

EEcoMark v2 Setup Guide

Version	2.5
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Introduction

EEcoMark v2 is a benchmarking tool that uses real world applications for the purpose of measuring the performance-qualified energy consumption of personal computers.

Requirements for Running EEcoMark v2

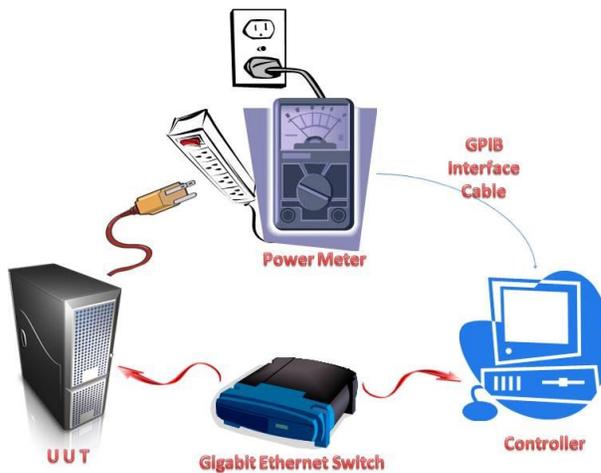
- EEcoMark v2 benchmark software
- Unit Under Test (UUT) (i.e. computer to be tested)
- Controller
- Supported power meter
- Gigabit Ethernet Switch

Setting up the Connection

1. Connect power meter to AC wall outlet.
2. Connect UUT to power meter.
3. Connect Ethernet cable from UUT to gigabit Ethernet switch.
4. Connect Ethernet cable from Controller to gigabit Ethernet switch.
5. Connect GPIB /Serial cable from power meter to controller.

Note: ensure the correct drivers are installed for GPIB interface cable on the controller.

The following image illustrates the setup:



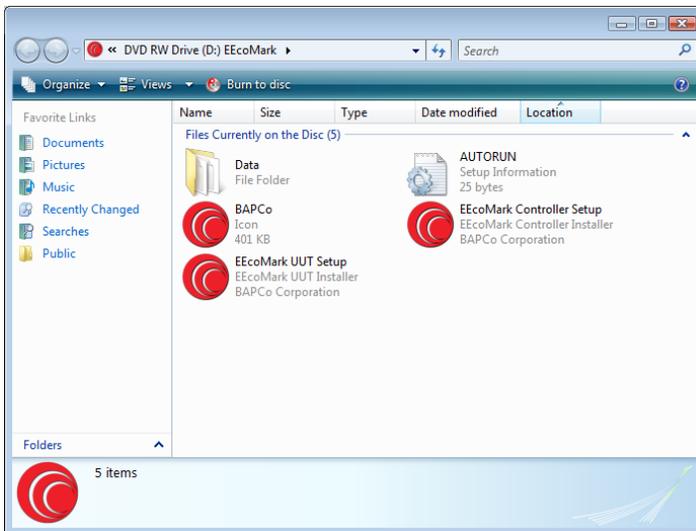
Installing EEcoMark v2 UUT Software

Insert EEcoMark v2 DVD media into the DVD drive of the UUT.

The “AutoPlay” feature displays a window listing available options, as illustrated in the following screenshot:

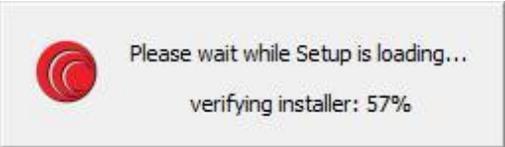


Click the “Open folder to view files” option. The following window displays:



Click the “EEcoMark UUT Setup” icon.

The verification installer bar displays, detailing the progress of the verification.



When the setup verification completes, the BAPCo logo displays as illustrated in the following screenshot:



The EEcoMark v2 UUT Setup Wizard window displays, as illustrated in the following screenshot:

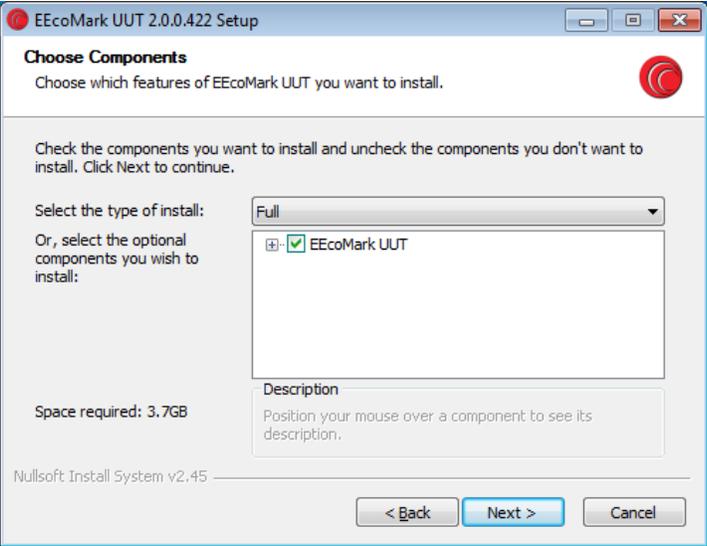


Click the “Next” button. The license agreement for the EEcoMark v2 UUT displays, as illustrated in the following screenshot:



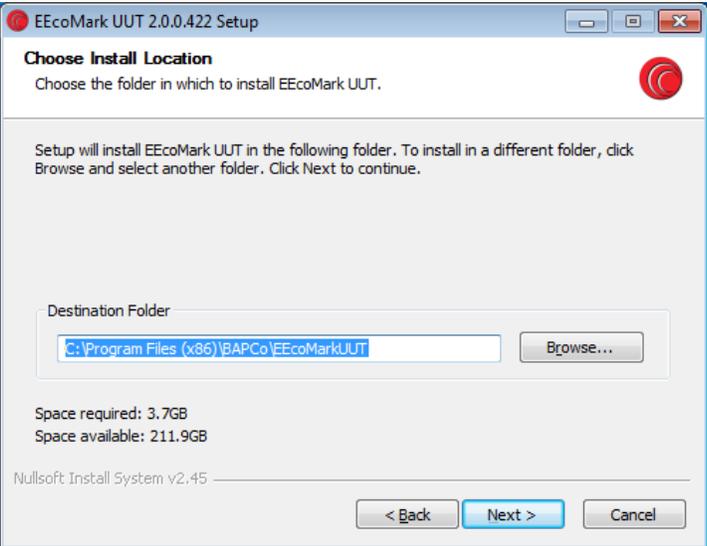
Review the agreement and select the “I accept the terms of the license agreement” button to accept the terms of the agreement.

