



2012/2013 CORPORATE RESPONSIBILITY REPORT

May 2013

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CHAPTER I: OVERVIEW

AMD faced a year full of achievements and challenges in 2012, beginning with a new executive team and strong financial performance. By the end of the year, the market for our products changed significantly, our financial results suffered and we announced cost-cutting actions that resulted in a workforce reduction and reduced funding for some of our corporate responsibility programs. In spite of all the changes, AMD's commitment to corporate responsibility performance and programs has never been stronger.

Report Format

This is our 18th annual corporate responsibility report. Inside you will find detailed information on our efforts, successes and challenges. This comprehensive report is important for investment analysts and other stakeholders who are interested in assessing all the details of our responsibility programs. In addition to this report, we also publish information in three other formats:

- > A summary magazine that is a companion to this comprehensive report
- > A tablet application for iPad and Android devices with interactive features
- > A corporate responsibility website

Our strategy is to engage the broadest possible audience in our responsibility journey. By summarizing our performance in a magazine-style format and tablet application, our goal is to engage people who are interested in these topics but may not be experts or willing to invest significant time sorting through detailed information.

Global Reporting Initiative (GRI)

Like many corporate responsibility leaders, AMD follows the disclosure guidelines (version "G3.1") from the Global Reporting Initiative (GRI) to structure the information in this report. The GRI has become the predominant international standard for corporate responsibility reporting and cover economic, environmental, social and governance performance. Report disclosures are correlated to the guidelines in the [GRI Table](#) included in this report.

Updates

We plan to update the information in this report as appropriate throughout the year. In addition to those already mentioned, we have several other communication channels to share information with our stakeholders and receive input:

- > Corporate responsibility [blog](#)
- > Corporate responsibility [newsletter](#) issued periodically
- > Direct [contact link](#) on the corporate responsibility website
- > Twitter account ([@TimMohinAMD](#)).

By employing multiple communication methods, our goal is to ensure that all interested stakeholders are able to review and comment on our corporate responsibility progress and plans. We welcome your input and comments.

Message from the CEO

AMD has great people, and by working together we empower our customers with differentiated, innovative computing solutions.

We also have an unwavering commitment to corporate responsibility. While AMD and other companies in our industry adapt to fundamental shifts in the technology market, our culture, our people and our indomitable drive to win remain rock solid.

Corporate responsibility is at the core of AMD's culture. We care deeply about people and our planet, and this caring attitude is woven into everything we do. We call this the "The AMD Way."

This approach isn't just a moral imperative for AMD; it's also as a key business differentiator. We know that how we run our business is just as important to our customers, shareholders and stakeholders as the innovative products we deliver. We also know that our employees are motivated and inspired by contributing to social and environmental causes. For these reasons and more, we have been leaders in the responsibility arena for many years now.

In 2012, AMD experienced the beginning of a fundamental shift that is redefining the landscape of our industry. While these sweeping changes present AMD with a range of exciting growth opportunities, our financial results were impacted. In 2012 and early 2013, we had to take the tough but necessary step of reducing our global workforce as part of a restructuring plan designed to reduce AMD's operating costs and return the business to profitability. We will never get accustomed to seeing valued co-workers leave the company – nor should we want to – but these are necessary steps to return our business to profitable growth. AMD offered eligible employees severance packages and made every reasonable effort to reduce the hardships on impacted employees, such as providing continued health care coverage and career transition services.

AMD remains committed to ethical business practices and cultivating a supportive, productive work environment. Externally, we will continue to be good neighbors in our communities, engage with our stakeholders openly and honestly, and help protect the environment by ensuring that our suppliers meet the same high level of expectations we hold ourselves accountable to.

I am pleased to share our 18th annual corporate responsibility report. In it, you will find numerous examples of AMD employees who go above and beyond to help others and to preserve our environment. As always, we welcome your input and questions.

Rory Read

AMD CEO and President

AMD at a Glance

Founded in 1969 and headquartered in Sunnyvale, California, AMD designs and manufactures graphics cards and microprocessors that power millions of the world's personal computers, tablets, gaming consoles, embedded devices and cloud servers. We deliver unique and unmatched computational capabilities in order to create natural, intelligent and innovative ways for people to interact with the devices they love.

- > Headquarters: Sunnyvale, California
- > Established: 1969
- > Employees: more than 10,000 worldwide
- > Facilities: more than 50 locations worldwide
- > Publically traded (NYSE:AMD)
- > Fortune 500 firm
- > 2012 Revenue: \$5.42 billion

2012 in Review; Look Ahead to 2013

2012 was a year of transformation for AMD – amid a year of dramatic and rapid change for the PC industry at large. Addressing the evolving landscape of our industry, we announced several new members of the senior leadership team; acquired SeaMicro, a pioneer in dense cloud server technology; announced our intent to design 64-bit ARM® technology-based processors; and launched new generations of APUs, AMD Opteron™ processors and AMD Radeon™ graphics solutions.

