efergypro

Installation Manual

Content

Overview

The Efegry Pro is a whole home energy monitoring system that provides real-time data on solar generation, imports, exports and consumption of electricity simultaneously.

How it Works

CT Sensors are clipped to particular wires in or near the fuse box. A lead from the sensor is connected into the Transmitter, which sends real-time data wirelessly to the Gateway. The Gateway is connected to your home's Wi-Fi network and sends real-time and historical energy use to Efergy Pro Cloud and the app.

1 2 3

3 Quick and Simple Steps

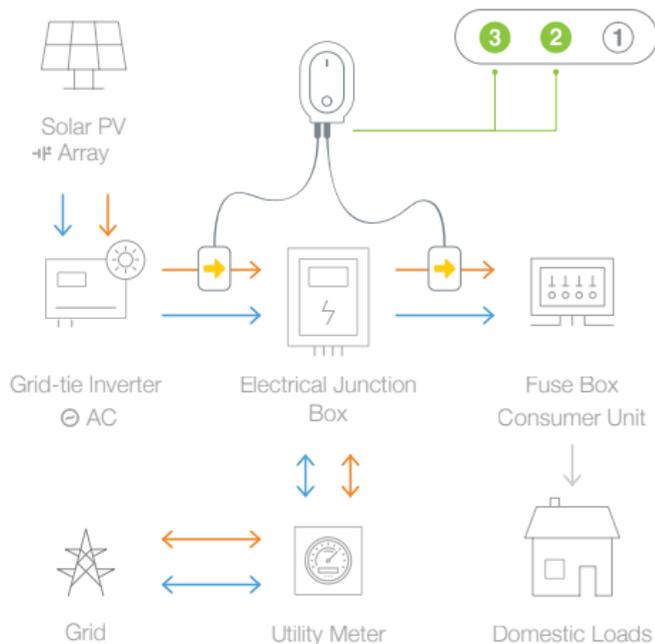You can easily set up your Efergy Pro by following this step-by-step guide
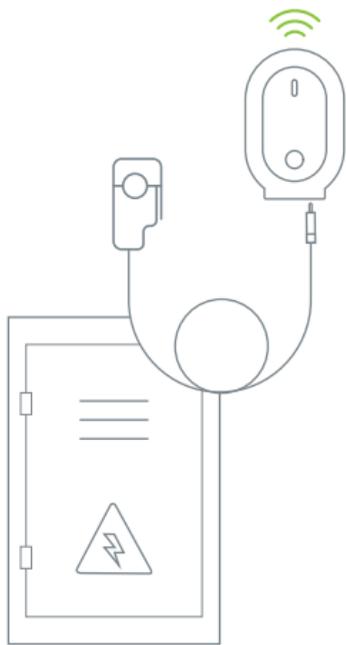
1

Setup the Sensors & Transmitter

It is typically a quick job to fit the sensor clamps in your fuse box, however, you need to be sure that you put the clamps on the right cables to ensure the correct readings.

The diagrams on pages 4 to 7 show how to place the sensors on different systems.

> Make sure that you put the clamps on the right cables to ensure the correct readings.

Sensor(s) & Transmitter Setup

Solar PV Array

Grid-tie Inverter ⊖ AC

Electrical Junction Box

Fuse Box Consumer Unit

Grid

Utility Meter

Domestic Loads

Type I

Single-phase Solar PV Deployment

🌐 Most common type in homes and apartments in Europe, Asia and many other parts of the world.

➜ Make sure the arrow mark on the Sensors is always towards the Fuse Box.