Click the “Next” button. A window displays, as illustrated in the following screenshot:



Select “Full” as the type of installation from the “Select the type of install” drop-down menu.

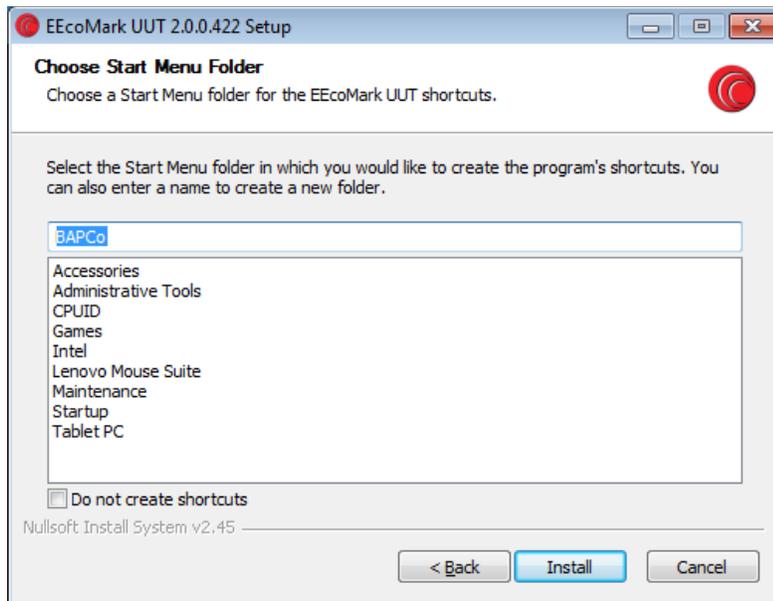
Click the “Next” button. A window displays, as illustrated in the following screenshot:



A default destination folder displays in the “Destination Folder” bar. If this location is acceptable, click the “Next” button. Select an alternative destination folder by clicking

the “Browse” button. When the acceptable location is selected, click the “Next” button.

The installation files install in the destination folder. The following window displays:



Select the Start Menu folder in which to create the program’s shortcuts.

Click the “Install” button. The following window displays:



Select the “Reboot now” option button. Click the “Finish” button.

Once the UUT has rebooted, EEcoMark will automatically launch the UUT software. Verify that EEcoMark has successfully launched by checking for the BAPCo icon in the systray.



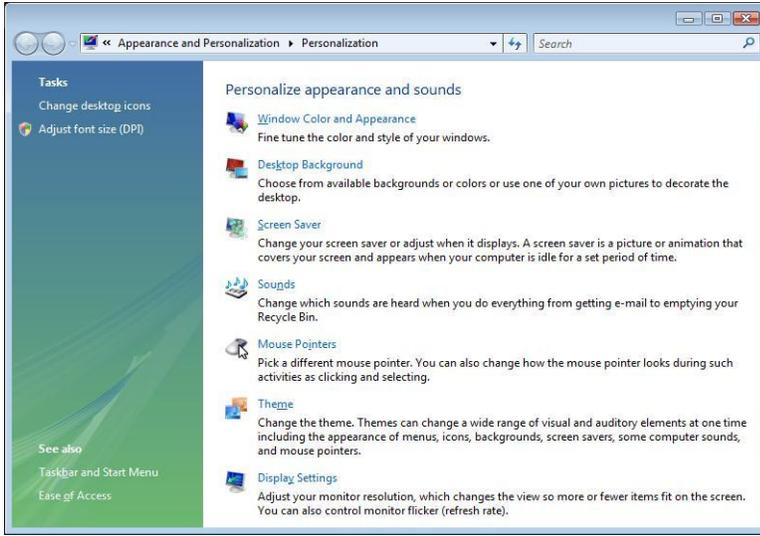
This icon indicates that EEcoMark UUT is listening for a connection from the Controller.

Setting up UUT for Testing

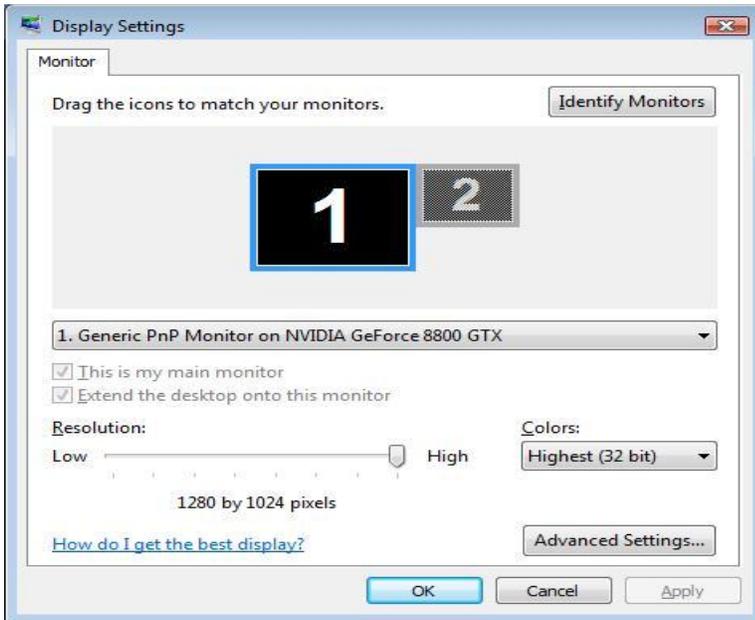
Setting Monitor Resolution

EEcoMark v2 testing methodology to be set at 1280x1024.

Right click on the desktop and select the “Personalize” option from the menu. The following window displays:



Click the “Display Settings” option. The display settings menu displays:



Select the required resolution by moving the “Resolution” slider until the value reads “1280 by 1024 pixels”.

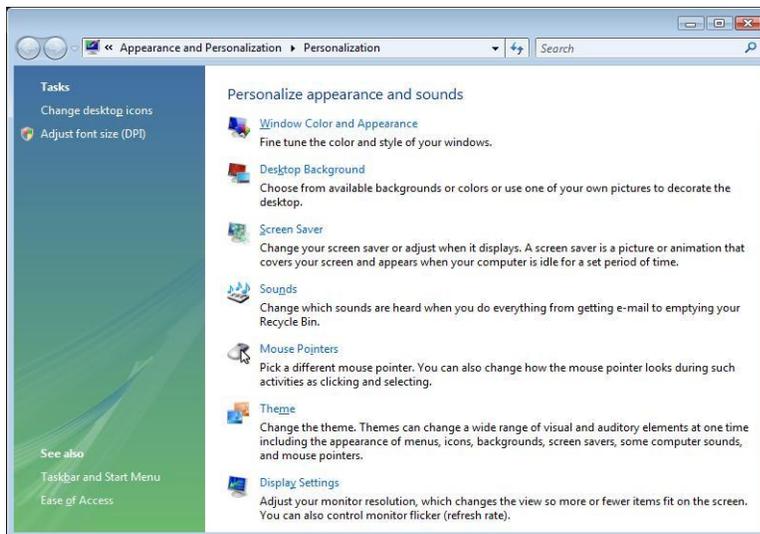
Click the “Apply” button.

