



ENERGY STAR External Power Supply Stakeholder Meeting

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Meeting Goals



Goal: To bring together decision makers in the power supply industry to further refine the ENERGY STAR specification and discuss next steps for the program

Today's Discussion Topics:

- Testing and data collection procedures and results
- ENERGY STAR Draft 1 specification requirements
- ENERGY STAR Partnership Agreement and Labeling Requirements
- Next Steps
 - EPA's Plans to Address Battery Chargers
 - Design Competition Update

Why Power Supplies?



10 Billion Power Supplies in Use Worldwide (est.)

- Computers
 - Printers
 - Monitors
 - Scanners
 - PDAs
 - Barcode scanners
 - Servers
 - Camcorders
 - CD/DVD Players
 - TVs/VCRs
 - Set-top boxes
 - Cell phones
 - Cordless phones
 - Power tools
 - Modems
 - Medical Equipment
 - Avionics/Navigation Equipment
 - Test and Measurement Equip.
 - Appliances
- ... to name a few**

2004 CE shipments expected to be nearly \$100 billion –
Consumer Electronics Association, Market Research, Jan. 2004

Why Power Supplies?



In the United States:

- *Active Mode* accounts for **nearly $\frac{3}{4}$** of all power supply energy use; focus to date has been on *Standby*
- Many current designs are **30 to 60% efficient**, but 90% or more is feasible
- Estimated savings of 32 billion kWh/year
 - Cut national energy bill by \$2.5 billion/year
 - Reduce carbon dioxide emissions by more than 24 million tons/year
 - Displace the output of **seven large power plants**

EPA's Power Supply Strategy



Guiding Vision

- To **transform the North American power supply market** for key product segments by improving the average efficiency of typical power supplies
- To **coordinate with international initiatives** to create a harmonized external power supply specification worldwide, where appropriate

International Coordination



- Many countries share EPA's interest in implementing policy measures to encourage the design & sale of energy-efficient power supplies
 - Support for single Test Procedure
 - Support for voluntary high efficiency and mandatory minimum efficiency specifications



Australian Government
Australian Greenhouse Office



Natural Resources
Canada



Ressources naturelles
Canada



Status of EPA's Initiative



- **January 2002:** First Power Supply Workshop, San Francisco, CA
- **Summer 2003:** Draft test procedure first posted for comment
- **November 2003:** Second Power Supply Workshop, San Francisco, CA
- **December 2003:** International Letter of Support signed in support of one efficiency test procedure for external power supplies
- **February 2004:** Worldwide Power Supply Summit, Anaheim, CA
 - Launch of Draft 1 External Power Supply Specification
 - Launch of Design Competition
- **March 2004:** Distribution of Test Report and Test Method
- **April 2004:** Chinese Stakeholder meeting on the “Technical Specifications for Energy Conservation Product Certification for Single Voltage External Ac-Dc Power Supplies,” Dongguan, Guangdong, China
- **May 2004:** Third Power Supply Workshop, San Francisco, CA