2012 milestones included:

- > First company to announce both 64-bit ARM and x86-based server solutions
- > Launched our second generation A-Series APUs for the desktop channel market
- > Introduced the AMD Z-60 APU tablet processor for upcoming Windows 8 tablets
- > Created the HSA Foundation with Qualcomm and Samsung, designed to deliver a common hardware standard for heterogeneous computing
- > Launched the next generation of AMD FirePro™ professional graphics products, with graphics processing units (GPUs) capable of delivering 1.5 times greater performance than other available solutions
- > Announced the SeaMicro SM15000, cementing AMD as the leader in dense servers ideal for cloud computing data centers
- > Launched a full line of next generation AMD Radeon HD 7000 series products
- > Announced creation of the Cyber Security Research Alliance to demonstrate cross-functional consortium committed to the growing need for increased public-private collaboration to address complex problems in cyber security

- > Developed industry-first collaboration to extend ARM TrustZone security technology into x86-based AMD offerings

Moving forward, priorities for AMD include focusing on differentiated IP leadership through low-power technologies, an ambidextrous architecture that spans the x86 and ARM ecosystems, building a set of re-useable IP Blocks (SOC-I5) to lower cost and speed to execution, and unlocking the compute and visualization experiences driven by APUs and GPUs through Heterogeneous Systems Architecture (HSA).

- > Through HSA, we are enabling a common, open-standards platform on which developers can more quickly and easily develop applications that take advantage of the parallel processing that the GPU and central processing unit (CPU) together can provide
- > In the server space, we will target the dense cloud server market by leveraging our differentiated SeaMicro server fabric to handle workloads best suited by APUs, and in 2014, bring to life our roadmap expansion from legacy x86 server designs to the higher growth dense server market enabled via both 64-bit ARM and x86 solutions. This will uniquely position us to become the leader in the low-power dense server space
- > In 2013, we are introducing groundbreaking APU and graphics products in the client market. We will also continue focusing on developing low-power solutions that enable more human-centric interfaces that leverage both x86 and ARM platforms
- > We will take advantage of high growth opportunities in adjacent markets where our IP provides a competitive advantage
- > We expect to grow revenues in the embedded/semi-custom sector by targeting communications/networking, industrial, and gaming growth segments. Our expertise in both low-power x86 and ARM, along with our GPU capabilities, will enable us to lead in display-centric solutions where the visual experience is paramount
- > Our world-class graphics differentiation and proven leadership position in this space will remain the cornerstone of our end-to-end product strategy

AMD looks ahead to 2013 with a clear path forward. We have the right strategy and a new set of products coming to market throughout the year that will help us accelerate our business. We continue to make the investments required to drive a larger percentage of our revenues in high-growth adjacent markets, such as dense server, semi-custom, embedded, and ultra low-power client markets.

Additional Information

- > [About AMD](#)
- > [Products and Technologies](#)

Material Issues, Strategy and the Corporate Responsibility Council

AMD periodically conducts and reviews “materiality assessments” that aim to align corporate responsibility goals with AMD’s business objectives. Our cross-functional Corporate Responsibility Council conducted the most recent review in 2012 with the assistance of Business for Social Responsibility (BSR). Four existing material issues were evaluated. Three of the four were considered still relevant and a fourth issue related to the documentation of AMD product benefits was deleted. Although such documentation is still considered an important communication tool it is no longer considered a material focus. The table below shows the current list of key issues and progress to date.

ISSUE	DEFINITION	2012 UPDATE
Product energy efficiency and solutions	Increasing the energy efficiency of AMD products and producing technologies that enable our customers to improve their own energy efficiency and achieve their climate change goals.	In 2012, AMD acquired SeaMicro a pioneer in energy-efficient, high-bandwidth microservers. With this acquisition, AMD is accelerating our disruptive server strategy, taking advantage of an inflection point in the industry driving opportunities in low power, client mobility, emerging markets and the cloud/megadata centers.
Increasing access to technology.....	Developing the products and programs that increase access to digital technology in emerging and developing world markets.	AMD expanded our presence in Latin America. We also expanded our signature education program, AMD Changing the Game , into Latin America. We also document beneficial uses of our technology in different parts of the world. See AMD Technology Enabling a Better World .
Supply chain responsibility	Improving processes to ensure that the management of labor, health & safety, ethics and environmental risks in AMD’s supply chain conforms to our expectations. This includes programs to identify and eliminate the use of any “conflict minerals.”	AMD continued our leadership to eliminate the link between the trade in minerals and conflict in Central Africa. We also made substantial progress in integrating corporate responsibility into supplier relationships. See Supplier Responsibility .

Table 1: Corporate Responsibility Priority Material Issues and 2012 Update

While our assessment of priorities provides focus, it is important to note there are several other focus areas critical to AMD’s business and stakeholders. For example, AMD has a long-term focus on promoting STEM (science, technology, engineering and mathematics) education. Our signature philanthropic program, [AMD Changing the Game](#), promotes STEM skills in middle and high school students through game design and development. AMD also has a long-standing commitment to environmental protection and has invested in improvements in energy and water conservation, greenhouse gas (GHG) emissions reduction, and waste minimization. See our [Global Environmental Goals and Performance](#).

Presenting our materiality assessment reflects AMD’s commitment to a strategic, business-oriented approach to corporate responsibility. As the company’s business strategy evolves, we review, and if necessary, revise our CR strategy.

Awards and Recognition

While our commitment to being a responsible corporation is not dependent on recognition, it is great validation of our work when external organizations rank us alongside the top sustainable companies.