Click the “Yes” button. The revised resolution settings are saved.

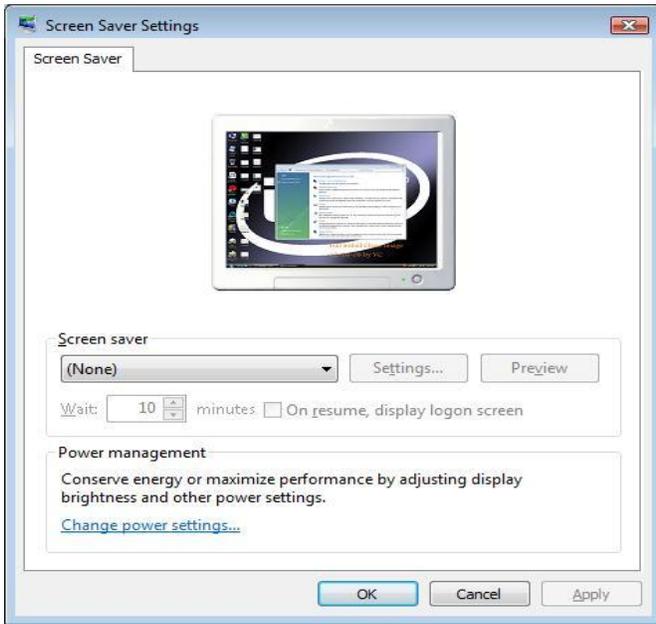
Setting Power Scheme

EEcoMark v2 testing methodology requires a specific power scheme setting.

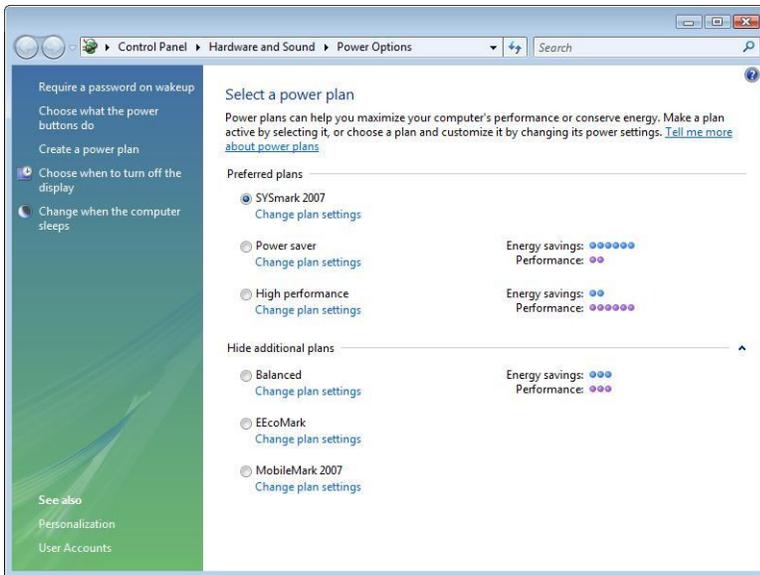
Right click on the desktop and select the “Personalize” option from the menu. The following window displays:



Click the “Screen Saver” option. The screen saver menu displays, as illustrated in the following screenshot:



Click the “Change power settings...” option. The following window displays:

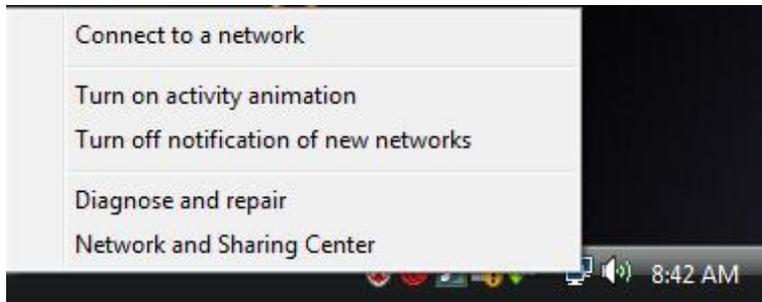


Select the “EEcoMark” option under the “Hide additional plans” section of the power options window.

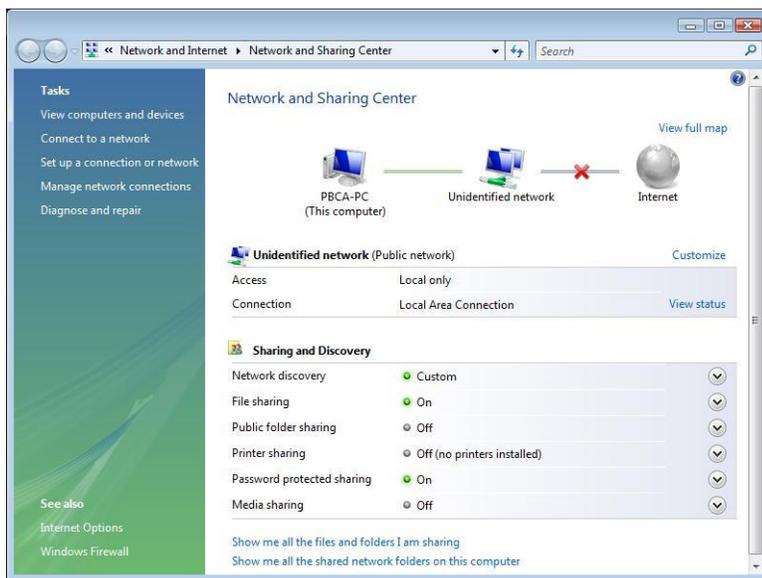
Note: The “EEcoMark” option is only present if the UUT was set up using the AutoConfig tool from www.bapco.com. If the EEcoMark option is not present, choose the OS included ‘Balanced’ power scheme. Close the power options window. The power scheme settings are saved.

