



## Power IQ

Energy management via a single Web interface.

### Platform Options

- ▶ VMware® Virtual Appliance
  - Our application software, database and hardened Linux® operating system are fully tested and ready to load on your VMware platform
  - Tested with ESX™, ESXi™ and Player
- ▶ Raritan Hardware Appliance
  - Our application software, database and hardened Linux operating system are loaded onto our enterprise-class, rack-mountable 2U server with dual power supply and redundant fans



**Winner of "Outstanding IT Product"**  
for Power IQ Energy Management Software and PX™ intelligent power distribution units (iPDUs)

## Data Center Energy Management A Solution That Helps You Be More Energy Efficient

For data center and lab managers who are concerned about the utilization and the cost of power, Power IQ enables you to reduce capital and operating expenditures by providing the information and controls you need to be more energy efficient.

Power IQ provides centralized monitoring, graceful OS shutdown, outlet control, powerful thermal and energy analytics of your active power, costs, line capacities, carbon footprint and rack temperature. Trending reports and cumulative totals can be displayed at the data center, floor, room, rack, customer and IT device level. You can generate customer energy billback cost reports in local currency with one click. Through one Web browser, the scalable Power IQ manages PDUs made by APC®, Avocent®, BayTech®, Cyber Switching®, Geist, HP, Knurr®, Liebert®, MRV®, Raritan, Rittal®, Server Technology®, UNITE™ and more.

### Efficiently Utilize Energy

Power IQ provides you with valuable information and automated control that can help you gain efficiencies in the data center right away, including:

- ▶ Baseline energy consumption and track changes by IT device, rack, zone, customer, department and data center
- ▶ Easily see if you are operating within industry-accepted – and server manufacturers' recommended – temperature and humidity ranges
- ▶ Estimated savings calculation from increasing temperature to upper limit of recommendations
- ▶ Temperature threshold alert monitoring and trending, to safely manage environmental conditions
- ▶ Energy cost billback reports with one click
- ▶ Remote power on/off outlet groups
- ▶ Graceful agentless shutdown of system operating systems

### Make Informed Capacity Planning Decisions

Power IQ supplies actual load of IT devices under computing stress to provide you with better planning information.

- ▶ Collect short- and long-term data and compare to rated capacity to update design assumptions
- ▶ Monitor trends, alerts and threshold violations to understand future needs

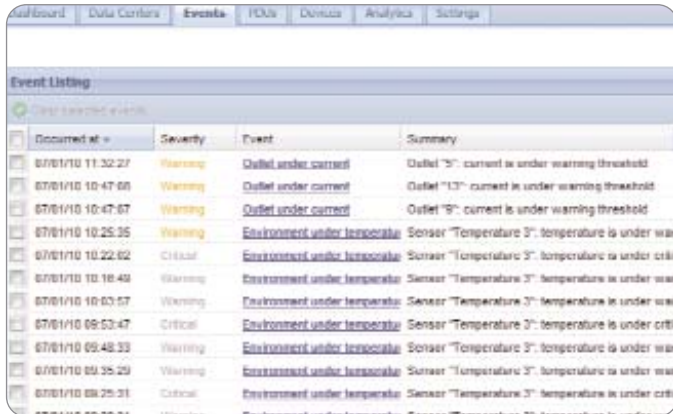
### Open Standards-Based System Architecture

- ▶ Web Service API – for easy integration with your systems and custom programs
- ▶ LDAP/AD support offers easier centralized authentication
- ▶ Open database compliant system allows for easy information sharing

# More informed capacity planning and energy efficiency in minutes

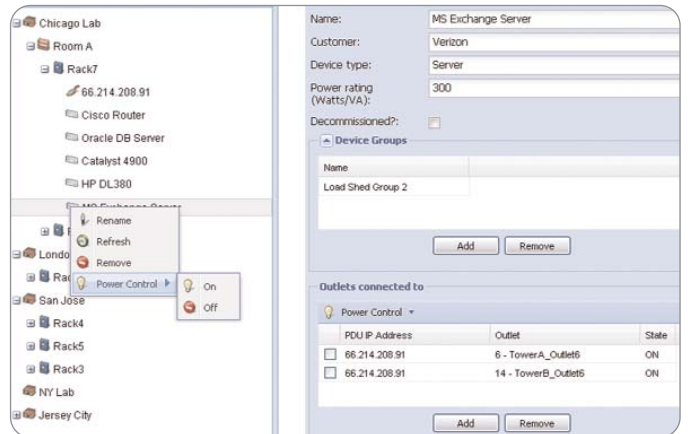
## Vendor Agnostic Monitoring and Management

Through one Web browser, the scalable Power IQ monitors and manages PDUs from APC, Avocent, BayTech, Cyber Switching, Geist, HP, Knurr, Liebert, MRV, Raritan, Rittal, Server Technology, UNITE and more.