The awards and rankings below are based on standards of performance developed by each conferring organization. We are proud to be honored with the following recognition for 2012:

CORPORATE RESPONSIBILITY AWARD/RANKING	CONFERRING ORGANIZATION
Dow Jones Sustainability North American Index.....	Sustainability Asset Management (SAM) and Dow Jones Sustainability Indexes
Top 500 Green Companies in the United States.....	Newsweek Magazine
FTSE4Good Index.....	FTSE Group
Top 100 Best Corporate Citizens List.....	Corporate Responsibility Magazine
Climate Innovation Index Leader	Maplecroft Climate Innovation Index (CII)
Computerworld Honors Laureate (AMD Foundation honored for innovative STEM education)	International Data Group’s Computerworld Honors Program
Global Challenge Index	Hanover Stock Exchange/Oekom Research
Global Corporate Renewable Energy Index (CREX).....	Bloomberg New Energy Finance
MSCI KLD 400 ESG Social Index.....	MSCI
Greater Austin Business Award – Health & Wellness	Austin Chamber of Commerce
Clean Air Award (Bay Area)	Breathe California
Bicycle Friendly Business, Bronze (Fort Collins)	League of American Bicyclists
Smart Commute Employer of the Year Runner Up (Markham).....	Smart Commute
Climate Wise Partner, Silver Level (Fort Collins)	Climate Wise, City of Fort Collins

Table 2: 2012 AMD Awards, Rankings and Ratings

Read more about the [awards](#) presented to AMD on our website.

Transparency

Scope

This report provides information on AMD programs addressing environmental protection, social responsibility and economic performance. Operational data for 2012 is for AMD majority-owned and operated facilities located in Sunnyvale, Calif.; Austin, Texas; Markham, Ontario; Penang, Malaysia; Singapore; and Suzhou, People’s Republic of China, for the reporting period January 1, 2012, through December 31, 2012. In addition, notable activities that occurred in 2013 prior to publication of this report have been included. Where noted and when available, we have also included data from our smaller AMD sites. Data for the reporting year 2011 was covered in AMD’s [2011 Corporate Responsibility Report](#) published in May 2012.

Measurement and Verification

Where practical, the data we present is measured directly or empirically derived. In some cases we rely on data from external parties, such as utility and waste management providers. Restatements of our 2012 corporate responsibility data are shown in our performance indicators [data tables](#).

With the exception of financial information, the data provided in this report has not been independently verified by a third-party auditing firm. The data collected are from many different sources using well-established processes that include a rigorous review. Internal processes are periodically assessed to ensure that accurate, consistent and reproducible information is reported.

Indirect Impacts

AMD is a semiconductor design company with many of the potential environmental impacts from wafer fabrication occurring in our supply chain that are beyond our direct operational control. As a result, we track and influence the environmental performance of our major suppliers. For the past three years we reported on indirect environmental impacts from our wafer foundry suppliers, our business travel, employee commuting and product transportation.

CHAPTER II: STAKEHOLDER ENGAGEMENT

AMD's stakeholders include employees, customers, stockholders, social investment analysts, our local community, our suppliers, non-government organizations (NGOs) and others. Each group has followed our progress and plans on corporate responsibility over the years, and we use targeted communications to provide them with relevant information in the most efficient and effective way.

Stakeholder Engagement Panel

Working with [Ceres](#), an award-winning, non-profit group focused on business and sustainability, AMD has an established stakeholder advisory panel. Interactions with this panel provide AMD with valuable insights and perspective on how to improve our corporate responsibility strategies, communications and performance. Our goal is to engage with these experts twice per year over the long term. AMD believes that long-term engagement helps build a deep understanding of our company and our industry. Similarly, AMD gains meaningful knowledge about the expectations of stakeholder groups outside our company. We use this input to continuously improve our corporate responsibility programs.

CEO Meeting

In October of 2012, AMD's President and Chief Executive Officer (CEO) Rory Read met with Mindy Lubber, the CEO of Ceres. This discussion encompassed a wide range of corporate responsibility issues. The following quotes provide insight into the discussion:

"It is very clear that you and your colleagues have a deep commitment to sustainability and that you are looking for ways to extend the company's leadership in this area. As you said, taking a leadership role on sustainability issues just makes good business sense. We look forward to AMD capturing and highlighting the strong ROI and examples of the business case for investors and other companies. We need many more companies to follow your lead."

—Mindy Lubber, CEO Ceres

"We are continuously working to improve these programs and the input we get from Ceres, and the stakeholder panel you facilitate for us is extremely valuable. The three areas you raised are exactly aligned with our priorities. We are working hard on the energy efficiency of our products and have some terrific results that are already on the market. I believe that we have a good supplier responsibility program underway. And lastly, given the breadth of corporate responsibility, we believe the dashboard approach is a good way for us to keep tabs on our progress and areas for improvement."

—Rory Read, CEO AMD

Recent Stakeholder Engagement

In September 2012, the stakeholder panel met with AMD's CR Council to review a "dashboard" of goals and performance across all corporate responsibility aspects. The discussion was robust, candid and extremely valuable input for AMD. Many issues were discussed and AMD continues to incorporate the feedback into our programs.

Overall, the stakeholder team was very supportive of AMD's efforts to develop goals and performance indicators to measure progress of the company on key sustainability issues. The group recognized that AMD has continued to make progress in developing a sustainability management system over the past year during a number of transitions in leadership within the company. Several suggestions were made to improve dashboard alignment with company focus and external stakeholder expectations, and encourage executive engagement.

AMD is currently considering the feedback from this meeting. While we will not be able to implement every stakeholder suggestion, we consider all feedback important and report back on our progress and actions in subsequent meetings.

Engagement on AMD Workforce and Budget Reductions

In late 2012, a number of changes took place at AMD and within our industry that may have a material effect on some of our CR programs moving forward. We communicated these changes [publically](#) and to our stakeholder panel in December 2012. The key message was that AMD's commitment to corporate responsibility will remain strong although some of our philanthropic program funding will be reduced. Other specific messages included:

- > Funding of educational initiatives: *AMD Changing the Game* and *Next Generation Engineer* will be curtailed. We will fulfill our commitments with some limited funding in 2013 and re-evaluate additional funding in 2014.
- > The employee matching gifts program is suspended in 2013. While the matching funds will not be available, we are confident that AMD employees will continue to give and volunteer in our communities as they always have.
- > Corporate responsibility is embedded in our policies and programs and thus is not solely dependent on philanthropic contributions. The investments we have made in philanthropic causes will continue to generate benefits for years to come.
- > We view this situation as an opportunity to develop even more innovative ways to manifest our continuing commitment to corporate responsibility.