Configuring UUT for Testing

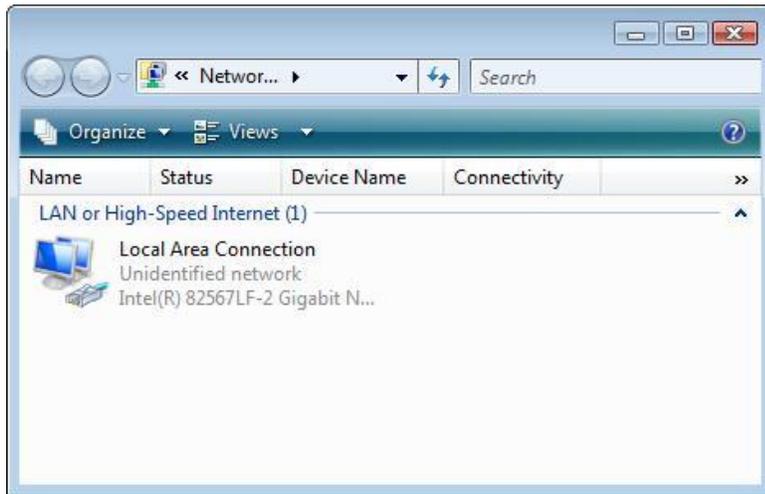
Right click on the network icon in the system tray. The following menu displays:



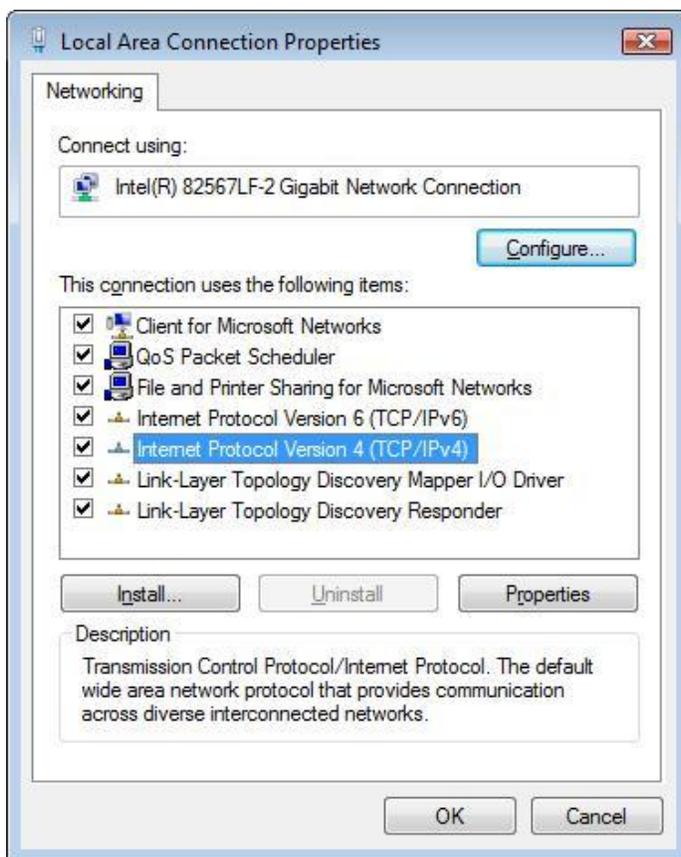
Select the "Network and Sharing Center" option. The following menu displays:



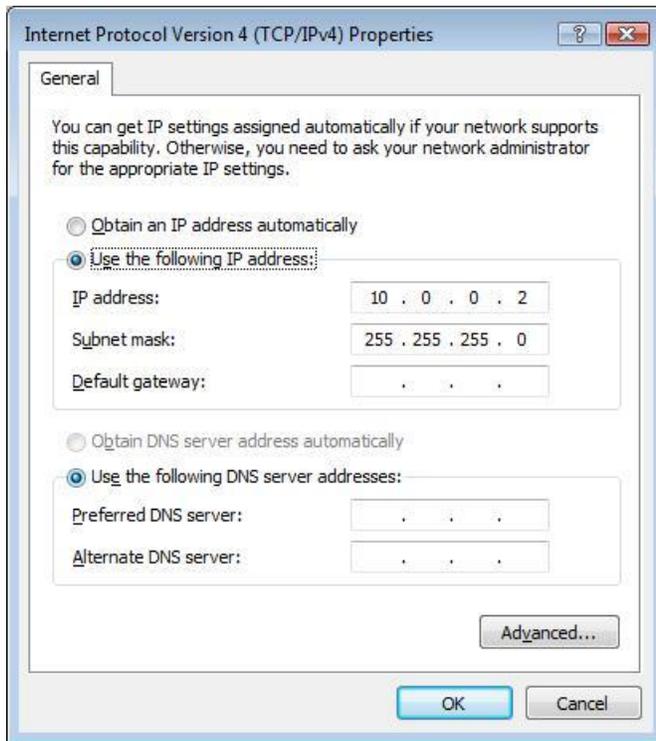
Click “Manage network connections” on the left-side pane. The following menu displays:



Right click the “Local Area Connection” icon and select “Properties” from the menu. The following menu displays:



Double click the “Internet Protocol Version 4 (TCP/IPv4)” option. The following menu displays:



Enter “10.0.0.2” in the “IP address” field.

Enter “255.255.255.0” in the “Subnet mask” field.

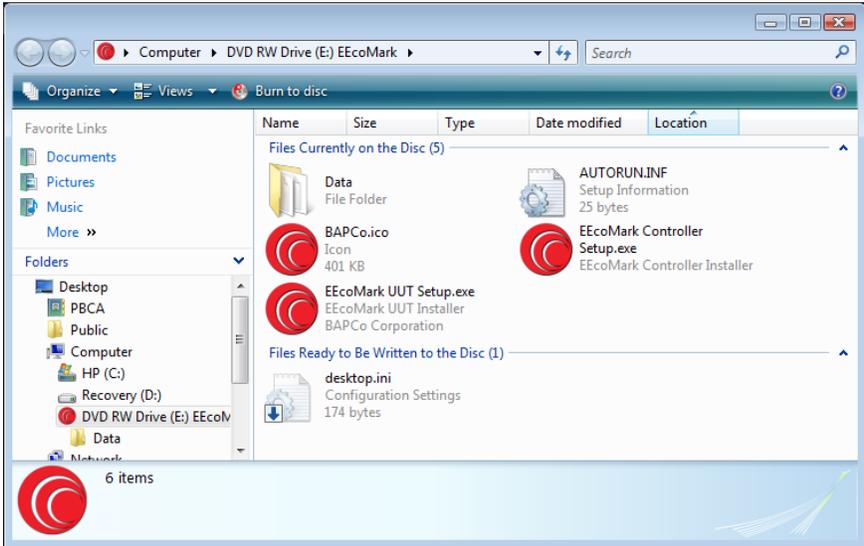
Click the “OK” button. The changes are saved.

