

ASHRAE/DOE Data Center Energy Efficiency Workshop

August 15, 2010
8:00 a.m. – 5:00 p.m.
Dallas, Texas



Presented in Conjunction with GovEnergy

Data centers are extremely energy intensive. They account for approximately 1.5% of the United States' power consumption, and their demand is growing at 12.5% per year. Consequently, the Federal Government has placed emphasis on increasing energy efficiency in data centers. Executive Order 13514 instructs data center operators to implement best management practices in data centers.

This workshop will show you how to get started!

Workshop Content

The American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) in collaboration with the Department of Energy (DOE) is offering a full-day workshop focusing on opportunities for improving energy efficiency in datacom facilities. The workshop supports the DOE's vision to create guidelines for continuous improvement by inspiring data center owners to take action now to begin reducing energy. The workshop will address:

- Data centers' unique challenge
- Cooling Services & Systems
- Electrical Services & Systems
- IT Requirements, Interfaces, etc.
- Data Center Efficiency Programs to Support Federal Projects

Course Materials

Workshop attendees will receive:

- Workbook with copies of all presentation slides
- CD with all presentation slides
- Voucher for one free ASHRAE datacom book
- 50% discount coupon for other ASHRAE datacom books

For more information or to register for the DOE/ASHRAE Data Center Workshop, please contact ayoung@energetics.com or visit the GovEnergy website, <http://www.govenergy.gov/events.html>.



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Speaker Bios

David Quirk, P.E. **Verizon Wireless**

David Quirk is a senior engineer with Verizon Wireless – Network Compliance Organization and is based in their world headquarters in Basking Ridge, New Jersey. He is responsible for managing the design and construction of VZW's critical network facilities (Mobile Switching Centers, cell sites, and Network Equipment Centers) throughout the U.S., including Network Standards development and administration. He manages and personally conducts the design and quality assurance reviews of all critical network facilities for VZW. As senior engineer of the MSC Building Program, David's primary goal is to ensure that all Network Buildings meet VZW's Network Standards for quality, reliability, safety, code compliance, and cost controls. David oversees VZW's national network for compliance to Building Network Standards for all Building related components and systems, including fire protection, structural, HVAC, architectural, security, plumbing, civil, and network space planning. He is responsible for ensuring a proper match between building infrastructure and network systems to allow reliable and seamless growth of VZW's Network.

Don Beaty **DLB Associates Consulting Engineers**

Don Beaty started DLB Associates Consulting Engineers in 1980. The firm is active globally and has provided services for datacom facilities in over 35 states. DLB has designed all Google owned data centers worldwide.

Don was Chair of ASHRAE Technical Committee TC 9.9 (mission critical facilities, technology spaces, & electronic equipment) from its inception through June 2006. His interest in educating the industry about ASHRAE being the unbiased source of data center cooling material has resulted in Don publishing over 50 technical papers and articles. He also is a frequent presenter on the subject, having presented in 13 countries on the topic of data center cooling. Don is currently International Chair TC 9.9 Committee-Liaisons, Alliances and International Activities. Previously, Don served on ASHRAE TC 90.1 (energy standards committee) from 1993 to 2007 serving in various roles and as Vice-Chair.