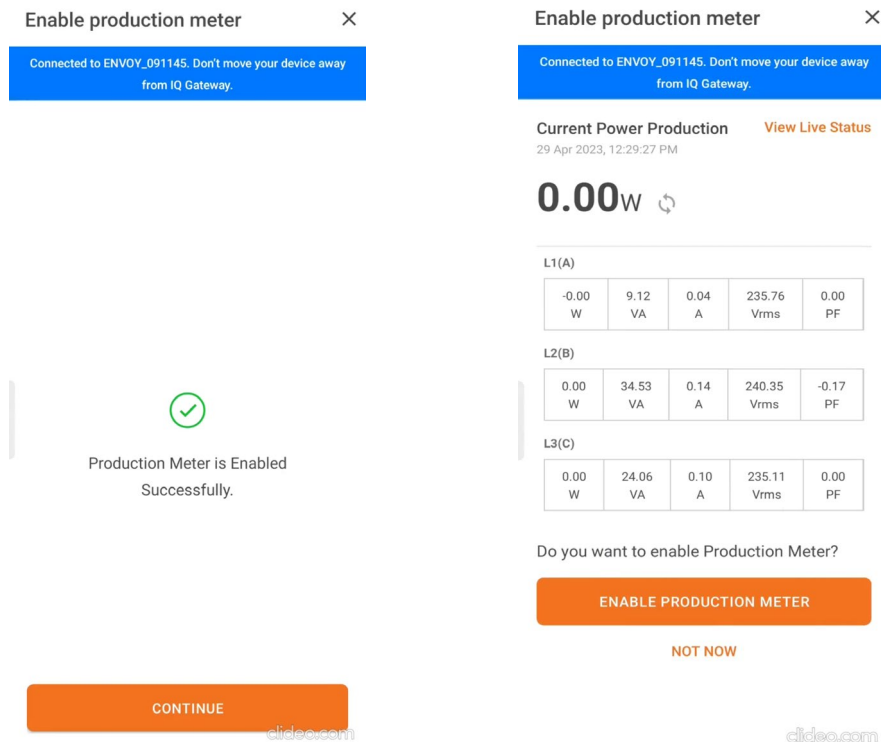
5.1 Configuring Production meter/CTs.



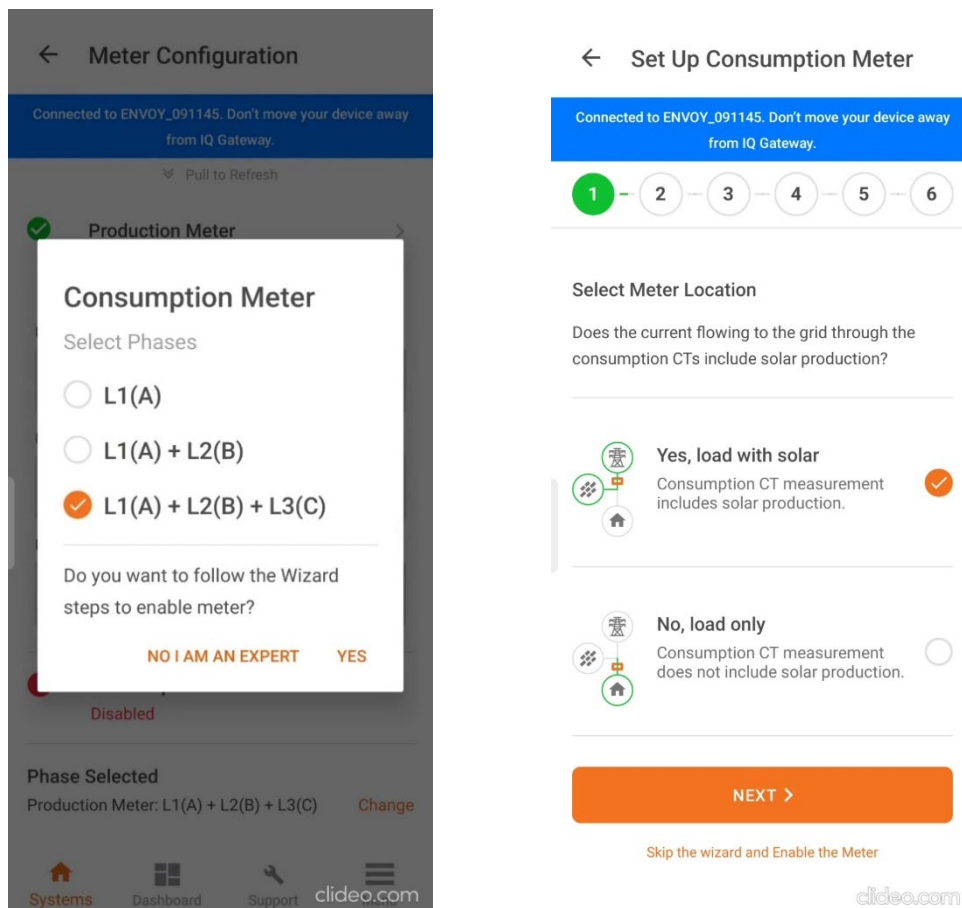
5.2 Tap **Production Meter** and follow the wizard instructions to set up the production meter.