Installing EEcoMark v2 Controller Software

Insert EEcoMark v2 DVD media into the DVD drive on the Controller. The “AutoPlay” menu displays as illustrated in the following screenshot:

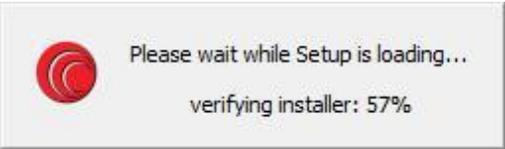


Click the “Open folder to view files” option. The following menu displays:



Click on the “EEcoMark Controller Setup” icon.

The verification installer bar displays, detailing the progress of the verification.



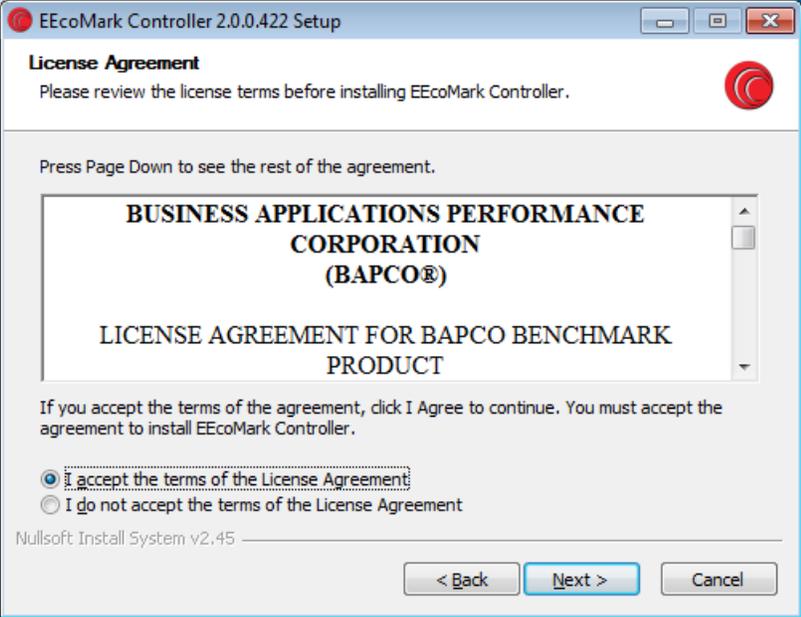
When the setup verification completes, the BAPCo logo displays .



The EEcoMark v2 UUT Setup Wizard window displays, as illustrated in the following screenshot:

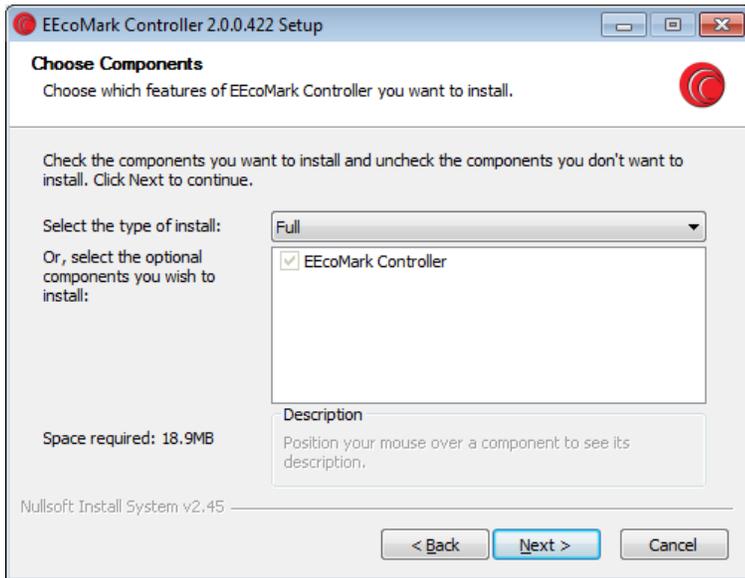


Click the “Next” button. The license agreement for the EEcoMark v2 UUT displays.



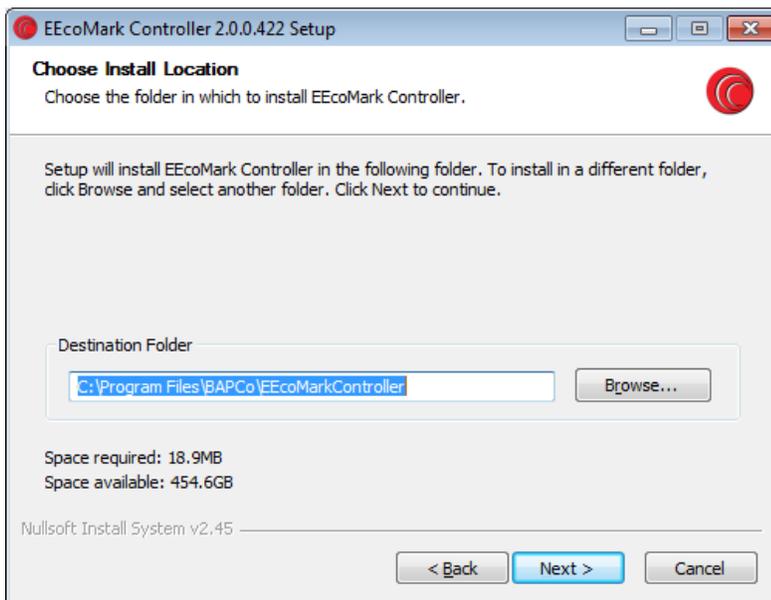
Review the agreement and select the “I accept the terms of the license agreement” button to accept the terms of the agreement.

Click the “Next” button. A window displays, as illustrated in the following screenshot:



Select “Full” as the type of installation from the “Select the type of install” drop-down menu.