Additional communications with our stakeholder panel and other stakeholder groups will continue in 2013. Feedback from all stakeholders can be made at any time via our [website](#).

Multi-Stakeholder Dialogue on Conflict Minerals

AMD has been a leader in bringing together NGOs, companies and socially responsible investors on the serious and complex issue known as "conflict minerals." By co-chairing a multi-stakeholder coalition with the [Enough Project](#), a well-known NGO focused on human rights issues in Africa; AMD has helped forge consensus recommendations on the policy for this issue.

On August 22, 2012, the Securities and Exchange Commission (SEC) issued a final rule implementing Section 1502 of the Dodd-Frank Wall Street Reform and Consumer Protection Act on conflict minerals. In several instances, the SEC referred to the comments received from the multi-stakeholder coalition as important background for the final rule. Following the filing of a lawsuit challenging the final

rule, the multi-stakeholder group issued a [statement](#) focused on how the members would move forward with implementation efforts regardless of the challenge.

AMD has also engaged with multiple stakeholders in the development and launch of the Public-Private Alliance for Responsible Minerals Trade (PPA). AMD is a founding member and sponsor of this effort, and has worked with the U.S. State Department and USAID on the framework of the organization and its goals.

The PPA aims to assist with the development of pilot supply chain systems that will allow businesses to source minerals from mines that have been audited and certified to be conflict-free. The alliance will provide a platform for coordination among government, industry and civil society actors seeking to support conflict-free sourcing from the Democratic Republic of Congo (DRC).

Read more about AMD's programs and policies on conflict minerals in the [Product Stewardship](#) and [Supplier Responsibility](#) sections of this report.

Employees

AMD employees are our most important stakeholder group. We know that employees – especially younger employees and job seekers – are increasingly seeking employers with values matching their own. We periodically survey our employees worldwide to understand their overall satisfaction, specifically asking them about their impressions of our corporate responsibility programs. The last survey was completed in 2011, and it was gratifying to learn our employees had a very high level of satisfaction with our corporate responsibility programs, averaging 86 percent favorable for all employees surveyed. This was 13 percent higher than the global norm for this question and four percent higher than the norm for high-performing companies. The next survey is planned for Fall 2013.

AMD has a number of ways to engage employees in our corporate responsibility programs, ranging from our employee-driven "Green Teams" and "Go Green" commuter program to our volunteer opportunities, matching gifts program and the AMD Women's Forum. Looking forward, we plan even more engagement activities, such as conservation challenges, contests and awards based on corporate responsibility themes.

For a semiconductor design company like AMD, recruiting, retaining and engaging the world's most talented people is essential to our success as a business. Research shows that corporate sustainability practices can attract, retain and foster a quality workforce¹. We informally tested this concept with a brief survey of AMD's Green Team leaders and found that 96 percent of them agree that contributing to a cause, while at work, improves their commitment to their core job functions and to AMD.

Communication Channels: While there is no minimum timeframe for notifying our employees, AMD makes every effort to inform employees of significant operational changes in a timely manner using the following communications channels:

- > AMD's intranet site – which can be accessed by any AMD employee
- > Leadership communication – our leaders consistently cascade communications through their

¹ ["Aligned Incentives and Engaged Employees Improve Triple Bottom Line Performance"](#), Environmental Leader, August 4, 2011

organizations

- > Special meetings or webcasts – we utilize an open forum for management to engage employees and respond to questions

Customers, Peers and Social Investment Analysts

AMD is committed to forging relationships with our customers and partners through ongoing interactions that create dialogue and stimulate engagement with our company. These interactions occur consistently both on- and off-line, and provide an understanding of our customers' views. Customer events and activities in 2012 included the following:

- > Industry events
- > Media and analyst tours
- > Customers and partner events (dinners, trainings, roundtables)
- > Customer meetings
- > Customer's environment and social responsibility surveys

AMD actively engages with shareholders, the investment community and third-party ranking and ratings organizations. In 2011, AMD held investor engagement sessions on our strategy and how it is being delivered.

In addition to direct outreach to the Socially Responsible Investor (SRI) Community, AMD regularly works with SRI representatives on our stakeholder panel and developing conflict minerals policy. While we have discussed many issues, a strong message from this group is to continue our consistent execution performance and transparency on corporate responsibility. In 2013, we are planning additional outreach to the SRI community.

Sustainability Indexes

AMD has remained on the Dow Jones Sustainability North America Index every year since its inception in 2005. The company also remained on the Calvert Social Index®, the Global Challenges Index and the MSCI KLD 400 ESG Social Index in 2012. These indices recognize companies with proactive policies and practices that meet globally recognized sustainability standards and challenges.

CHAPTER III: PRODUCT STEWARDSHIP

AMD's graphics and computing technologies power a variety of devices including PCs and mobile devices, embedded and gaming systems and the powerful computers and servers that drive the Internet and support businesses. As part of our design efforts, AMD strives to provide products that help our customers address modern computing workloads while minimizing environmental impacts.

