

# Turn our energy insight into data center energy savings.

Schneider Electric energy management services enhance your data center's business value.



**Schneider**  
Electric™

Energy sustainability = business sustainability



Today, energy waste is not just an environmental concern. It's a business concern as well.

As energy costs and demand for power continue to skyrocket, running your data center efficiently has become just as mission-critical to your company's bottom line as maintaining uptime.



How can you adequately achieve both short-term and long-term energy efficiency gains? The answer is simple: Schneider Electric data center energy management services. As The Global Specialist in Energy Management™ and the industry's thought leader in data center power and cooling, we can help you assess, audit, monitor, and manage energy use across your entire data center physical infrastructure – from building to rack.

### Turn energy insight into energy savings.

Schneider Electric™ energy management specialists place efficiency recommendations within the context of availability, capacity, flexibility, and performance. Our services help streamline energy use while safeguarding your uptime. We can reduce energy spend by helping you right-size your infrastructure, optimize airflow, run equipment at efficient levels, and optimize your use of data center space. And we ultimately can keep you better positioned to focus on business-critical spending and operations, ensuring that your data center is Business-wise, Future-driven™.



### Data center energy: know the costs!

- Energy typically is the fastest growing expense in a data center
- Energy often consumes up to 30 percent of an operating budget
- The total cost of energy to run a data center can cost as much as the actual cost of the equipment itself

## Enhance your data center's energy management life cycle.

At Schneider Electric, we take a comprehensive approach to data center energy management services to enhance your data center's business value by ensuring energy and operational efficiency, protecting availability, and reducing total cost of ownership.

Our energy management services are designed to improve and maintain your data center's business value throughout its life cycle by keeping the following questions at the forefront of data center operations.



Our comprehensive approach to energy management throughout the data center life cycle.



### Benefits of energy management services.

Overall reduction in both OpEx and CapEx.

- Reduced energy consumption.
- Alignment of IT and infrastructure needs with high efficiency.
- Achievement of business objectives.

Increased visibility/accountability with monitoring.

- CFO access to energy cost information.
- Compliance with energy supply contract requirements.

Improved reliability and performance.

- Limiting number of equipment/system failures.
- Extended equipment life.
- Optimized space requirements.

Attainment of green initiatives.

- Lower carbon footprint.





★  
50%

of the world's CO<sub>2</sub> emissions reduction will come from end-user efficiency by 2035\*

\*Source: International Energy Agency. Jakarta presentation. November 2010.

## How am I performing?

Data center assessments can yield immediate savings opportunities while also improving energy efficiency for the long haul. The following services lead to sustainable efficiency gains by identifying systemic issues affecting your energy usage within the context of data center performance:

### Walk-through Audit

- Basic data center assessment of power, cooling, rack management, utility usage, and basic efficiency
- Recommendations that pay back quickly in energy savings and improved reliability

### Comprehensive Assessment

- Energy efficiency assessment
- Power and cooling assessments
- PUE, CFD, density/capacity, carbon usage to include facilities space, power, security, metering, etc.
- Retrofit/design/build solution options with full ROIs
- Schneider Electric implementation of recommended solutions



Achieve immediate and long-term energy savings through system improvements.

## What is my strategy?

We can work with you to develop a coordinated energy management strategy that focuses on your priorities — whether cost savings, risk reduction, flexible use of equipment, cloud/virtualization models, or a combination thereof. We take a partnership approach to energy management strategy to ensure that you're meeting your goals and objectives at all times.

### Energy Management Strategy Services

- Energy intelligence
- Energy financial modeling of data center infrastructure
- Maintenance strategy
- Consulting to evaluate current situation and provide benchmark data
- Goal setting based on financial, performance, and environmental objectives
- Action plan development

## How do I buy?

Through Summit Energy by Schneider Electric, we can help you to negotiate energy rates with your provider. If you'd prefer, we even can manage your provider relationship, offering guidance on whether to buy in bulk, to wait for rate changes, or to secure rates, and other ways to optimize your energy management strategy.

### Energy Procurement Services

- Obtain purchasing recommendations from our energy procurement specialists
- Identify the best suppliers and the best price
- Manage the risk and detect opportunities regarding your energy supply



Our partnership approach to energy management ensures that your energy is best managed at all times.



"We'll certainly continue with Schneider Electric into the future for this type of work!"

Mr. Nocilli – Energy Manager  
Coca Cola® HBC Italy



The first step to controlling energy use? Seeing it through remote monitoring! Our StruxureWare™ for Data Centers software keeps you on top of your energy use at all times.

## How do I control (monitoring)?

You can't streamline energy use if you can't see it. Our remote energy monitoring takes a rack-to-row-to-room-to-building approach to provide comprehensive visibility of all energy that touches your data center operations in some way. This crucial step is essential for an effective and realistic energy management strategy.

### Remote Energy Monitoring Service

- Energy management and monitoring software
- Facility performance monitoring
- Data center operations management

## How do I optimize?

Whether you have an existing data center or are planning to build a new one, we can help you optimize your energy use. For retrofits, we recommend changes (e.g., room configuration redesigns, air distribution improvements) to streamline energy consumption. For new builds, we can help you make energy-efficient design decisions that set you on the right path toward meeting your overarching energy goals.

### Retrofit Services

- Energy audits
- Air distribution redesign and implementation
- Improved energy efficient systems, including UPS and electrical
- Cooling architecture design
- Modification of systems to increase availability

### Design/Build Services

- Certification services
- Performance contracting
- New or consolidated data centers
- Project management and commissioning



Even legacy or traditional data centers can realize efficiency gains through system-wide retrofit services.

To learn more, visit us at:

[www.schneider-electric.com/DCEnergyManagementServices](http://www.schneider-electric.com/DCEnergyManagementServices)

Make the most of your energy<sup>SM</sup>

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