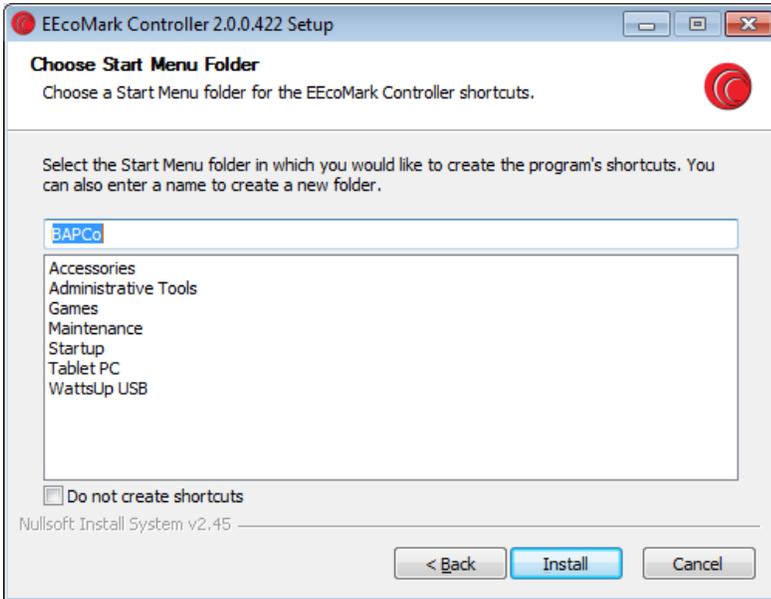
Click the “Next” button. A window displays, as illustrated in the following screenshot:



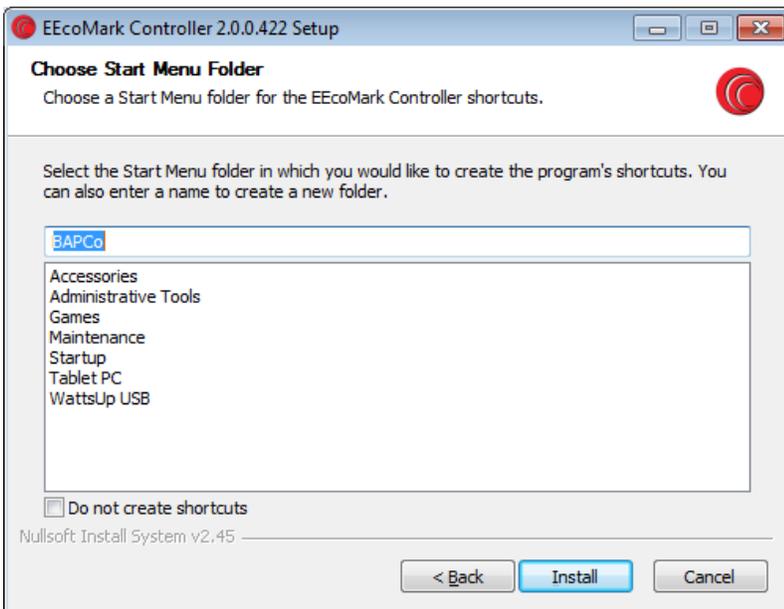
A default destination folder displays in the “Destination Folder”. If this location is acceptable, click the “Next” button. Select an alternative destination folder by clicking

the “Browse” button. When the acceptable location is selected, click the “Next” button.

The installation files are installed in the destination folder. The following window displays:



Select the Start Menu folder in which to create the program’s shortcuts. Click the “Install” button when prompted to continue the installation.



Select the Start Menu folder in which to create the program’s shortcuts.

Click the “Install” button. The following window displays:



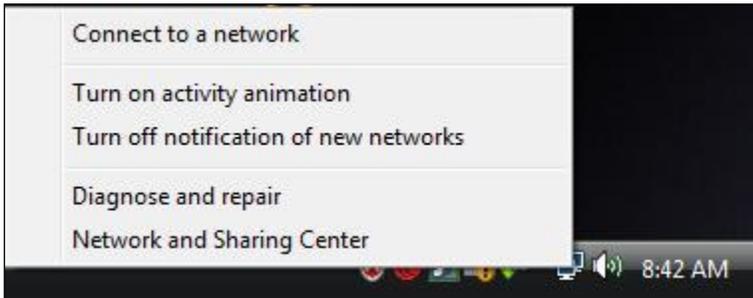
Click the “Finish” button.

A BAPCo icon displays on the Controller desktop, as illustrated in the following screenshot:



Setting up Controller for Testing

Right click on the network icon in the system tray. The following menu displays:

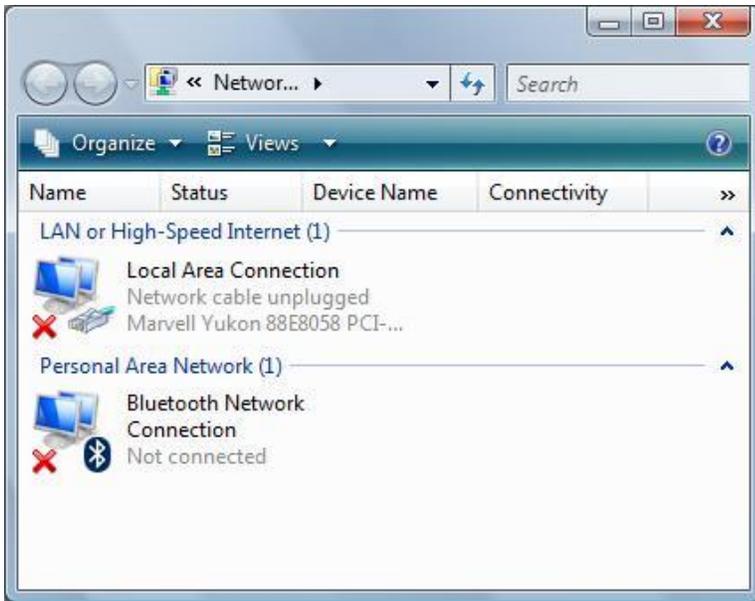


Select the "Network and Sharing Center" option. The following menu displays:

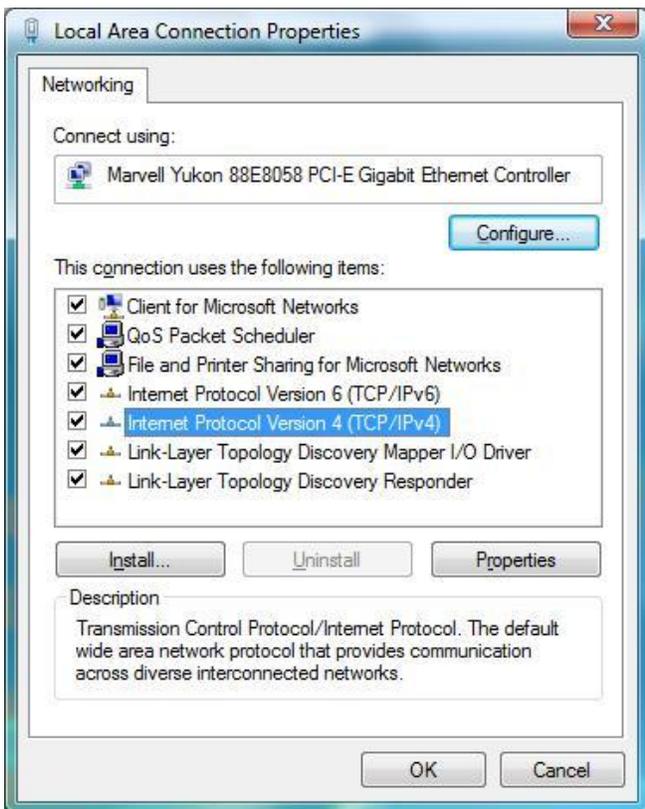


Click "Manage network connections" on the left-side pane.

