TED Pro User Manual

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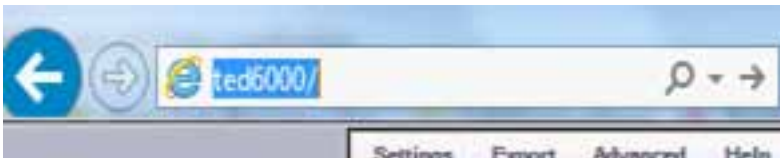
Accessing Footprints

The Footprints Dashboard is a webpage that is served from the ECC device, (not from The Energy Detective website). An internet connection is not required to access Footprints, however your computer's Internet Browser software, (Internet Explorer, Firefox, Chrome, Safari) is used to display the Footprints page and Internet access is required to take advantage of some of the system features.

Open your Browser software, in the address bar at the top of the page, type "TED6000" and select ENTER. Most Browsers will then auto-fill the remainder of the address and load the Footprints Dashboard.



If your Browser does not load the Footprints page, you can access your router to determine the IP of the ECC and type the IP into the Browser address bar. You can also download the TED Installation Utility from the TED website (see the link below) and Run the installer. This 'installer" will locate the IP of your device. (If you do not have Internet access, see Appendix A of this guide.) Select your TED device when the installer locates it on your network and select *Launch in Browser.*

TED Installer download page: http://www.theenergydetective.com/downloads-documents

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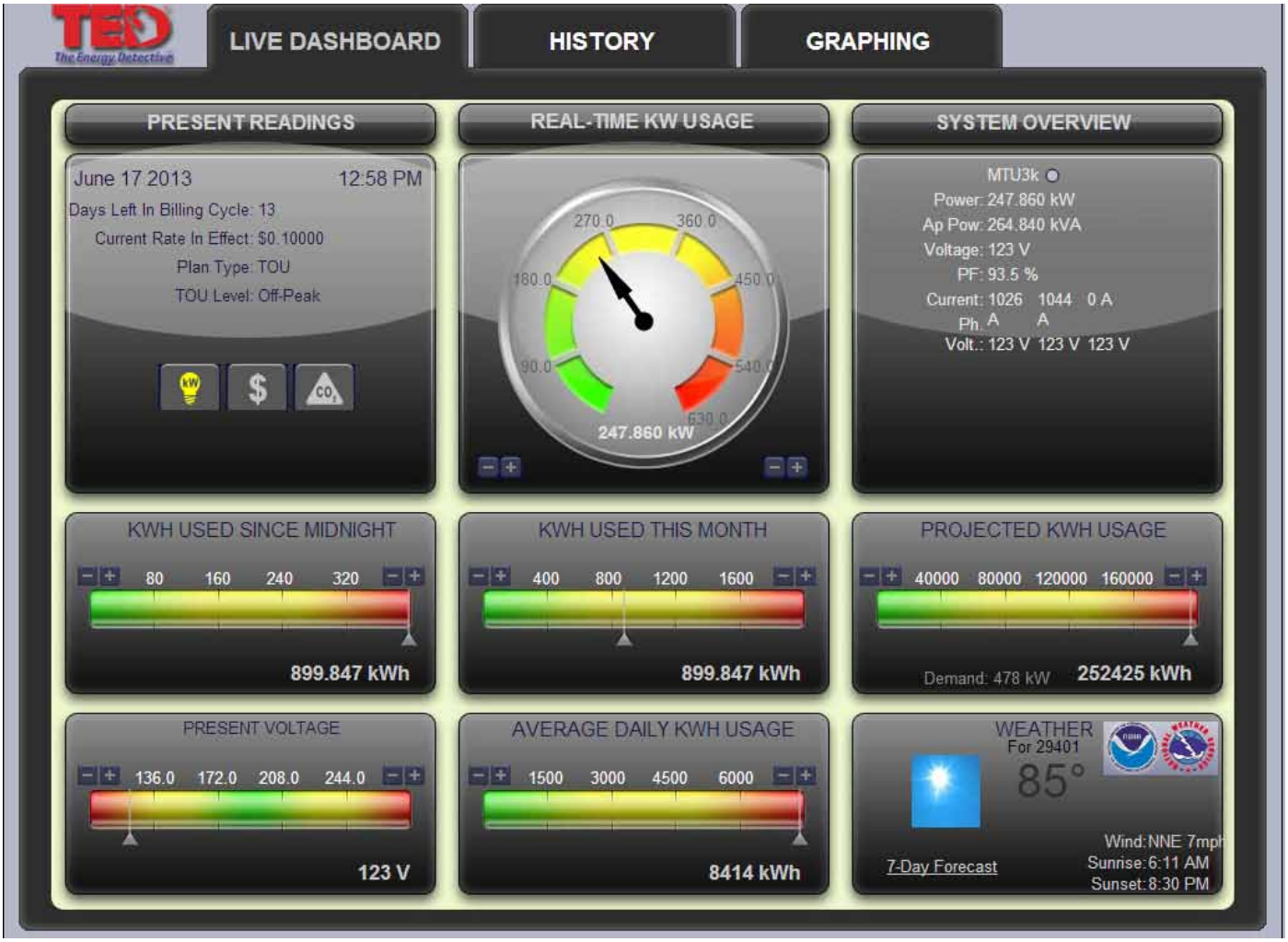
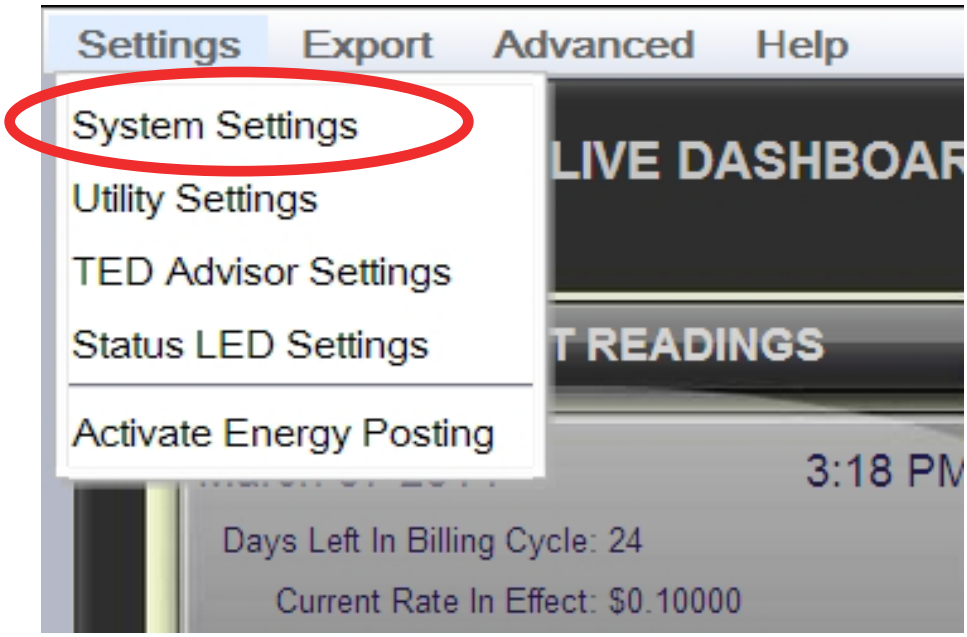
When you first open Footprints, you will see the Live Dashboard Screen. None of the data will be populated until you complete the Setup procedures described below.

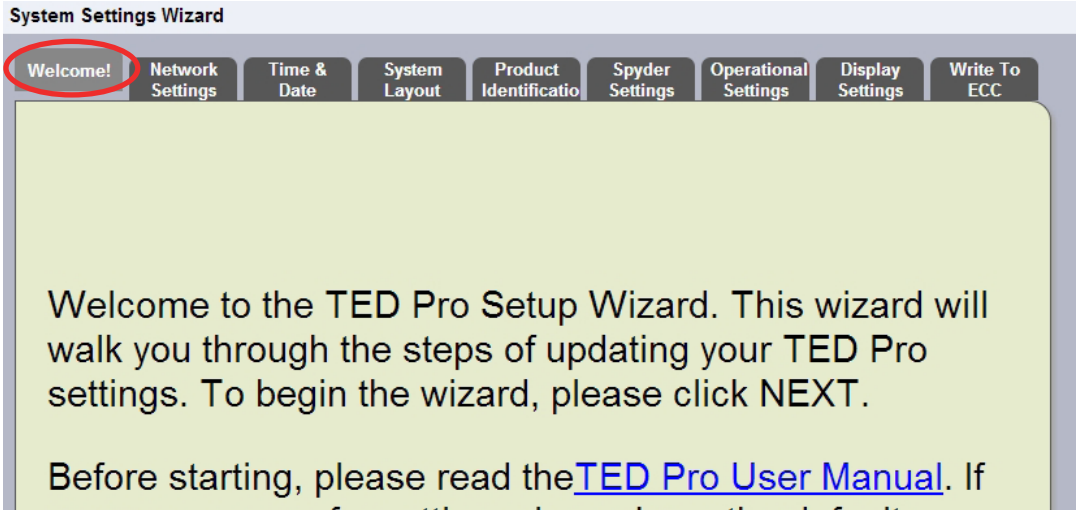


To get your system up and running, please follow these steps completely.
Under the SETTINGS tab, press System Settings as shown below to begin the Setup process.



Next you will see the Welcome screen. You can move from screen-to-screen by pressing the next/previous button or by selecting the specific TAB you want. Let's go through the screens one by one: Please note that for most users the optimum settings are already set by default. Other than the Product IDs, we highly recommend that you leave the settings as-is until you fully understand how it works and exactly what it is you want to change.

The System can be modified at any time simply by going through this System Setup Wizard.

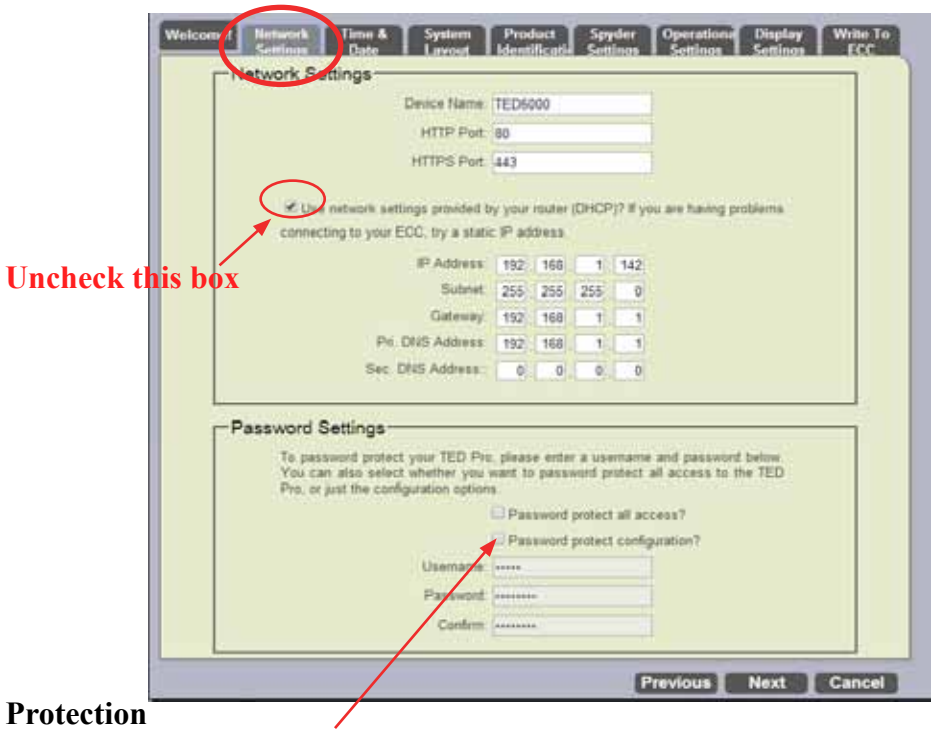


Network Settings tab

If you are connected to a standard router, you should not need to change the default settings at all.

The only change you should make is to UNCHECK the box indicated below. This will make the IP address static as assigned by your router. All of the information should auto-fill. Do not change any of these numbers.

If you are connecting directly to your computer **(not recommended)** see Appendix A.



Password Protection

To password-protect Footprints page or configuration, select the appropriate box and enter your user name and password. You will be prompted for your selections when you update the settings. (You may have to select Update again after entering your username and password.)

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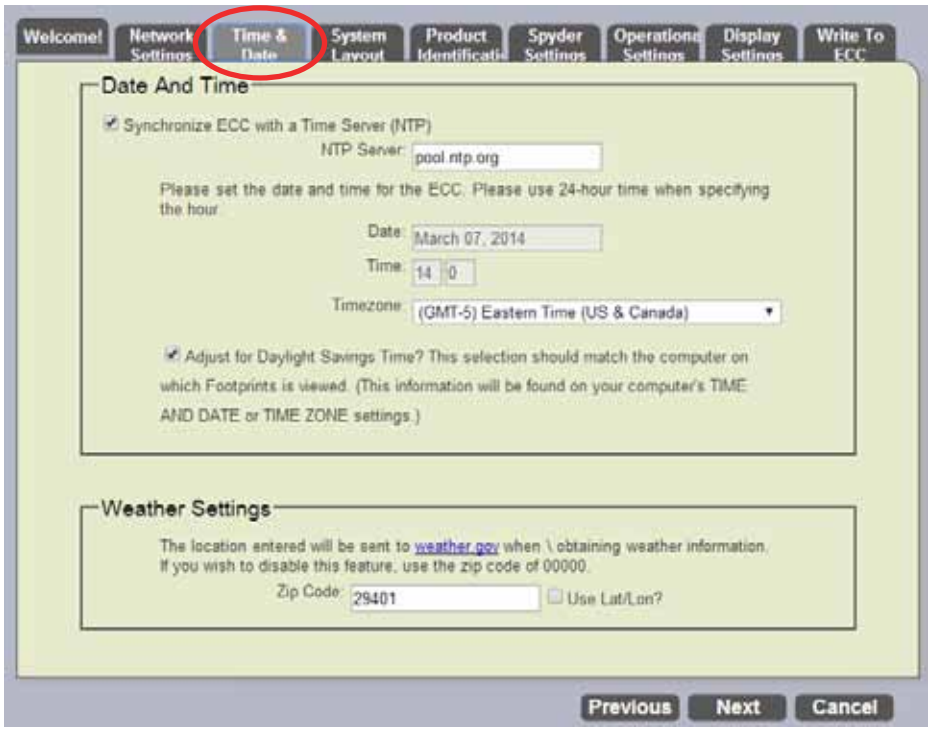
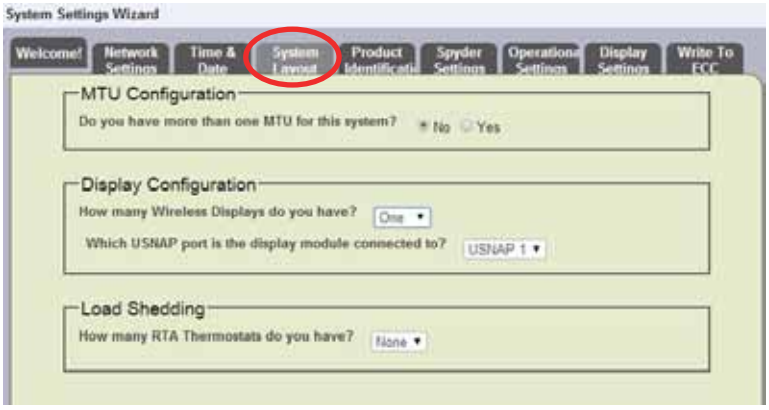
Time and Date

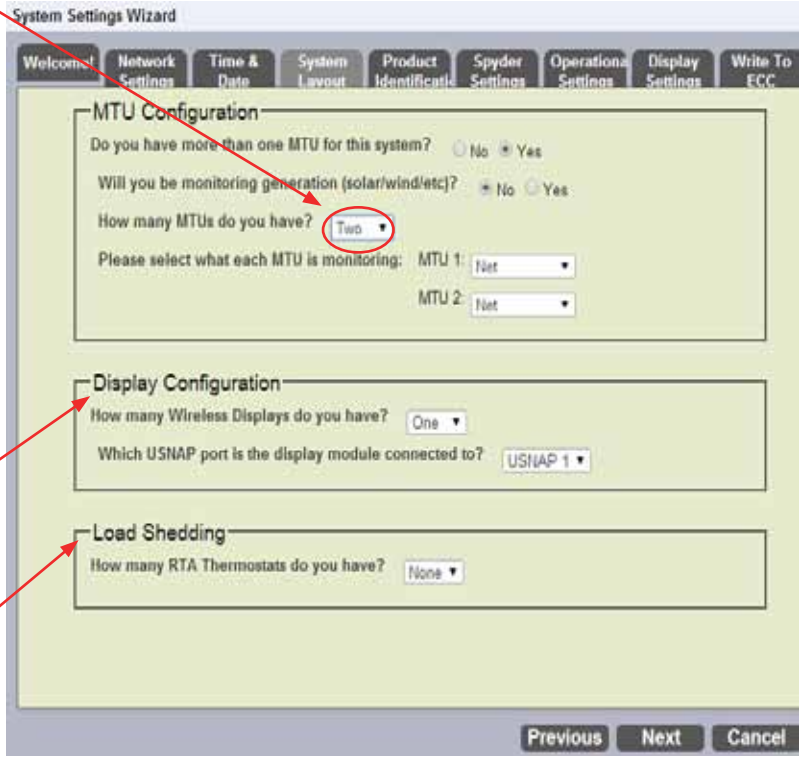
If you are connected to the Internet (through your router or local network), TED will automatically retrieve the time. If not, uncheck the box and enter the time and date. Once set, the ECC will keep track of time, even during a power failure.



