

Page 1: **1.0 Installing a Blue Line PCM WiFi device with Plotwatt**

Page 8: **2.0 Switching to PlotWatt from a different application**

Page 16: **3.0 PlotWatt FAQ's**

1.0 Installing a Blue Line PCM WiFi device with PlotWatt

Note: You will need a Windows Machine (no Apple/MAC) and Personal WiFi Router.

If you change the name of the device during setup from the default "pcmwifi", please record the new name. Example "WIFI1"

These steps also assume the sensor has been successfully installed on the meter. If there are any questions or issues installing the sensor on the meter, or with the In-Home Display which can work simultaneously with the WiFi gateway, or anything in regards to this document or Blue Line products, please email support@blueinnovations.com

Steps to follow:



1. Go to <http://www.blueinnovations.com/Products/PCMWiFi>
- 2.

The screenshot shows a web browser window displaying the registration page for the Blue Line Energy Monitor WiFi Edition. The page has a green header with navigation links: Home, Company, Products, News, Customer Service, Retailers, Utilities, OEM. The main content area features a large image of the Energy Monitor device on the left, which shows a digital display with energy cost information: \$0.24/hr, OFF-PERK, \$0.39, and TOTAL 16° 10:32 AM. To the right of the device is a green banner with the text 'The Easy-to-Use & Easy-to-Install Energy Monitor' and a yellow starburst that says 'New WiFi Edition'. Below this banner is the text 'Works with: Plotwatt, People Power & Microsoft Hohm'. On the right side of the page, there is a 'Energy Usage at a Glance' section showing a cost of '0.39' and a line graph. Below the banner is a registration form titled 'Step 1. WiFi Registration - (Apps. Next Screen)'. The form includes fields for: *Your Name, *Email Address, *Phone Number, *Address, Address 2, *City, *State/Province, *Zip/Postal Code, and Purchased Where?. On the left side of the registration form, there is a sidebar with a list of product bundles: PowerCost Monitor - BLI 28000, PowerCost Monitor WiFi Gateway - BLI 31100 (selected), PCM WiFi with People Power, PCM WiFi with Microsoft Hohm, PCM WiFi Edition BLI-31100BUNDLE, PCM WiFi Software Download and Registration, and PowerCost Monitor - EnergyAxis Edition.


3. Register and Click on (Register & Download)
4. Select the PlotWatt Logo to Download setup.exe

Step 2. Please Choose Your Application and Thank You for your submission

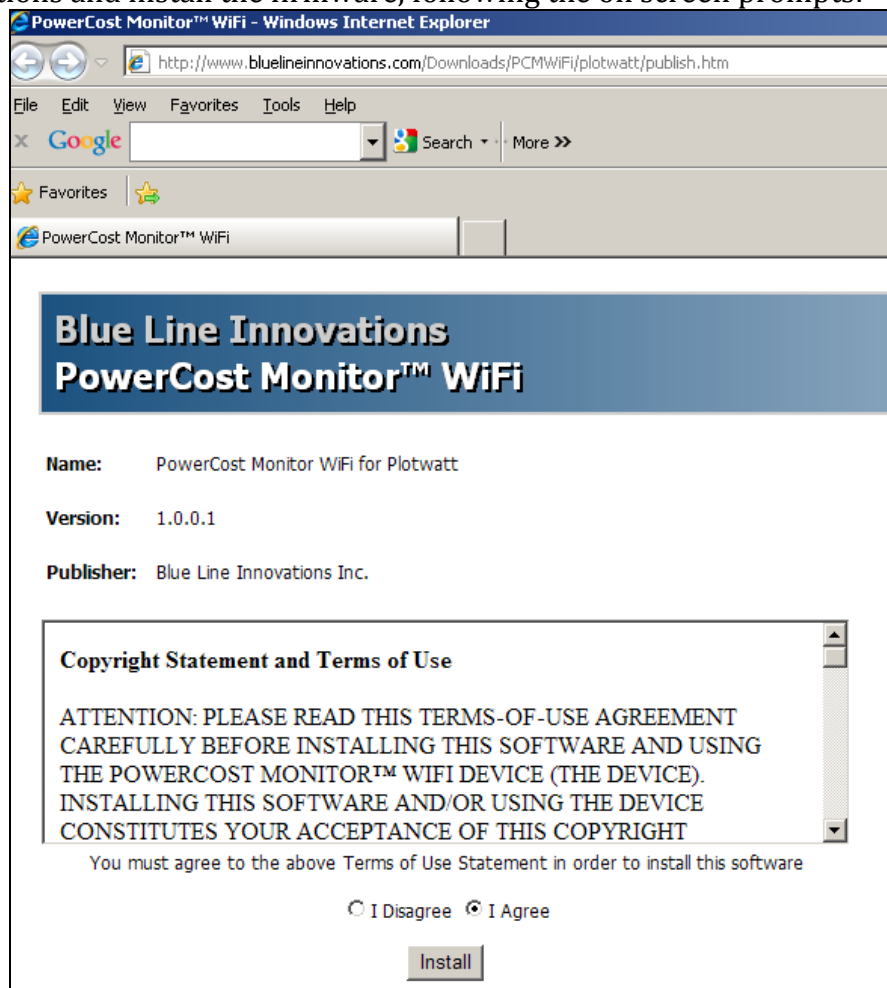
Click an icon below to start the download:



* Please ensure that you have downloaded the app. to your mobile device, created a People Power account, and received an Activation email before proceeding with the Wizard download. To be directed to the People Power application jump page, please Click [Here](#) or on the icon below.



5. This opens a new window with:
<http://www.bluelineinnovations.com/Downloads/PCMWiFi/PlotWatt/publish.htm>
6. Accept the conditions and install the firmware, following the on screen prompts:



Blue Line Innovations
PowerCost Monitor™ WiFi

Name: PowerCost Monitor WiFi for Plotwatt

Version: 1.0.0.1

Publisher: Blue Line Innovations Inc.

Copyright Statement and Terms of Use

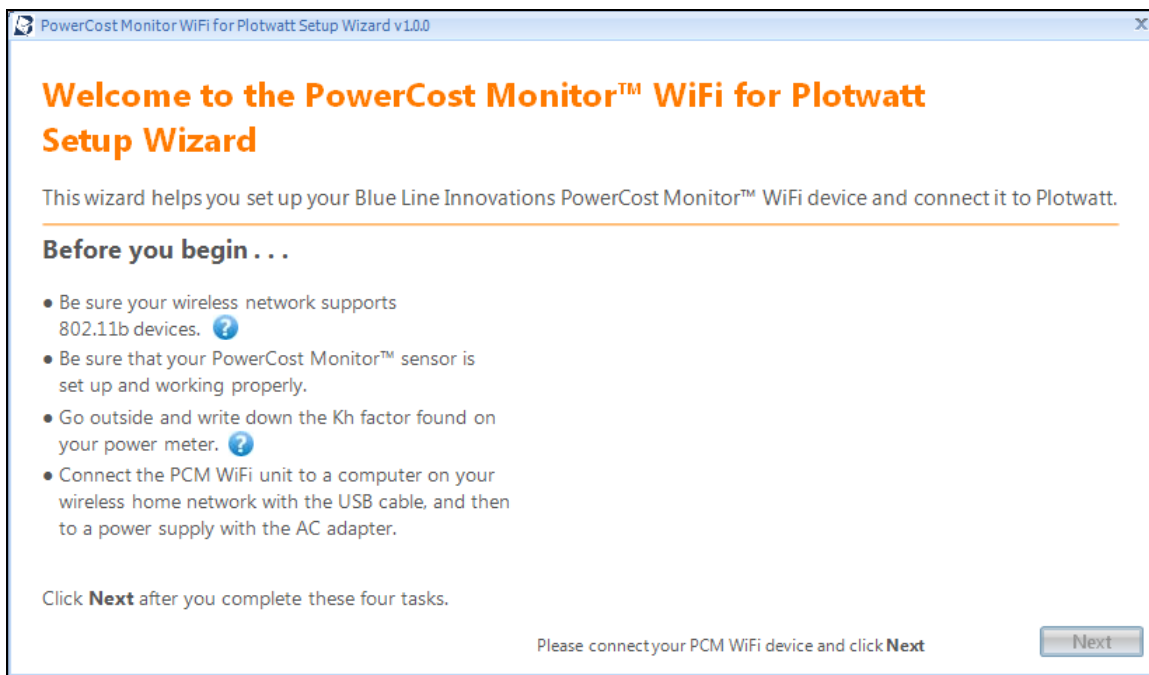
ATTENTION: PLEASE READ THIS TERMS-OF-USE AGREEMENT CAREFULLY BEFORE INSTALLING THIS SOFTWARE AND USING THE POWERCOST MONITOR™ WIFI DEVICE (THE DEVICE). INSTALLING THIS SOFTWARE AND/OR USING THE DEVICE CONSTITUTES YOUR ACCEPTANCE OF THIS COPYRIGHT