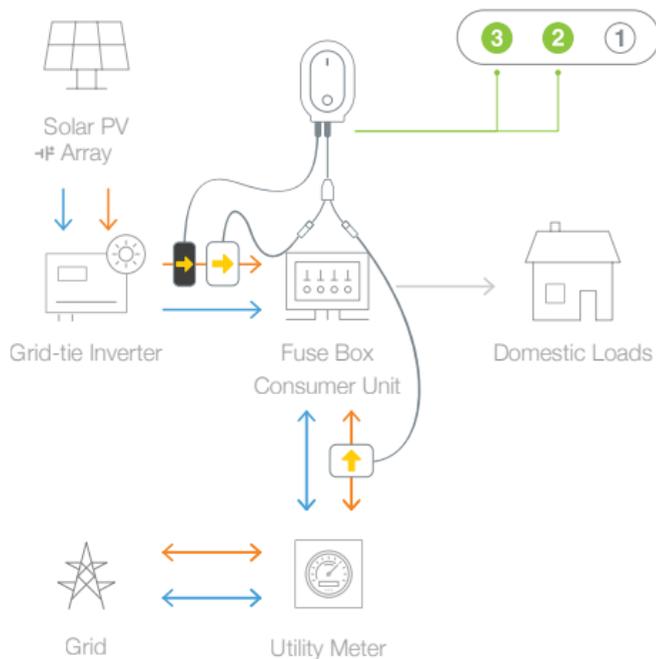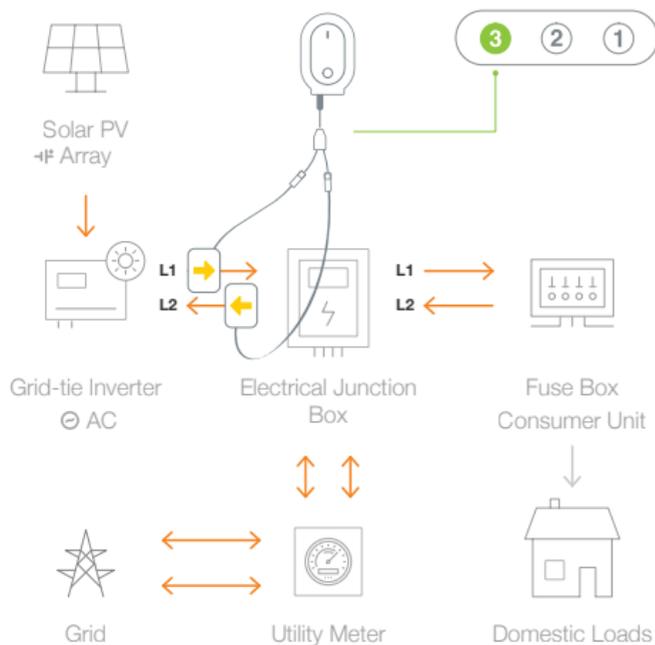|			
🔲 Trasnmitter		🖊 Y-Cable	
➡ XL Sensor		→ Live Line	
➡ Mini Sensor		→ Neutral Line	

Sensor(s) & Transmitter Setup

Single-phase Solar PV deployment

🌐 Most common type in homes and apartments in Europe, Asia and many other parts of the world.

➡ Make sure the arrow mark on the Sensors is always towards the Fuse Box.

📱 Trasnmitter		✎ Y-Cable	
➡ XL Sensor		→ Live Line	
➡ Mini Sensor		→ Neutral Line	

Sensor(s) & Transmitter Setup

Solar PV
Array

Grid-tie Inverter
⊖ AC

Electrical Junction
Box

Fuse Box
Consumer Unit

Grid

Utility Meter

Domestic Loads

L1
L2

L1
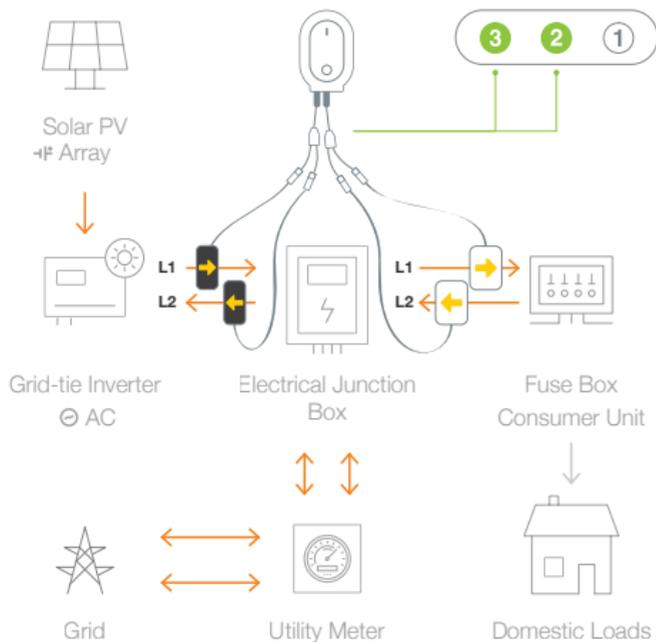L2

120/240V Split-phase Solar Generation

🌐 Most common type in the US and Canada.