System Layout

Here is where we tell TED about your installed system. If you have typical installation with one MTU, one ECC and one Display, then you won't need to change anything. If you have more than one MTU (Dual Panel or Solar/ Wind Package) then change the quantities as required.





Either USNAP 1 or USNAP 2 port may be selected for use with Wireless Display. See appendix B for USNAP installation.

If you own a Radio Thermostat thermostat (available at Home Depot), you will be able to adjust your thermostat settings via TED. If you do not own a RadioThermostat, simply leave as '0.'

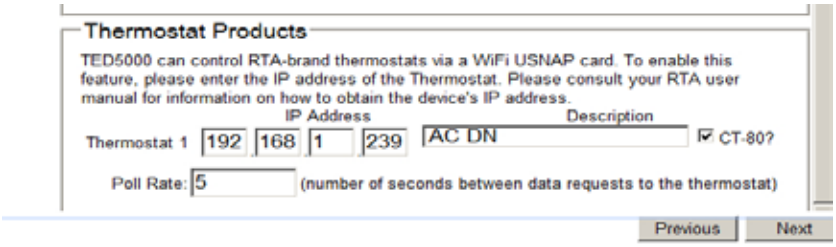
Product IDs (Extremely important)

MTU ID: Carefully type in the six digit ID numbers (serial numbers) for each MTU into the Product ID field. The IDs are labeled on the MTU case in the format 13 12 34 or 16 12 34, depending on model. If you selected more than one MTU on the previous screen, the respective number of MTU-IDs will automatically appear and require IDs.

TCP Checkbox: The TED Pro MTU has the option of TCP (Transmission Control Protocol) communication through an Ethernet connection. If you have a TED Pro MTU connected via Ethernet connection, select the TCP Checkbox beside this MTU ID and enter the IP address of the MTU. If you do not know the MTU IP address, it can be determined by running the TED Installation utility, http://www.theenergydetective.com/downloads-documents, or accessing the router's DHCP client list. (If MTUs are communicating through the power lines to the ECC, do not check the TCP checkbox. TCP option is not available on PRO Lite or Pro Home MTUs.)

DISPLAY ID: If you have an optional Wireless Display, you will need to enter the ID number. Hold the button on the Display for 30 seconds to enter the settings menu. The Wireless Display ID will be in the format 30 12 34. Carefully enter the number into Product ID field. If you have a Wired display that connects to the back of the ECC, no ID number needs to be recorded in the Display Product ID field.

If you have a 3M- or RadioThermostat-brand thermostat and wish to tie it(them) into TED, refer to your RadioThermostat Instruction Manual to sync with TED.



SPYDER

The Spyder is an optional add-on component for TED Pro, which allows for the monitoring of branch circuits within an electrical panel. The Spyder behaves differently from an MTU, in that it does **not** record SECOND-data; it does record MINUTE, HOUR, etc. Each 'leg' of data is stored independently and can be viewed on the Spyder Summary, graphs, historically, or exported.

We highly recommend that you read the entire section on the Spyder setup so that you have a good understanding of the procedures and how it will work.

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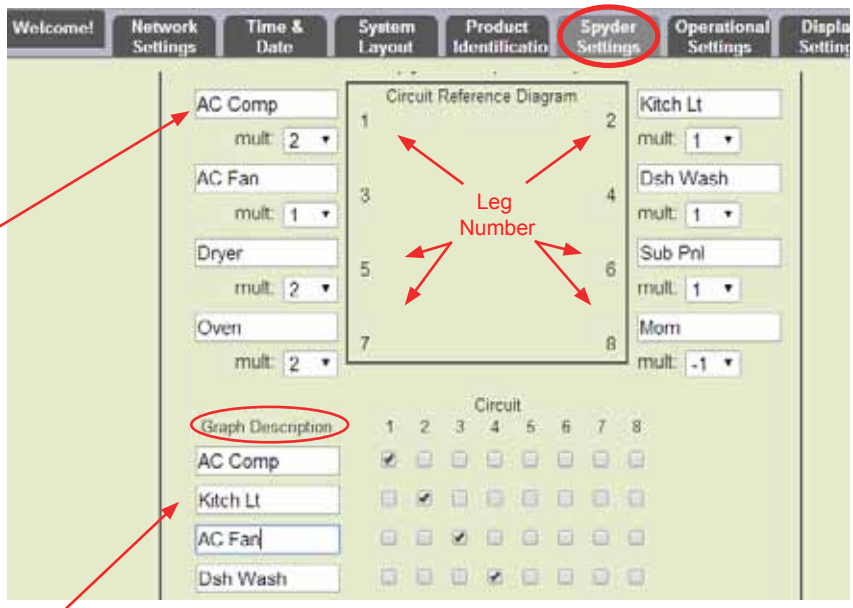
When installing the Spyder in your electric panel, it is vital that you make note of the circuit that each CT is connected to. Once the Spyder is installed, you will **name** the corresponding leg-connection.

Leg number 1 must correspond with the same leg number as shown in the picture here. Note on the Spyder (image below) that each 'leg' is numbered.

Naming your Spyder legs in the Reference Diagram is purely for your reference, to help you remember what Circuit each CT is connected to.



The names that you input under the "Graph Description" will appear in the Spyder Summary, Graphs, Export, etc. You may desire to simply use the names from the Reference Diagram above as your Graph Descriptions, however, if you GROUP some of the legs to arrive at a composite measurement, you may desire to have a totally different name. See GROUPING section below for more details.

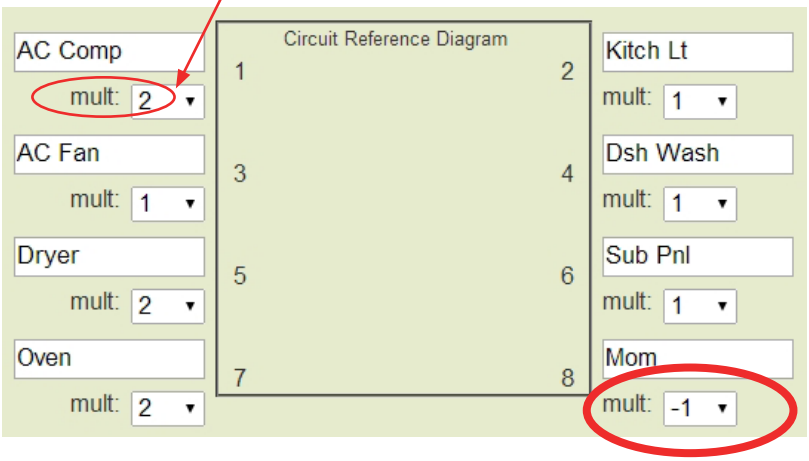
MULT (multiplier)

The multiplier can be changed, depending on the type circuit you have connected the CT to. If it is a regular single-pole breaker, 110V circuit, you would leave the default of 1 selected. If the CT has been installed around one leg of a 240V 2-pole breaker (like an AC compressor as shown on Leg 1 above), you have the option of either a) using a single CT and changing the Multiplier to "2", or b) use a second CT to connect to the second leg - in which case you would leave each multiplier set to "1." The loads are generally balanced in a residence, and you would be fine using a single CT on a 2- or 3-pole breaker and setting the multiplier at a 2 or 3, whichever is appropriate. However, in a commercial or industrial setting, it would be wise to measure the circuit to determine whether it is balanced or not.

Using a Negative Multiplier

If you wanted to subtract a circuit from the Spyder total, you would use a negative multiplier. For example, if you had a Mother-in-Law suite that you wanted to separate from the rest of the loads, you would simply change the multiplier to a "-1."

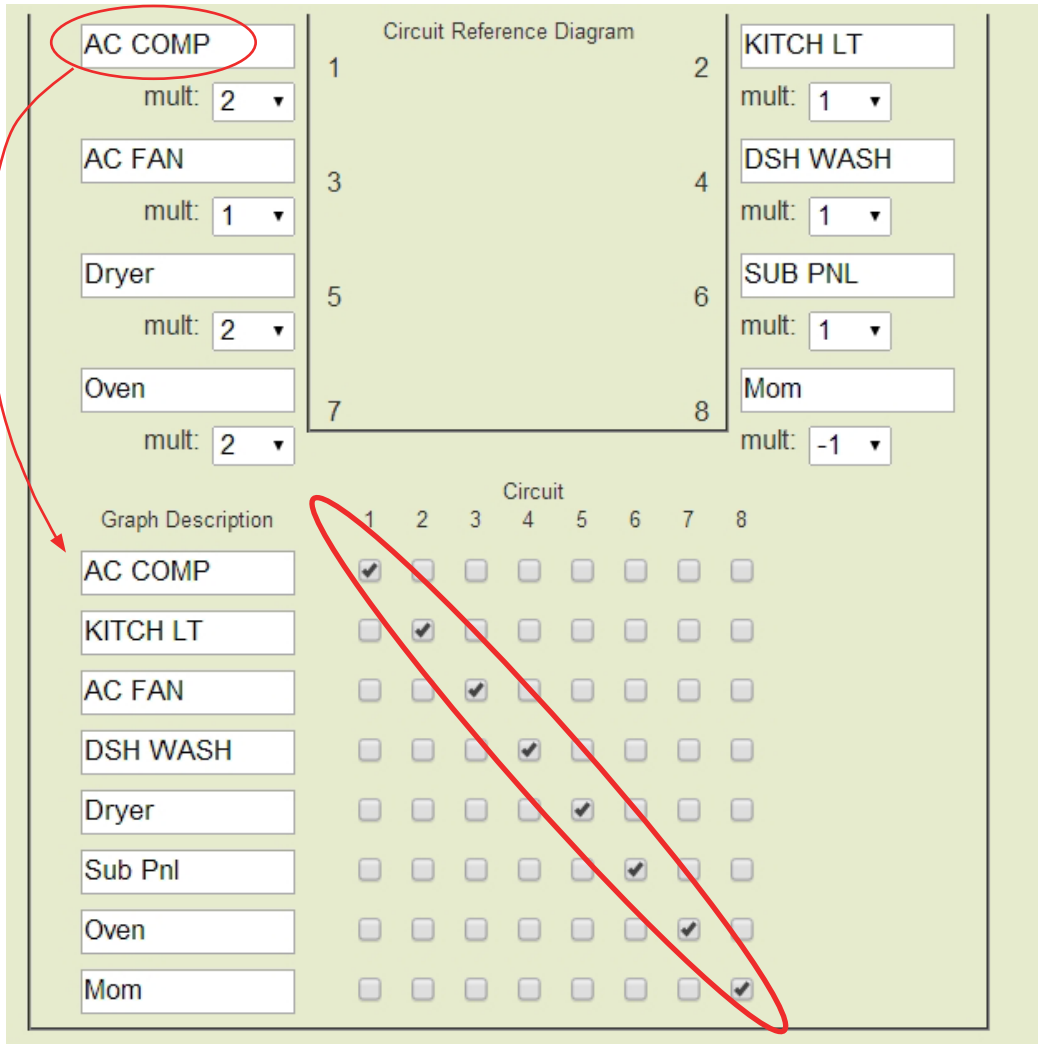
You would do the same thing if you had a sub-panel you didn't want to include. Change the multiplier to "-1."



SOLAR and MULT

If you use a Spyder leg to monitor your SOLAR/WIND **PRODUCTION**, the multiplier *must* be changed to a NEGATIVE number.

We recommend checking the boxes diagonally as it relates to the Circuit indicated above the boxes.
THEN, take the names from the Circuit Reference Diagram and list them down the Graph Description column.



GROUPING Spyder Legs

As previously noted, it is possible to group Spyder legs. Grouping legs gives you many options. The only drawback to grouping Spyder legs is that it takes up a memory location(s) within TED. Each Spyder has 8 allocated memory locations. You can use the 8 locations to store data from the eight individual CTs that you connected - as shown above.

For example, most air conditioning systems have two components - the compressor and the fan (or blower). If you want to see what your *entire* AC system costs, you would need to combine the compressor with the fan. In the example to the right, you will see that we have changed the 2nd slot to read "AC All" and selected Circuits 1 and 3 to be a group, and moved "Kitch Lt" down a line.
In this example, you will see that we no longer have the "AC Fan" as a line-item, so it will not show up on any graphs, history, etc. We have "AC All" in the space where 'AC Fan' was - so that is what will appear in the Graphs, History, etc. Notice that 'AC Fan' leg in the Circuit Reference Design remains on leg 3. You can calculate what the AC Fan load is by subtracting the "AC Comp" from the "AC All."

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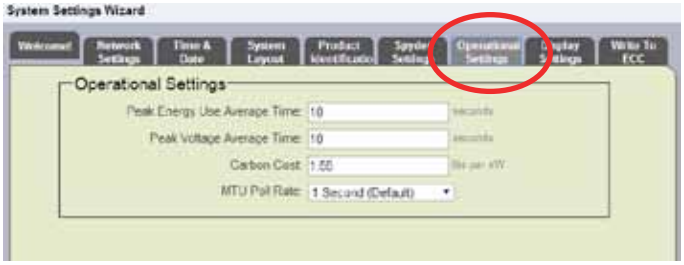
A few miscellaneous comments regarding the Spyder:

- You can use a leg in as many Groups as you wish;
- You can have as many legs in a Group as you wish;
- A single MTU can accommodate two Spyders.
- You can not add a leg from Spyder 1 to be in a Group in Spyder 2;
- Spyder second-data is not recorded (minute, hour, day, etc. are recorded)
- Leg-loads less than 150 Watts will be less accurate.
- Spyder-data can be exported to CSV-file (Excel) at any time

SPACE RESERVED FOR TAB-IMAGES

Operational Settings

These settings control how often information is updated in the system.



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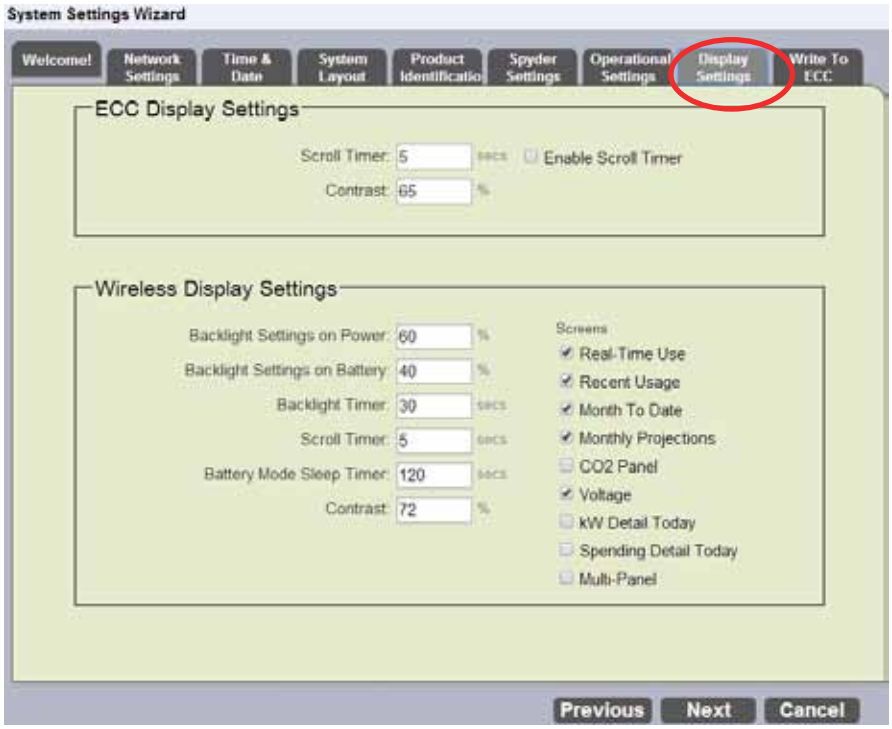
Display Setting

Your Wireless Display is very flexible; you can adjust the backlight, sleep and scroll settings, you can also select which screens to display. You can check one, any, or all of them depending on which information is important to you. The following choices apply to the optional Wireless Display.



See page 17 of the User's Manual for additional Footprints and graphing options available under the Advanced tab on the Dashboard.

Write to Device

Like any software program, you need to save the changes you made. Changes will be applied when you click the Update button.

Update

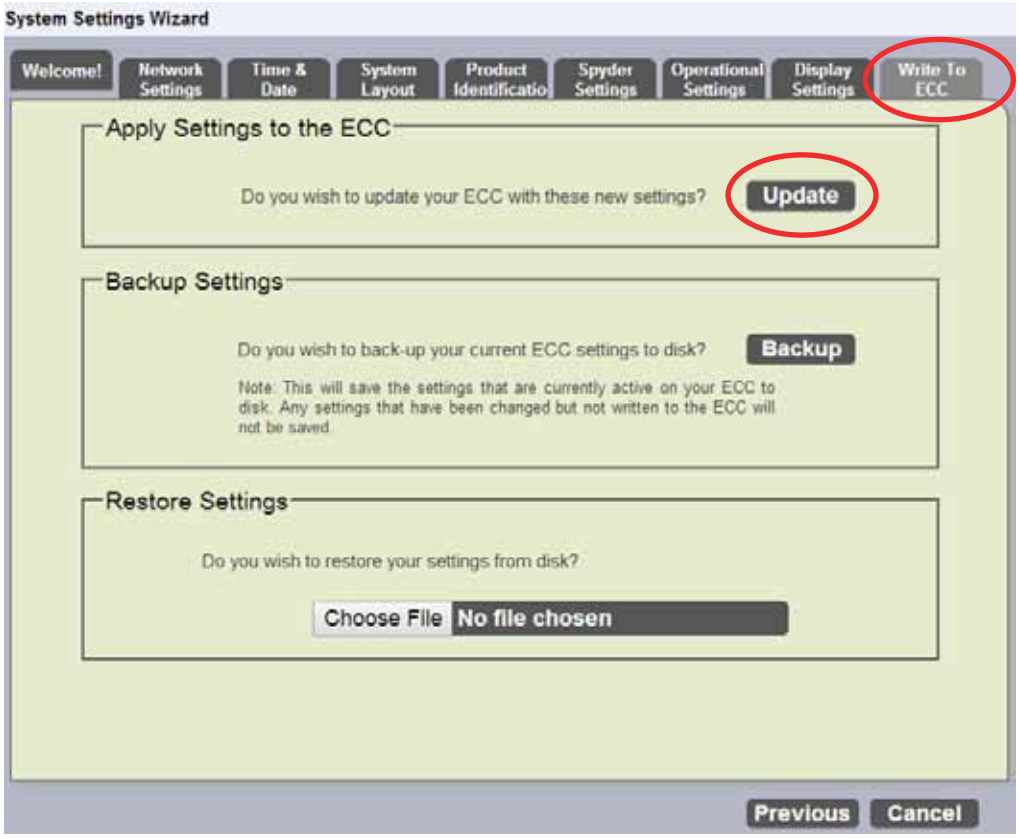
You will use this function *every time* you make a change to your TED Pro system. This will update the changes you make and save them to the ECC.