Designing a semiconductor product that can contribute to society and has a reduced environmental impact requires consideration of many issues including:

- > Making Computing More Energy Efficient
- > AMD Products and Technology Platforms
- > Product Content
- > Product Resource Efficiency and End-of-Life Considerations
- > Product Packaging

Making Computing More Energy Efficient

AMD is dedicated to innovation in low power and energy-efficient computing, demonstrating this commitment through our product designs and sustainable business operations. We also work with other organizations dedicated to our vision of reducing energy use and making computing more environmentally friendly. These include industry partners, governments, nonprofit standards bodies and research institutions.

Green Grid

The Green Grid, for example, is a global information technology (IT) organization dedicated to energy efficiency and sustainability for computing and all aspects of data center operations. AMD is a founder and board member of The Green Grid which brings private industry, government and other organizations together to create energy efficiency standards and best practices for data centers and data center equipment, as well as provide data analysis and research for emerging technologies and management practices. The organization has grown and expanded its mission, and today is widely recognized as a global authority on resource efficiency in business computing ecosystems.

Standards

AMD also works closely with environmental sustainability standards to address environmentally sustainable and responsible design, manufacturing, operations and end-of-life management. One such organization is EPEAT® (Electronic Product Environmental Assessment Tool), an environmental rating organization developed through collaborative efforts of stakeholders from business, government, nonprofits and academic institutions. EPEAT® aims to help purchasers evaluate electronic products on the basis of sustainability guidelines covering a wide range of measures.

AMD is also an active contributor to government energy efficiency standards, such as the U.S. Environmental Protection Agency's (EPA) Energy Star® program and its analogs around the world. AMD believes the most effective sustainability practices and measures are achieved by working closely with

stakeholders to create effective and lasting solutions, and both EPEAT® and Energy Star® are good examples of the success of this model.

Lifecycle Analysis

AMD processors influence the power consumption, and the accompanying GHG emissions, associated with the use of a broad range of technology products. From high-performance computers and commercial servers to consumer laptops, AMD strives to improve energy efficiency per unit of performance through the design of our semiconductor products.

In 2012, we continued our work to evaluate the GHG emissions associated with the lifecycle of our products by working with researchers at Massachusetts Institute of Technology (MIT). The researchers are using the “Product Attribute to Impact Algorithm” (PAIA) to evaluate the carbon footprint of semiconductor devices.

For more information on AMD’s energy efficiency initiatives and industry and business associations, please see [Public Policy](#).

AMD Products and Technology Platforms

AMD APUs

In 2011, AMD launched a new class of processor, the [APU](#). The APU’s system architecture integrates a CPU with a discrete-level graphics processor onto a single chip. AMD APUs enable software developers to take advantage of the parallel processing power available in a GPU, which makes computing applications such as multimedia, productivity and simulations run faster, allowing PCs to transition to lower power idle/sleep/off states for longer periods of time. Other power savings features include AMD AllDay™ power designed to extend notebook battery life.

A [carbon footprint study](#) conducted by AMD found the integrated APU design provides an average 40 percent savings in GHG emissions, as compared to our previous generation products that were not integrated on a single chip. This translates to an estimated 27.2 kg reduction in carbon equivalent emissions over the APU’s estimated life cycle. The lower carbon footprint of the APU largely results from the efficiencies gained through integration of the computing and graphics processors onto a single piece of silicon.

Server Products

AMD server technology supports a variety of datacenter workloads, including virtualization, web/cloud, IT infrastructure, database, HPC (high performance computing) and email/collaboration.

AMD Opteron™ Series Processors

Energy efficiency continues to be an important design consideration for multi-core AMD Opteron™ processors for servers. The AMD Opteron™ 6300 processors offer up to a 40 percent increase in energy efficiency or performance per watt while drawing about the same power compared to the previous generation Opteron™ 6200 processors.

AMD Opteron™ processors incorporate power management technology that is designed to address the energy efficiency needs of data centers, ranging from cloud computing environments to high-performance computing. This includes AMD-P technology, a suite of advanced features that can help reduce energy usage by keeping processor power consumption down when all of the processor logic is not required by a given workload.

Cloud Computing Platforms—In cloud computing environments, peak workload periods must be handled efficiently, and power consumption should be reduced during low utilization periods. Multi-core AMD Opteron™ processors incorporate enhanced AMD Virtualization™ (AMD-V™) technology with power management features to address these needs, helping cloud data center operators perform server consolidation, increase utilization rates and reduce overall power and cooling requirements.

Open 3.0 Platform—AMD recently launched the Open 3.0 platform (formerly codenamed “Roadrunner”). This platform is a radical rethinking of the server motherboard design focused on the standards developed by the Open Compute Project – a partnership of many companies in the datacenter space including Facebook, Rackspace and AMD.

AMD Open 3.0 enables substantial gains in computing flexibility, efficiency and operating cost by simplifying motherboard design with a single base product to address multiple enterprise workloads. These include high-performance computing, cloud infrastructure and storage.

This innovative design is optimized to deliver the highest level of computational power within the lowest power envelope.

- > Fewer ASICs translate into reduced power use (less silicon, less energy required).
- > The AMD Open 3.0 motherboard is smaller and requires less power to run.
- > Smaller form factors potentially enable more compute power in smaller physical spaces, resulting in lower cooling and overall energy consumption.
- > New, more efficient voltage regulators and power supplies also help keep power use low.

In 2012, AMD announced plans to offer both 64-bit ARM and x86 server processors. These products will enable new levels of flexibility and drive optimal performance and power efficiency for a range of data center enterprise workloads. AMD’s first ARM-based server CPU is targeted for production in 2014.

