

Nimsoft Monitor for Power

Practical Insights for Optimizing Energy Efficiency

Monitors

- SNMP-enabled APC and Liebert units, including uninterruptible power supplies, power distribution units, and automatic transfer switches.

Features

- Automate and accelerate problem resolution—and proactively prevent issues.
- Enable IT and cloud investments to better serve business objectives.
- Easily add additional service offerings, and commit to higher levels of service.
- Optimize operational efficiency.

Benefits

- Reduce energy consumption and costs through intuitive insights into actual energy usage.
- Lower carbon footprint through insights into resource under-utilization and other areas of inefficiency.
- Achieve consolidated views of power consumption and IT performance and availability.

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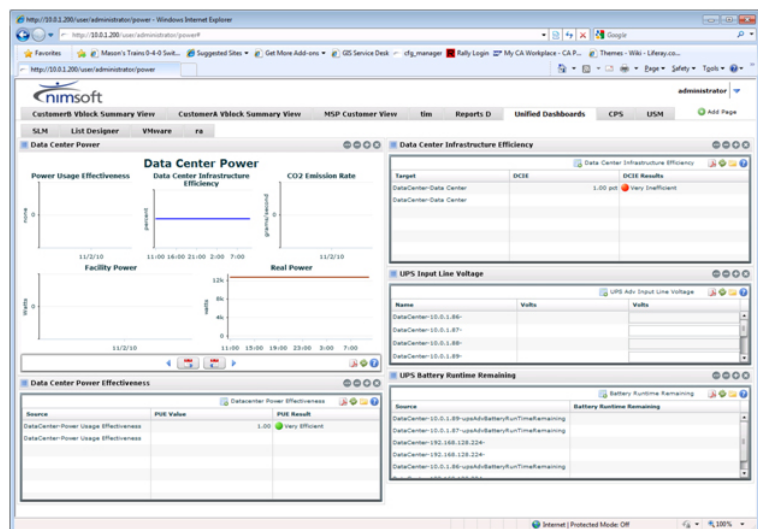
Introduction: The Power of Power Efficiency

The drivers to reduce energy consumption in the data center are clear, compelling, and plentiful. Reduce the carbon footprint. Save costs. Save the environment. For today's enterprises, the gains are significant: according to EPA estimates, organizations can improve data center efficiency by 80%, so the potential cost savings alone can be dramatic. Further, when you consider that, during a given year, the world's data centers now consume more energy than Sweden, this 80% efficiency gain can have truly global implications.

But, as the saying goes, you can't improve what you can't measure. How do businesses understand where their power is being used? How do they identify areas of inefficiency, so they can target improvements? How do they track power utilization over time so they can actually gauge whether efficiency efforts are really making a difference?

The Solution

With Nimsoft Monitor for Power, businesses gain the vital insights they need to measure and optimize their data center power usage. Nimsoft Monitor gathers data from electrical units and uninterruptible power supplies (UPS), and delivers such "Green Grid" metrics as data center power efficiency, power usage effectiveness, and overall data center efficiency. With these measurements, data center operators can quickly understand the energy efficiency of their data centers, compare the results against other data centers, and identify areas for making energy efficiency improvements.





A Complete Picture of Data Center Performance

In a typical data center, servers require about 50% of infrastructure power, while cooling and power conversion systems soak up the remaining total power. With Nimsoft Monitor, organizations gain a complete picture of infrastructure performance and power usage, so they can most intelligently optimize efficiency, up time, and scalability.

With the Nimsoft Monitoring Solution (Nimsoft Monitor), you can monitor and manage all business applications, from the datacenter to the cloud, including SaaS, hosted, and virtualized environments—all with a single product, architecture, and console. With the addition of Nimsoft Monitor for Power's insights into energy utilization, organizations are well equipped to identify areas of under utilization, and other opportunities to realize improved efficiency, without compromising infrastructure performance in the process.

About Nimsoft

Nimsoft is a global leader in IT Management-as-a-Service. The company's lightweight ITMaaS solutions make it easy for enterprises and service providers to implement comprehensive, adaptable monitoring and service desk capabilities essential for managing today's dynamic computing environments. Learn more at www.nimsoft.com.

Essential Capabilities for Tracking Energy Consumption

Nimsoft Monitor offers a host of capabilities that make it easy and efficient to monitor data center power usage:

- **Power efficiency calculations**—enable configuration and automated generation of power usage effectiveness (PUE) and data center efficiency (DCE) metrics.
- **Sample intervals**—offer control over how often measurements for specific variables are gathered.
- **CO2 multiplier**—uses aggregated power measurements to calculate the daily rate of the data center's CO2 emissions.

Monitoring Specifics

The solution can gather these metrics:

- UPS Output Power
- UPS Input Voltage
- UPS Output Current
- UPS Battery Status
- UPS Output Voltage
- UPS Output Status
- UPS Battery Temperature
- UPS Battery Time Remaining
- UPS Phase Output Power
- UPS Phase Input Power
- PDU Output Power
- PDU Output Apparent Power
- PDU Total Output Power
- PDU Total Output Power Factor
- PDU Output Power Factor

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