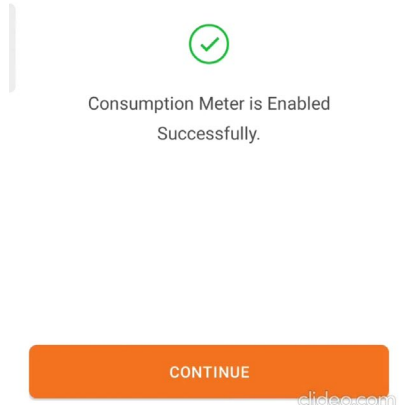
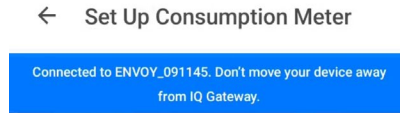
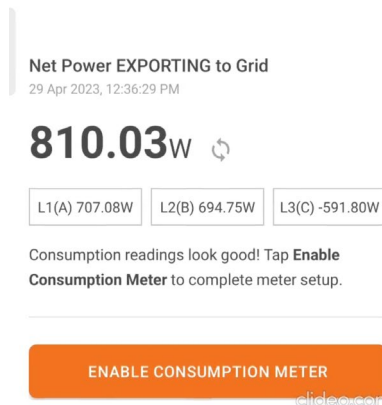
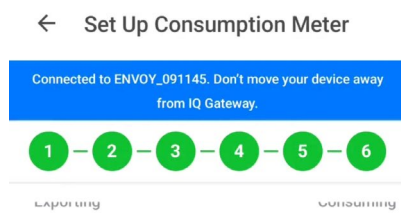
5.3 For an expert mode, tap **ENABLE PRODUCTION METER**.



5.4 Configuring Consumption meter/CTs. Tap **Consumption Meter** and follow the wizard instructions to set up the consumption meter.

