



Cisco EnergyWise Fast-Start Program with Verdiem Accelerator for Surveyor



At-A-Glance

Within a typical organization, IT is the second largest consumer of energy, at 25 percent of total energy consumption. Within IT, 50 percent of that energy is consumed by PCs, Macs, monitors, and network-connected devices such as IP phones, routers, switches, and PDUs. With energy rates likely to rise over the coming years, the operational cost will become even more significant.

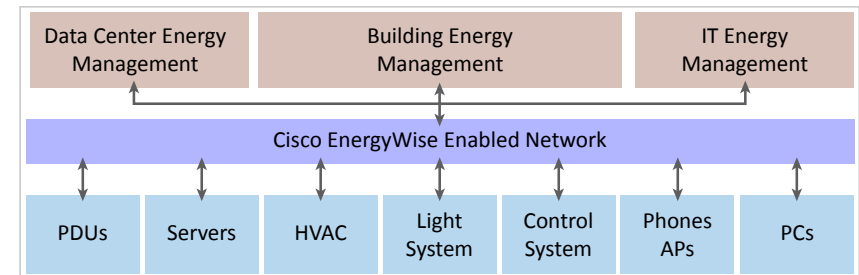
Do you rely on your end users to turn off their machines each night, or do you expect the Windows or Mac operating systems to reliably move machines to lower power states? That's a lot to assume and expect. After using Verdiem Surveyor to discover their baseline energy usage, our customers uncover a reality that is far different. They find that their PCs and Macs are "on" far longer than they expected. They also start to realize that they don't need all of their IP phones on 24 hours a day, 365 days a year. That amounts to a lot of wasted energy and money.

With some planning and more active management, you could see your IT energy consumption for these types of devices cut by up to 60 percent.

IT Energy Management with Verdiem Surveyor and Cisco EnergyWise

Verdiem combined with Cisco EnergyWise™ delivers a solution that uses the power of the existing Cisco® Catalyst® network to enable customers to analyze energy consumption, enforce policies to lower power usage, and optimize savings for enterprise information and communications technology (ICT) devices, including PCs, Macs, Power over Ethernet (PoE) devices (IP phones, wireless access points, security cameras, power distribution units, and so on), and switches.

Cisco EnergyWise is an architecture that is designed to measure and report power consumption, act on optimizing power levels, automate such optimization, and advise power consumption for devices connected to the Cisco infrastructure. Cisco EnergyWise can be used to demonstrate cost savings. Cisco EnergyWise is a Cisco IOS® Software feature available on all of the Cisco Catalyst switch platforms (2xxx, 3xxx, 4xxx, and 6xxx), Cisco Integrated Services Routers Generation 2 (ISR G2), IP phones, compact switches, and virtual desktop devices.



The protocol supports the following primary attributes:

- **Security authentication:** Authenticate between network switches, end devices and the access switch, and the management application and switching network.
- **Cisco EnergyWise keywords:** Tag devices to group by device location, department, device type, and so on.
- **Cisco EnergyWise priorities:** When devices are placed on standby, more important devices remain powered up while less important devices are powered down.
- **Recurrence time-of-day controls:** Set times when devices are placed into different power levels associated with expected business working hours.

For enterprise IT and facilities, Cisco EnergyWise uses the intelligence of the existing Cisco network to interface with the energy instrumentation of those systems and devices. Device partners in the Cisco EnergyWise partner ecosystem have the Cisco EnergyWise SDK preinstalled on their devices. Using a unified framework, it becomes much easier for Verdiem Surveyor to use the Cisco Catalyst network to deliver a robust energy management solution.

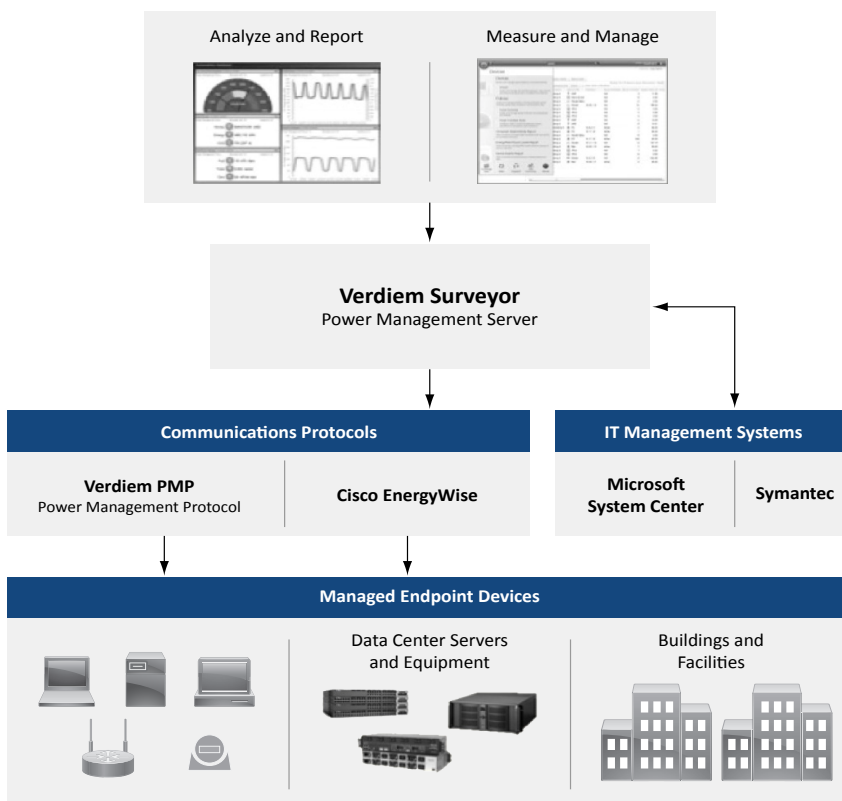
Verdiem Surveyor is an IT energy management solution that uses Cisco EnergyWise to provide enhanced capabilities to monitor and control power usage for network-connected devices deployed across the enterprise. Verdiem Surveyor is the only product with which Cisco EnergyWise enables the PC—the number-one consumer of IT energy—allowing full control to reduce costs. Surveyor is easy to deploy and quick to get started. With Verdiem and Cisco EnergyWise, you can:

- Automatically detect and organize devices
- Centrally manage power policies and handle exceptions
- Align unlimited policies with workforce activity patterns, schedules, and locations

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- Locate, diagnose, and remedy (or isolate) problematic devices
- Optimize savings using detailed user and device activity
- Get visibility into energy cost savings and CO2 emission reduction with our sustainability dashboard

In addition, Surveyor 6 has extended its leading Cisco EnergyWise support with the first solution for hot plugging of PCs connected with Cisco EnergyWise. Hot plugging allows mobile laptop users to securely reconnect and automatically rejoin a Cisco EnergyWise network as they change their physical location.



Verdiem Cisco EnergyWise Accelerator

The Verdiem Cisco EnergyWise Accelerator, part of the Cisco EnergyWise Fast-Start program, extends the benefits of EnergyWise with a limited feature, no-cost license, with the purchase and use of Cisco Catalyst 4500 Series, 3750 Series, and 3560 Series Switches. The Accelerator allows an organization to gain visibility into the energy usage of its ICT devices connected in a Cisco EnergyWise network and evaluate the savings potential from controlling energy consumption.

The Accelerator includes a Surveyor 6 subscription and support services for the following duration and device coverage:

- Perpetual energy monitoring and one year of full control of energy usage for all PoE devices and Cisco switches
- One year of energy monitoring for entire PC fleet and full control of energy usage for up to 1000 PCs
- PC hot plugging and other Cisco EnergyWise management enhancements
- Four-hour services package (virtual) for initial deployment and configuration along with free email support for ongoing questions or issues.

Verdiem Cisco EnergyWise Accelerator Functionality Details

Device Types	Visibility (Monitoring)	Basic Control (Time Based)	Advanced Control*
PoE	Unlimited devices forever	Unlimited devices 1 year	Unlimited devices 1 year
Cisco switches	Unlimited devices forever	Unlimited devices 1 year	Unlimited devices 1 year
PCs/laptops	Unlimited devices 1 year	1000 devices 1 year	1000 devices 1 year

*Advanced Control means on-demand power up/down, exception management, and remote PC access, among other capabilities.



IT Energy Consumption Is Large and Growing



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Why Cisco and Verdiem

Cisco EnergyWise provides the “connectivity tissue” to an ever-increasing set of devices and systems. Verdiem delivers rich measurement and control for the “IT plug-load,” providing highly accurate data on utilization and costs.

- **Verdiem Surveyor as a Cisco EnergyWise management console:** Surveyor can be used to measure and manage PCs, Macs, switches, routers, and PoE devices such as IP phones and security cameras. Surveyor supplies a robust set of enterprise power management features, including automatic policies, multilocation and multicurrency reporting, time-of-use energy rates, and more.
- **Verdiem as PC Cisco EnergyWise client:** When the Verdiem solution is deployed, PCs become fully operational (and manageable) Cisco EnergyWise endpoints. That means that these PCs can be managed not only by the Verdiem Surveyor, but also from other management consoles that support Cisco EnergyWise such as Cisco Prime LAN Management Solution (LMS) and Schneider Electric’s StruxureWare.

Given the large energy consumption of PCs, laptops, and monitors, it is essential that an enterprise energy management solution address these devices. The only Cisco EnergyWise solution on the market that fully enables PC measurement and control today is Verdiem Surveyor.

For more information on the Cisco EnergyWise Fast-Start Program, contact ask-energywise@cisco.com

How to Order Cisco Energywise Fast-Start SKU for Verdiem Surveyor with Catalyst 3500, 3700, 4500 series switches

At the time your order the Cisco Catalyst switches or line-cards (3560, 3750, and 4500 series), you will have the option to include Cisco EnergyWise Fast-Start SKU with Verdiem for EnergyWise at \$0 (EW-VER-50SW). You can order 1 SKU per Catalyst 3560 or 3750 series switch, or Catalyst 4500 series PoE or UPOE Line-Card. When your Cisco switch is shipped it will have a sheet with detailed instructions on how to obtain your software licenses and setup-service from Verdiem (Cisco EnergyWise Partner).

Product ID	Product Description
EW-VER-50SW	Verdiem Surveyor Accelerator Key for Cisco EnergyWise

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