Backup Settings

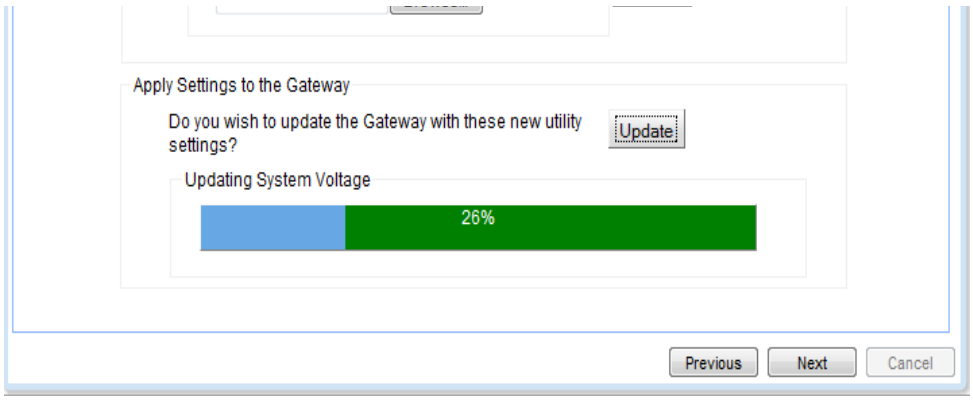
Before updating changes, you can save the previous settings to a file on your PC. (Recommended)

Restore Settings

You can restore settings that you previously saved to a file on your PC. The restored settings will be applied when the Update button is selected.



After pressing UPDATE, the progress bar will indicate that it is writing the data to the ECC.



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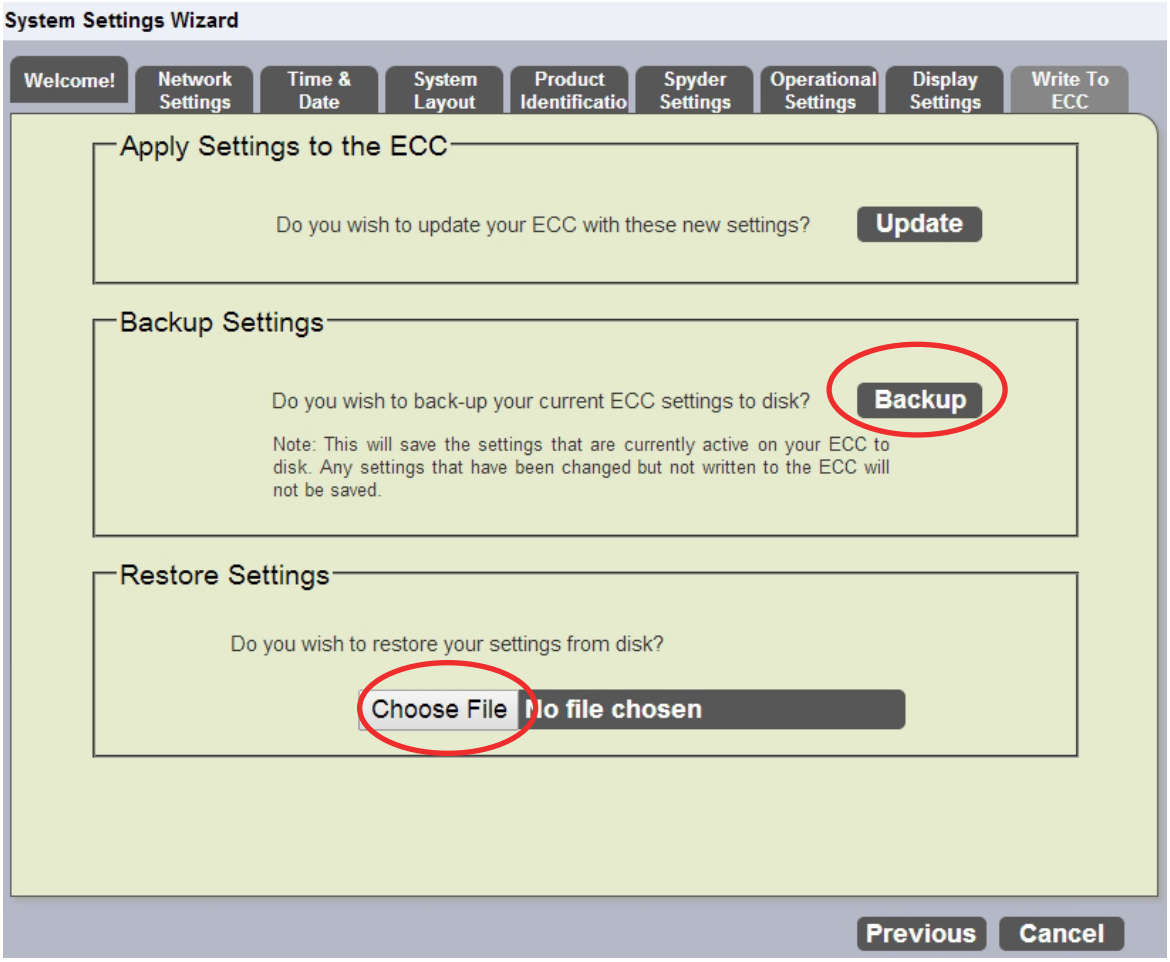
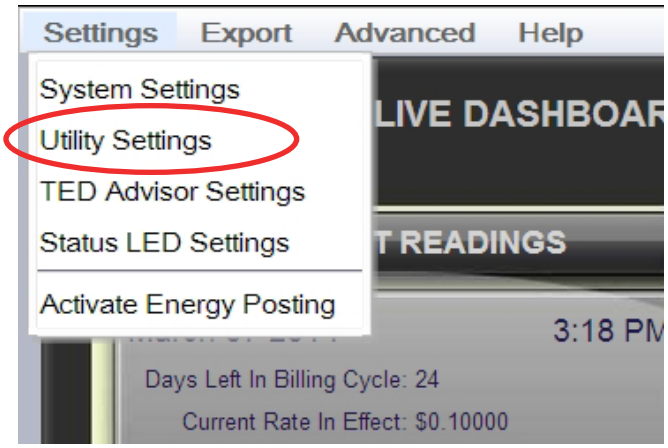
Wait for the progress bar to read 100%, then you press Finish. Footprints will then refresh your browser and the system will begin operation with your new settings. You may make changes to the Settings at any time.

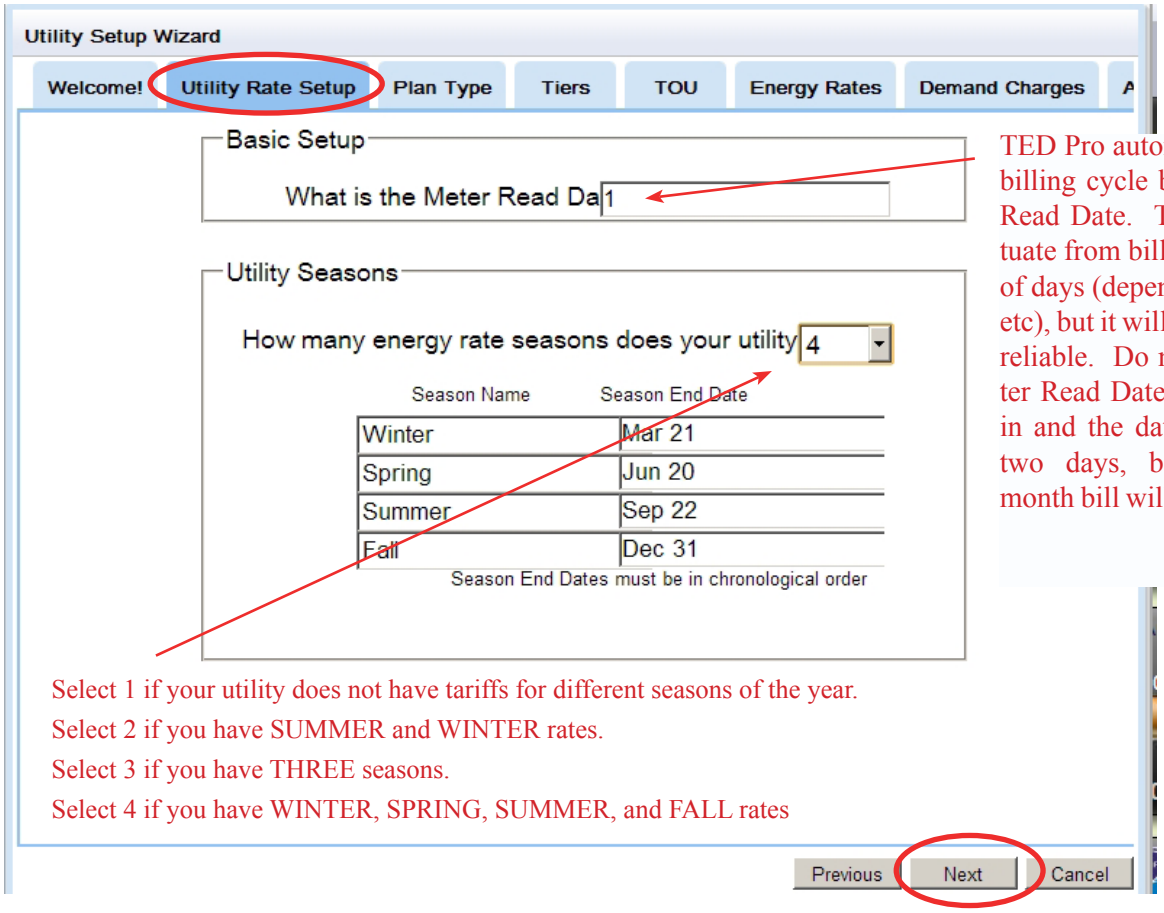


See page 21 of the User's Manual for additional Footprints and graphing options available under the Advanced tab on the Dashboard.

Utility Settings Wizard

These settings affect the **rate calculations** of your TED Pro system. It would be most helpful to have your most recent electric bill handy for this.





TED Pro automatically resets the billing cycle based on the Meter Read Date. This date may fluctuate from bill-to-bill by a couple of days (depending on weekends, etc), but it will generally be pretty reliable. Do not change the Meter Read Date if your bill comes in and the date is off by one or two days, because your next month bill will likely adjust for it.

Select 1 if your utility does not have tariffs for different seasons of the year.
Select 2 if you have SUMMER and WINTER rates.
Select 3 if you have THREE seasons.
Select 4 if you have WINTER, SPRING, SUMMER, and FALL rates

Select NEXT after making your selection

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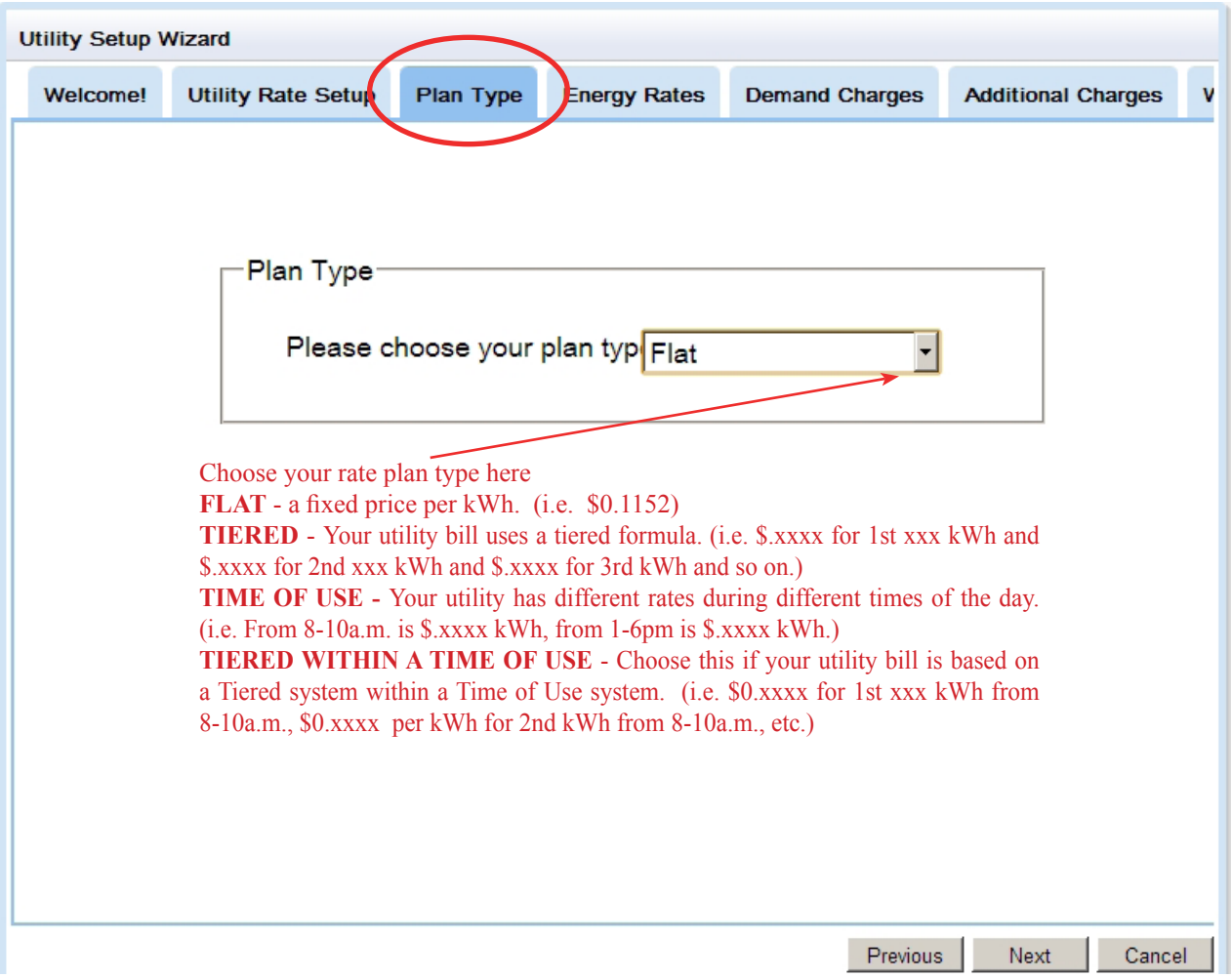
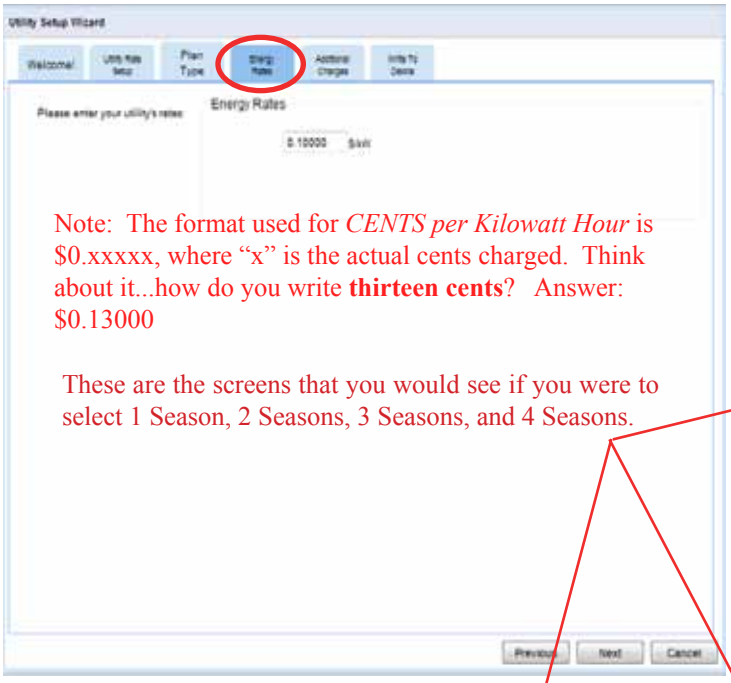


Choose your rate plan type here
FLAT - a fixed price per kWh. (i.e. $0.1152)
TIERED - Your utility bill uses a tiered formula. (i.e. $.xxxx for 1st xxx kWh and $.xxxx for 2nd xxx kWh and $.xxxx for 3rd kWh and so on.)
TIME OF USE - Your utility has different rates during different times of the day. (i.e. From 8-10a.m. is $.xxxx kWh, from 1-6pm is $.xxxx kWh.)
TIERED WITHIN A TIME OF USE - Choose this if your utility bill is based on a Tiered system within a Time of Use system. (i.e. $0.xxxx for 1st xxx kWh from 8-10a.m., $0.xxxx per kWh for 2nd kWh from 8-10a.m., etc.)