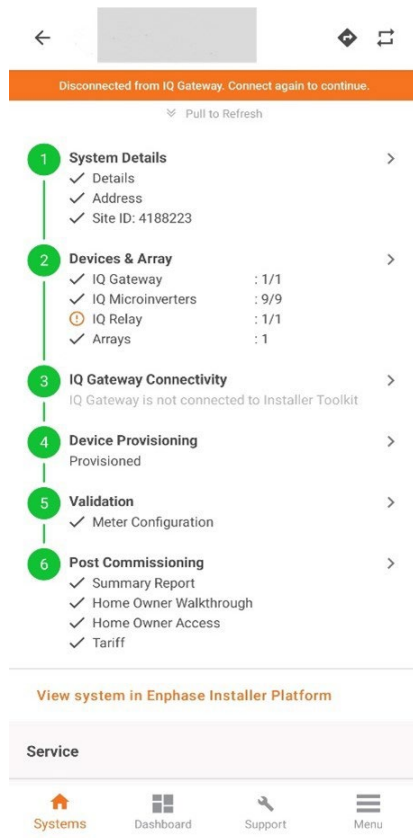


5.5 Select the meter location. Typically, it is **Load with Solar**.

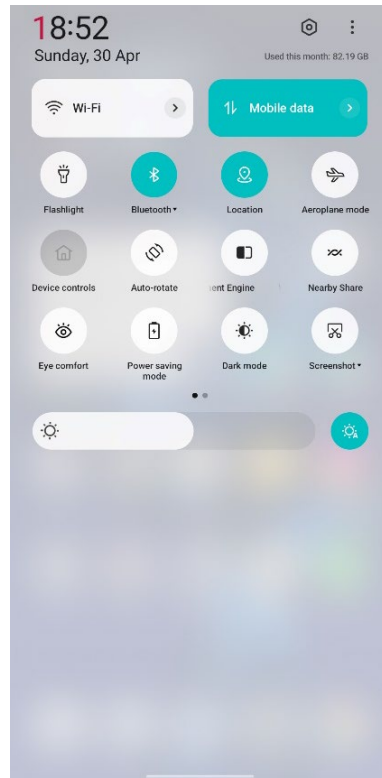
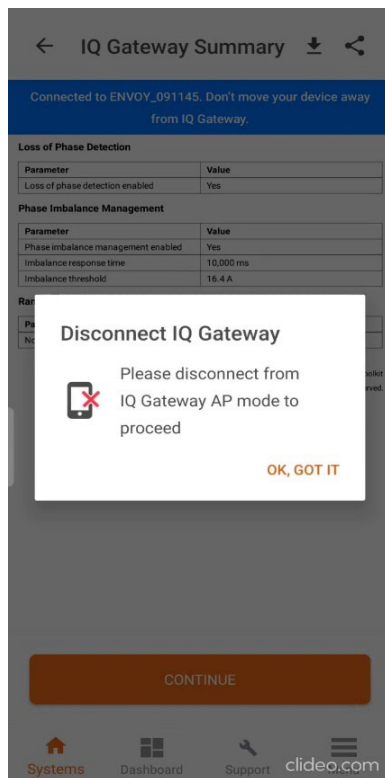


Step 6: Post Commissioning

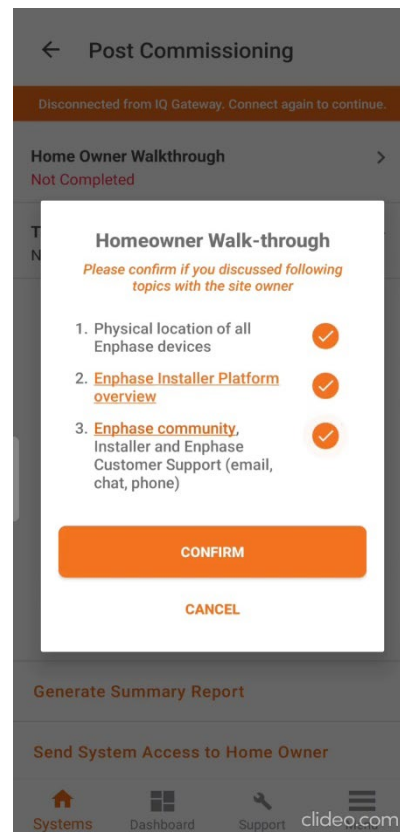
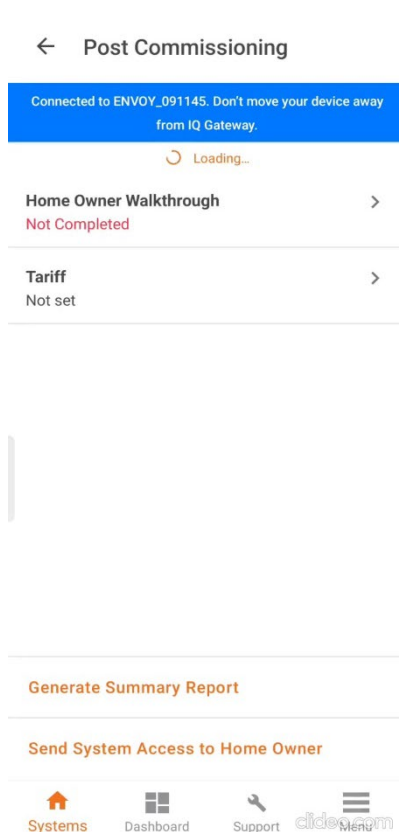
6.1 Tap **CONTINUE** once the provisioning and validation are complete.