➜ Make sure the arrow mark on the Sensors is always towards the Fuse Box.

⚡ Voltage on the app should be set at 120V.

❶ When using the Y-Cable make sure the sensor are the same type.

📱 Trasnmitter	✂ Y-Cable
➡ XL Sensor	→ Live Lines LI/L2
➡ Mini Sensor	

Sensor(s) & Transmitter Setup

Solar PV Array

Grid-tie Inverter
⊖ AC

Electrical Junction Box

Fuse Box Consumer Unit

Grid

Utility Meter

Domestic Loads

L1 L2 L1 L2

③ ② ①

Net Metering with Junction Box

🌐 Most common type in the US and Canada.

➡ Make sure the arrow mark on the Sensors is always towards the Fuse Box.

⚡ Voltage on the app should be set at 120V.

❶ When using the Y-Cable make sure the sensor are the same type.

🔲 Trasnmitter		✂ Y-Cable	
🔶 XL Sensor		→ Live Lines LI/L2	
🔸 Mini Sensor			

Find the Main Feed Wires

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Locate the Live Feed Cable on your Panel/Fusebox. This is normally located near the entrance of the house. Always shut down the power to your electrical panel first and proceed with caution!

For example, if you have a single tariff meter you should find four cables exiting the meter (see Diagram A). The feed cable is the live cable exiting from the meter to the fuse box or main switch. Clip the Sensor to Cable 4.
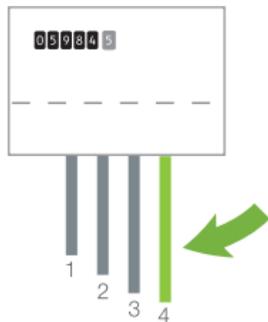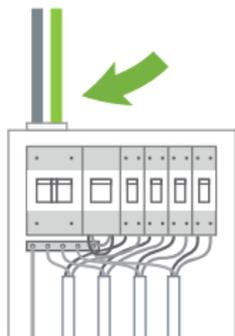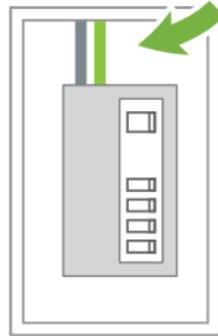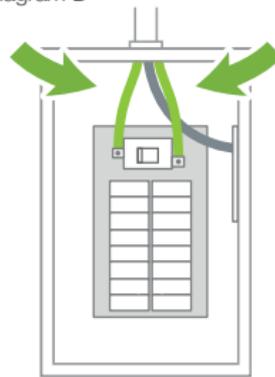
Diagram A

Diagram B

Diagram C

Diagram D

Fuse Box

Model: OT XL Sensor
CAT II - Max. 600V
· Nominal. 120A - Max.200A
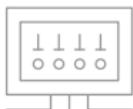WARNING:
· RISK OF ELECTRICAL SHOCK
· Please refer to user manual
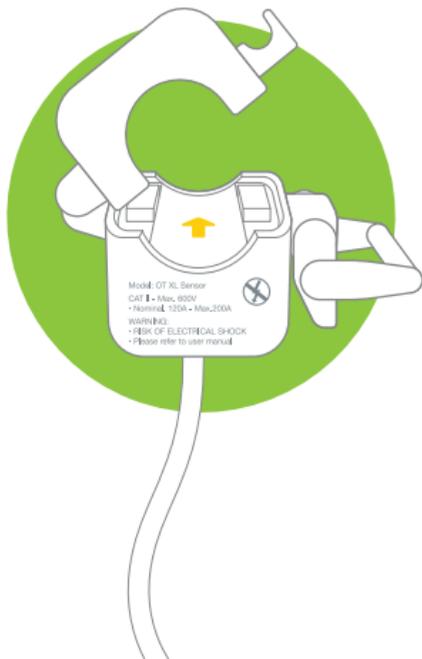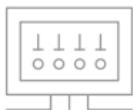
Attach the **Efergy Pro XL Sensor(s) to Live Feed**

Place the Efergy Pro XL Sensor(s) around the Feed Wires of your electric panel. Pull the clasp to open the Sensor, place it around the feed cable and push the clasp to shut.

