IT Energy Waste

A Summary of Financial, Operational and Environmental Impacts

- Pat Tiernan, executive director of the Climate Savers Computing Initiative

Agenda for Today's Webinar

- IT Energy Waste
- Benefits of Enterprise-Wide IT Power Management
- Traditional Barriers to Deploying
- Solutions
- Call to Action
- Q&A

Attendees for Today's Webinar

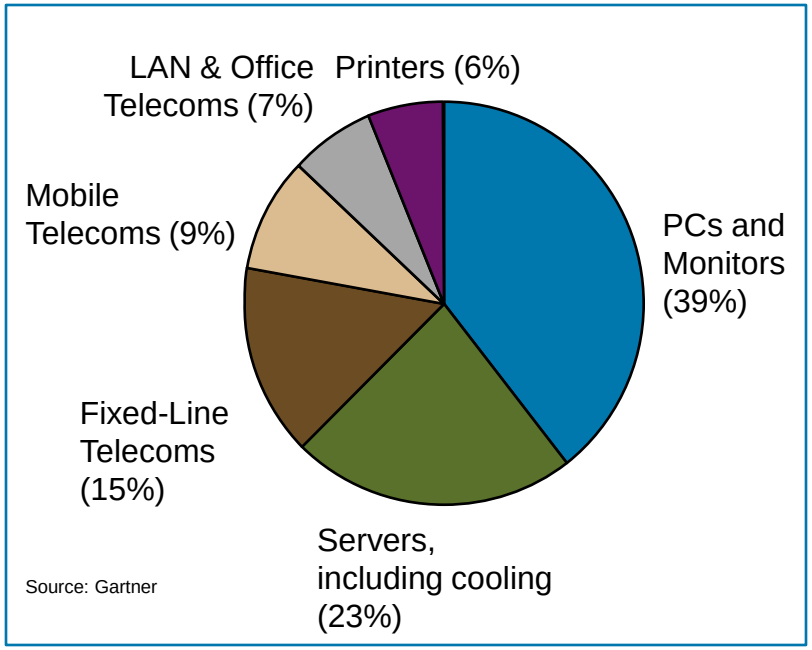
- Based on information gathered at registration:
  - 36.0% IT Management
  - 26.7% Other
  - 16.6% Energy Management
  - 12.6% Sustainability
  - 5.5% Facilities Management
  - 1.3% Finance
  - 1.3% EHS

Live Poll: How Far Along Are You Today?

- What stage of power management are you in:
  - Early stages; research only
  - Planning stages, but no implementation yet
  - Implementation in progress
  - Fully implemented & complete

The Hi-Tech Power Problem

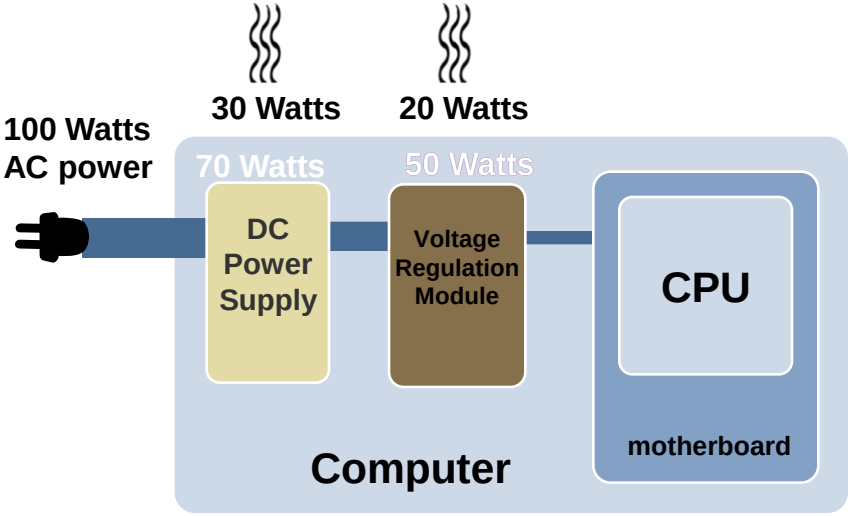
- The global information and communications technology industry accounts for approximately 2% of global CO_2 emissions[1]
- Energy costs – typically around 10% of an IT budget—could account for 50% of the average IT budget in just a few years[2]
- "By 2010, about half of the Forbes Global 2000 companies will spend more on energy than on hardware"[3]
- There are currently over 1 billion PCs, projected to be 2.25 billion by 2015[4]

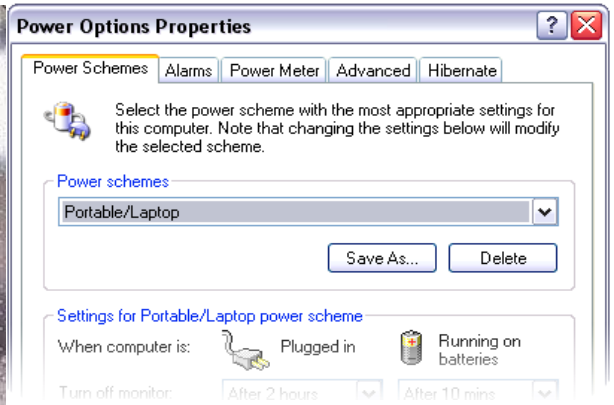


1 Source: Gartner, May 2007
2 Source: Mark, Roy, House Green Lights EPA Data Centers Study, Internetnews.com (July 13, 2006)
3 Source: Source: Businessweek.com: CEO Guide To Green Computing. From Gartner
4 Source: Forrester Research

Today's Environment

- The average desktop PC wastes nearly half the power it consumes
- Servers lose approximately one-third of their power
- 90% of desktops do not utilize power management settings[1]





Addressing the problem makes fiscal sense!

climate savers smart computing

1 Source: US EPA, http://enduse.lbl.gov/info/LBNL-53729_REV.pdf; see also http://www.energystar.gov/ia/products/power_mgt/North_Thurston_Case_Study.pdf and http://www.energystar.gov/ia/partners/prod_development/revisions/downloads/computer/Computer-PowerMnmt.pdf for additional comments on the extent of power management usage