AMD SeaMicro Servers

“We are passionately committed to developing servers that takes less space and consume less power. Our technology brings the economic benefits of efficiency – namely reduced total cost of ownership – together with the social benefit of doing the right thing for the environment. And when you can do both, it is an easy decision.”

— **Andrew Feldman, general manager of the Data Center Server Solutions group, AMD**

Energy and power consumption have become an important component of the total cost of ownership of a data center. In response, AMD’s SeaMicro servers utilize a server architecture that eliminates dozens

of unnecessary parts and components, resulting in industry-leading computing performance per watt of electricity. Energy savings are enabled by a number of technology innovations including:

- > The server motherboard is reduced to the size of a credit card with AMD's CPU I/O technology, which significantly reduces the power draw of the non-CPU portion of a server and removes all but three components on the mini-motherboard: the CPU, DRAM and AMD Freedom™ Fabric ASIC.
- > Mini-motherboards are further power-optimized with AMD TIO technology, which reaches into the CPU and chipset to consolidate functionality and shut off unused blocks.
- > A supercomputer-style interconnected fabric, the AMD SeaMicro Freedom™ supercompute fabric, links hundreds of the credit-card-sized motherboards into a single system, delivering a dramatic reduction in power draw.

By taking an end-to-end view of the entire computing system and optimizing the interworking parts, AMD has brought to market a revolutionary family of data center servers that can use as little as 1/4 the power and 1/6 the space of today's best-in-class volume servers.

Graphics Products

AMD also implements power management features in our graphics processors. For example, AMD PowerPlay™ technology manages graphics power states (voltage and frequency) based on active workloads, allowing the GPU to function in the lowest possible power state for a given computing requirement. AMD ZeroCore Power Technology shuts down the GPU when the computer enters long idle periods, which can enable greater than 95 percent reduction in power consumption during this state. AMD Enduro™ technology automatically turns off the AMD Radeon™ discrete GPU for non-intensive applications to help maximize battery life for more time unplugged. More information about AMD's approach to power efficiency in our graphics products can be found on our website.

Desktop and Mobile Products

Computing devices continue to evolve and add new features such as gesture and facial recognition, wireless connectivity directly to televisions and monitors, and streaming video. The current generation of AMD processors helps enable these features, while offering improved energy efficiency in certain operating modes when compared to previous generation technology.

- > AMD's "Richland" mobile processor increases both CPU and graphics performance while decreasing power consumption resulting in improved battery life.
- > AMD's latest A8 and A10 Trinity APU's for desktops offer greater power efficiency than our previous generation technology and consume as little as 1.08 W of power in idle mode.

AMD technology also supports out-of-band computer management and wakeup, based on the Desktop and Mobile Architecture for System Hardware (DASH) 1.1 standard developed by the Desktop and Mobile Task Force. Out-of-band management offers enterprises the ability for remote power management and PC wakeup.

For more information about AMD's work on promoting energy efficiency in our products, please see [Public Policy](#).

Embedded Systems

These technologies are used in diverse applications ranging from digital signage, set-top-boxes, telecom, thin clients, industrial controllers, gaming, medical testing applications and storage. AMD Embedded Solutions give designers flexibility to design energy conservation into their systems without compromising application performance, compatibility, graphics performance or features. AMD's embedded and semi-custom APUs combine the parallel processing capabilities of a GPU with the serial processing capabilities of a CPU in a small footprint with low power. Based on strong design wins, additional APU-based embedded products are expected to launch later in 2013.

Leading Edge Technologies in Development

As leading innovators in the computing industry, AMD invests heavily in research and development efforts that are helping to define the future of energy efficient and low-power computing. An example is the ongoing research with the U.S. Department of Energy (DOE) to help design the next generation of supercomputers. This multi-year project, known as "FastForward," seeks to deliver "exascale" level computing performance that is 1000 times more powerful than current performance levels, but with vastly lower power consumption levels than today's technology. Power consumption is reduced using energy-efficient APU designs as well as new approaches to software development that are well-tuned for massively parallel computing systems and applications. Read more about [FastForward](#) on AMD's webpage.

Another example is AMD's research efforts on greening datacenters, including a project with the New York State Research and Development Authority (NYSERDA), Clarkson University and other partners to develop a distributed network of data centers that run completely on renewable energy sources such as wind, solar and hydro. The project that is currently in its early stages, seeks to eliminate the need for datacenters to operate on commercial electricity grids, expanding location opportunities as well as reducing costs and dependency on carbon-based electric generation sources. Read more about this project in the [AMD Technology Enabling A Better World](#) section of this report.

For more information about AMD's research efforts, please visit the [AMD Research](#) webpage.

Product Content

Semiconductor products are small in size but incorporate materials that can potentially be hazardous. Regardless of the small quantities and the limited potential for exposure to these materials, we have continued efforts to reduce the hazardous materials content of our products. Outlined below are some of the actions we have taken to reduce materials content.

Lead

Lead in electronic products has been restricted by regulation in a number of countries over the past several years. We began formulating a strategy to address lead and other substances of concern more than 10 years ago, and now offer products compliant with the Restriction of Hazardous Substances (RoHS) in electronics requirements of the European Union (EU), China and other countries. For example, we have collaborated with our suppliers and invested significant engineering resources to

introduce “Lead-Free”¹ CPU and APU products to the market. While small amounts of lead are still in use in some limited applications exempted by regulations, AMD continues to research no-lead alternatives. View AMD’s [RoHS Compliance Statement](#) on our website.

