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AMD Press Release

EPA Recognizes AMD with the 2008 Climate Protection Award for Excellence in Environmental Stewardship

— AMD Reduced Normalized Greenhouse Gas Emissions more than 50 Percent Over Past Five Years —

SUNNYVALE, Calif. -- May 19, 2008 --The U.S. Environmental Protection Agency (EPA) today announced that AMD (NYSE: AMD) has won the EPA Climate Protection Award in recognition of its continued commitment to protecting the global climate through energy-efficient product innovation, facility design and management, and industry education. As a charter member of the EPA's Climate Leaders Partnership and a founding member of The Green Grid, AMD is devoted to leading the world to energy-efficient processing, while concurrently striving to be a sustainable and environmentally responsible corporation.

"Efforts to help fight climate change will benefit the planet for generations to come," said Bob Meyers, Principal Deputy Assistant Administrator EPA Office of Air & Radiation. "We commend AMD, a 2008 Climate Protection Award winner, for their work to protect our environment."

"AMD is honored to receive this prestigious award from the EPA, and I am proud to lead a company that recognizes its responsibility to minimize our impact on the global climate," said Dirk Meyer, President and Chief Operating Officer of AMD. "We have worked tirelessly for more than a decade to reduce our environmental impact across all facets of our business—from the design and production of our technology to the amount and sources of the energy we use at our facilities around the world."

AMD has proven its dedication to climate protection and is being recognized for the following achievements:

- **Emissions Reduction:** Reducing corporate-wide normalized emissions of greenhouse gases by more than 50 percent, surpassing the company's EPA Climate Leaders goal of a 40 percent reduction by 2007 (compared to AMD's 2002 baseline)*. In addition, AMD has been a leader in the reduction of PFC emissions associated with wafer fabrication, being among the first businesses to join the EPA's voluntary PFC Reduction Partnership for the Semiconductor Industry in 1996. AMD has reduced its absolute PFC emissions 98 percent compared to a 1995 baseline year. These efforts support the semiconductor industry's worldwide PFC reduction goal established by the World Semiconductor Council.
- **Energy-efficient Products:** Helping other companies minimize their energy-consumption and greenhouse gas emissions through industry leading energy-efficient products. For example, AMD PowerNow!™ technology with Optimized Power Management enhances the performance-per-watt capabilities of the AMD Opteron™ processor by adjusting performance based on CPU need. AMD PowerNow! technology can reduce processor electricity consumption, enabling cooler and quieter computers that reduce idle CPU power consumption up to 75 percent when enabled.
- **Commitment to Climate Protection:** Emphasizing corporate transparency as one of the first technology companies to commit to a Global Climate Protection Plan. Since 2001, AMD has issued an annually updated report with its commitment, goals, and strategies for reducing the company's impact on global warming. AMD is continuing this commitment by setting a second Climate Leaders goal to reduce normalized global emissions by another 33 percent per manufacturing index by 2010.

For more information, please visit www.amd.com/climate.

About AMD

Advanced Micro Devices (NYSE: AMD) is a leading global provider of innovative processing solutions in the computing, graphics and consumer electronics markets. AMD is dedicated to driving open innovation, choice and industry growth by delivering superior customer-centric solutions that empower consumers and businesses worldwide. For more information, visit <http://www.amd.com>.

AMD, the AMD Arrow logo, AMD Opteron, AMD PowerNow!, and combinations thereof are trademarks of Advanced Micro Devices, Inc. Other names are for informational purposes only and may be trademarks of their respective owners.

*For details, see amd.com/climate.