ⓘ **Make sure the arrow mark is always towards the Fuse Box.**

Fuse Box

Attach the **Efergy Pro Mini Sensor(s)** to Live Feed

Place the Efergy Pro Mini Sensor(s) around the Live Line coming from the Grid-tie Inverter. Pull the clasp to open the Sensor, place it around the cable and push the clasp to shut.

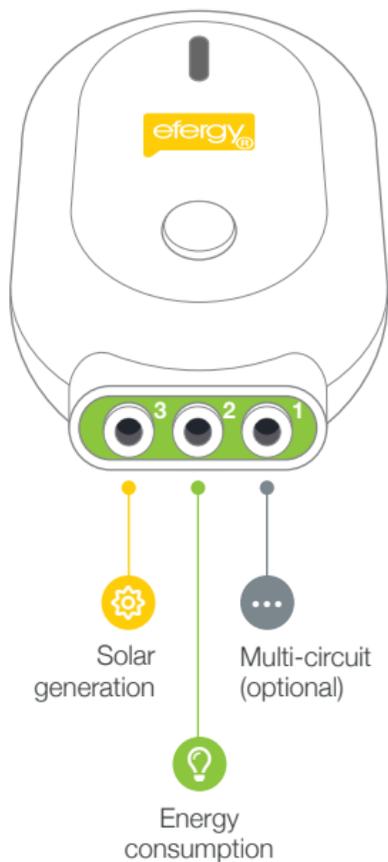> ⓘ **Make sure the arrow mark is always towards the Fuse Box.**

Connect the **Sensor(s) Jack** Into the **Transmitter**

Solar generation

Multi-circuit (optional)

Energy consumption

The Efergy Pro Transmitter has 3 input channels to plug in the Sensor clamps with or without a Y Cable. Make sure you plug the Sensor jack in the right position.
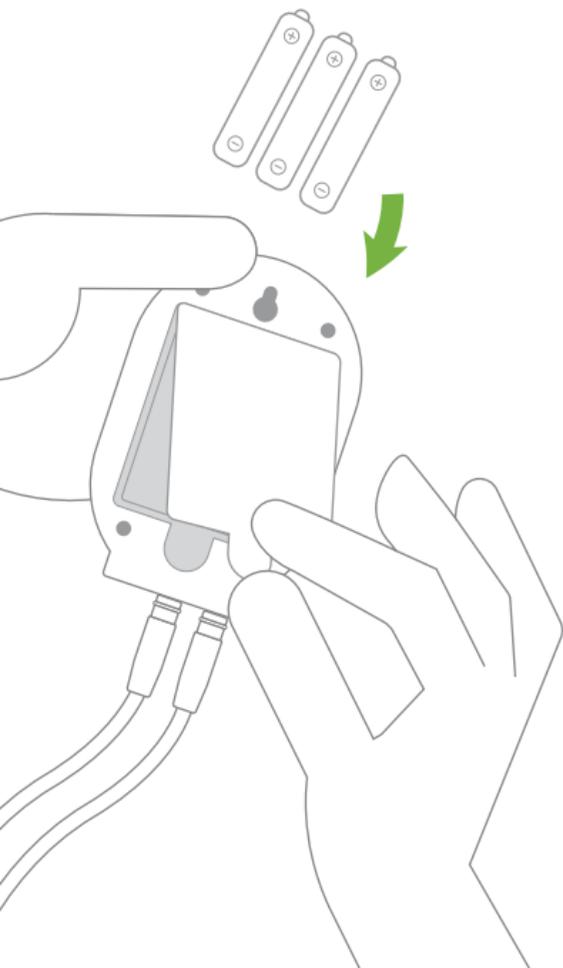
Connect the Sensor(s) Jack into the correct input port on the Transmitter:

Port 1: Multi-circuit

Port 2: Energy consumption

Port 3: Solar generation

Note: Insert sensor(s) jack before powering on the Transmitter.

