

# **Energy Efficient Ethernet Call-For-Interest**

**IEEE 802.3 Working Group  
Dallas, TX**

---

# What?

- **A Call for Interest in forming a study group for Energy Efficient Ethernet**
  - **My colleagues presented the Adaptive Link Rate (ALR) concept at a tutorial at the July 2005 plenary**
  - **Since then there have been many discussions about ALR**
    - **ALR has evolved into Rapid PHY Selection**
    - **Will be discussed as part of the CFI**
  - **The key point is to study reducing energy use by reducing power consumption during periods of low link utilization**

# Why?

ENERGYHOG.org



## Increased energy use is a problem

- “Gartner says the power demands of IT hardware, plus rising fuel prices, make the industry "unsustainable" and companies must consider green technology”<sup>1</sup>
- “Power hungry hardware and rising global fuel prices could lead to energy costs eating up more than a third of IT budgets within the next five years, according to Gartner”<sup>1</sup>



## Energy industry starting to provide incentives

- U. S. Congress has directed the EPA to “study and promote” energy efficiency in servers
  - Pacific Gas and Electric Co. (California) has already begun with incentives for energy efficient servers

<sup>1</sup>[http://www.businessweek.com/globalbiz/content/nov2006/gb20061107\\_447569.htm?chan=tc&campaign\\_id=rss\\_tech](http://www.businessweek.com/globalbiz/content/nov2006/gb20061107_447569.htm?chan=tc&campaign_id=rss_tech)

# Where and When?

- **The CFI will be in Landmark Ballroom D**
- **It starts at 6:30 PM tomorrow evening**

# Thanks!

- **If you have questions or comments:**
  - **mjbennett@lbl.gov**