The following menu displays:

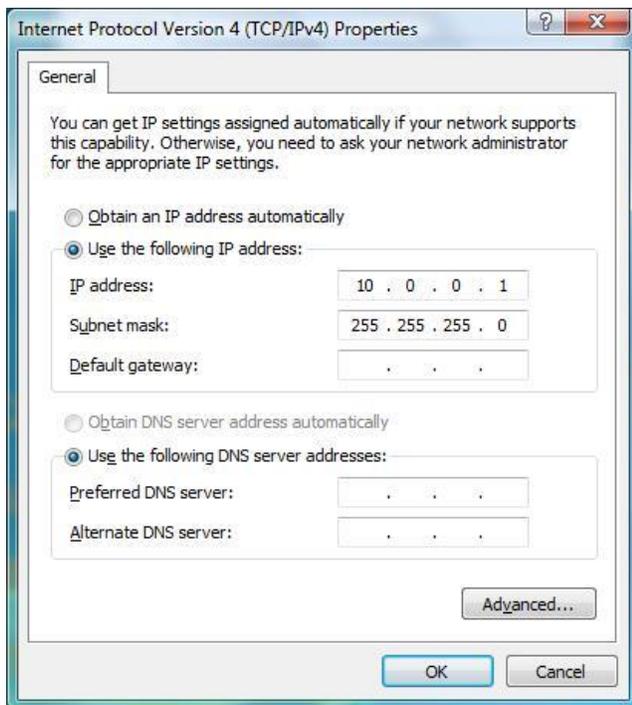


Right click the “Local Area Connection” icon and select “Properties” from the menu. The following menu displays:



Double click the “Internet Protocol Version 4 (TCP/IPv4)” option.

The following menu displays:



Enter "10.0.0.1" in the "IP address" field.

Enter "255.255.255.0" in the "Subnet mask" field.

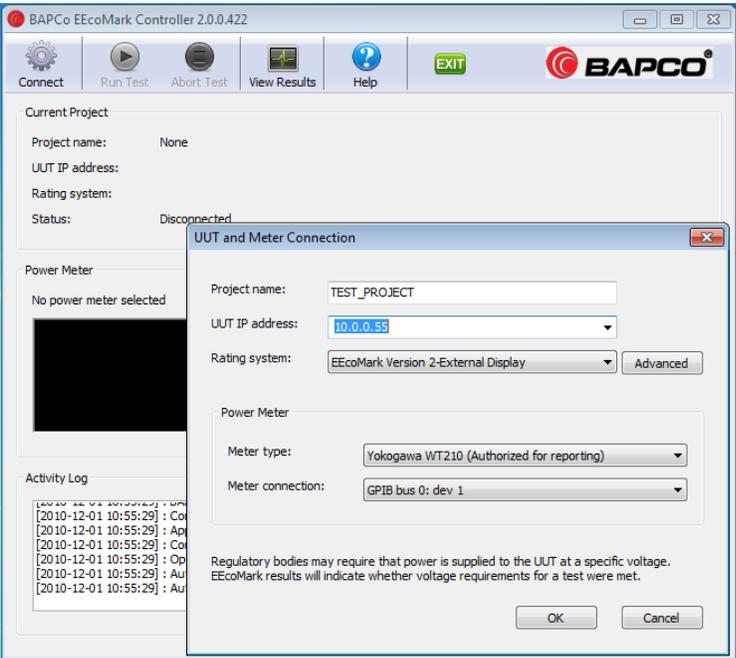
Click the "OK" button. The changes are saved.

Beginning Testing on the Controller

Double click the BAPCo icon on the Controller desktop, as illustrated in the following screenshot:



The following menu displays:



Add a project name to the “Project name” field (i.e. TEST).

Add an IP address to the “UUT IP address” field (e.g. 10.0.0.2).

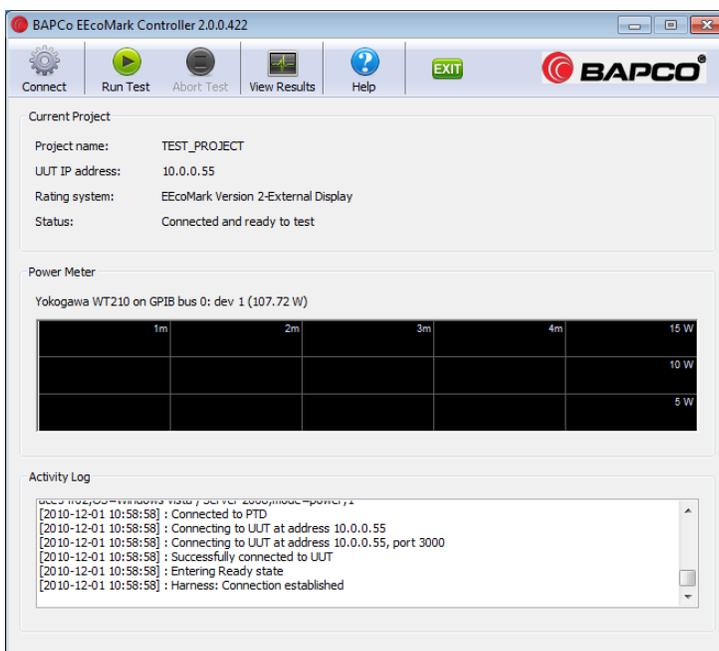
Select a rating from the “Rating system” drop-down menu (e.g. EnergyStar Version 4.0 (US)).

Select a meter type from the “Meter type” drop-down menu (e.g. WattsUpPro USB). If you are not using a power meter, select the “Null meter” option (simulated readings).