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Power On the **Transmitter**

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1. Make sure you insert the sensor(s) jack first, then power on the Transmitter.

2. Open the Transmitter case and insert three AA batteries (not provided).

3. Mount the transmitter on the wall next to or above the electric panel.

ⓘ Efergy recommends high quality alkaline or lithium batteries for the best product performance. Battery life will depend on environment (up to 12 months).
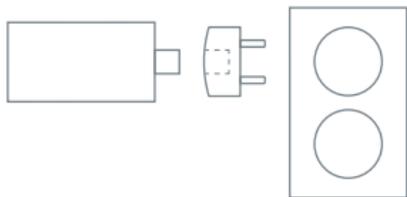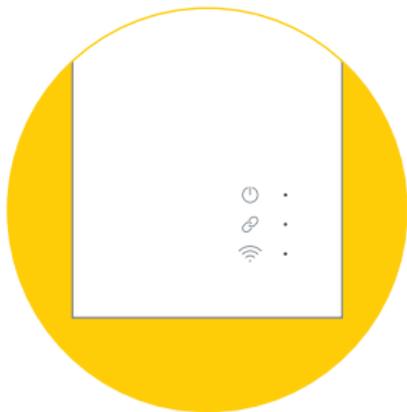
2

Power On the Gateway

Plug the Gateway into a USB Power Supply (not included in the product set).

The **Power LED** will turn solid green showing that the Gateway is powered on. The **Transmitter LED** on the middle may be red (this will depend on whether or not you have set up the Transmitter) and the **Wi-Fi LED** will flash red indicating that is ready for Wi-Fi configuration.
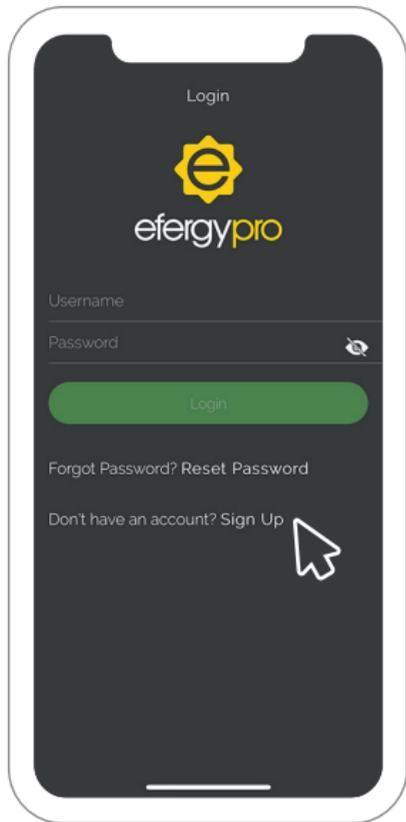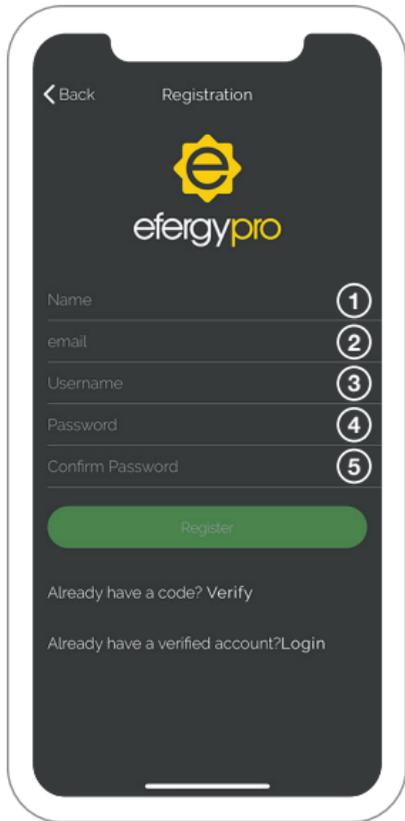
Power   Transmitter   Wi-Fi

3

Connect your Gateway to the Efergy Pro App

Download the **Efergy Pro** app free from the App Store or Google Play.

