

## Climate Savers Computer Initiative (CSCI)

Program: Driving the adoption of energy-efficient servers and PCs

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### Description of Program:

The Climate Savers Computing Initiative brings together industry, consumers and conservation organizations to significantly increase the energy efficiency of computers and volume servers, which together are responsible for the majority of the overall computer energy consumption. The Initiative is attempting to reduce energy consumption not only by motivating the technology industry to increase the efficiency of its products, but also by encouraging individuals and businesses to purchase energy efficient computers and use power management tools.

The Climate Savers Computing Initiative is complementary to the Green Grid, which focuses on datacenter power management, including servers, cooling for the buildings, and other facility-related energy issues. The Initiative is also a resource for consumers and IT personnel whom want to learn more about reducing the power footprint of their computers without any results loss of productivity. By 2010, the Climate Savers Computing Initiative seeks to reduce computer power consumption by 50%, thereby reducing global CO2 emissions by 54 million tons per year.

- **Tools, Training, and Metrics:** The Climate Savers Computer Initiative has set aggressive server power efficiency targets in order to meet its stated energy and CO2 reduction goals by 2010. Overly aggressive efficiency targets can be cost prohibitive for the market, while too lenient targets will prevent the IT industry from meeting the Initiative's intended CO2 emissions reduction. Climate Savers Computing server efficiency levels have been set with these factors in mind. The Initiative introduces Bronze, Silver, and Gold level efficiency targets for single-output power supplies for data center servers in redundant configurations. The EPA's Draft Energy Star v1.0 single output efficiency targets for power supplies are expected to align to Climate Savers Silver level efficiency targets for power supplies  $\leq 1000W$  and to Gold level targets for power supplies  $> 1000W$  when the final Energy Star program requirements are published in January 2009. Climate Savers Computing's energy efficiency targets for high volume single-output power supply for data center server are listed in the table below.

	CSCI Bronze	CSCI Silver	CSCI Gold
Load Condition			
20%	81%	85%	88%
50%	85% (Pf=0.9)	89% (Pf=0.9)	92% (Pf=0.9)
100%	81%	85%	88%

- **Recognition:** All member companies and organizations are listed on the Initiative's website as participating members and can use the Climate Savers Computing logo to showcase their participation in the Initiative and their products as being Climate Savers Computing-compliant. Servers and PCs that meet CSCI energy efficient targets are listed in the Climate Savers Computing Smart Computing catalog. The Initiative maintains a catalog of energy-efficient PCs and servers to help members identify compliant products, and provides informational resources such as technical specifications, best practices, white papers, technical instructions and research to help members more easily find, deploy and better use energy-efficient technology.
- **Distributed Generation Option:** Climate Savers Computing is focused on creating awareness around the issue of energy-efficient computing and on driving demand and adoption of energy-efficient technologies. Membership dues are used primarily for marketing programs to boost the consumer and enterprise awareness of the need for energy efficient computing. In addition to