



U.S. Department of Energy
**Energy Efficiency
and Renewable Energy**

Bringing you a prosperous future where energy
is clean, abundant, reliable, and affordable

Federal Energy Management Program

Save Energy Now in Federal Data Centers

Held in Conjunction with GovEnergy2008

August 7, 2008 • Phoenix, Arizona

Whether it's a closet or a standalone building, data centers are growing in importance and energy consumption. They can be up to 100 times more energy intensive than standard office buildings. Significant opportunities are available to improve the efficiency of the data center infrastructure as well as the computational equipment.

This **one-day workshop** will provide information on state-of-the-art strategies to improve data center energy performance. While it will be targeted towards facility engineers, managers and operators, information technology (IT) professionals and project managers will also benefit from attending. Optimum performance requires a holistic system approach and an integrated project team.

*Sponsored by the
Federal Energy
Management Program (FEMP)
and Save Energy Now
U.S. Department of Energy*

Save Energy Now in Federal Data Centers

Attendees Will Learn...

- Major sources of energy use in data centers
- Opportunities to increase computational efficiency and the multiplier effect
- Energy intensity growth of data centers
- Benchmarking results
- Best practices to improve infrastructure efficiency of existing and new data centers
- Technologies coming down the R&D pipeline
- Information and technical assistance resources

Specific Best Practices Include

- Air management techniques, including hot and cold aisle isolation
- Right sizing – designing for high part load efficiency and growth
- Central plant optimization
- Efficient air handling and controls
- “Free” cooling
- Humidity control
- Liquid cooling
- Improving the power chain

Who Should Attend

- Facility Engineers
- Facility Managers
- Facility Operators
- IT Professionals
- Project Managers

Data Center Facts

From 2000 to 2006 the power used to operate data centers doubled.

If current efficiency trends continue, power consumption by servers and data centers will **double again in the next five years**, requiring ten additional power plants.

Energy intensive facilities, including datacenters, account for \$0.93 billion in Federal energy costs, equating to 6.4 percent of Federal energy spending.

The world's data centers are projected to surpass the airline industry as a greenhouse gas polluter by 2020.

Registration

To register or for more information, please visit

<http://www.govenergy.com/training.html>

or send an email to

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