Setup is simple - open the app, sign up and follow the on-screen steps.

Download on the **App Store**
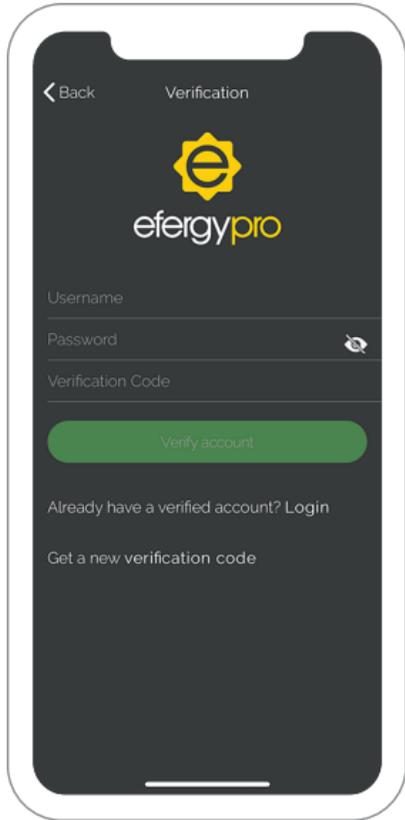
GET IT ON
Google play

14

Register an Efergy Pro Account

To create an Efergy Pro account:

1. Enter the name as you wish it to be registered.

2. This is the main email address for your Efergy Pro Account.

3. The username must be in the form of an email address (i.e. xxxx@xxx.com). You can use the same Efergy Pro Account or use an alternate email to install an addional Gateway.

4. Create a password. Must be at least 10 characters and have at least 1 number.

5. Confirm the password.

6. Tap **Register**.

efergypro

Username

Password

Verification Code

Verify account

Already have a verified account? Login
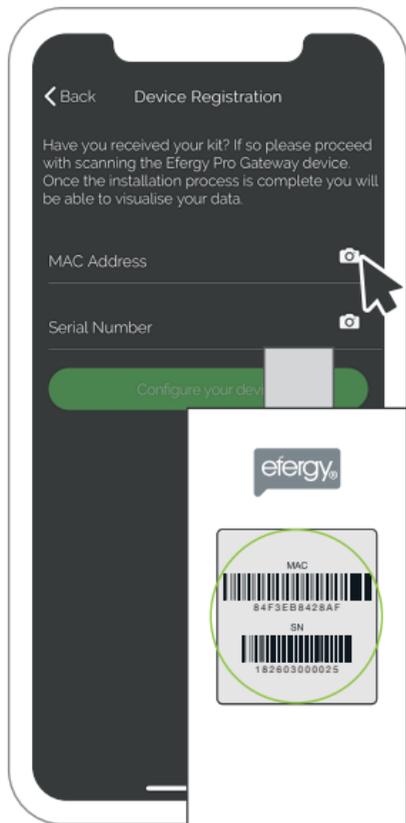
Get a new verification code

Verify your Account

You'll now receive a **Verification Code** to the email address you entered.

Enter the Username, Password and Verification Code.

Tap **Verify account**.

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Register the Device

Before registering the device, make sure the Gateway is powered up. To register the device:

1. Tap **Setup a new device** to start the Gateway configuration.

2. Enter the Gateway's MAC address and Serial Number, located on the product label, which is printed on the back of the device.

Type the information manually or tap the camera icon on the right to scan the barcode.

