

# Data Centers & Servers Committee – Making Use of Member IT Expertise to Inform Data Center & Server Programs

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3:30 – 5:00 pm Pacific



Figure 1 The National Energy Research Scientific Computing Center (NERSC) operated by LBNL

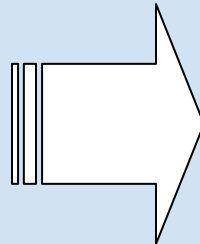
# Breakout Agenda

- 3:30 – 3:40: Introduction and Background
- 3:40 – 4:30: Presentations
- 4:30 – 4:50: Questions & Discussion
- 4:50 – 5:00: Wrap-up

# CEE Data Centers & Servers Initiative

## Challenges

- Lack of efficiency definitions for equipment & data centers and need for consistent metrics and test procedures
- Split incentives between IT & facility managers
- Risk aversion and barriers to EE acceptance – reliability and uptime concerns trump others



## CEE Initiative Objectives

- Developing & supporting consensus-based definitions and performance specs
- Facilitating our collective understanding of opportunity, market players & industry motivations
- Identifying recommended program strategies to help move more of the market to a preferred outcome

# CEE Data Centers & Servers Initiative

## Scope:

	Technology Lens	
	System/ End Use	% DC Energy Consumption
IT Systems	Servers	40%
	Storage & network equipment	10%
Facilities Support Systems	Cooling	25%
	Power distribution	11%
	Other infrastructure	14%

Energy Management Lens
✓ Data center benchmarking
✓ Design support
✓ Operations & maintenance
✓ Energy Awareness
✓ Procurement support
✓ Power (demand) management and planning

# CEE Data Centers & Servers Initiative

## Activities:

- Established Data Centers and Servers Committee
- Active participation in the related ENERGY STAR data center and server program
- Monitor and vet other national initiatives, including U.S. DOE's data center assessments and industry developments
- Support common program "blueprint"



# Session Objectives

To discuss and obtain a better understanding of:

- IT management decision-making, major drivers and how efficiency benefits align with what IT managers care about
- Recent member data center projects, barriers encountered and strategies used to overcome barriers
- Efficiency measures taken, rationale, energy savings results, non-energy benefits realized, and other project outcomes
- How internal corporate lessons learned may translate into effective data center/high tech program design

# Presentations

- **Shea Dibble & Aaron Merrill, Sempra Utilities (SDG&E)**
- **David Rogers, BC Hydro**