Halogens

Halogens refer to a class of chemical compounds containing one or more elements in the halogen family (such as chlorine or bromine). Some materials containing halogens have been linked to environmental and health concerns by some stakeholders. In response, we have developed a strategy to identify halogen-free alternatives for existing materials in our products. Beginning in early 2009, AMD introduced new microprocessor and graphics products that are “Halogen-Free².”

REACH

Since the transfer of our wafer manufacturing assets in 2009, much of the compliance requirements for EU’s Registration, Evaluation, Authorization and restriction of Chemical substances (REACH) regulation are now the responsibility of our supply chain partners. Nevertheless, we continue to track developments and collaborate with our supplier partners in order to address REACH requirements. For example, AMD issued a supplier specification requiring the identification and restriction of chemicals that are regulated under REACH, including phthalate compounds and other substances recently identified for phase-out under Annex XIV of the regulation.

Conflict Minerals

The Securities and Exchange Commission (SEC) issued a final rule for tracking so called “conflict minerals” on August 22, 2012. This rule, implementing section 1502 of the [Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010](#), sets out the due diligence and reporting requirements for companies publically traded in the U.S. for tracking the sources of tin, tungsten, tantalum and gold in their products. If any of these materials are found to originate from the Democratic Republic of the Congo (DRC) or an adjoining country the company may be required to file an independently audited report with the SEC and publicly disclose products which products are “conflict-free.”

AMD has worked with the Electronic Industry Citizenship Coalition (EICC) to develop standardized processes for compliance. In essence, the electronics compliance strategy can be characterized in three steps:

1. Downstream (from the smelter to the final product): A standard data template for retrieval of essential information in the supply chain.
2. Smelters: The “conflict-free smelter program” conducts audits of the smelters of the four minerals to assure they originate from conflict-free sources.
3. Upstream (from the mine to the smelter): Working collaboratively with the U.S.

¹ To qualify as “Lead-Free”, a part/product must not contain more than 1000 parts per million (ppm) of lead within any homogeneous material.

² Halogen-free is defined as complying with the restriction of brominated and chlorinated compounds per the IEC 61249-2-21:2003. To qualify as “Halogen-Free,” a part or product must not contain concentrations of bromine or chlorine above the threshold level (900 ppm bromine or chlorine individually, or 1500 ppm for total bromine and chlorine) for each homogeneous material within the part or product.

government and DRC stakeholders to develop conflict-free sources of minerals through the PPA for Responsible Minerals Trade.

AMD has developed a comprehensive program encompassing each of these approaches and made significant progress. Additional information on our actions in this area is outlined in the [Supplier Responsibility](#) section of this report.

Product Resource Efficiency and End-of-Life

Efficient use of natural resources in products and during the manufacturing of products is a key aspect of sustainable product design. The resource efficiency of IT products can be improved by making products smaller, and by integrating more functions into one device.

Resource Efficiency

Power and space often account for greater than 75 percent of the operating expense of a modern data center. AMD's SeaMicro SMI 5000 can take as little as 1/6 of the space to do the same work as the best-in-class volume servers. SeaMicro's patented I/O Virtualization Technology allows for removal of around 90 percent of the components from the motherboard enabling a server motherboard that is approximately the size of a business card. The SeaMicro Freedom™ supercomputer fabric allows for the elimination of power-consuming rack switches and load balancers that are found in conventional rack servers.

AMD's APUs incorporate three chips previously manufactured separately (a CPU, GPU and Northbridge chipset) into a single die (chip) design. This combination of an integrated design, as well as a smaller form factor, results in less resources needed for manufacturing, as well as less material to recycle or dispose at the end of the product's useful life.

End-of-Life Extension

AMD products can also help extend the life of computing platforms, thus reducing electronic waste. For example, AMD Opteron™ 6300 platforms utilize the same socket as our previous generation products. This means that processor upgrades can occur while avoiding hardware replacements and the associated waste. AMD Extended Migration is a hardware feature that enables virtualization software vendors to provide live migration capabilities between systems with different generations of AMD Opteron™ processors.

Product Packaging

Packaging can refer to the materials used to ship our product as well as the protective coating around a semiconductor chip. The focus of this section is on packaging materials used for shipping and handling our products.

AMD specifies the packing materials used for our products, including recyclability of materials and use of recycled content. Our packaging designers continuously seek out environmentally preferable packing materials and methods to minimize packing that meet our needs for product protection, cost, material properties and compliance with industry standards.

Our packaging requirements limit the presence of certain heavy metals, such as lead and cadmium; include marking plastic parts with the appropriate Society of the Plastics Industry (SPI) International Resin Codes for recycling; and include the use of water-based inks and dyes. AMD no longer uses PVC in any of our packing materials, and incorporates the use of unbleached cardboard and clay-coated news back (CCNB)¹.

In 2012, AMD reduced the packaging size for PIB (processor-in-box) products by 20 percent. This reduced transportation and material costs, and improved operational efficiency. An estimated 120 tons less corrugated materials were used for PIB products in 2012 compared with 2011.

AMD ships products to our customers in trays that can be reclaimed for reuse and then recycled when no longer usable. In 2012, AMD reused approximately 140 tons of trays and recycled about 20 tons – effectively giving these materials a new useful life and keeping them out of landfills.

In 2008, AMD started the transition from wooden pallets to plastic pallets for product transportation because plastic pallets are more readily reused and recycled. Today, plastic pallets account for more than 60 percent of the total number of the pallets used. In 2012, the use of the lighter plastic pallets resulted in an approximate reduction of 220² tons CO₂ (equivalent to the carbon in 318 old growth trees) and an estimated freight cost savings of \$140,000. AMD also reused more than 8,000 of these plastic pallets (total weight of about 28 tons) in 2012. As part of our continued research on alternative, cost effective packaging and shipping material, AMD is evaluating the use of corrugated pallets which are lighter and cheaper than those currently used, and 100 percent recyclable.