You must agree to the above Terms of Use Statement in order to install this software

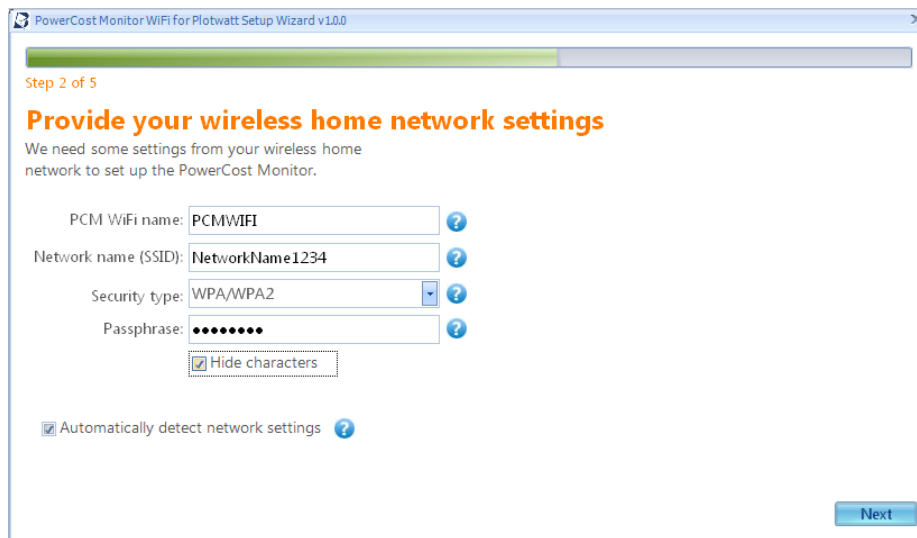
I Disagree I Agree

Install

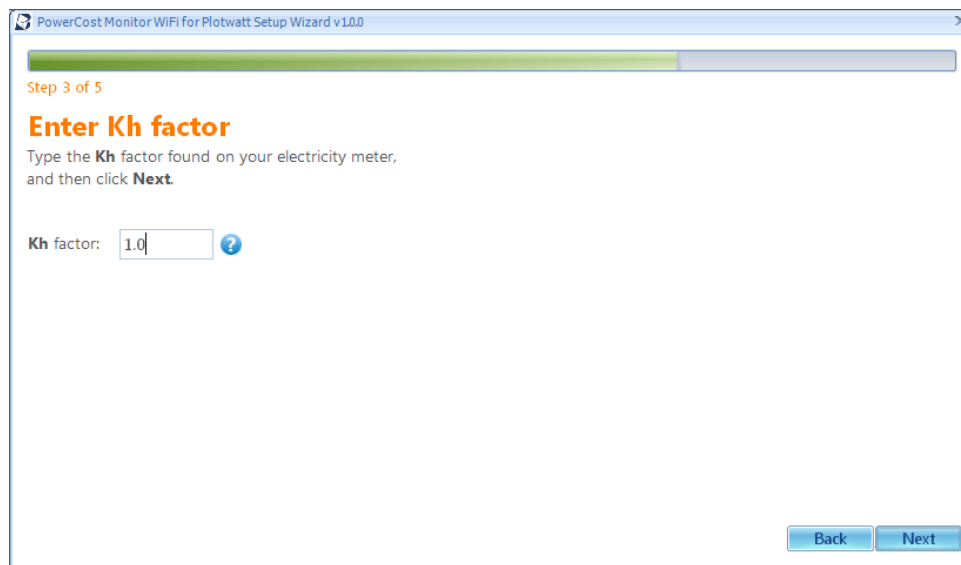
7. Connect the PowerCost Monitor WiFi to your Computer with a USB Cable.
8. Run the application on your Windows machine. (The LED on the Blue Line is alternating between Red and Green)
9. Ensure the firmware is the most recent and correct version. Follow any prompts on screen



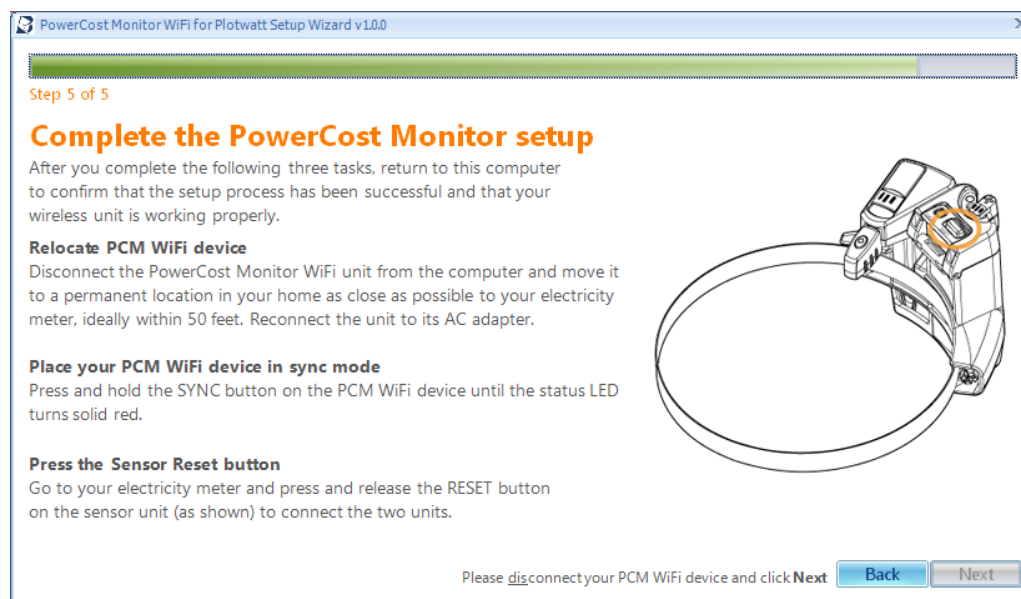
10. Set-up the PowerCost Monitor WiFi to connect with your personal WiFi network.
→ It is important that these settings be known and correct or the WiFi gateway will not connect