Select NEXT after making your selection

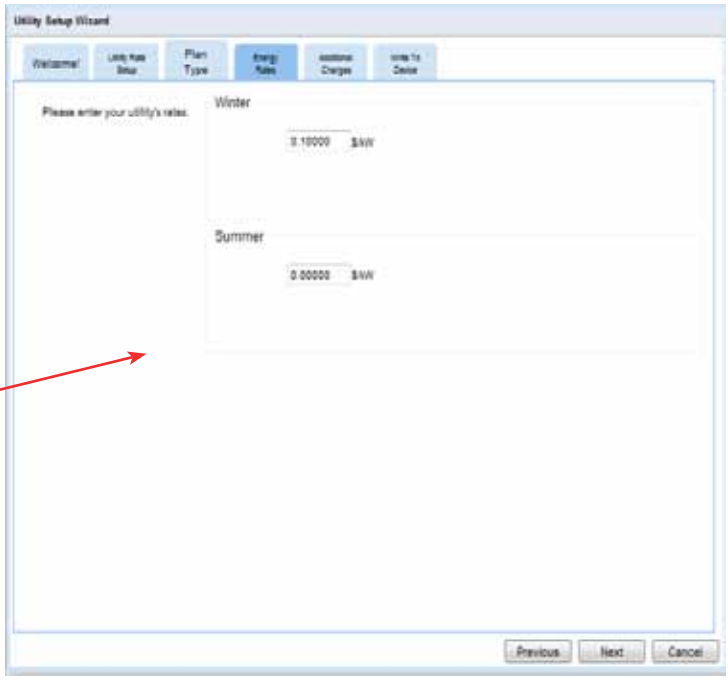
The Rate Plan Type selected will determine what the next screen will show

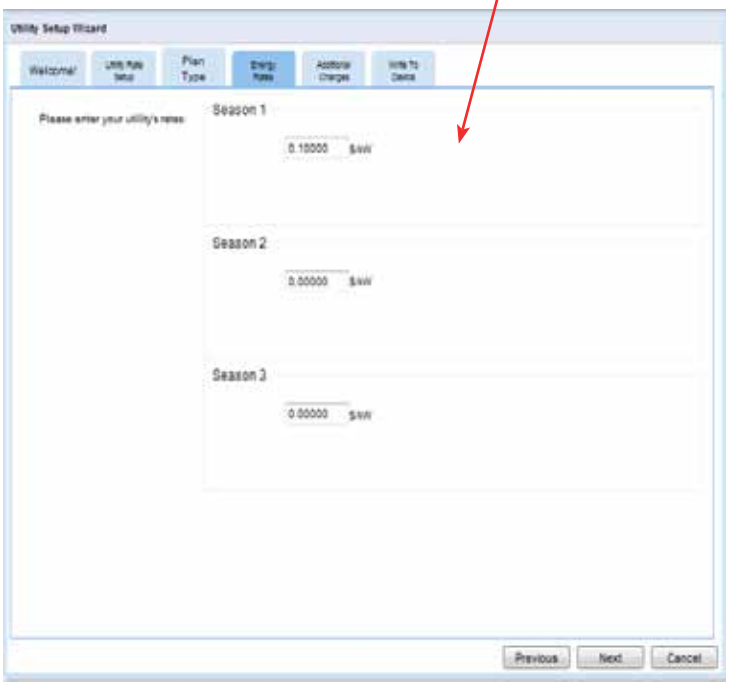
Screen Samples showing FLAT RATE with SEASONS

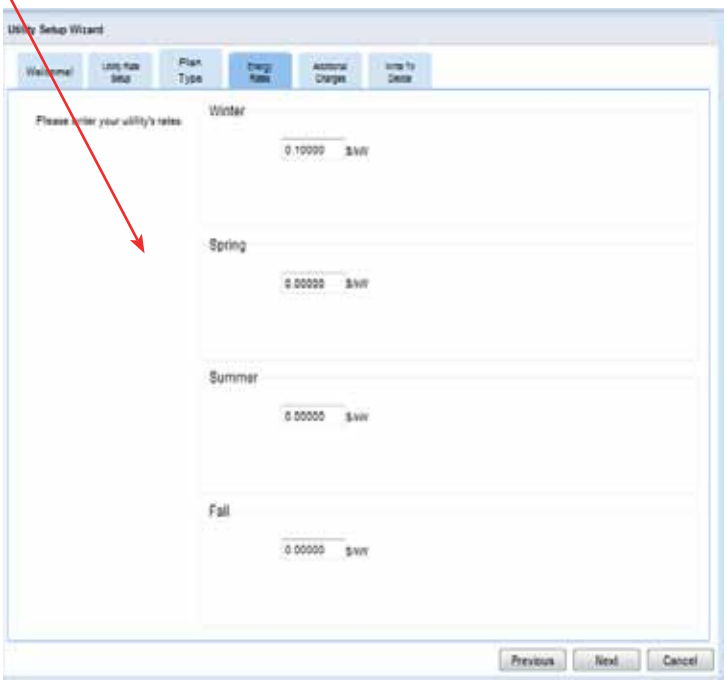


Note: The format used for *CENTS per Kilowatt Hour* is $0.xxxxx, where "x" is the actual cents charged. Think about it...how do you write **thirteen cents**? Answer: $0.13000

These are the screens that you would see if you were to select 1 Season, 2 Seasons, 3 Seasons, and 4 Seasons.







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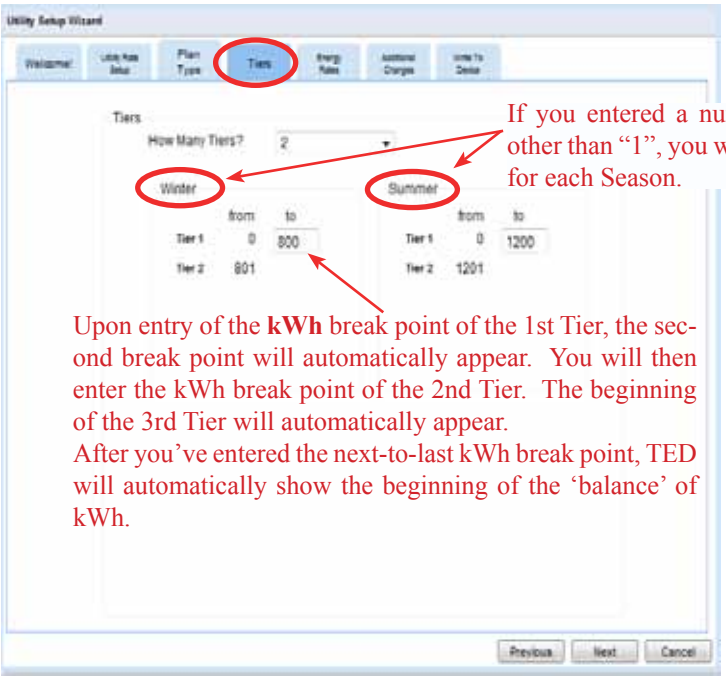
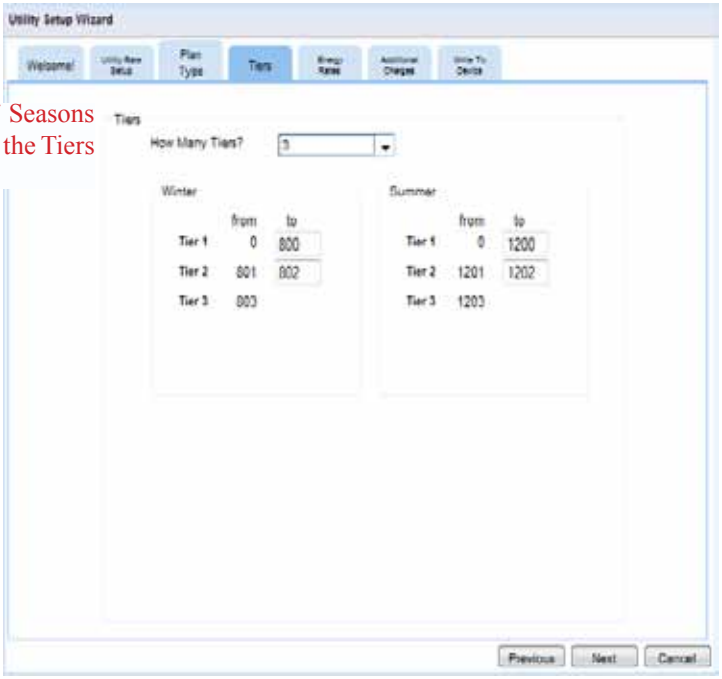
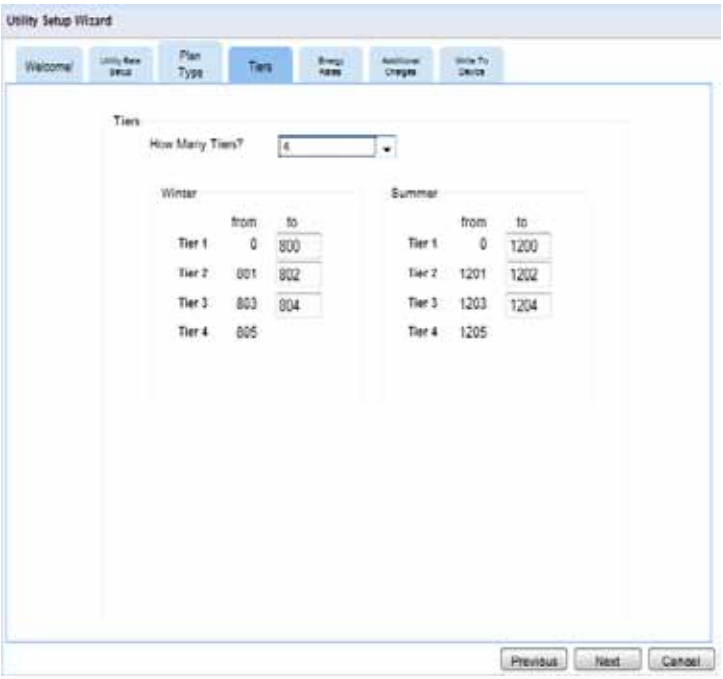
Screen Sample showing TIERED RATE with 2 SEASONS



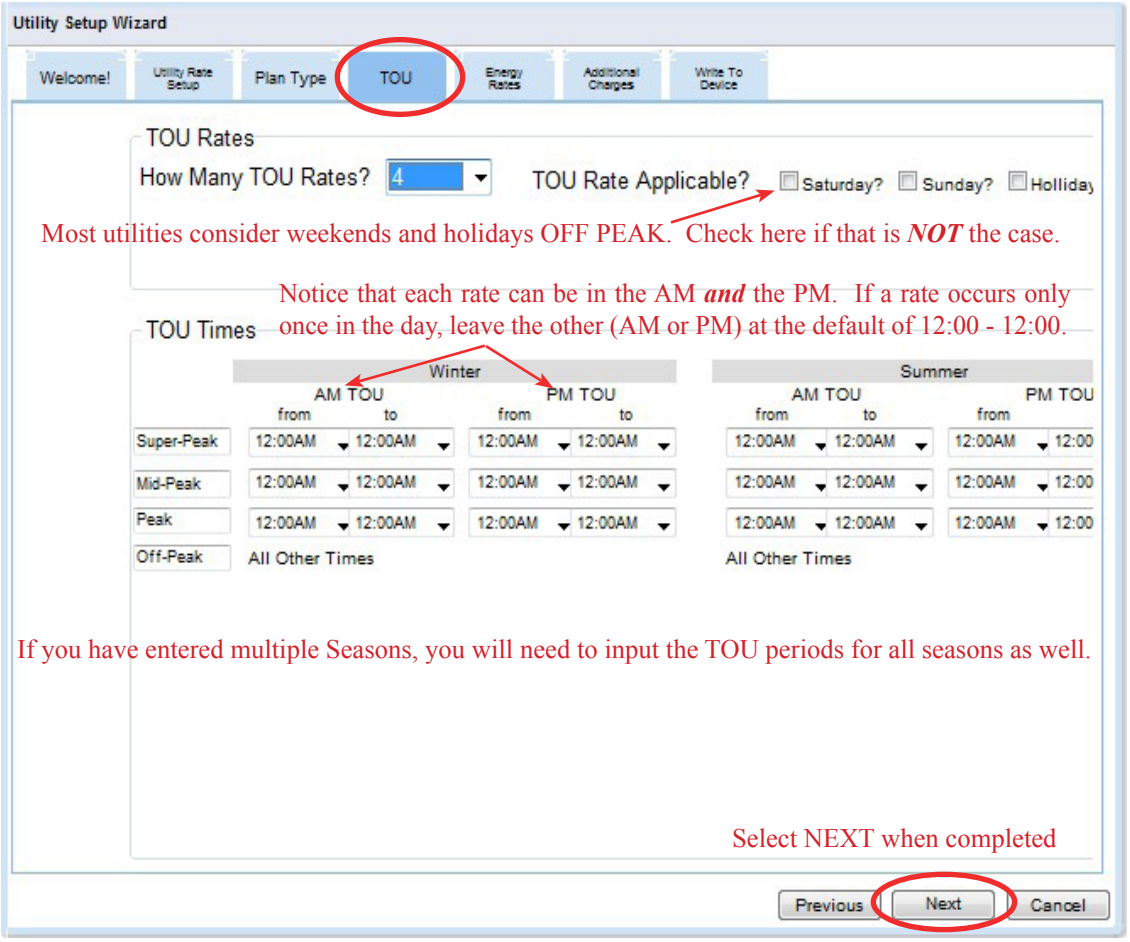
If you entered a number of Seasons other than "1", you will enter the Tiers for each Season.

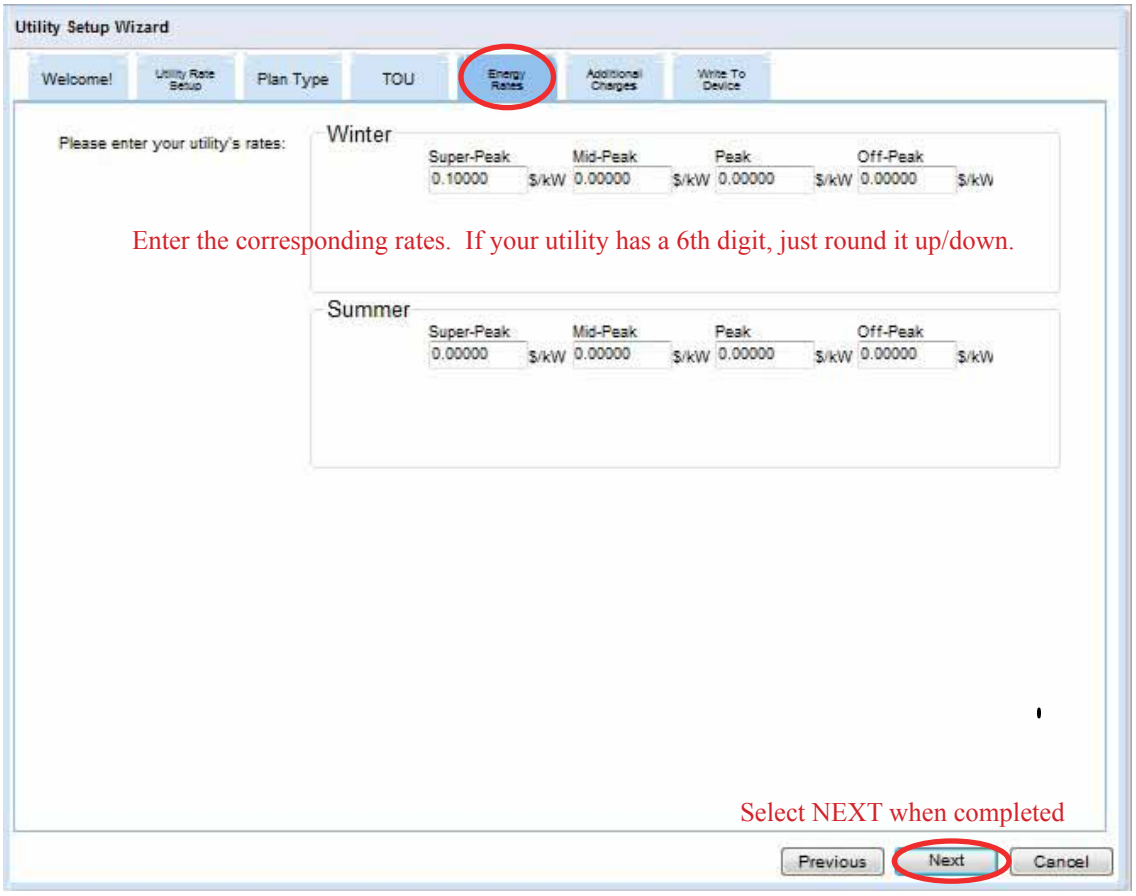
Upon entry of the **kWh** break point of the 1st Tier, the second break point will automatically appear. You will then enter the kWh break point of the 2nd Tier. The beginning of the 3rd Tier will automatically appear.
After you've entered the next-to-last kWh break point, TED will automatically show the beginning of the 'balance' of kWh.





