



SEG Workshop on HPC

Best Practices and Future Requirements for HPC Data Centers

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E&P IT&S

Slide 1

Panel Discussion: Best Practices and Future Requirements for HPC Data Centers



- Keith's Assertion: Power and Cooling requirements at Large HPC Data Centers have grown at an average of 10%/year since clusters became prevalent early this decade. Do you agree with this assertion? Will this growth curve continue for the next 10 years? How will we deal with this growing demand? What might change the slope of this curve? (acceleration, low power systems, complete breakdown of the economic model for HPC?)
- If you faced hard limits on power and cooling, and required a new facility:
 - what would you build?
 - what energy innovations would you implement? What PUE target would you set?
 - can you describe the cost effective solutions you have seen?
- How do the best managed HPC Centers handle Disaster Recovery Planning?

Slide 2

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