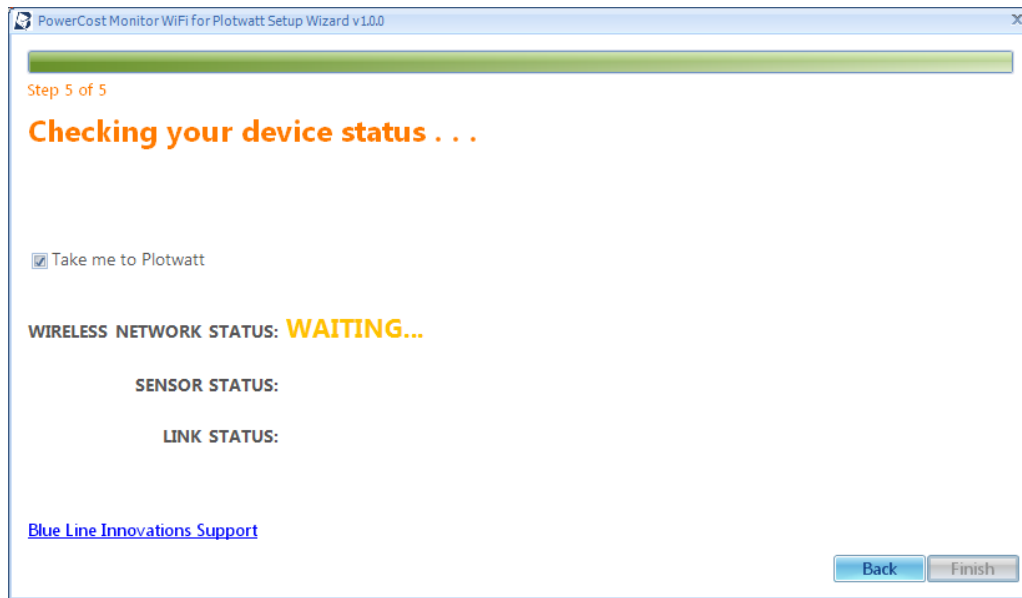
11. Set the “Kh” factor. Your meter’s power factor (Kh factor) is indicated on the face of the meter, most often next to the letters Kh (less often the letters Ks or Kt). In most cases, your meter’s power factor is 7.2 if it has dials and a spinning disk, or 1.0 if it has a digital readout.



12. Follow instructions on screen (Re-locate the WiFi and Sync it with the meter)



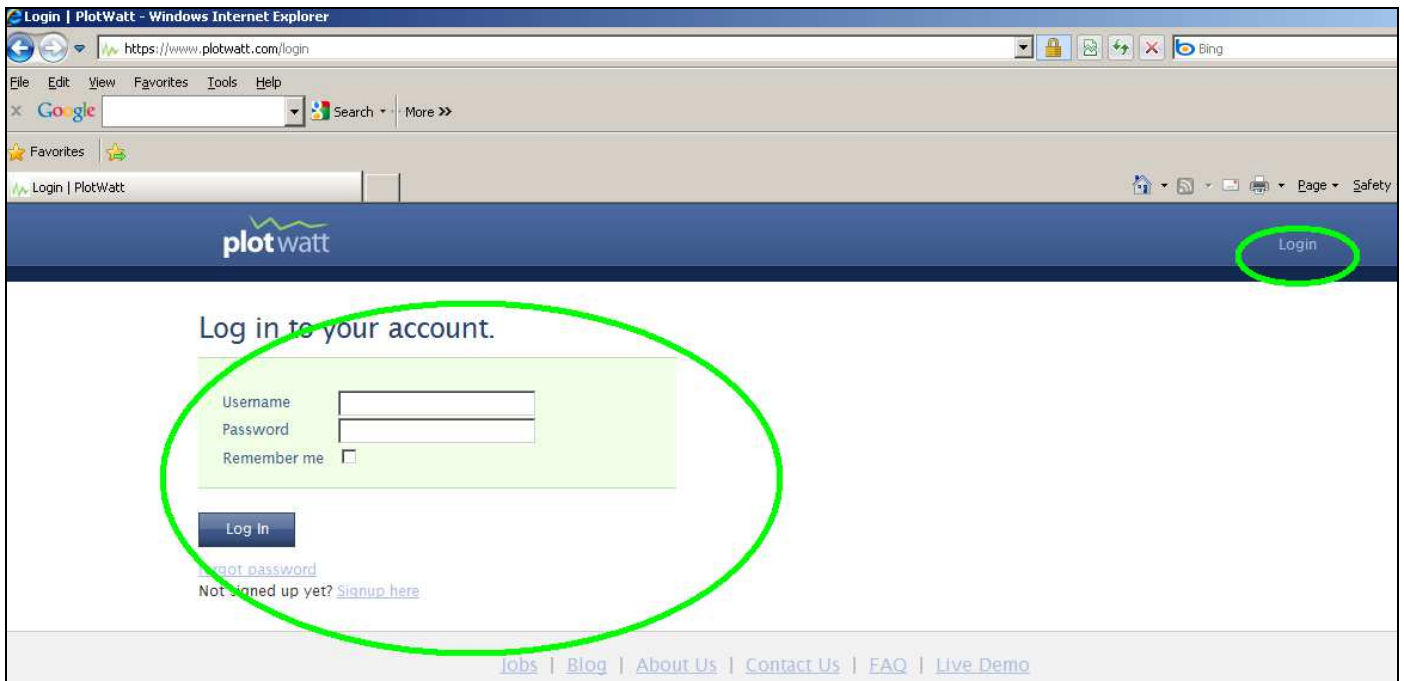
13. It will check for the Wireless Network Status, Sensor Status and Link Status



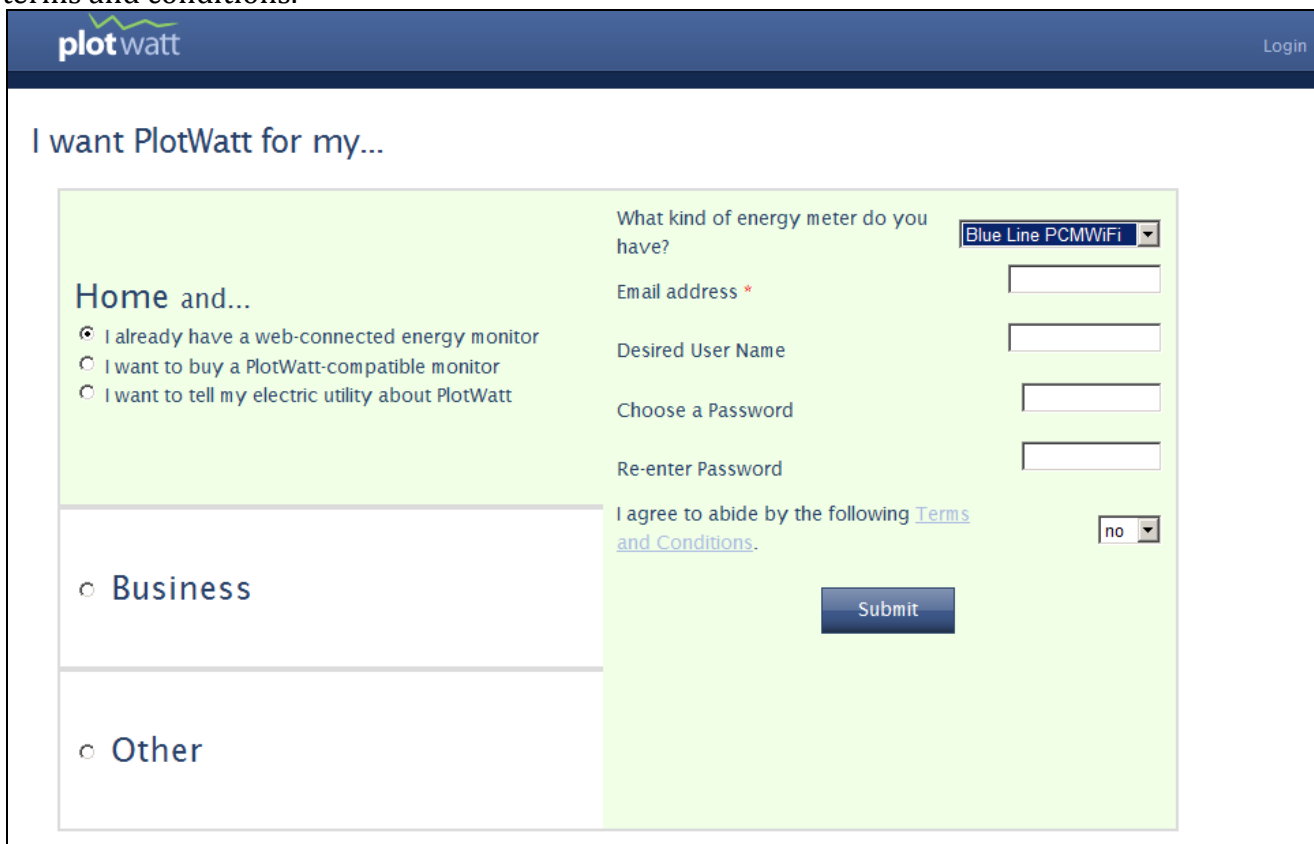
14. A clickable link will appear next to the link status to activate the device and associate in PlotWatt:



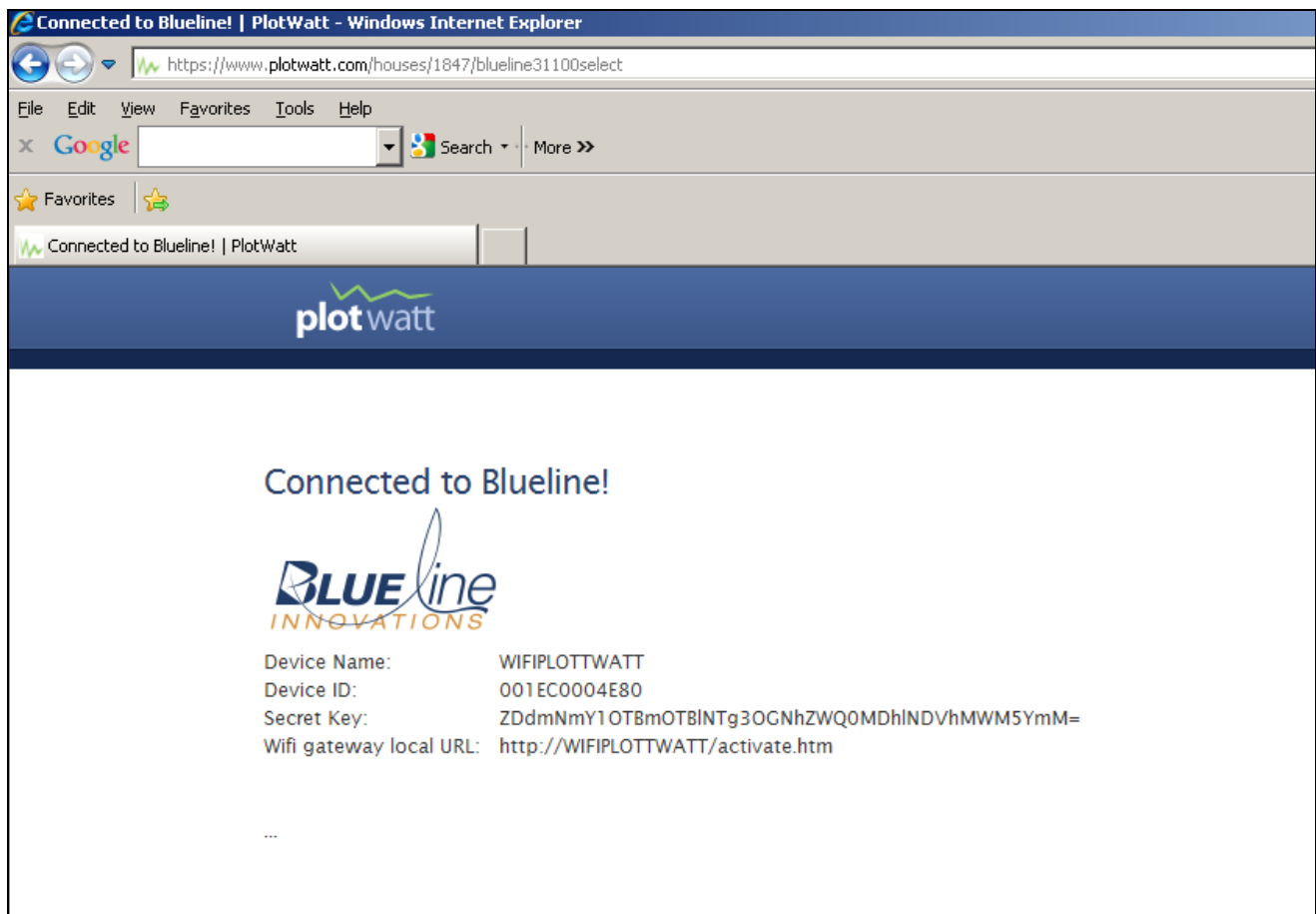
15. a) Log into PlotWatt, if you do not have an account yet simply create one:



b) If creating the account for the first time select Blue Line PCMWIFI as the energy meter option and accept the terms and conditions.

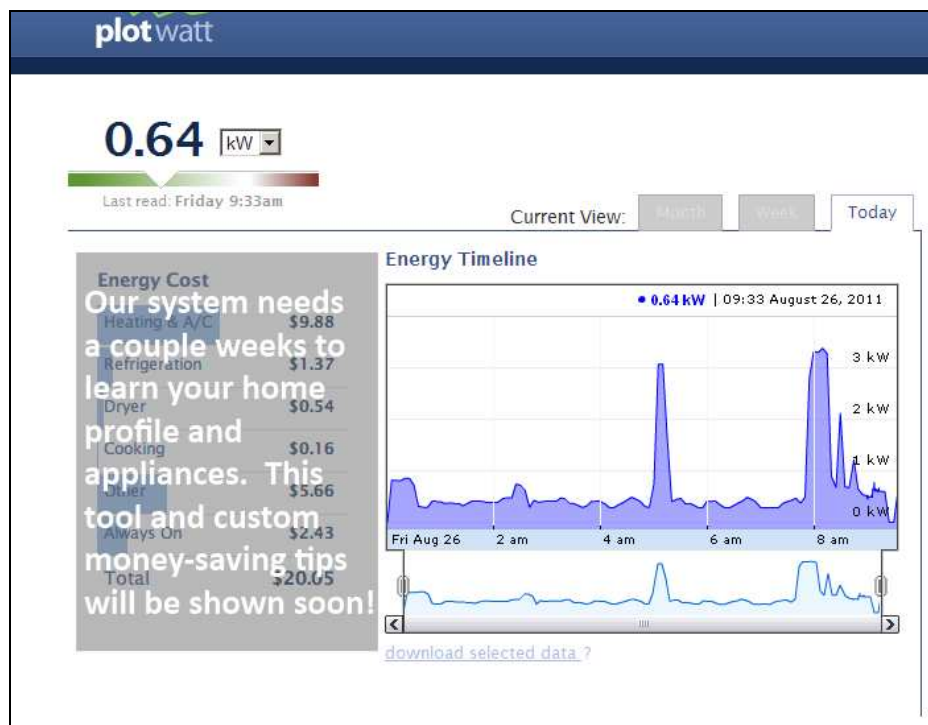


c) You will see the option to confirm activation of the device as shown below.