Screen Samples showing TIME OF USE RATES with SEASONS





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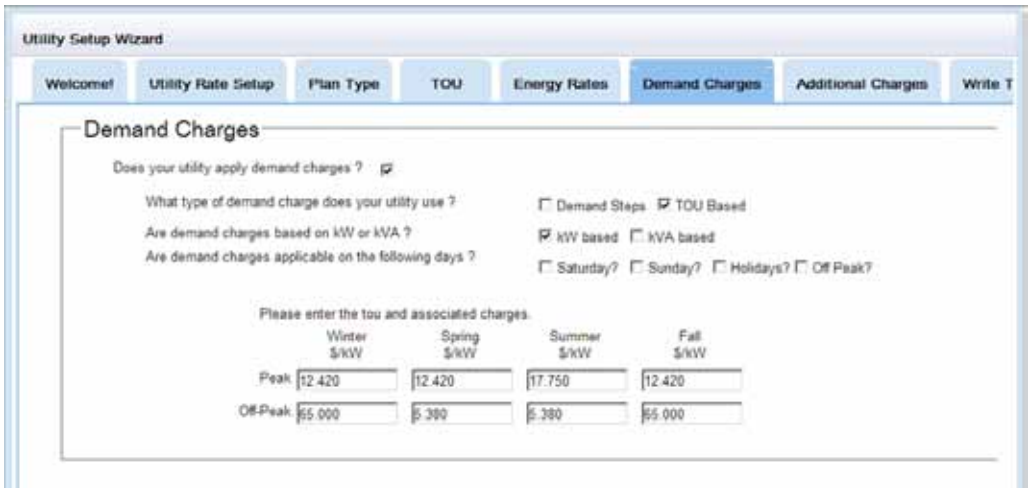
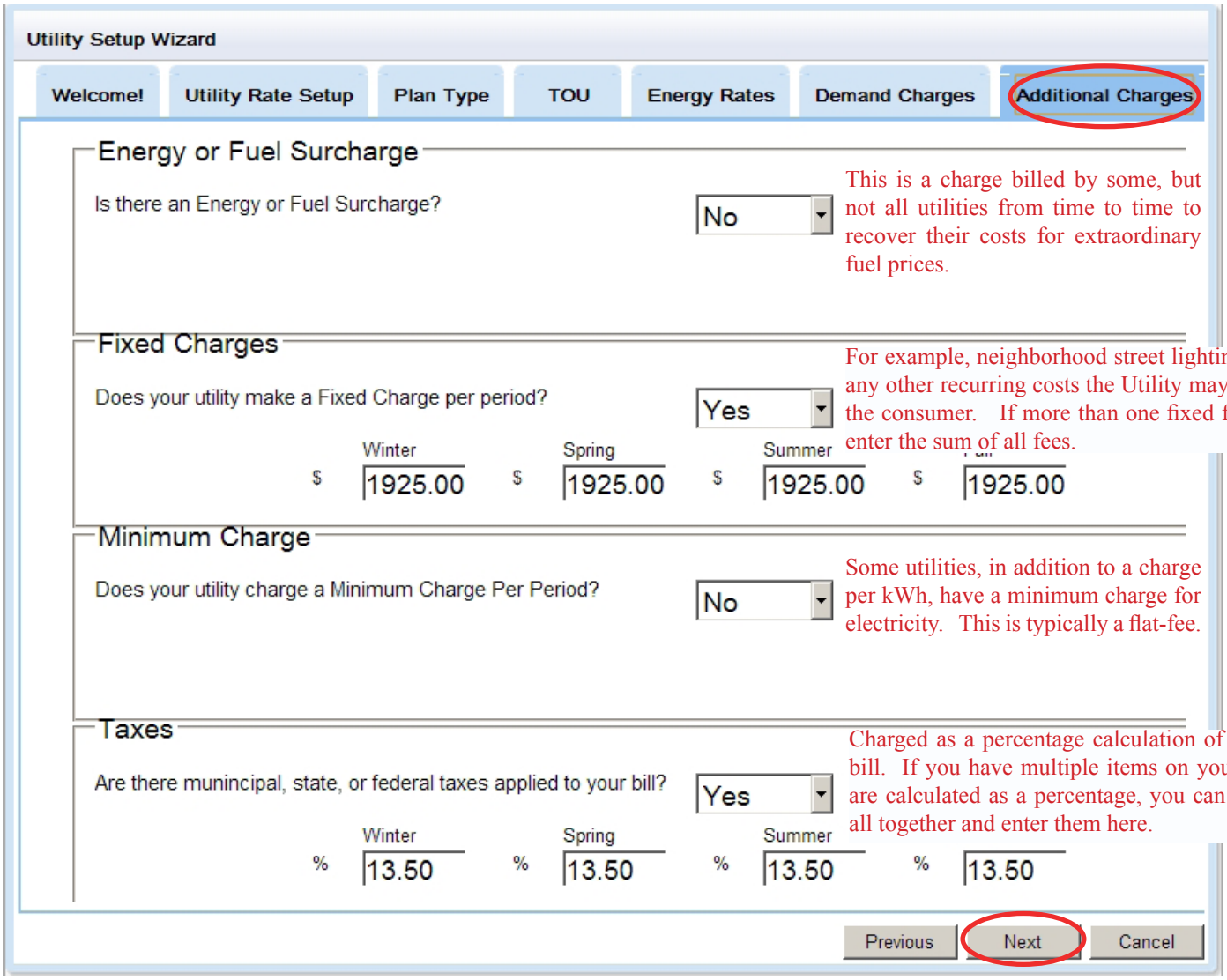
Demand Charges

Demand charges can often be the larger part of a commercial facility's electric bill.





This is a charge billed by some, but not all utilities from time to time to recover their costs for extraordinary fuel prices.

For example, neighborhood street lighting costs, or any other recurring costs the Utility may pass on to the consumer. If more than one fixed fee applies, enter the sum of all fees.

Some utilities, in addition to a charge per kWh, have a minimum charge for electricity. This is typically a flat-fee.

Charged as a percentage calculation of the entire bill. If you have multiple items on your bill that are calculated as a percentage, you can add them all together and enter them here.

Select NEXT when completed

Write to Device

Like any software program, you need to save the changes you made. Changes will be applied when you click the Update button.

Backup Settings

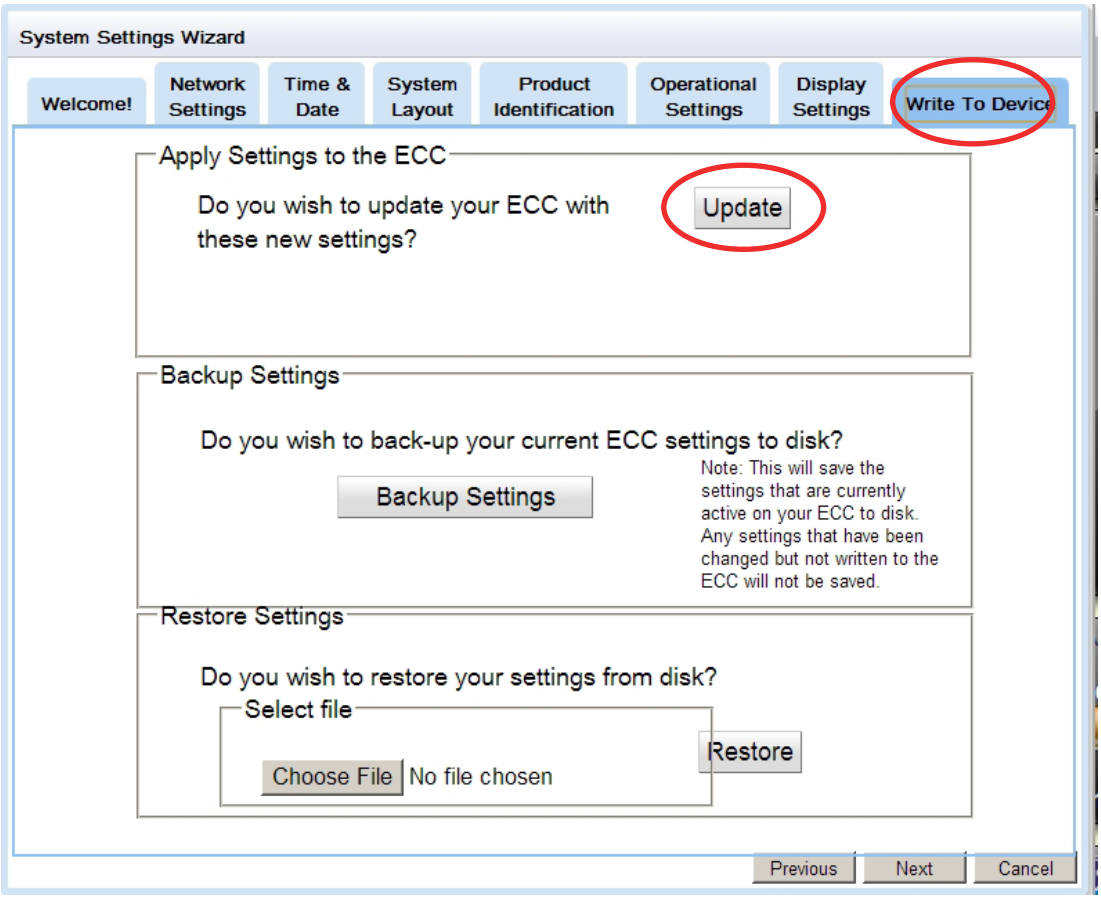
Before updating changes, you can save the previous settings to a file on your PC. (Recommended)

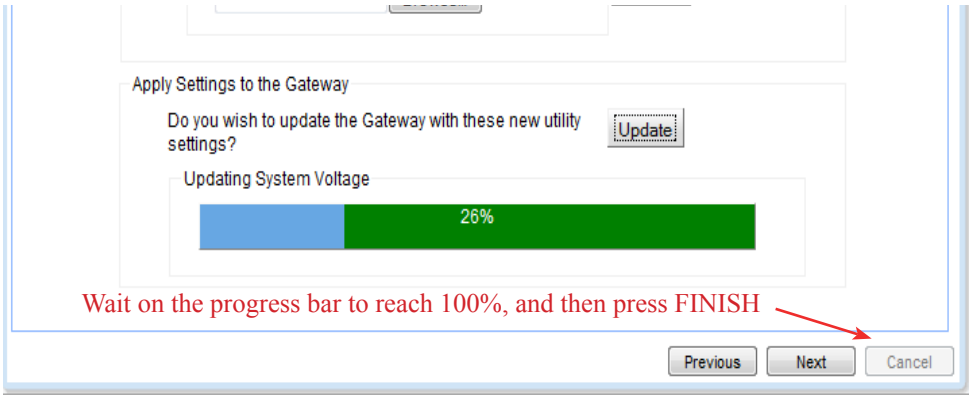
Restore Settings

You can restore settings that you previously saved to a file on your PC. The restored settings will be applied when the Update button is selected.

Update

You will use this function every time you make a change to your TED Pro system. This will update the changes you make and save them to the ECC. **Press UPDATE.**





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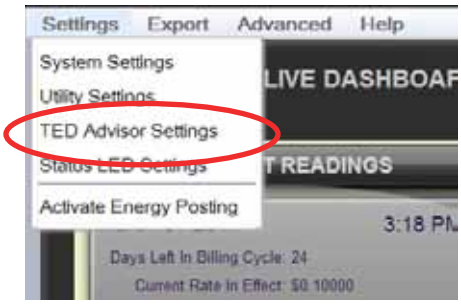
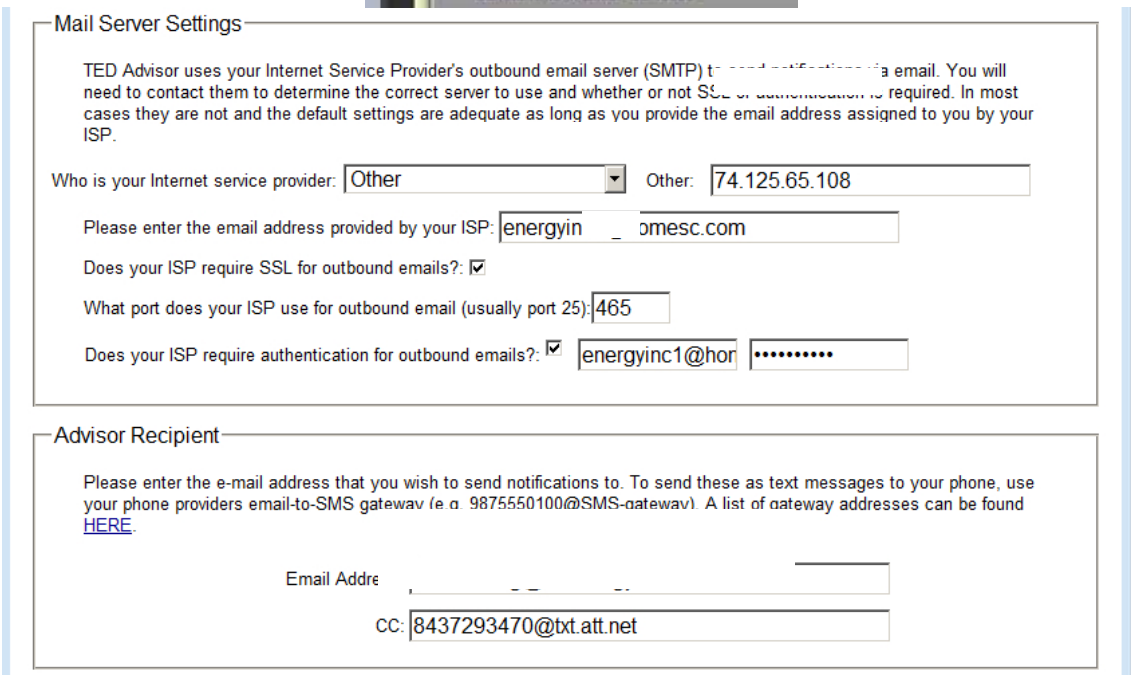
TED Advisor

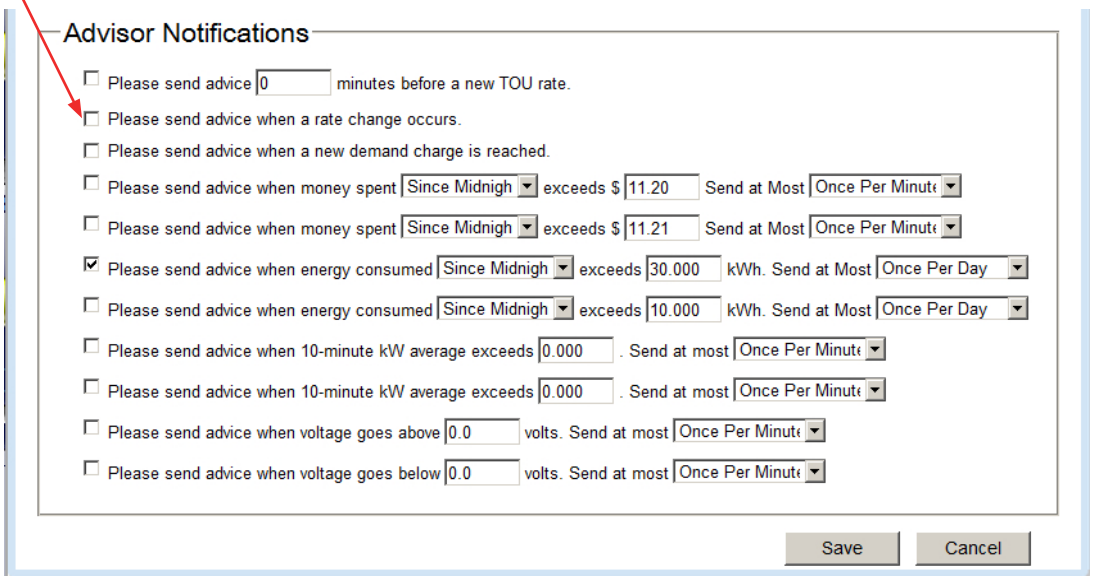
TED Advisor is a real-time energy notification system. TED Advisor sends immediate notification, locally and remotely, via email and/or text message to let you know that a user-defined parameter has been reached.

You may need to call your Internet Service Provider (ISP) to obtain some of the details below.



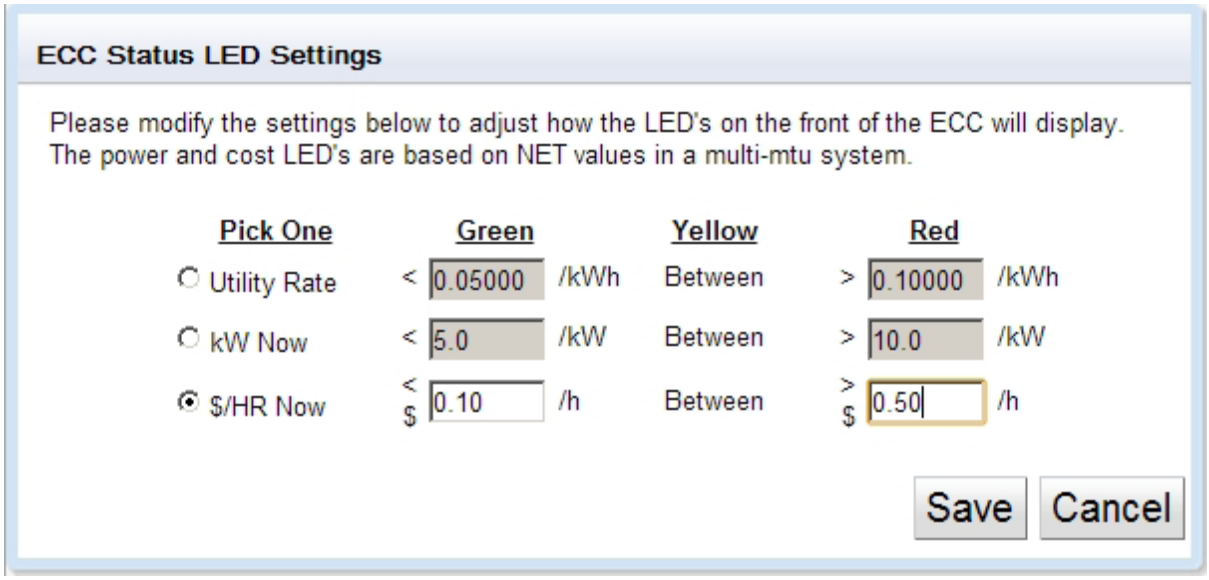


Check the appropriate box for any parameter for which you would like notification.