Select a meter connection port from the “Meter connection” drop-down menu (e.g. COM3). If you are not using a power meter, select the “Null port” option.

Click “OK” .

Review the status of the application as illustrated in the following screenshot:



Ensure the “Run Test” icon is green. If not, recheck the settings and repeat the process as described.

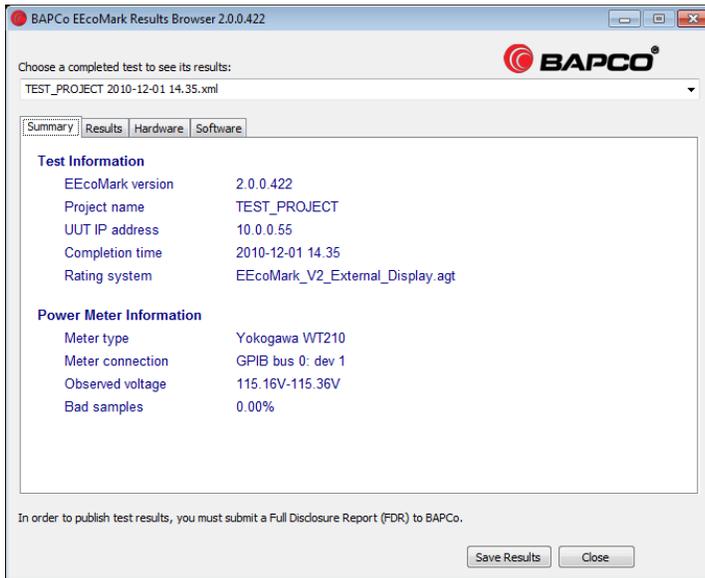
Click the “Run Test” icon. The test starts.

Reviewing EEcoMark v2 Test Results

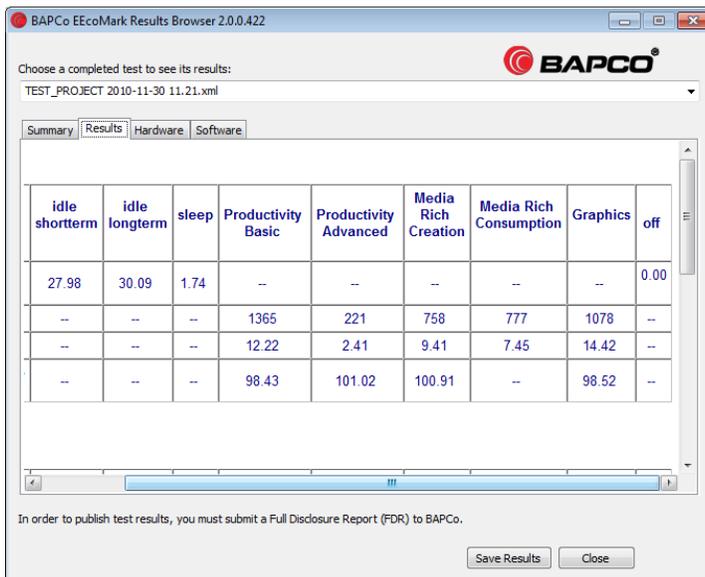
A results window displays when testing completes. You may review the results information across four tabs:

- Summary
- Results
- Hardware
- Software
-

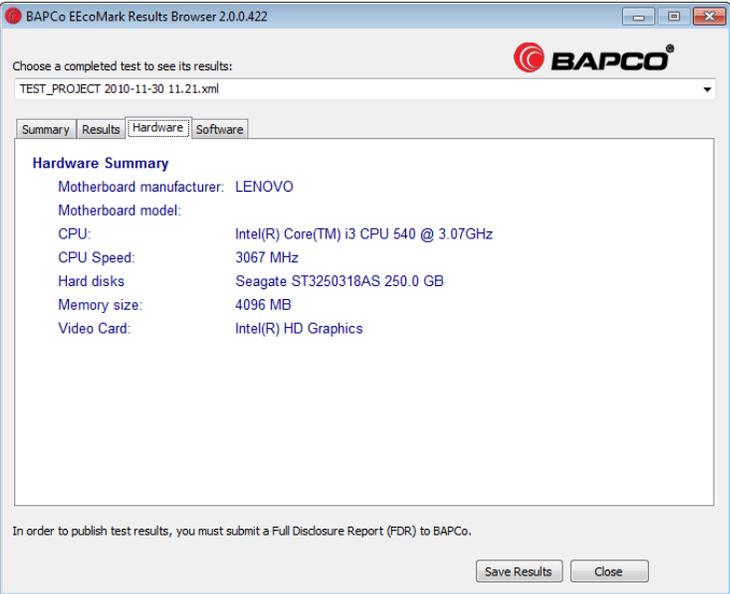
The following screenshot illustrates an example of the “Summary” tab information:



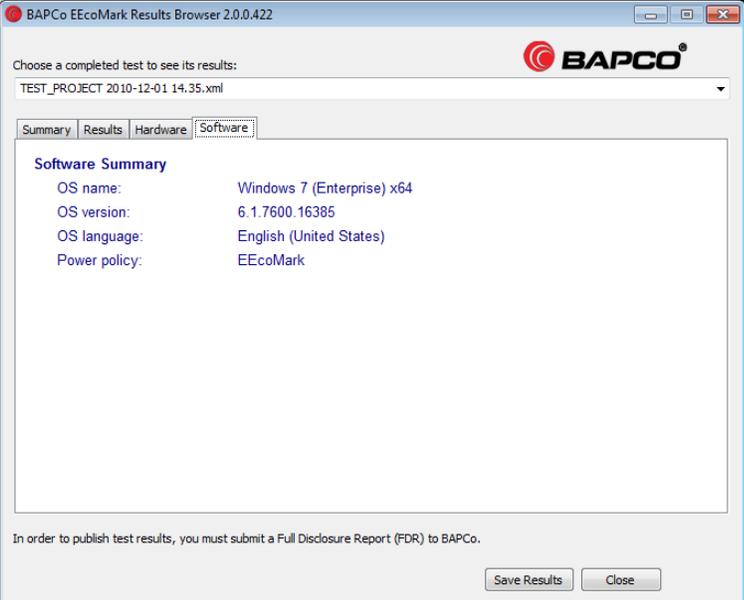
The following screenshot illustrates an example of the “Results” tab information:



The following screenshot illustrates an example of the “Hardware” tab information:



The following screenshot illustrates an example of the “Software” tab information:



Support Contact Information

In the event that further assistance is required, please contact support@bapco.com.