3. Make sure the MAC Adress and Serial Number inputed match the label information before moving to the next step.

4. Tap **Configure your device**.

Set voltage

The electricity supply voltage is set to 230V by default. You can update your electricity supply voltage on this screen. Tap **Confirm voltage**.
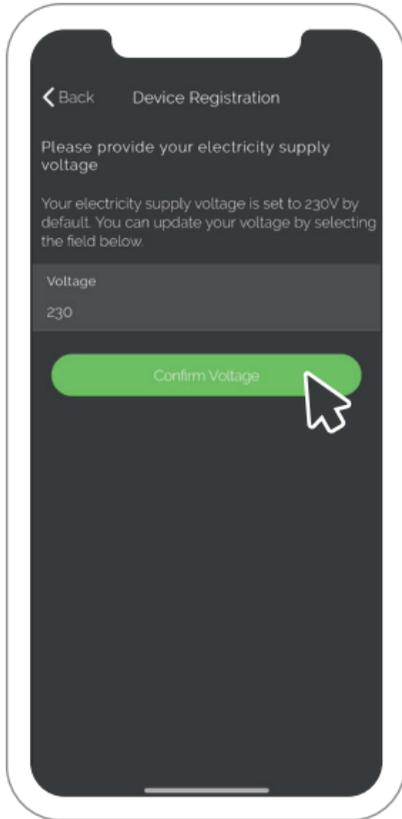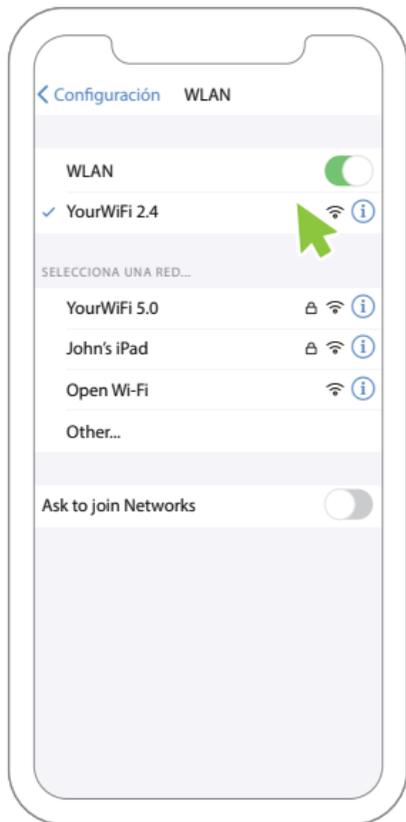
Connect your Mobile to Wi-Fi

Verify your mobile device is connected to a 2.4GHz Wi-Fi network. Do not use data (3G or 4G) on your mobile. We suggest temporarily turning your data off.

Note:

• Compatible only with 2.4GHz wireless band.

• To connect to a 2.4GHz network, go to **Settings** ⚙ > **Wi-Fi**. In this menu you will see all detectable networks in your area. Locate the SSID for your network, and tap on the SSID with the 2G or 2.4 end notation.
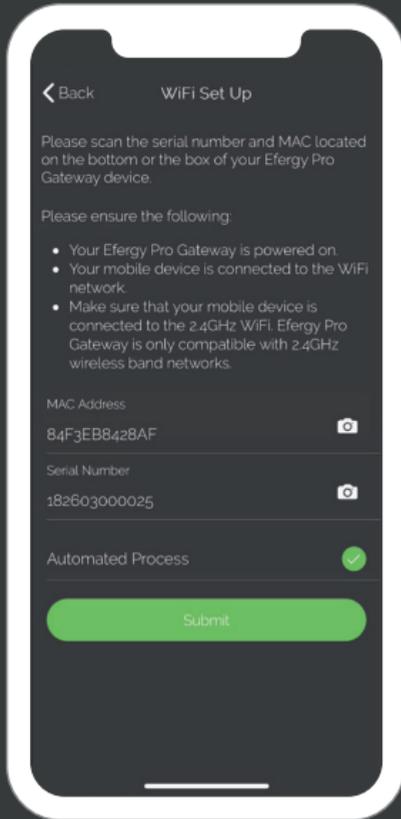
Wi-Fi Set Up

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Before continuing with the installation, please ensure the following:

✔ Your Efergy Pro Gateway is powered on.

✔ Your mobile device is connected to teh Wi-Fi network.

✔ Make sure that your mobile device is connected to the 2.4GHz Wi-Fi. Efergy Pro Gateway is only compatible with 2.4GHz wireless band networks.