Status LED Settings

Your ECC (Energy Control Center) has 3 LEDs on the face. These LEDs can be user-adjusted to be meaningful in several ways. They are Green, Yellow, and Red.



For Example: If you wanted the LEDs to give you an indication of how much money you were spending in real-time (without looking at a Display or your Computer), you can set the LEDs to change at specific intervals. In the above setting, the ***Green*** LED will be lit when you are spending less than $0.10 per hour The ***Red*** LED trigger-point is at $0.50, so any value between $0.10 and $0.50 will turn on the ***Yellow*** LED. These values can be changed at any time.

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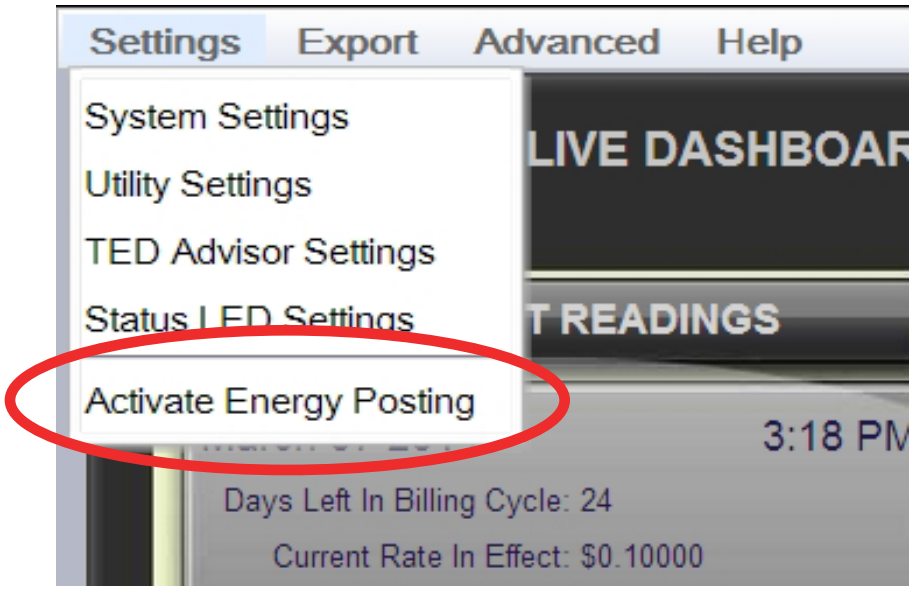
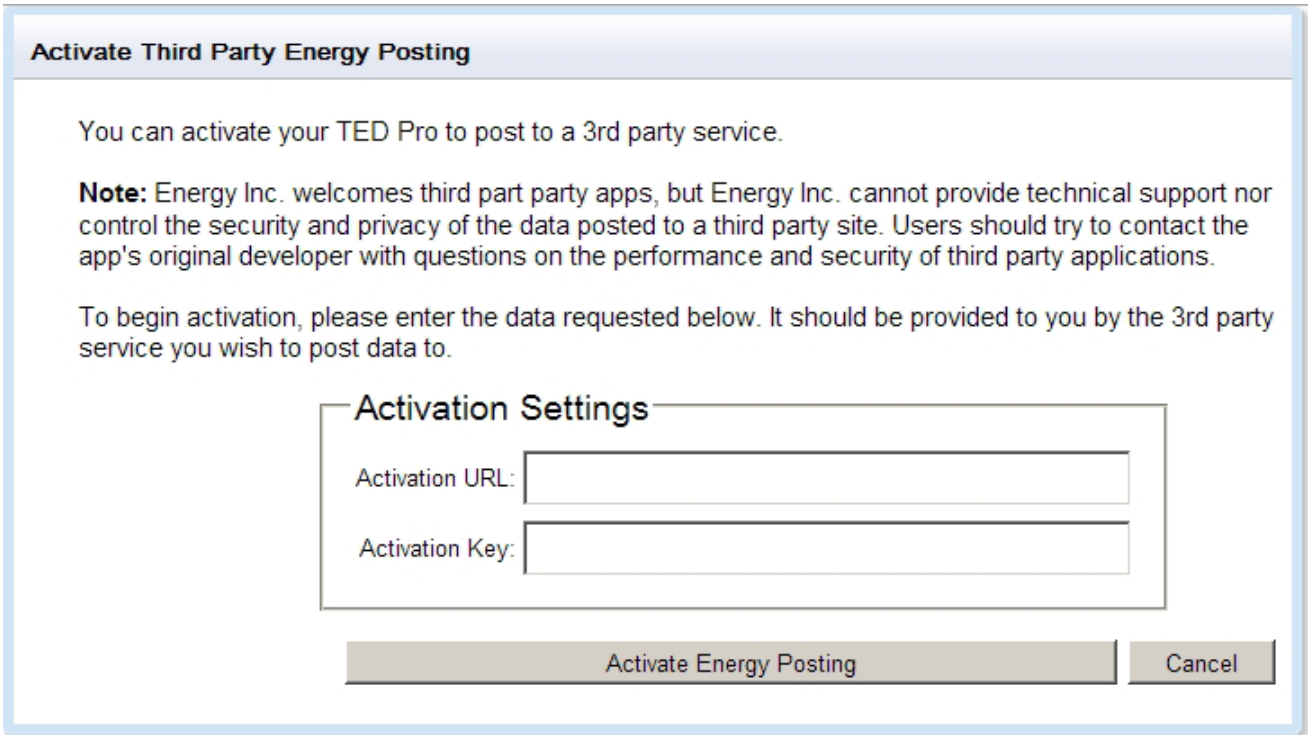
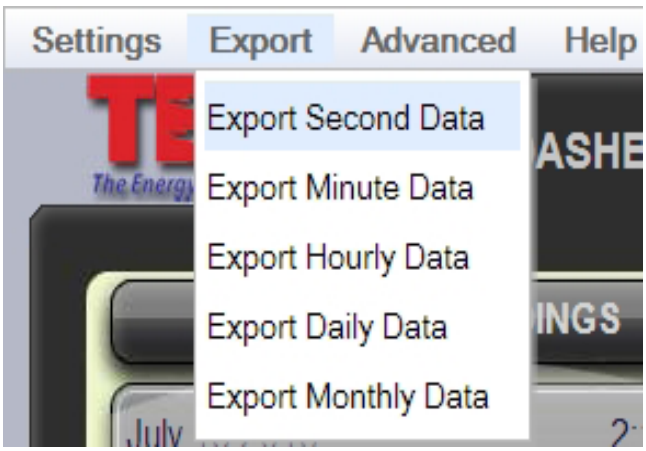
3rd Party Posting

If you wish to send your TED-data to an outside source (like a university, a neighborhood/ community, a solar-company, a utility, or any other entity that is aggregating the data), this is a user-friendly way to do so. Just click the "Activate Energy Posting" button and follow the on-screen instructions. **Note**: You may post only to two sources at one time.





Exporting Data



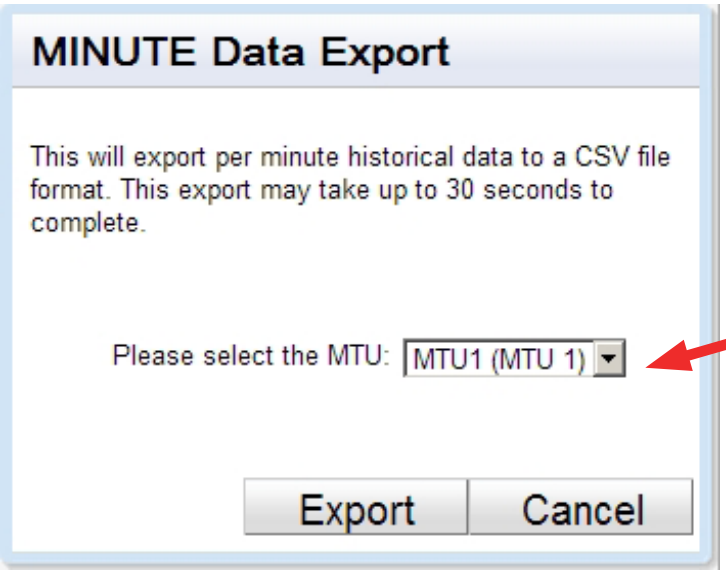
Data Export
Data can be exported in CSV format (Excel-format) at any time. The internal capacity of data that TED will store is:

Seconds: 60 minutes
Minutes: 48 hours
Hours: 90 Days
Days: 24 months
Months: 10 years

Each of these data-ranges are stored independently.

Data is saved in this manner - when the field is full (ex: 60 minutes of Second-data) the oldest record is erased and the new second-data is written.

To export the data, simply select the data you would like to export to analyze, and follow the on-screen instructions.



If you have multiple MTUs or a SOLAR/WIND installation, you can output the data for each MTU for analysis by clicking the drop-down.

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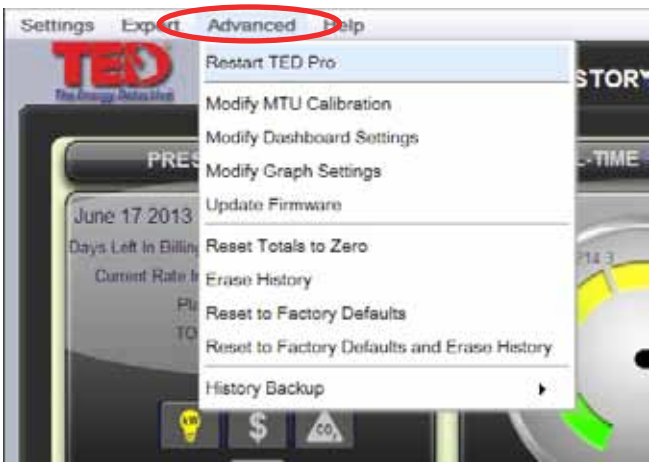
Advanced Functions

Restart TEDPro

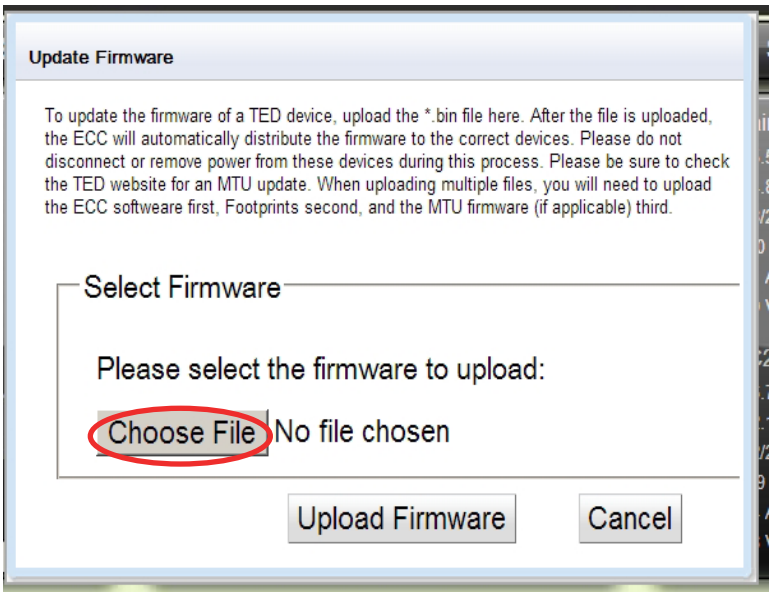
Selecting "Restart TEDPro" accomplishes the same thing as unplugging your ECC. It is not something you will likely find yourself needing to do. It simply eliminates the need to physically unplug the ECC.



Firmware Update

You can update your Footprints firmware using the instructions below, but it is ***HIGHLY*** recommended that any firmware updates are done following directions on our website.
http://www.theenergydetective.com

(see note above on Firmware Update) There will be occasions when TED or your utility may have an update for your firmware. It could be an update for your Display, the MTU, or the ECC. It may be a rate change, software modification, or a new feature. There are several ways in which you can receive the update: by link in an email, a direct download from the TED website, or from your Utility's website. It will be your option to install the update.
Once you have downloaded the update to your computer, you will need to select the "Update Firmware" feature on TED Pro shown here.



Click the Browse button and locate the firmware you are wanting to update. Once you have located and selected the file, click UPDATE FIRMWARE. The process is totally automatic at this point. Depending on the size of the update, this process could take from one to 30 minutes.

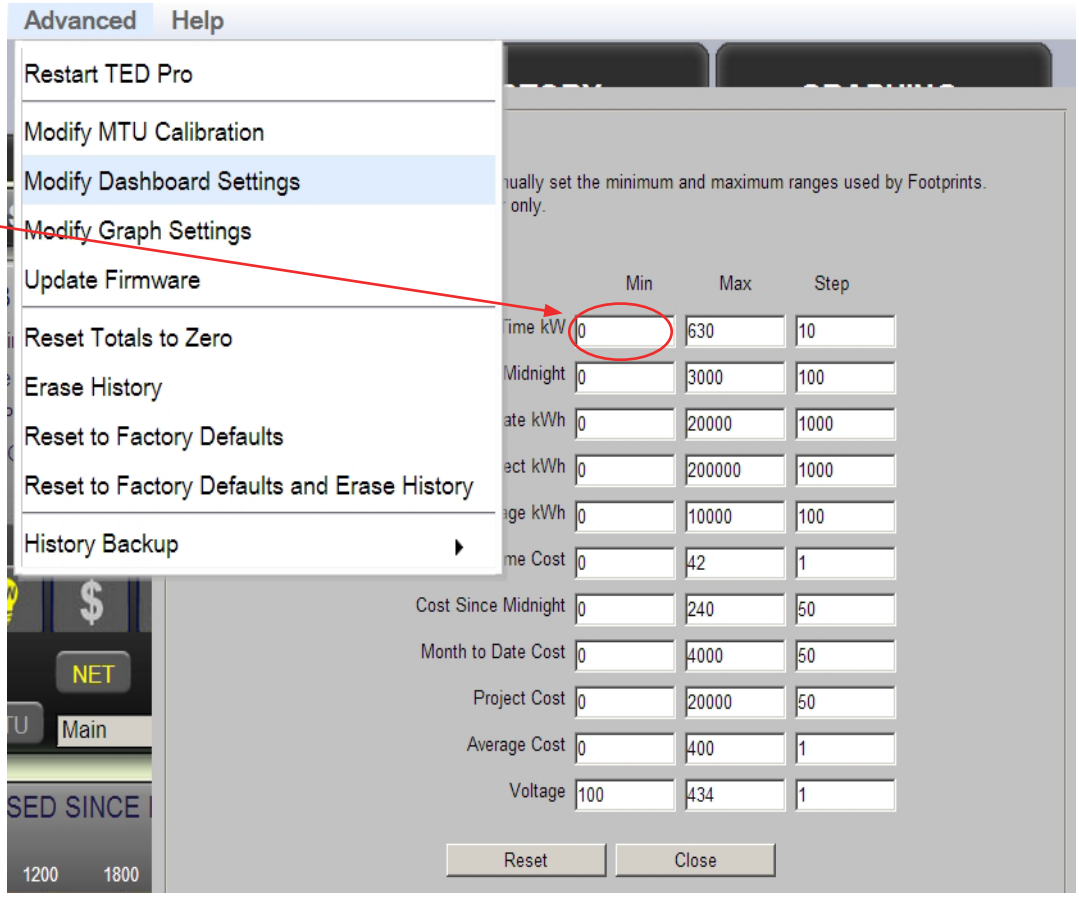
Footprints Settings

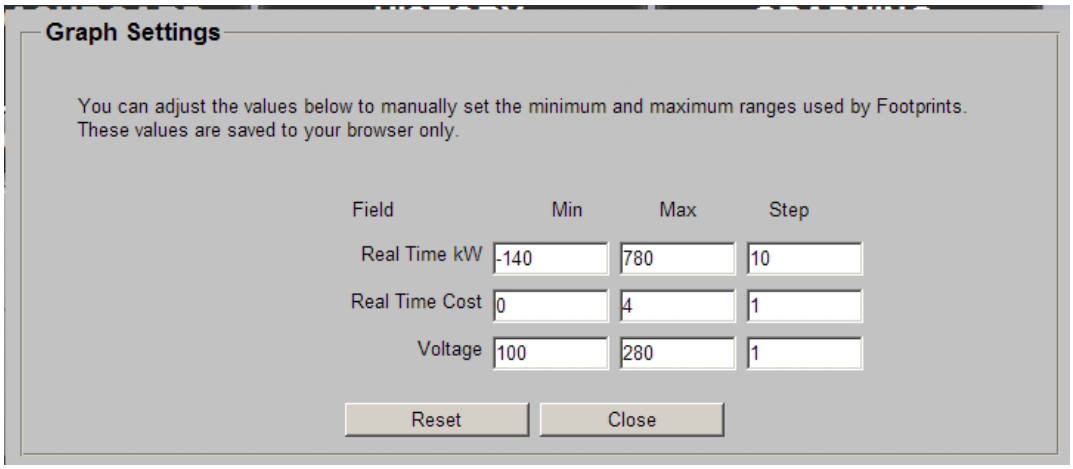
You can adjust the ranges displayed within Footprints two ways. You can press the +/- buttons on each graph/range you would like to change, or you can click the ADVANCED tab, and Modify Dashboard Settings as shown below. NOTE: any changes made using the +/- keys are saved in *that specific computer's* browser only. They are not saved to any computers on the LAN. If multiple people are accessing the ECC, each person(s) viewing Footprints may customize their graphs on their particular computer.