AMD Press Release

AMD Renews Commitment to Climate Protection; Surpasses 2007 Goal to Decrease Greenhouse Gas Emissions by 40 Percent

— *Seventh Annual Global Climate Protection Plan Renews AMD's Commitment to Integrated Approach, Incorporating Product Development, Global Operations and Employee Initiatives*—

SUNNYVALE, Calif. -- July 24, 2007 --AMD (NYSE: AMD) today outlined renewed goals for 2007 and beyond to reduce greenhouse gas emissions in its global manufacturing operations and corporate facilities and through its products. AMD's seventh annual Global Climate Protection Plan highlights the company's ongoing strategy and goals to reduce impact on the climate via energy-efficient products, sustainable manufacturing and operations, and corporate leadership initiatives. Since publishing its first annual Global Climate Protection Plan in 2001, AMD has exceeded its EPA Climate Leaders goal to reduce by 2007 greenhouse gas emissions by 40 percent* through decreasing the company's normalized greenhouse gas emissions by more than 50 percent since 2002.

"AMD is a leading partner in EPA's Climate Leaders program," said Kathleen Hogan, director, Climate Protection Partnerships Division, U.S. Environmental Protection Agency. "The results AMD has experienced by reducing their greenhouse gas emissions demonstrate the benefits possible through global climate change leadership."

AMD achieved its climate protection goals by expanding its wafer fabrication operations in Dresden, Germany, which are powered by highly efficient trigeneration plants; reducing absolute perfluorocompound (PFC) emissions by more than 95 percent below 1995 levels; purchasing 100 percent renewable energy for its Austin, Texas operations from Austin Energy's GreenChoice® program; and reducing normalized energy consumption nearly 40 percent through efficiency improvements at facilities around the world.

"AMD's commitment to reducing our environmental impact goes far beyond our operations and manufacturing, and takes a truly holistic approach to the way we conduct business," said Hector Ruiz, AMD chairman and CEO. "Our seventh annual global climate protection plan takes a measured approach to evaluate and continually improve our global environmental efficiency, from how we run our corporate facilities to how we develop products that deliver superior performance-per-watt. By focusing on energy efficiency and the environment in every sector of our business, we've not only reduced our environmental impact, we are leading the world to energy-efficient processing from handhelds to the datacenter."

Representing a sustained commitment to environmental stewardship, AMD's 2007 Global Climate Protection Plan sets new goals to:

- Further reduce normalized greenhouse gas emissions by 33 percent (as measured by carbon equivalent emissions/manufacturing index) by 2010 against a baseline year of 2006.
- Further reduce normalized energy use (as measured by kilowatt hours (kWh)/manufacturing index) by 40 percent by 2010 relative to the 2006 baseline year.
- Continue to lead the industry in promoting awareness about energy conservation both from a product and corporate perspective.

A key element of AMD's integrated approach is the company's efforts to educate diverse audiences about energy efficiency as well as foster continued collaboration to help sustain the evolution of "green" IT innovation and procurement. For the second consecutive year, AMD is a sponsor of the California Clean Tech Open's "Smart Power" prize, which recognizes technologies that provide both businesses and consumers with greater control over when and how their energy is delivered and used. A founding member of The Green Grid™, AMD works closely with companies across the IT spectrum, as well as with national and state government authorities like the EU Commission, the U.S. Environmental Protection Agency, the U.S. Department of Energy, and the New York State Energy Research and Development Authority, to identify solutions to the challenges faced by datacenter power and cooling demands.

Earlier this year, AMD announced the results of a ground-breaking study it commissioned, wherein Jonathan Koomey, Ph.D., staff scientist, Lawrence Berkeley National Laboratories and consulting professor, Stanford University, calculated the total power used by servers both in the U.S. and around the world. Dr. Koomey found that energy use by servers in the U.S. alone has doubled in the last five years.

For more information on AMD's Global Climate Protection Plan, please visit: www.amd.com/climate.

To listen to a podcast interview between Austin's Mayor Will Wynn and AMD's Environmental Health and Safety Team, please visit: www.amd.com/greenpodcast.

* As measured by carbon equivalent emissions/manufacturing index against a baseline year of 2002.

About AMD

Advanced Micro Devices (NYSE: AMD) is a leading global provider of innovative processing solutions in the computing, graphics and consumer electronics markets. AMD is dedicated to driving open innovation, choice and industry growth by delivering superior customer-centric solutions that empower consumers and businesses worldwide. For more information, visit www.amd.com.