16. After a few minutes the values will start generating in PlotWatt, but note it may take some time for the application to calibrate to your specific house setup and appliance

→ The more information you provide in the profile section, the better the approximation and recommendations will be



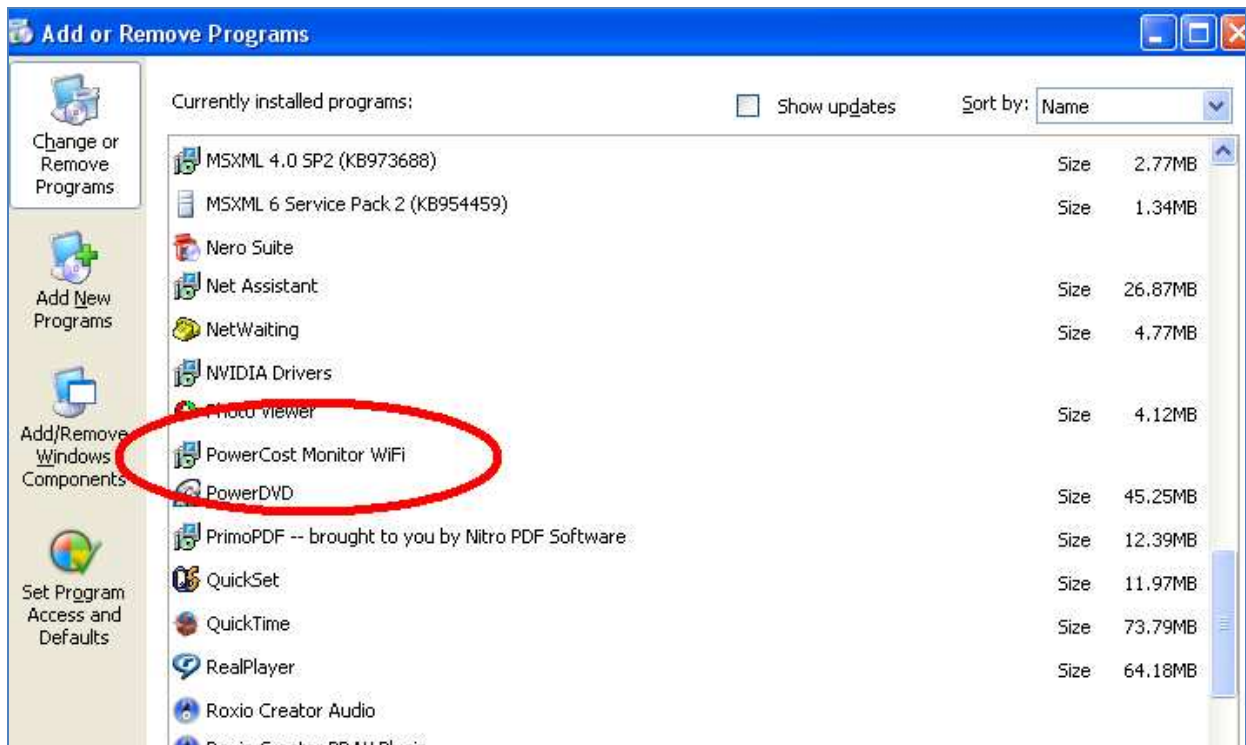
2.0 Switching to PlotWatt from a different application

Note: You will need a Windows Machine (no Apple/MAC) and Personal WiFi Router.

If you change the name of the device during setup from the default “pcmwifi”, please record the new name.
Example “WIFI1”

These steps also assume the sensor has been successfully installed on the meter. If there are any questions or issues installing the sensor on the meter, or with the In-Home Display which can work simultaneously with the WiFi gateway, or anything in regards to this document or Blue Line products, please email support@bluelineinnovations.com

1. When switching from a previous application, it is very important to uninstall any wizards still residing on your PC. To this go to Control Panel→Add/Remove Programs and select the ‘PowerCost Monitor ...’ application to uninstall:



2. Hard Reset of WiFi Gateway Device

Next we want to remove any associations that may be held in the memory of the WiFi Gateway device itself, before making new links to PlotWatt.

- With the WiFi Gateway device power by ac adapter only (no usb cable connected), press and hold the “Sync” button for between 30 – 45 seconds. Depending on the LED behaviour when you began pressing the Sync button, the LED may go off then on after ~30 seconds, or conversely, on then off, but when we remove our finger from the sync button, the LED should alternate between red/amber when not connected via usb, and then red/green when we connect the usb to the PC.

3. Then we continue as if this was a new installation

Steps to follow:

Go to the registration and download section of Blue Line’s corporate site www.bluelineinnovations.com:
<http://www.bluelineinnovations.com/Products/power-cost-energy-monitor-wifi-gateway/pcmwifi/>

Home | Company | Products | News | Customer Service | Retailers | Utilities | OEM |

The Easy-to-Use & Easy-to-Install
Energy Monitor
 Works with: **Plotwatt,**
People Power & Microsoft Hohm

New WiFi Edition

0.39 kWh
 Energy Usage at a Glance
 plotwatt

Energy Cost

Electricity	\$0.07
Water	\$0.07
Gas	\$0.71
Oil	\$0.96
Coal	\$0.30
Propane	\$0.30
Total	\$4.00

Energy Timeline

Step 1. WiFi Registration - (Apps. Next Screen)

*Your Name
 *Email Address
 *Phone Number
 *Address
 Address 2
 *City
 *State/Province
 *Zip/Postal Code
 Purchased Where?


PowerCost Monitor - BLI 28000
 PowerCost Monitor WiFi Gateway - BLI 31100
 PCM WiFi with People Power
 PCM WiFi with Microsoft Hohm
 PCM WiFi Edition BLI-31100BUNDLE
 PCM WiFi Software Download and Registration
 PowerCost Monitor - EnergyAxis Edition


4. Register and Click on (Register & Download)
5. Select the PlotWatt Logo to Download setup.exe

Step 2. Please Choose Your Application and Thank You for your submission


Click an icon below to start the download:

Microsoft®



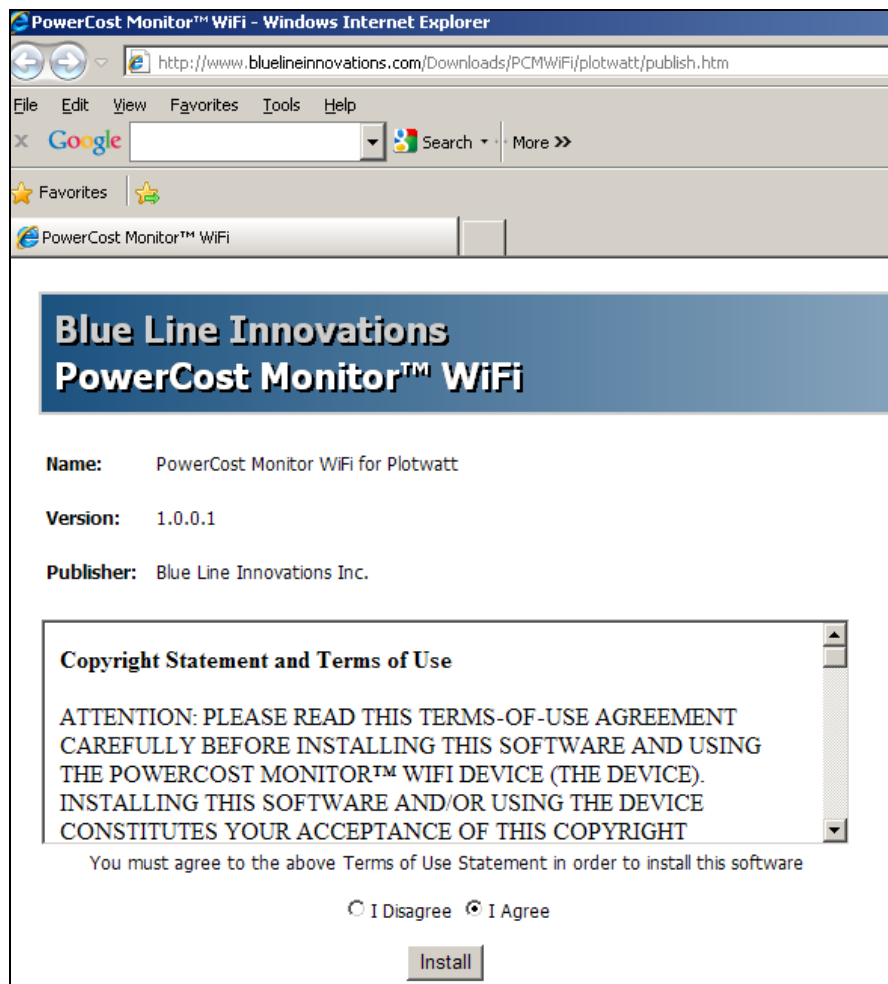


* Please ensure that you have downloaded the app. to your mobile device, created a People Power account, and received an Activation email before proceeding with the Wizard download. To be directed to the People Power application jump page, please Click [Here](#) or on the icon below.

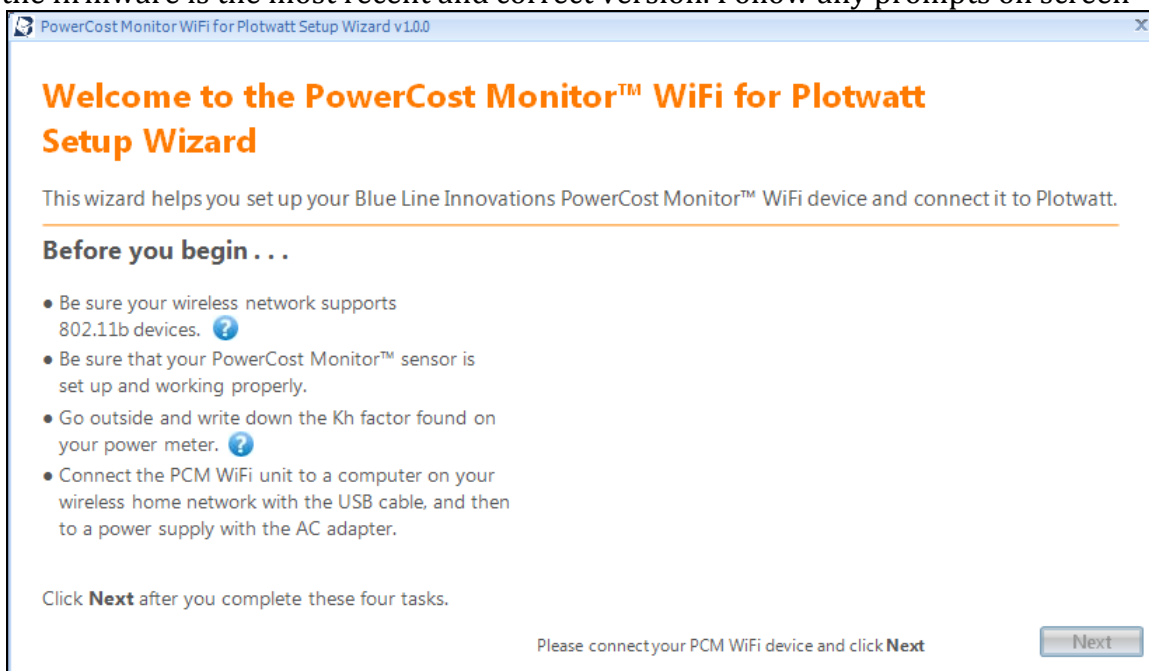


6. This opens a new window with:
<http://www.bluelineinnovations.com/Downloads/PCMWiFi/PlotWatt/publish.htm>

7. Accept the conditions and install the firmware, following the on screen prompts:



8. Connect the PowerCost Monitor WiFi to your Computer with a USB Cable.
9. Run the application on your Windows machine. (The LED on the Blue Line is alternating between Red and Green)
10. Ensure the firmware is the most recent and correct version. Follow any prompts on screen



11. Set-up the PowerCost Monitor WiFi to connect with your personal WiFi network.
→ It is important that these settings be known and correct or the WiFi gateway will not connect

PowerCost Monitor WiFi for Plotwatt Setup Wizard v1.0.0

Step 2 of 5

Provide your wireless home network settings

We need some settings from your wireless home network to set up the PowerCost Monitor.

PCM WiFi name: ?

Network name (SSID): ?

Security type: ?

Passphrase: ?

Hide characters

Automatically detect network settings ?

Next

12. Set the “Kh” factor. Your meter’s power factor (Kh factor) is indicated on the face of the meter, most often next to the letters Kh (less often the letters Ks or Kt). In most cases, your meter’s power factor is 7.2 if it has dials and a spinning disk, or 1.0 if it has a digital readout.

PowerCost Monitor WiFi for Plotwatt Setup Wizard v1.0.0

Step 3 of 5

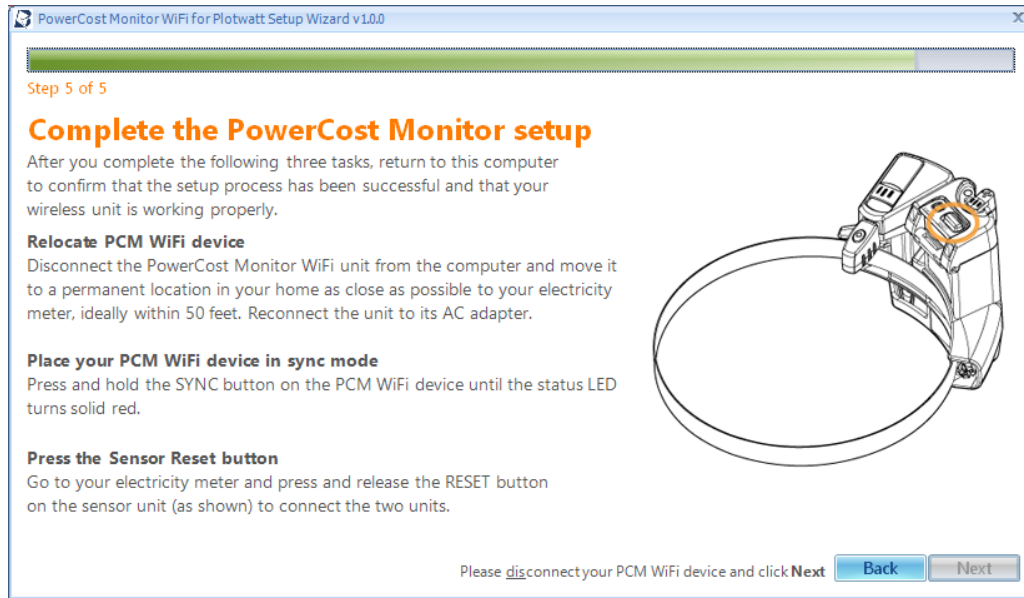
Enter Kh factor

Type the **Kh** factor found on your electricity meter, and then click **Next**.