Modify Dashboard and Modify Graph Settings under ADVANCED Tab:

The Max Value is the maximum amount shown on any graphs. If you have a small, energy-efficient facility, you may only see a maximum real time use of 5kW. Change the "Real Time kW Usage" setting to "5" and the maximum on the dial will be 5kW instead of 12kW. If you have a large facility, you may need to change it to 800kW to keep the needle from pegging. Any of the scales can be changed from the Dashboard by pressing the +/- buttons. The 'STEP' number is the incremental value changed for each field when the +/- button is pressed.

For **Solar** installations *only*, make this number a **NEGATIVE** number equal to the size of the PV system. In other words, if you have a 7kW system, you should make this a **-7**.





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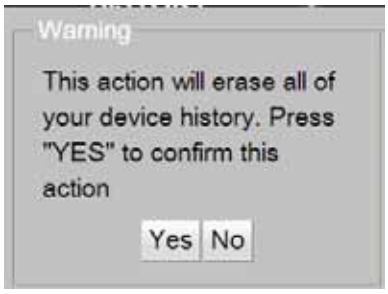
Reset Totals to Zero

Select this function to reset all of your totals to zero. This is a non-recoverable act, so you may want to consider Exporting your data prior to executing this function.

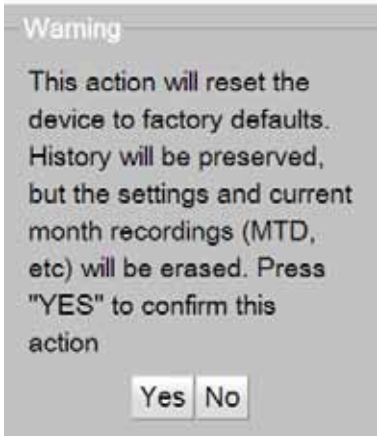
Erase History

Select this function to erase your entire history. This is a non-recoverable act, so you may want to consider Exporting your data prior to executing this function.



Reset to Factory Default

Select this function to reset all the data within TED. The will clear **ALL** charts, graphs, and all operational variables (time, date, rates, meter date, etc.) It will NOT erase History. This is a non-recoverable act, so you may want to consider Exporting your data prior to executing this function.

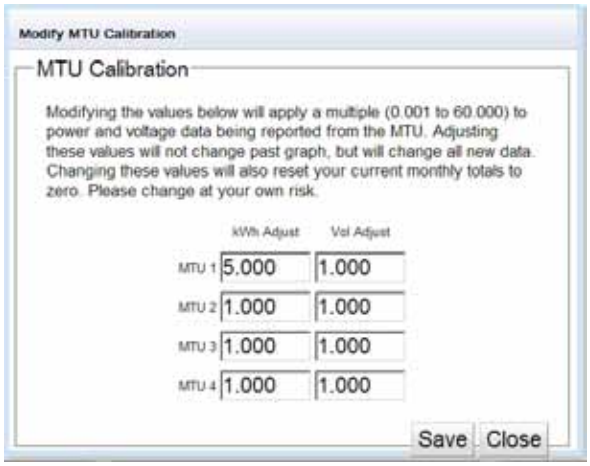


Reset to Factory Default and Erase History

Select this function to reset all the data within TED. The will clear **ALL** history, charts, graphs, and all operational variables (time, date, rates, meter date, etc.) This is a non-recoverable act, so you may want to consider Exporting your data prior to executing this function.

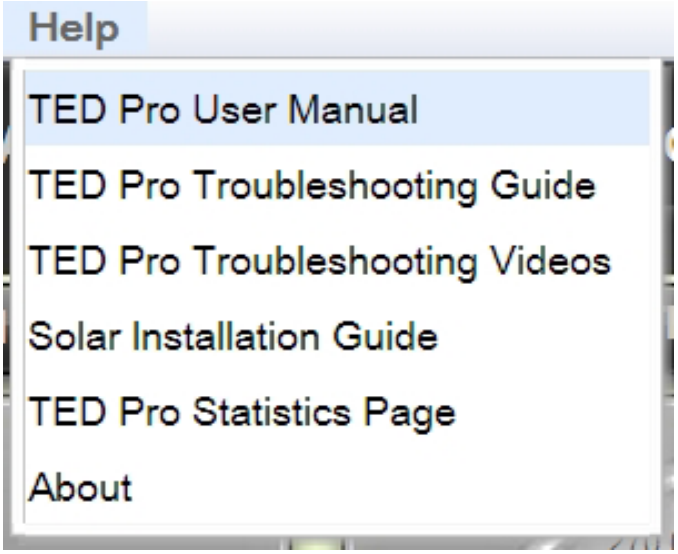
Modify MTU Calibration

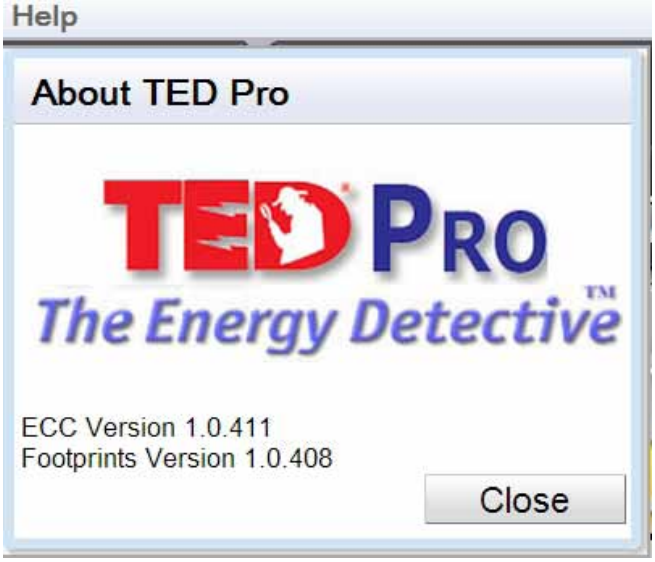
Your TED comes calibrated from the factory. Most installations do NOT require any changes to the default settings. The default multiplier is **1:1**. If, **<u>after a 2-3 MONTH period</u>**, you feel TED is not matching your utility meter exactly, you can modify this multiplier to make TED more closely match your utility meter. You can adjust both the kW as well as the Voltage multiplier.



HELP Tab

Selecting any of the items shown under the HELP tab will open a link to download a file. You can choose to either view the files on your browser window, or you can save them to your computer.





HELP - ABOUT will display the version of firmware your system is operating under. This may be useful information if you ever need support.

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TED Pro Statistics Page

This will open up a diagnostics screen. The most meaningful items (to the user) on the screen are the "MTU Rec" and "MTU Skp" shown below. These indicate *Received* data-packets and *Skipped* data-packets. If the Skipped is 20% or less than the Received, your system is in great shape. (divide MTU Skp by MTU Rec). In the example below: 64 divided by 108929 = 0.0005 (or 0.05%). The PLC in your TED system is extremely robust, so you likely will have no problems whatsoever.
If your MTU Skp ratio is higher than 20%, we would suggest you visit the following link:
http://www.theenergydetective.com/PLC

ECC Placeholder Page

	MTU 1	MTU 2	MTU 3	MTU 4
Active Power (W):	172855	86484	714	36333
Voltage (0.1V):	2845	2857	2839	2850
Current (0.1A):	2165 1930 2570	1085 1168 1169	15 0 15	609 683 662
Apparent Power (VA):	192530	100158	902	54686
MTU Rec:	108929	108906	108904	108899
MTU Skp:	64	87	88	93
Min Count:	7264	7262	7261	7262
Man Cal:	5000/1000	1000/1000	1000/1000	1000/1000
Last Timestamp:	1371676320	1371676320	1371676320	1371676380
Last Value (0.0001 WH):	219389527	1582936790	354569	702257573
PF Avg (0.1%):	897	863	550	659
MTU Id:	130ABF	130581	13057B	130100
Phase Type:	0	0	0	0
Use TCP:	1	1	1	1
Version:	405	405	405	405
Uptime:	437619	437096	436931	436778

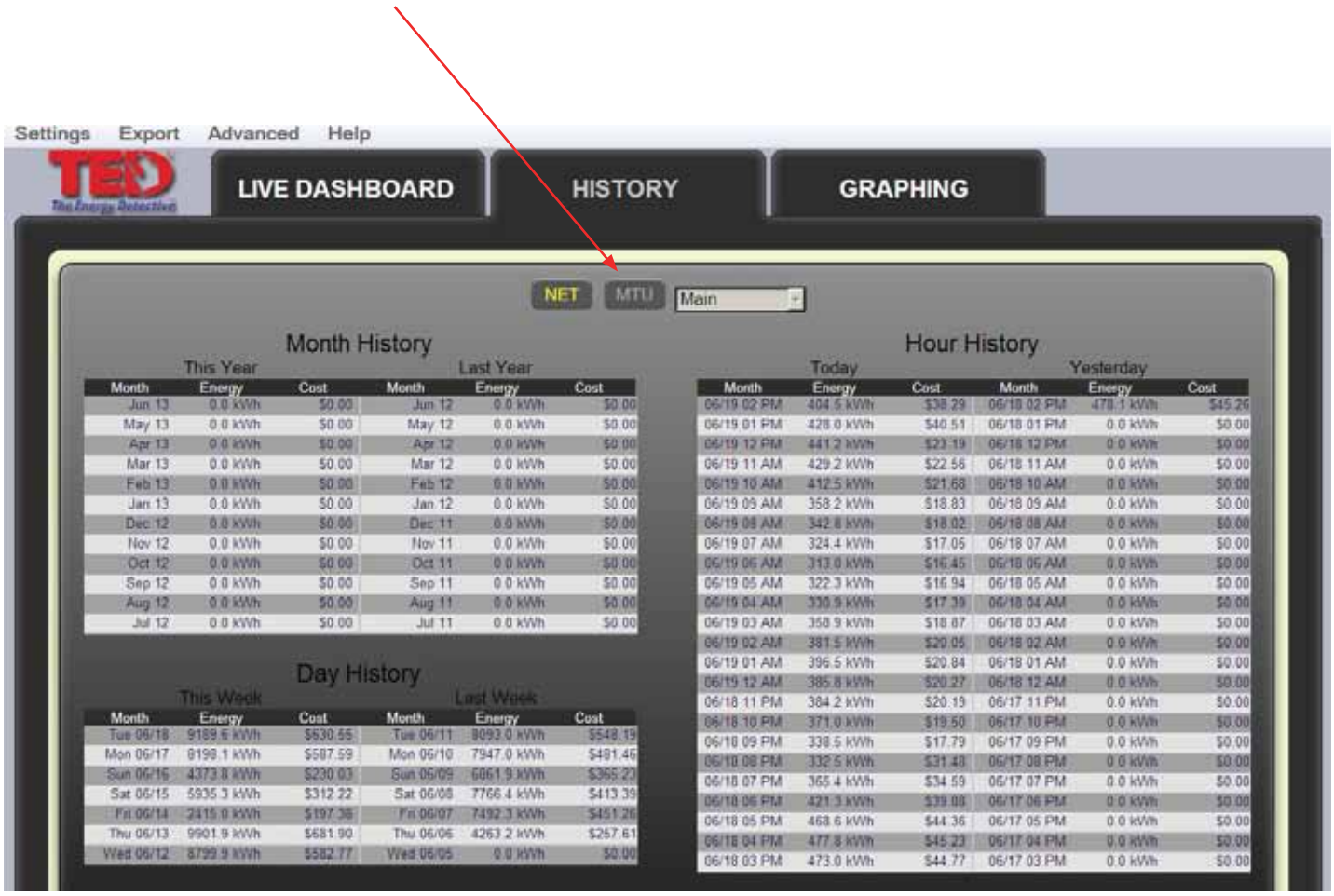
3rd Party Post

Activated	Act. Status	Attempts	Success	Result	Last Timestamp
0	0	0	0	0	0
Server	:0				
URI					

HISTORY

Use this History Chart to compare your usage with prior time periods. The data auto-populates. Compare Hours, Days, and Months.

To see historical data for separate MTUs, simply click the desired MTU as shown below.



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GRAPHING

The graphing library on your TED Pro is very flexible. If you look at the image below, you would be wondering "where is the graph?!" You may need to alter the scale of the graph (see D & E below) so that the graph appears. NOTE: Graphing is BROWSER-specific...so if you modify it on your desktop computer, you will need to do the same on other computers you wish to see the graphs.

Looking at the image below:

A These indicate the data points that will graph when you check the CHECKBOXES. You can also change the COLOR of the graphed lines by clicking on the background color (for example, under "Main" the background color of "Power" is a light blue...you would click the light blue area and a color chart appears)

B This is the value of the details that were checked under Item A, at a specific point in time.

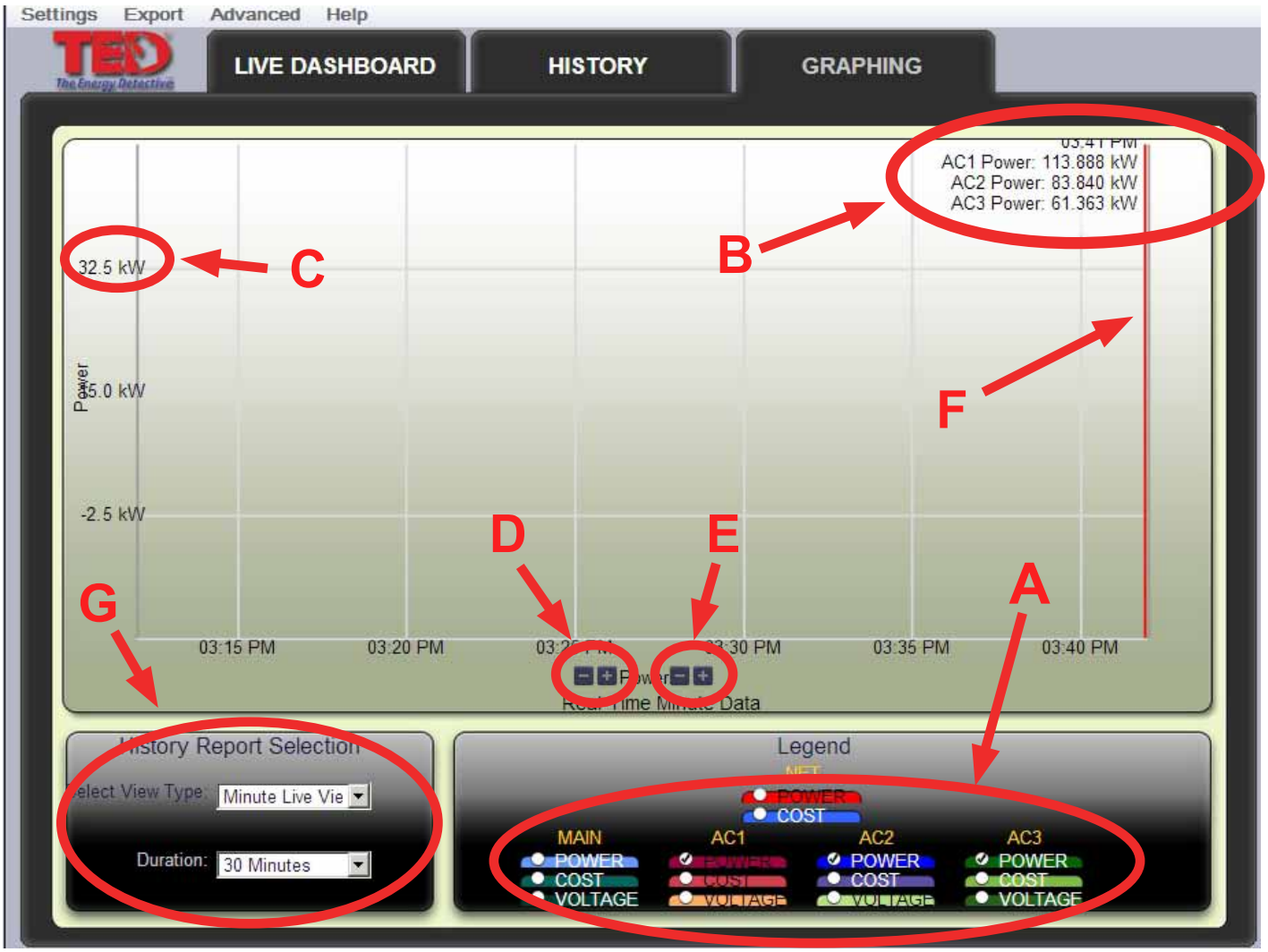
C This indicates the upper value of the Y-Axis of the graph.

D These +/- buttons change the LOWER value of the Y-Axis. These buttons function independently of the upper value buttons (in Item E below)

E These +/- buttons change the UPPER value of the Y-Axis. These buttons function independently of the upper value buttons. Press the + until you begin to see your graph appear (it was simply out of range in the image below).

F Once your graph appears, you can move this vertical red line (with your mouse) along the graphed bar and note the value-change in "B" as you move along the graph.

G Graph Seconds, Minutes, Hours, Day, etc. for any period by selecting appropriate drop-down.



GRAPHING (cont'd)

TED Pro stores data internally in its ECC. This data can be retrieved at any time and graphed displayed in graphic form. The data available for viewing is:

SECONDS - one hour of second-data in increments from Live (real-time) recording, 30-seconds, or 1, 2, 5, 15, 30 and 60 minutes.