About AMD Green

AMD is committed to leading the world to energy-efficient processing. AMD Green represents the company's lasting commitment to customers, partners, communities and employees by pursuing performance-per-watt leadership, energy efficiency and environmental responsibility in everything from its products to its global facilities. One of the first technology companies to commit to a Global Climate Protection Plan, AMD is a Charter Partner of the U.S. EPA Climate Leaders partnership and a founding member of The Green Grid™ consortium. For more information, visit www.amd.com/climate.

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Mission & History

Our Mission

The California Clean Tech Open is an independent effort by entrepreneurs, researchers, environmentalists, investors and others to create economic growth and environmental sustainability by sparking a clean technology cluster in California.

By giving winners early-stage capital and expertise, the competition speeds clean technologies from lab to market. The goal is to foster innovative new businesses focused on energy efficiency, smart power, renewable energy, transportation, green building practices, and pollution control and resource management. California is the natural place to do it with the state's strong business and governmental support for innovation, technology and environmental protection create rich soil for clean technology enterprises that foster a healthy natural environment.

A Unique Competition

The California Clean Tech Open is unique among business plan competitions: it seeks entries from professionals, scientists and students alike; focuses solely on clean technology; and selects teams that are prepared to take their innovations to the marketplace by building and sustaining a company. In addition, the prize package of cash, services and office space goes above and beyond other awards and is not typically available to early-stage start-ups.

Who We Are

The California Clean Tech Open is sponsored by Acterra: Action for a Sustainable Earth, a 501(c) (3) nonprofit based in Palo Alto, California. The competition is supported by a diverse array of businesses, educational institutions, government leaders and private individuals, and run by a dedicated group of volunteers including business professionals, scientists, environmentalists and entrepreneurs.

To learn about the 2006 California Clean Tech Open, [download the 2006 Competition Report.](#) (2 MB pdf)

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California Clean Tech Open – Smart Power Innovators Symposium

How To Register For This Event [RSVP Here](#)

Do you have an idea about better storing power? Are you thinking about entering the competition with your business for the smart grid? Attend the first symposium of the Clean Tech Open's 2008 California Competition, hosted by AMD and Siemens TTB. The evening will include a poster session by Clean Tech Open Smart Power category winners and finalists, plus time for networking. A panel of Smart Power experts will address the current trends and challenges facing the link between information technology and electricity delivery.

Date: Wednesday, June 11, 2008

Time: 5:00 pm to 8:00 pm

Location:

[AMD](#)

One AMD Place

Sunnyvale, CA 94088-3453

Directions: Take Highway 101, exit at Lawrence Expressway South, turn right at Duane Avenue. Go straight into the AMD facility.

[Download Map \(PDF\)](#)

Registration and Entry Fees:

\$20 if you pre-register. \$30 if you pay at the door (cash only at the door). If your team has paid the competition entry fee, the fee for this event will be waived. Sponsors and partners should contact innovation@cacleantech.com for special arrangements. No refunds.

Who Should Attend And Why

- Industry professionals seeking the newest ideas in clean tech
- Entrants of the Clean Tech Open's 2008 California Competition to refine their business ideas
- Entrepreneurs and potential entrepreneurs interested in applying their skills at new ventures
- Angel investors and VCs looking at startups at a formative stage
- Researchers and engineers interested in discussing Smart Power technologies

The goal of these events is to accelerate the creation and growth of clean tech businesses by building a vibrant clean tech ecosystem through networking and the sharing of ideas.

Sponsors:

This event is sponsored by [AMD](#) and [Siemens TTB](#), and is hosted by [AMD](#).