Kh factor: ?

Back Next

13. Follow instructions on screen (Re-locate the WiFi and Sync it with the meter)



PowerCost Monitor WiFi for Plotwatt Setup Wizard v1.0.0

Step 5 of 5

Complete the PowerCost Monitor setup

After you complete the following three tasks, return to this computer to confirm that the setup process has been successful and that your wireless unit is working properly.

Relocate PCM WiFi device
Disconnect the PowerCost Monitor WiFi unit from the computer and move it to a permanent location in your home as close as possible to your electricity meter, ideally within 50 feet. Reconnect the unit to its AC adapter.

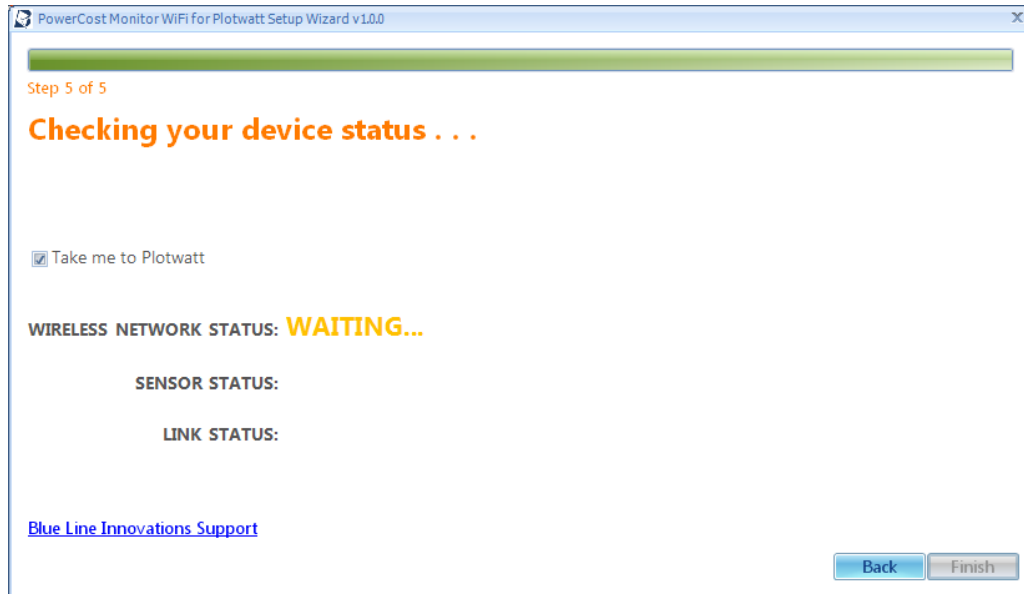
Place your PCM WiFi device in sync mode
Press and hold the SYNC button on the PCM WiFi device until the status LED turns solid red.

Press the Sensor Reset button
Go to your electricity meter and press and release the RESET button on the sensor unit (as shown) to connect the two units.

Please disconnect your PCM WiFi device and click **Next**

[Back](#) [Next](#)

14. It will check for the Wireless Network Status, Sensor Status and Link Status



PowerCost Monitor WiFi for Plotwatt Setup Wizard v1.0.0

Step 5 of 5

Checking your device status . . .

Take me to Plotwatt

WIRELESS NETWORK STATUS: WAITING...

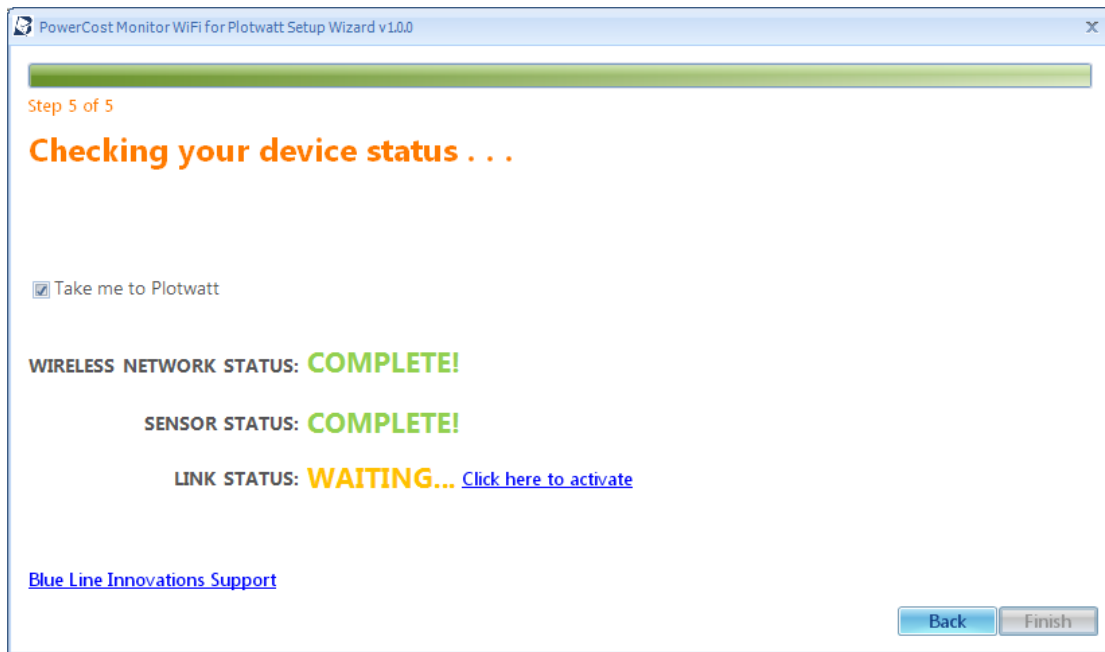
SENSOR STATUS:

LINK STATUS:

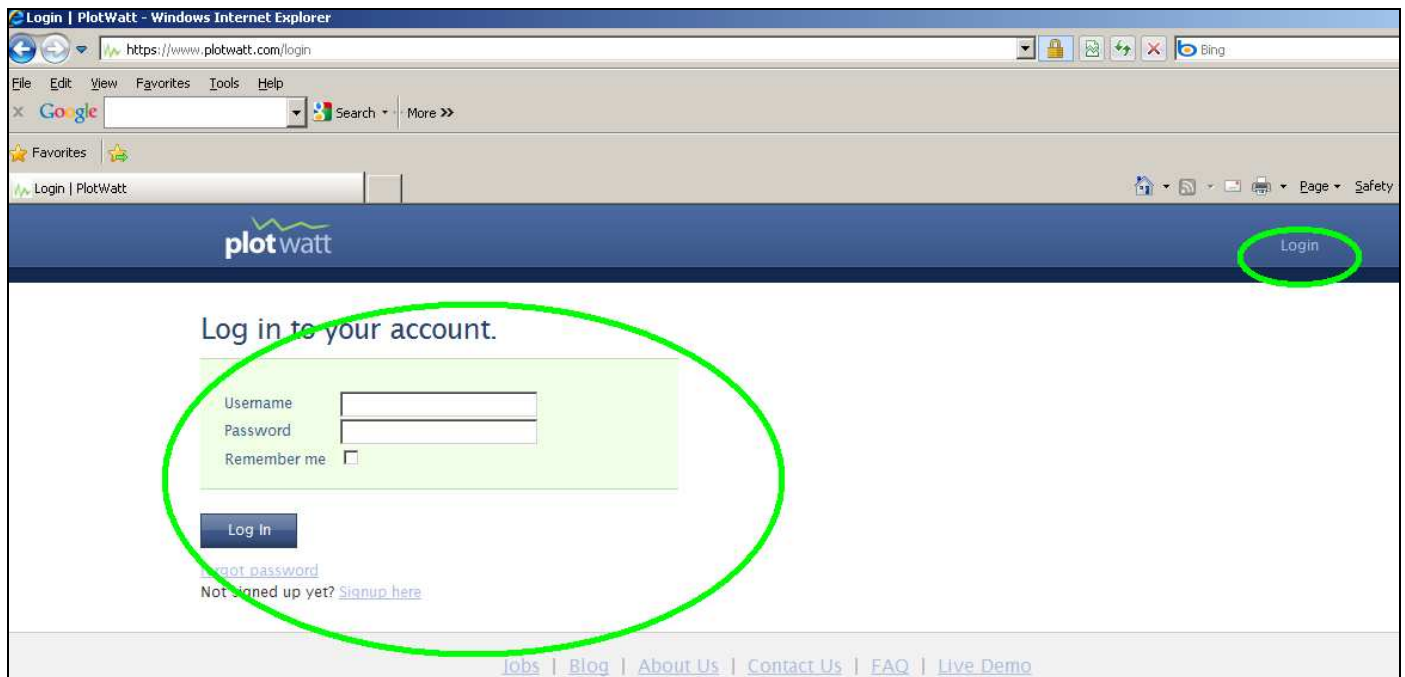
[Blue Line Innovations Support](#)

[Back](#) [Finish](#)

15. A clickable link will appear next to the link status to activate the device and associate in PlotWatt:



16. a) Log into PlotWatt, if you do not have an account yet simply create one:



b) If creating the account for the first time select Blue Line PCMWIFI as the energy meter option and accept the terms and conditions.

I want PlotWatt for my...

Home and...

- I already have a web-connected energy monitor
- I want to buy a PlotWatt-compatible monitor
- I want to tell my electric utility about PlotWatt

Business

Other

What kind of energy meter do you have?

Blue Line PCMWiFi

Email address *

Desired User Name

Choose a Password

Re-enter Password

I agree to abide by the following [Terms and Conditions](#).

no

Submit

c) You will see the option to confirm activation of the device as shown below.

Connected to Blueline! | PlotWatt - Windows Internet Explorer

https://www.plotwatt.com/houses/1847/blueline31100select

File Edit View Favorites Tools Help

Google Search More >>

Connected to Blueline! | PlotWatt

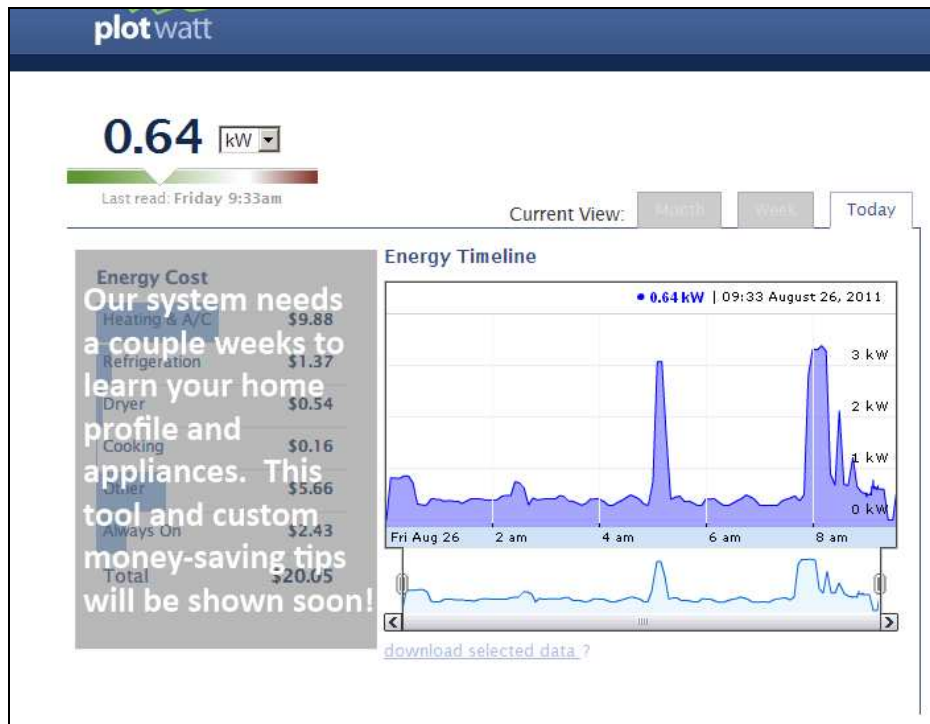
Connected to Blueline!

Device Name: WIFIPLOTTWATT
Device ID: 001EC0004E80
Secret Key: ZDdmNmY1OT8mOTBINTg3OGNhZWQ0MDhINDVhMWM5YmM=
Wifi gateway local URL: http://WIFIPLOTTWATT/activate.htm

...

17. After a few minutes the values will start generating in PlotWatt, but note it may take some time for the application to calibrate to your specific house setup and appliance

→ The more information you provide in the profile section, the better the approximation and recommendations will be



3.0 PlotWatt FAQ's

Q1) Do I need to enter any data about my appliances?

A1) No, however the more information provided in the profile section (appliances, house type/size, etc.) the clearer the picture PlotWatt can provide, and the faster it can determine you home's unique signature,

Q2) How long before I begin to see the appliance level data?

A2) It can take up to a couple weeks to get the correct aggregated data "buckets" shown as the algorithms are ensuring the patterns and usage they are receiving. That being said the vales can come in faster if the appliance and home profile is completed in detail.

Q3) Why don't I see my appliance level data in the today tab?

A3) The Today tab does not have the appliance level data as the others do as PlotWatt will calculate this data and ensure it is accurate before posting.

Q4) How accurate is this information?

A5) While the algorithm does a fantastic job in aggregated and splitting the data, if there are usage patterns that can't be specified as one type or another it may land into the always on, or Other buckets. So the overall usage is extremely accurate and the percentage assigned to each will also be an excellent approximation.

Q5) Can you give me some suggestions on how I should be using this appliance level information?

A5) PlotWatt goes way beyond the "rule-of-thumb" recommendations you hear about in the papers. Face it: your house is different from everyone else's - the things that work for them may not work for you. PlotWatt gives you specific ideas for your home, and tells you how much you'll save over time. And since our algorithms can track individual appliances, you'll have peace of mind knowing that if the freezer breaks or your heat pump runs too long, we'll help you diagnose and solve the problem before it gets out of hand.

Q6) I see a "Script" error pop up constantly?

A6) "Slow running script" errors are due to the charts as they are actually being generated by your browser and it requires a certain amount of computing power. When you access a page that has one of these charts on it, the system downloads data and a small program that processes the data. That program then runs on your machine to display the chart. When you click from "Month" to "Week" to "Today" for example, the programming running in your browser recalculates the view.

Q7) Can PlotWatt automatically turn off my appliances?

A8) No. PlotWatt believes homeowners should have control over their own stuff, but provides the info you need to make up your mind. Power to the people (not the appliances)!