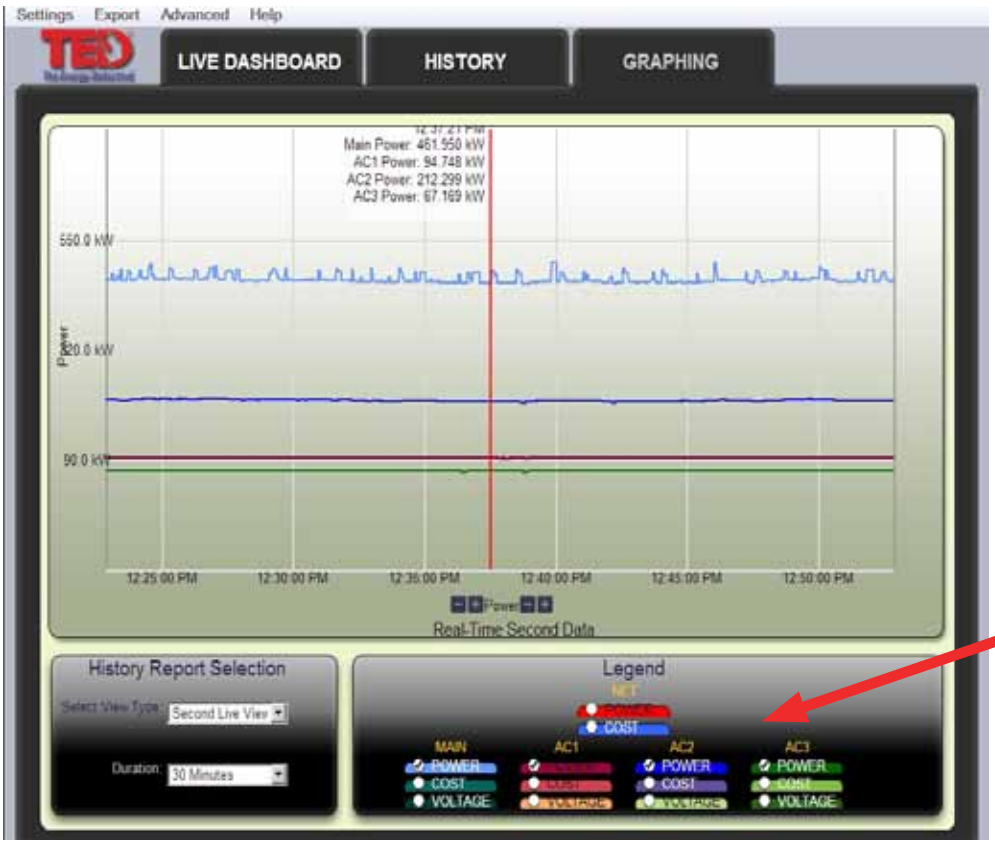
MINUTES - 48 hours of minute-data may be displayed in increments from 30 minutes; 1, 2, 4, 12, 24, 36, to 48 hours.

HOUR - 90 days of hourly data are stored. Historical Hourly Data is viewable for any selected date-range in increments of 7-day periods. Specific Hourly Data can be viewed in kWh, Voltage, or Dollars.

DAY - 2 years of Daily data are stored. Daily Data is viewable for any selected range for the prior 2 years in 90-day periods. Data viewable is: kWh, Dollars, Minimum/Maximum Voltage, Minimum/Maximum Cost, Minimum/Maximum Power (kW).

MONTH - 10 years of Monthly data are stored. Data viewable is: kWh, Dollars, Minimum/Maximum Voltage, Minimum/Maximum Cost, Minimum/Maximum Power (kW).

Sample - SECONDS graph of kW - scale selected is 30 seconds



If more than 1 MTU is installed, each MTU may be graphed simply by checking the box under the name of the MTU.

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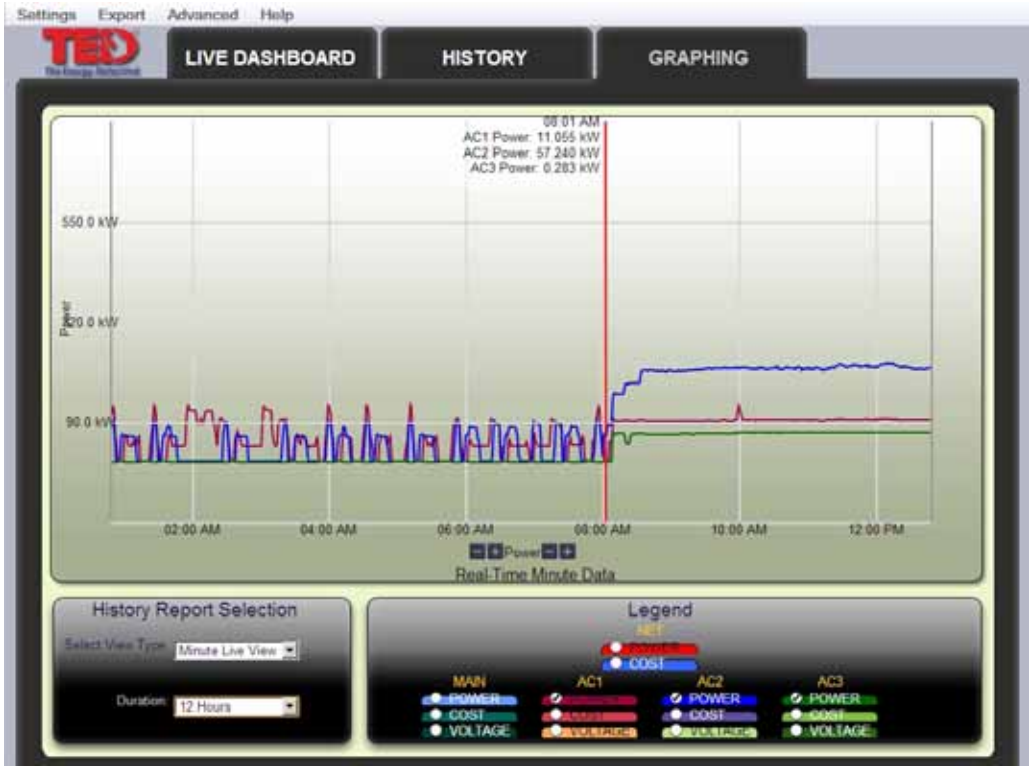
Sample - MINUTE graph of kW- scale selected is 12 Hours



Looking at the graph, you can immediately see when the HVAC is on, when activity begins (office opens), etc.

Sample - HOUR graph of kWh

Hovering over any point on any graph will give the specific detail of that moment in time.

Solar/Wind Generation

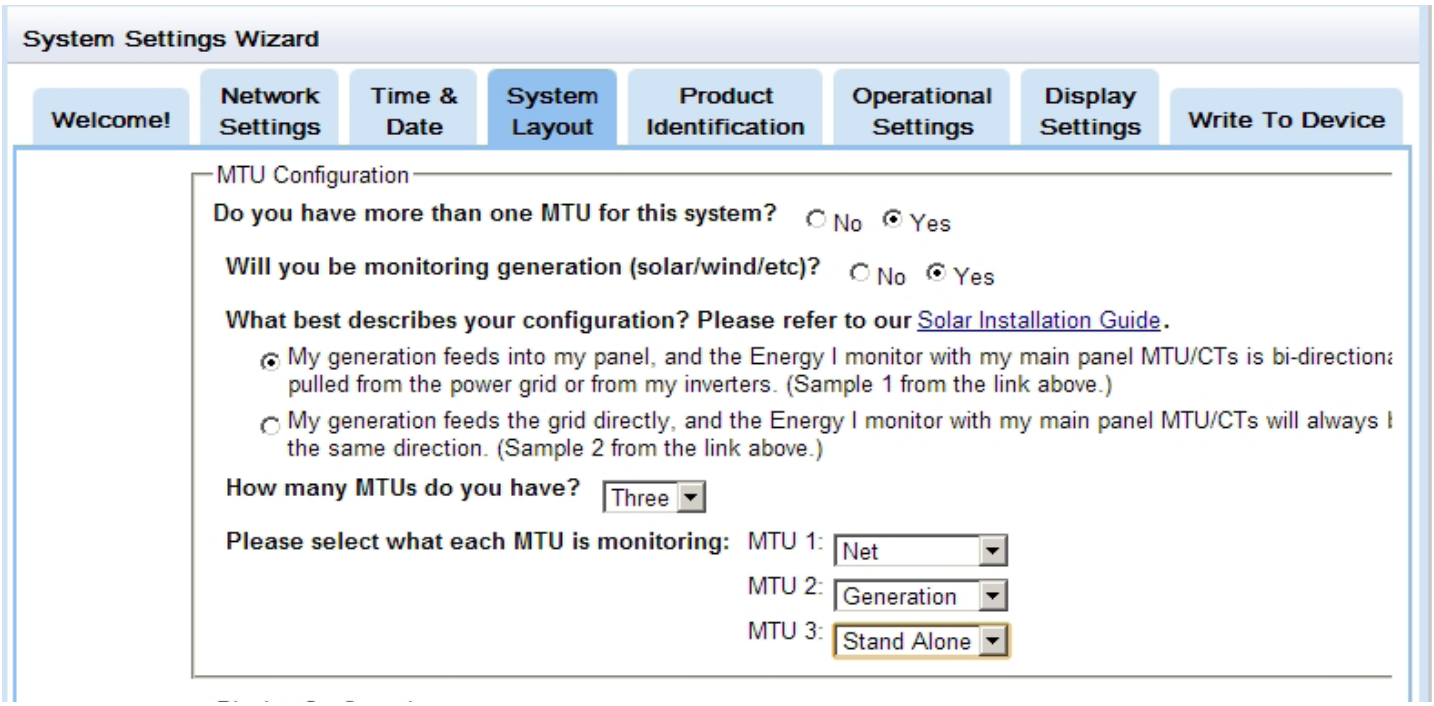
If you are generating power (solar/wind, or auxiliary generator), TED will record your *Generation, Consumption*, and record the *Net* of the two as well. At any time, you can see each independently simply by checking the appropriate tab on the Live Dashboard (MTU1, MTU2, NET).

This section is to be completed only after the physical installation of the MTU(s) and CT(s) have been completed.

Your TED system can have up to 4 MTUs. One (or more) MTU(s) will be measuring your Consumption (Load), and the second (other) MTU will be measuring your Production (Generation). Footprints will record each of these, and also present the NET of your Production/Consumption. You may also have an MTU monitoring your HVAC unit (you will want this MTU to be set to STAND ALONE). Setting the MTU to "Stand Alone" tells the system not to count it twice in the overall load.

Under SETTINGS, select System Settings Wizard

- Select the tab System Layout
- Under "How Many MTUs?", click the drop-down and select how many you have installed.
- Under "Multiple MTU Configuration," select "SOLAR" if you have installed a Generating system.



Only after you have completed the Setup of your system will the changes be noted on the Live Dashboard.

By selecting "NET", you will see a combined view of both/all of your MTUs...showing you a positive number if your consumption is greater than your generation, or a negative view if you are generating more electricity than you are consuming (sending electricity back to the grid).

You can view MTU1, MTU2, (MTU3 & MTU4 - if you have that many installed) all independently simply by selecting the appropriate MTU on the Dashboard, History, or Graph.

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APPENDIX A

Connecting TED Pro ECC Directly to a Computer

Note: It is highly recommended that you connect your ECC directly to your router, ***and not your computer***.

- Installation and setup is simplified.
- Energy information can be viewed by any device connected on your home network.
- Time is automatically synchronized.
- Up to the minute weather information is available.

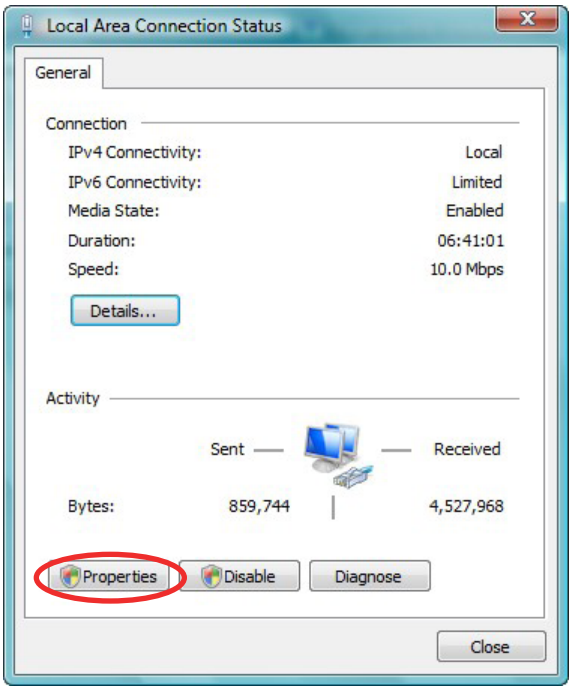
If you do not have a router, we highly recommend that you purchase one.

To connect your ECC directly to your computer, you will most likely need to change the network settings on your computer. Please carefully follow these steps:

1. Plug the ECC into a 120V outlet.
2. Connect your PC to the ECC with the included Ethernet Patch Cable.
   2.1. If you need a longer cable, any CAT V cable with RJ45 jacks may be used.
   2.2. A cross-over cable can be used to direct-connect to the computer, but it is not necessary. The ECC automatically senses the cable configuration.
3. Open your web browser (Internet Explorer, Firefox, Chrome, etc.)
   3.1. In the address bar type in: http://192.168.7.4/Footprints.html
   3.2. FootPrints Pro Dashboard should load (Note: could take up to 1 ½ minutes to load)
4. If you get a "Cannot Open Webpage" or "File Not Found" error on your browser, then you will need to change the IP of your PC.
   4.1. Go to Control Panel/Network and Sharing Center (accessed from Start Menu)
   4.2. Click on Manage Network Connections.

4.3. Click on Local Area Connection

4.4. Click on Properties



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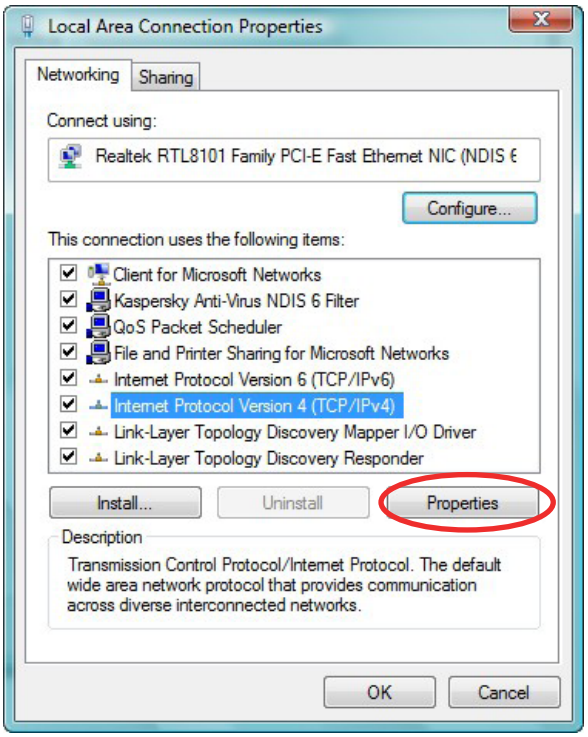
4.5. Highlight Internet Protocol Version 4 (TCP/IPv4). Click on “Properties”

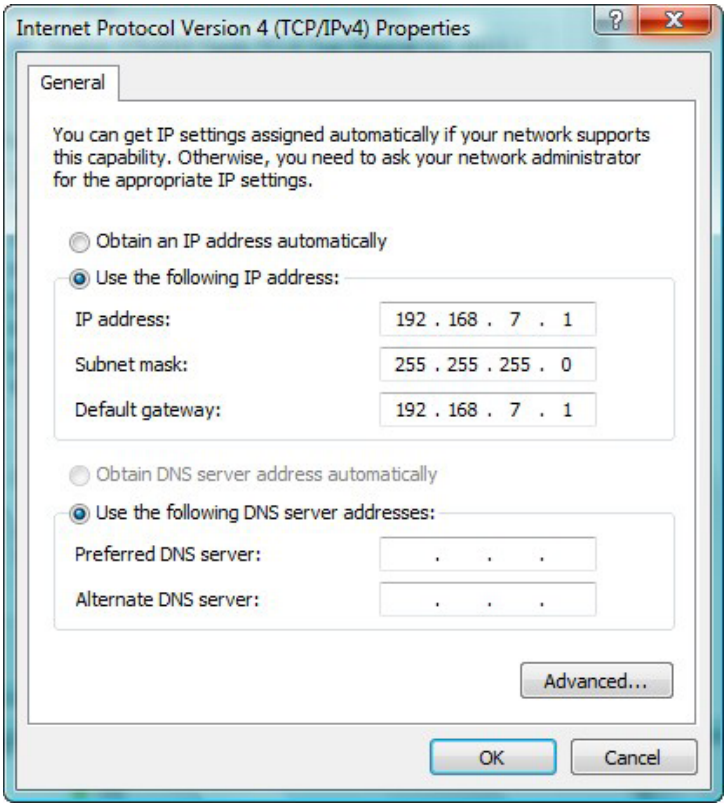


4.6. Click “Use the following IP address” and fill in as shown:

4.6.1. IP Address 192.168.7.1

4.6.2. Subnet mask: 255.255.255.0

4.6.3. Default ECC: 192.168.7.1



4.7. Click OK

4.8. Restart your browser and type: http://192.168.7.4/Footprints.html into the address bar.

4.9. Footprints Pro Dashboard should be displayed

4.9.1. Read and follow Footprints Pro Help File.

4.9.2. If Footprints Pro does not come up, please contact your network administrator, IT department or trained computer professional.

TED (Energy, Inc.) can not help you troubleshoot network issues.

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APPENDIX B

USNAP Devices

With the power cord unplugged from the wall outlet, turn over the ECC and slide in the USNAP card until it seats firmly. If you have any trouble seating a USNAP device, the second port can be used - **do not force the card.** The ports are identified as USNAP 1 on the side of the AC power cord and USNAP 2 on the side of the Ethernet connection as shown below. The selected port will need to be identified in System Setting/ System Layout.

APPENDIX C

Wired Display

If your system has a Wired Display, connect it to the ECC with the USB3 cable provided as shown below.