:
Organizer:

WRI Press Release

World Resources Institute

Paul Mackie, WRI director of media relations, +1(202) 729-7684, pmackie@wri.org

THE GREEN POWER GROUP

Leading California Companies Announce Buyers' Group for Renewable Power

Green power group has combined market capitalization of more than \$900 billion
CUPERTINO, CALIFORNIA, USA, February 19, 2008 – With today's announcement by fifteen of California's most prominent energy buyers, green power becomes an even more integral part of doing business in California. The partnership is called the "Green Power Group – California Affiliates." **Advanced Micro Devices**, Apple Inc., BT Americas, CISCO Systems, eBay, Google Inc., Hewlett-Packard, Intel Corporation, Intuit, Levi Strauss & Co., News Corporation, Pactiv Corporation, Patagonia, Toyota, and Wal-Mart Stores, Inc will be sharing best practices for purchasing and developing new sources of renewable energy. The partnership will help enable them to meet environmental goals, reduce exposure to volatile electricity prices, and support new clean technologies. The Green Power Group – California Affiliates is the third commercial and industrial partnership convened by the World Resources Institute (WRI). The first two partnerships, the U.S. Green Power Market Development Group and the European Green Power Market Development Group, have facilitated the development of over 600 megawatts of renewable energy through on-site projects and green power purchases. The California Affiliates will build on this experience to bring corporate renewable energy purchasing to significant scale in California.

"The commercial and industrial sectors can play a critical role in supporting renewable energy and energy efficiency technologies," said Alexander Perera, director of WRI's Green Power Market Development Group. "By working together, these companies hope to see improved green-power purchasing opportunities in the state."

The Green Power Market Development Group (www.thegreenpowergroup.org) is a project of the Climate, Energy and Pollution Program of the World Resources Institute. The World Resources Institute (www.wri.org) is an independent, non-partisan, and nonprofit organization with a staff of more than 100 scientists, economists, policy experts, business analysts, statistical analysts, mapmakers, and communicators developing and promoting policies that will help protect the Earth and improve people's lives.

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Intel Corporation
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News Corporation
Pactiv Corporation
Patagonia
Toyota

EPA Press Release

EPA Newsroom

Sleep, Does a Body and the Environment Good Energy Star Launches Low Carbon IT Campaign

Release date: 04/03/2008

Contact Information: Shakeba Carter-Jenkins, (202) 564-4355 / carter-jenkins.shakeba@epa.gov

(Washington, D.C. - April 3, 2008) Today the U.S. Environmental Protection Agency is asking organizations to join the Energy Star Low Carbon IT Campaign. By enabling the power management, or sleep mode, on their computers and monitors, organizations will help reduce our growing demand for electricity, and save money while fighting climate change. If all office computers and monitors in the United States were set to sleep when not being used, the country could save more than 44 billion kWh or \$4 billion worth of electricity and avoid the greenhouse gas emissions equivalent to those of about 5 million cars each year.

"Although the work day may come to an end, we never clock out of our environmental responsibility," said EPA Administrator Stephen L. Johnson. "By joining the Low Carbon IT Campaign, our partners are taking steps that are not only good for their bottom line, they're good for the environment."

Charter participants of the Energy Star Low Carbon IT Campaign, include **Advanced Micro Devices Inc.**, Anheuser-Busch Cos. Inc., Association of Bay Area Governments Energy Watch, Commonwealth of Massachusetts, Dell Inc., Fox Entertainment Group Inc., HP, Microsoft, OfficeMax, City of Portland (Oregon) Public Schools, City of San Jose (California), and Snohomish (Washington) County Public Utility District.

The Energy Star Low Carbon IT Campaign is also partnering with the Climate Savers Computing Initiative, a non-profit group that includes technology firms, energy companies and nongovernmental organizations working to promote the use of more energy-efficient computers and increase the use of computer power management. Both efforts share similar goals and cooperate with each other on technical specifications and marketing through a strategic partnership.

By enabling power management settings, computers and monitors go into a low-power sleep mode after a period of inactivity. Power management has the potential to save up to \$50 per computer annually. Despite the significant savings, according to Lawrence Berkeley National Labs, only five to 10 percent of U.S. organizations have deployed these settings on computers.