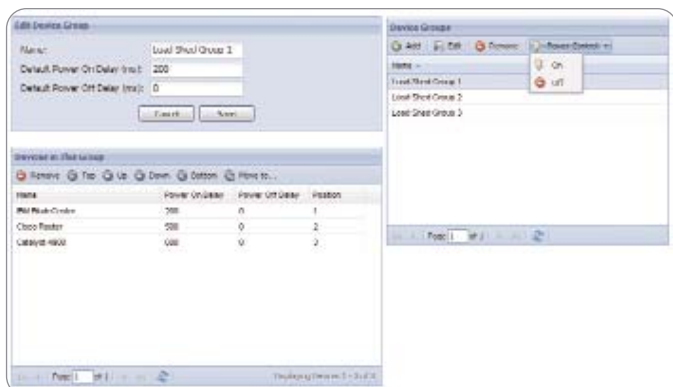
## Power Control

Easily perform remote power control of outlets, IT devices and groups of IT devices with power sources spanning multiple rack PDUs.



## Power Control of Device Groups

Control power to a device group with configurable on/off sequence and delay of IT devices within the group.



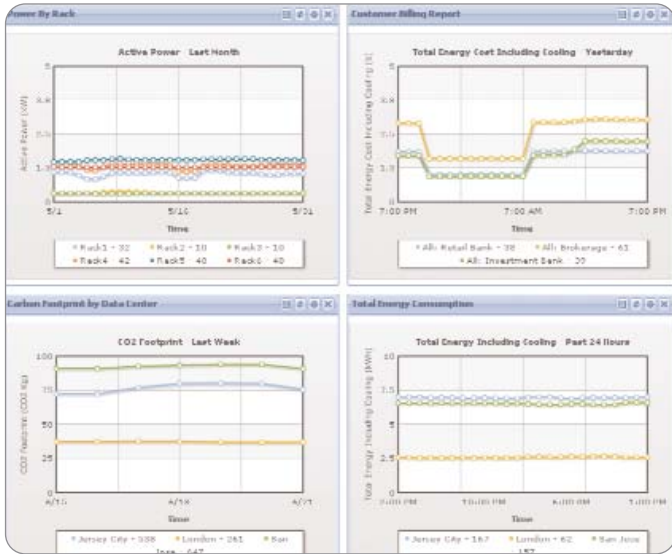
## Agentless Graceful Shutdown

Schedule one-time or recurring shutdowns of operating systems and outlets for efficiency or maintenance purposes. Use standard or custom scripts.



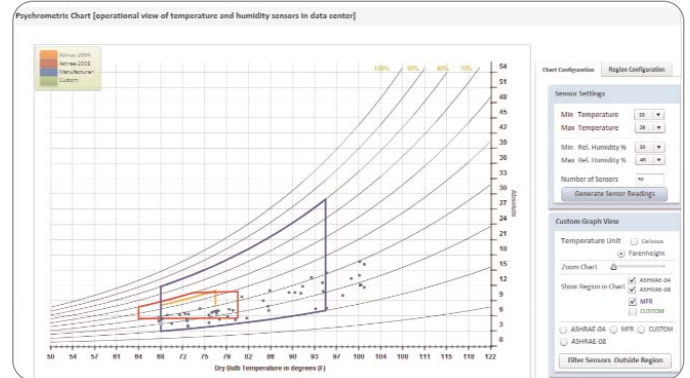
## Power and Energy Analytics

Create an unlimited number of charts, such as active power by rack, carbon footprint by building, department billback and total energy consumption.



## Cooling Chart

Understand if you are compliant with manufacturers' and industry-accepted recommendations, and project how much you can save by increasing room ambient temperatures.