✔ Do not use data (3G or 4G) on your mobile. We suggest temporarily turning your data off.
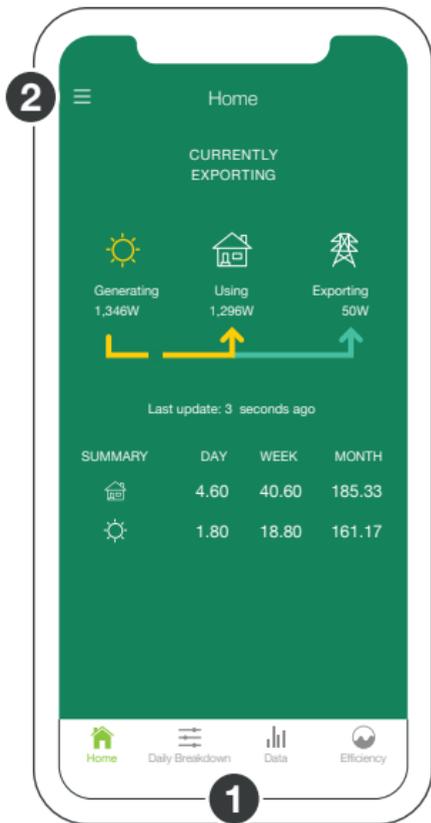
Tap the **Submit** button.
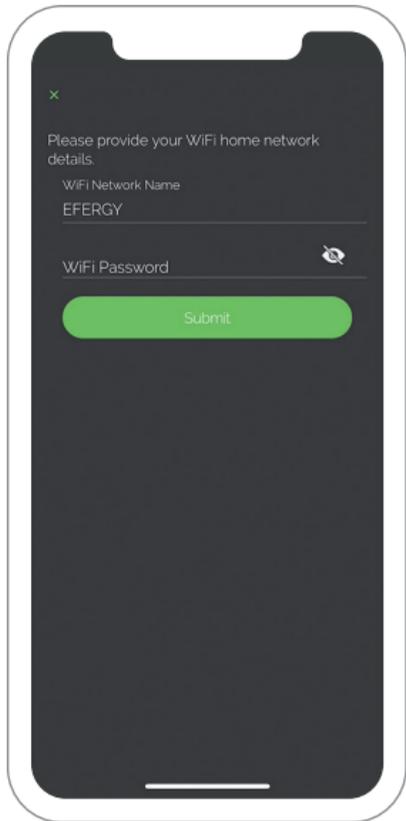
Connect the Gateway to Wi-Fi

To connect your Gateway to the Wi-Fi network:

1. Select the name (SSID) of your WiFi network.

2. Enter your Wi-Fi password.

3. Tap **Submit**.

4. After a few seconds a popup will appear asking for permission to join the Gateway's network.

Meet the Efergy Pro app

The Efergy Pro app allows you to see your home electricity consumption, solar generation performance and savings.

1. A simple tab bar on the bottom of the screen lets you switch between different information.

2. Click the Menu button ≡ (top left), to access the device settings, support and more.

Home

CURRENTLY
EXPORTING

Generating   Using   Exporting
1,346W   1,296W   50W

Last update: 3 seconds ago

SUMMARY	DAY	WEEK	MONTH
	4.60	40.60	185.33
	1.80	18.80	161.17

Home   Daily Breakdown   Data   Efficiency

Now

Track solar panels' daily energy production, electricity usage, imports and exports.

Daily Breakdown

Compare solar production to energy consumption with an info-graphic and minute level readings.

Data

Use the historic data to track generation, consumption, performance and savings.

Efficiency

Compare the energy you've generated and imported. See your renewable energy usage.

Customer Support

If you have any questions about using your Efergy Pro or if you'd like further advice on monitoring solar generation and electricity at home, please feel free to contact us or visit the website for up-to-date information, downloads and frequently asked questions.

- ⊕ Website: www.efergy.com
- ⓘ More info: www.efergy.com/efergypro
- �ⓘ Support site: www.efergy.com/efergypro/help
- 🔧 Technical support: customercare@efergy.com
- 🧳 Sales: sales@efergy.com

efergy.com/efergypro