To join the Energy Star Low Carbon IT Campaign, organizations simply take an online pledge to activate power management features on their monitors and computers to save energy and reduce their carbon footprint. Organizations can increase energy savings further by purchasing Energy Star qualified computers and monitors. In turn, EPA provides free assistance to help implement power management, an estimate of the organization's energy and carbon savings, and official recognition from the agency. [Organizations can join the campaign by visiting: http://www.energystar.gov/lowcarbonit](#)

About Energy Star

Energy Star was introduced by the U.S. Environmental Protection Agency in 1992 as a voluntary market-based partnership to reduce greenhouse gas emissions through increased energy efficiency. Today, Energy Star offers businesses and consumers energy-efficient solutions to save energy, money and help protect the environment for future generations. More than 12,000 organizations are Energy Star partners committed to improving the energy efficiency of products, homes, buildings and businesses. [For more information about Energy Star, visit: http://www.energystar.gov](#) or call toll-free 1-888-STAR-YES (1-888-782-7937).

The Green Grid

[Home](#) » [About Us](#) » [Overview](#)

About Us: **Overview**

The Green Grid is a global consortium dedicated to advancing energy efficiency in data centers and business computing ecosystems. In furtherance of its mission, The Green Grid is focused on the following: defining meaningful, user-centric models and metrics; developing standards, measurement methods, processes and new technologies to improve data center performance against the defined metrics; and promoting the adoption of energy efficient standards, processes, measurements and technologies.

Comprised of an interactive body of members who share and improve current best practices around data center efficiency, The Green Grid's scope includes collaboration with end users and government organizations worldwide to ensure that each organizational goal is aligned with both developers and users of data center technology. All interested parties are encouraged to join and become active participants.

The Green Grid Board of Directors is comprised of the following member companies: **AMD**, APC, Dell, HP, IBM, Intel, Microsoft, Rackable Systems, SprayCool, Sun Microsystems and VMware.

Content

NEW! A Framework for Data Center Energy Productivity

This paper introduces a new family of data center resource optimization metrics designated collectively as Data Center Productivity (DCP) metrics and presents the first derivative metric within this family called Data Center energy Productivity (DCeP). The DCeP metric provides a unique analytical tool that may be used to track the overall work product of a data center per unit of energy expended to produce this work. While DCeP in its current form is only applicable to improvements in a single data center, it is hoped that this work will provide a framework to develop similar metrics for comparing across different data centers.

[>>download](#)

NEW! The Green Grid Peer Review of "DC Power for Improved Data Center Efficiency" by Lawrence Berkeley National Laboratory

As the demands on data centers increase, creating higher costs and power usage, the industry is looking for ways to increase efficiency and decrease operating costs in the data center. One potential area of increased efficiency lies in the power distribution configuration within the data center and its IT equipment. In early 2007, Lawrence Berkeley National Laboratory (LBNL) posted results of a direct current (DC) demonstration project, which operated from June to August of 2006. Here, a peer review of that study is provided, including a critical review of the results as well as a discussion of next steps in the evaluation of this and other power distribution topologies.

[>>download](#)

NEW! Five Ways to Reduce Data Center Server Power Consumption

This document only addresses changes that can be made at the server1 level. Other white papers from The Green Grid will address power, cooling, airflow, consolidation, virtualization and a host of other mechanisms to increase efficiency elsewhere in the data center. Reducing energy use at the point of consumption (the server) provides benefits at all other levels by reducing load on power and cooling facilities which in turn reduces their own energy use.

[>>download](#)



AMD Green Reducing our Carbon Footprint and Yours

AMD is committed to leading the world to energy-efficient processing. AMD Green represents the company's lasting commitment to customers, industry partners, communities and employees by pursuing performance-per-watt leadership, energy efficiency and environmental responsibility in everything from its products to its global facilities. One of the first technology companies to commit to a Global Climate Protection Plan, AMD has been included in the Global 100 list of the world's most sustainable companies for the last two years. AMD is committed to helping public institutions reduce their carbon footprint.