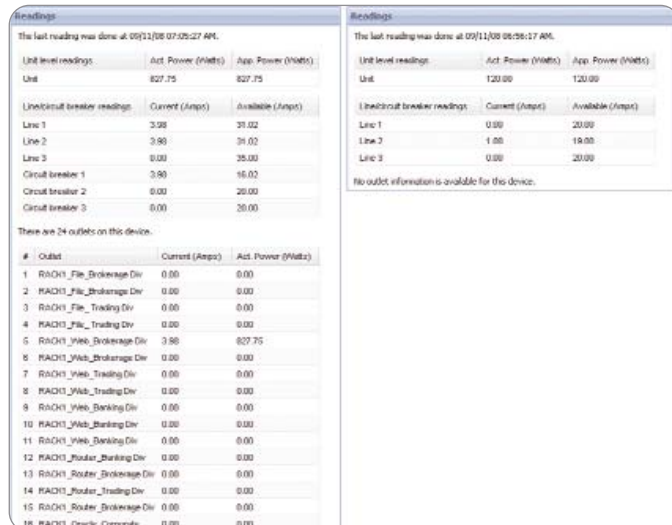


## Outlet-Level and Line Metering

Chart actual energy consumption at the IT device level to better support your energy conservation programs.\*

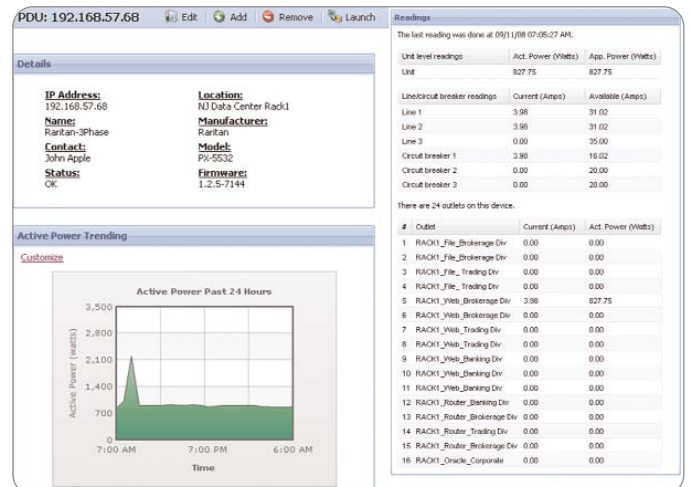
### Outlet-Level Metering

### Line Metering



## PDU Page

View details about the PDU, such as manufacturer, model, serial number, firmware, voltage and current ratings, location and status.



\*Depends on the intelligence of the rack PDUs.

## Monitoring and Management

- ▶ A central management console consolidates names, polling status, location, model and firmware onto one screen, saving valuable management time
- ▶ Bulk configuration and firmware distribution for PX PDUs
- ▶ Power and environmental events and notifications

## Automated Power Control

- ▶ Remote power control of outlets, IT devices, device groups and racks
- ▶ Agentless graceful operating system shutdown

## Power and Environmental Data Aggregation

- ▶ User-configurable collection intervals ensure desired accuracy while minimizing network traffic
- ▶ Aggregate active power, current, temperature and humidity data

## Reporting and Charts

- ▶ Energy, cost and carbon consumption reports keep customers and/or internal departments informed
- ▶ Chargeback reports
- ▶ Exception reports help you find stranded power capacity
- ▶ Trending and status reports help you easily see future capacity needs
- ▶ Thermal analysis – temperature and humidity compliance reports

## Open Data Model

- ▶ Web Service API – for easy integration with your systems and custom programs
- ▶ Open database connectivity capabilities let you use your existing data warehouse and reporting system to generate custom reports
- ▶ Import and export data via CSV file

Through one Web browser, the scalable Power IQ manages PDUs by APC, Avocent, BayTech, Cyber Switching, Geist, HP, Knurr, Liebert, MRV, Raritan, Rittal, Server Technology, UNITE and more.

“Power IQ easily allows me to manage and forecast my power needs in the data center. The centralized aggregation of my power consumption will be invaluable in planning future data centers and analyzing future power needs.”

– **Matt Pusateri**  
Systems Administrator  
WebAssign

## Create Custom Reports

**Report via:**

- ▶ Active power
- ▶ Energy
- ▶ Carbon
- ▶ Cost

**Report via:**

- ▶ Outlet
- ▶ IT device
- ▶ Customer
- ▶ Department
- ▶ Rack
- ▶ Zone
- ▶ Floor
- ▶ Data center

## Export Graphed Data to CSV

**Click to export any graphed data**

Active Power (kilowatts)

Time

Berlin - 1079.35 Berlin - 722.82

**Ready to learn more about Raritan's Power IQ?**

Call +31 (0)10 284 4040 or visit [www.raritan.eu/poweriq](http://www.raritan.eu/poweriq) today.

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