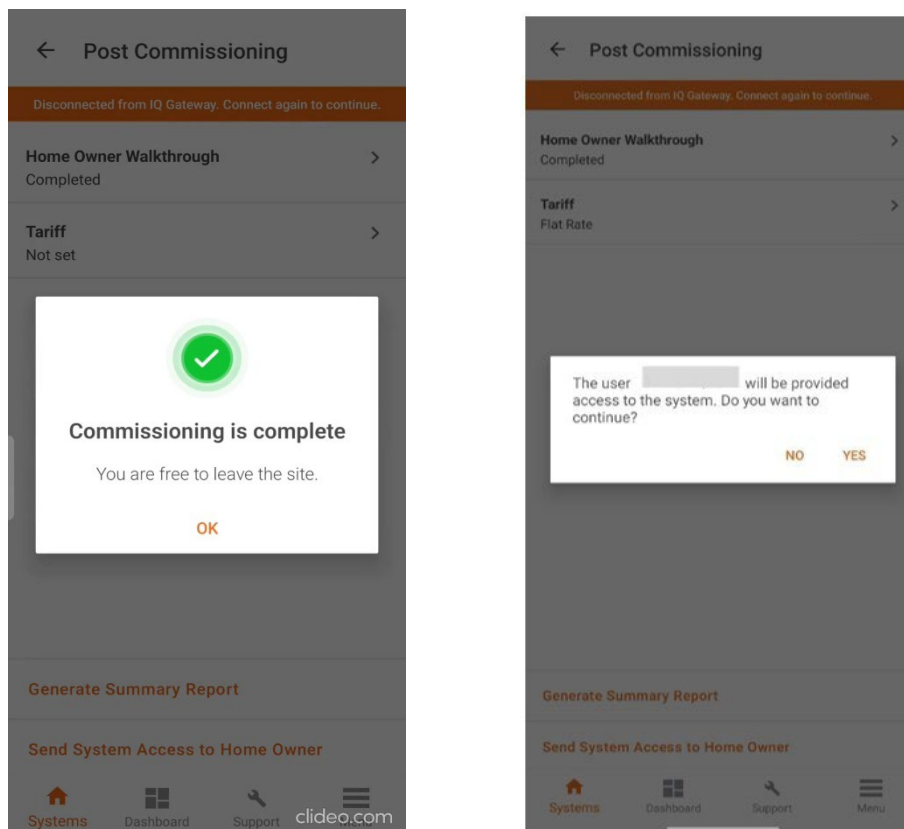
6.2 Disconnect IQ Gateway AP mode and turn ON your cellular or connect your mobile to a local Wi-Fi.



6.3 Select **Post Commissioning > Home Owner Walkthrough**. Confirm home owner walk-through and tap **CONFIRM**.



6.4 Provide access to the homeowner and then follow the prompts.



Revision history

Revision	Date	Description
TEB-00066-1.0	September 2023	Initial release