For more information, visit www.amd.com/climate.

Understand The Issue:

- + Federal agencies purchasing client PCs must fulfill at least 95% of their procurement requirements with computers that meet Energy Star specifications¹
- + Computers must also incorporate other environmental features outlined in EPEAT
- + The issues of power and cooling have become a central focus as IT professionals try to reduce the cost of datacenter operations.

Lenovo ThinkCentre A61e Desktop:



Lenovo A61e offers full size PC performance in an energy-efficient, consistently quiet, ultra small desktop form factor.



AMD'S RECOGNIZED ENVIRONMENTAL LEADERSHIP

- + Winner of the 2002 Green Power Leadership Award from U.S. EPA and the Department of Energy.
- + Charter Partner of the U.S. EPA Climate Leaders partnership.
- + Founding member of The Green Grid consortium.

AMD IS EXCEEDING GREEN GOALS

- + Achieved EPA Climate Leaders goal to reduce greenhouse gas emissions by 40% by 2007² reducing normalized emissions by more than 50% by the end of 2008.
- + Reduced PFC emissions by more than 95% by the end of 2006 compared to 1995.
- + Established a new EPA Climate Leaders goal to further reduce normalized greenhouse gas emissions 33% by 2010³.

ENERGY-EFFICIENT PRODUCTS

- + AMD products can enable compliance with the EPA's new ENERGY STAR Version 4 computer specification that was released July 20, 2007.
- + Quad-Core AMD Opteron™ processors: best quad-core Intel Xeon processors in 39 of 57 Power Efficiency Tests by Neal Nelson & Associates⁴.
- + The Quad-Core AMD Opteron™ processor⁵ won the Green Computing Award at VMworld, with the judges noting the low voltage and power-down features on the processor.
- + EPA awarded AMD's Cool'n'Quiet™ technology with ENERGY STAR special recognition for advancing computer energy efficiency⁶. EPA also awarded AMD with Energy Star special recognition for AMD PowerNow™ technology in 2001.

"The ThinkCentre A61e is one of the coolest, quietest, smallest, lightest, most energy-efficient Lenovo ThinkCentre Desktops."

1. On January 24, 2007, the the U.S. President signed an Executive Order requiring federal agencies purchasing electronic devices to meet at least 95% of their procurement requirements with EPEAT-registered products. EPEAT currently on the EPEAT registry meet Energy Star 4.0 requirements. 2. Goal corrected for production. Achieved goal relative to a 2002 baseline. 3. Goal announced in AMD 2007 Global Climate Protection Plan. Goal is compared to a 2002 baseline. 4. <http://www.vms.com> 5. Sept 2007. 7. Issued in March 2005.





The research is a series of messages from AMD

We're putting more
and more of our *energy*
into *saving* it.

Once, computing innovation emphasized raw speed and performance. But with data centers in the United States consuming more electricity than the entire state of Massachusetts, energy efficiency has become a top priority.

The people at AMD have teamed with our customers and technology partners – Dell, Hewlett-Packard, Sun Microsystems, and Microsoft – to control energy consumption in the data center, because we believe that computing power doesn't have to depend nearly as much on consuming power.

With the advanced quad-core AMD Opteron™ processor, we can magnify the capabilities of servers and data centers without compromising on energy consumption. Today, our customers

can benefit from the world's most advanced energy-efficient x64 architecture, and the performance-per-watt advantage it provides," says Scott White, a lead engineer at AMD.

The EPA's energy star program has praised AMD's "innovative processor advancements," and the energy-saving innovations of our industry partners. And as members of the industry coalition, The Green Grid, we have pledged to help promote energy efficiency in the data center.

Our philosophy is simple: not technology for technology's sake, but people and technology for your sake.

Learn more about AMD's energy-efficient innovation at amd.com/saveenergy.



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