¹ CCNB is recycled paperboard that is clay-coated on one side.

² Emissions and cost savings estimates provided by pallet vendor.

CHAPTER IV: AMD TECHNOLOGY: ENABLING A BETTER WORLD

AMD technology is being used to help address some of the world's most pressing challenges. In addition to designing technology products, we also work with customers and partners to design world-class systems, develop or optimize applications, and provide features to meet user needs. From helping scientists advance research in healthcare and climate change, to optimizing clean energy technologies, to creating "green" data centers powering cloud computing, AMD employees and the technology we produce are helping to make the world a better place.

AMD and the Cloud

Building on our long history of innovation, AMD is focused on radically changing the data center and accelerating the expansion of cloud computing and the capabilities and benefits it provides. We are launching technologies that dramatically reduce energy consumption and space requirements while enabling highly specialized workload optimizations that are transforming the capabilities, design and economics of the cloud. Our energy efficient technologies are also helping our customers – and their customers – reduce the environmental impact associated with computing operations and data management.

Walking the Talk: AMD's Private Cloud

AMD's private cloud is one of the largest internal cloud computing infrastructures in the world. It is used by our engineers around the world to design future generations of AMD processor solutions. Optimized for both performance and power management, this network consists of tens of thousands of AMD CPUs with more than four petabytes of storage. With an operation of this size, energy efficiency and power management are essential for performance management, lowering energy costs and managing our carbon footprint.

In addition to using servers equipped with AMD's energy efficient processors, we designed a heavily virtualized computing environment. Virtualization increases the utilization of each physical server, which increases efficiency while reducing the overall number of physical servers needed to meet compute requirements. Fewer servers means our data centers use less power and generate less heat that in turn reduces the energy needed for cooling.

AMD's commitment to data center efficiency and sustainability goes well beyond reducing energy consumption. We are also committed to using renewable energy when available and feasible. For example, AMD's newest data center, located in Alpharetta, Georgia, was awarded a LEED (Leadership in Energy and Environmental Design) Commercial Interiors certification from the U.S. Green Building Council (USGBC), and was powered by 100 percent renewable wind energy in 2012.

This data center is just one example of AMD's overall strategy to make our own IT operations as efficient as possible, and use our current state-of-the-art, high-performance and high-efficiency technologies to design new generations of technologies. In short, we're using today's cloud technologies to advance tomorrow's cloud technologies.

Greening Datacenters and the Cloud

Datacenters are the foundation of the digital economy and cloud computing services that enable smart phone applications and other online services are driving unprecedented demand for digital content and computing capacity. While the cloud enables a range of new and efficient services, concerns have been raised about the environmental impacts of generating the energy needed to run datacenters.

According to a study by Stanford Professor Jonathan Koomey, worldwide electricity consumption for datacenters grew by approximately 56 percent between 2005 and 2010 and now represents about 2.5 percent of total electricity use in the U.S.¹

The rising demand for electricity to power the cloud, coupled with environmental concerns is driving the imperative to design the most energy efficient computing technology. In our continuing efforts to innovate low power, environmentally efficient solutions, AMD has teamed up with Clarkson University, the New York State Energy Research and Development Authority (NYSERDA), HP and other organizations to research effective ways to power data centers from renewable energy sources.

Developed by AMD's External Research Office, the project is in its second year. The goal is to build a distributed computing network by co-locating renewable, yet dynamic, energy sources such as wind and solar with containerized data centers such as HP's Performance Optimized Datacenter ([POD](#)) driven by AMD Opteron microprocessors.

Since solar and wind sources are intermittent, the project is testing the feasibility of using a fiber optic network to transfer work load to the POD datacenters where alternative energy is actively being generated. This model can create considerable cost efficiencies by replacing expensive electrical transmission lines to transport electricity with less expensive fiber optic lines to transport data. Renewable energy sources obviously provide environmental benefits by reducing the carbon emissions associated with traditional energy generation. We're excited about the potential of this and our other projects that are helping to make computing more cost efficient while protecting the environment.

“So called “green computing” is important to AMD because it is not only more environmentally sustainable, but it is also more efficient from a computing perspective and cost-effective from a business perspective. Now that is good business.”

— Alan Lee, Corporate Vice President for Advanced Research and Advanced Technology

Making Cloud Computing More Environmentally Sustainable

German cloud services company Intergen is a leading provider of web hosting and server solutions across Europe and the United States. With more than two million active websites, a proprietary backbone and competitive pricing, Intergen is one of the leading companies in dedicated hosting worldwide. They are also dedicated to operating “green” data centers that are highly energy efficient and offer their customers cost savings and an environmentally responsible alternative to many other data center operations.

¹ The New York Times – 7-31-2011. Found at: http://www.nytimes.com/2011/08/01/technology/data-centers-using-less-power-than-forecast-report-says.html?_r=0

“By running the datadock, Europe’s greenest data center, we meet both our and our customer’s ecological concerns. The datadock’s fantastic Power Usage Efficiency (PUE) value of 1.21 is also supported by using energy-efficient processors such as AMD Opteron processors.”

—According to Intergenia founder and president, Thomas Strohe

Datadock is also committed to using 100 percent green electricity, state-of-the-art power saving transformers and cooling devices. Together, these technologies reduce power consumption by 25 percent compared to an average data center. Those savings are directly proportional to reductions in GHG emissions from electricity generation.

Read the [Intergenia case study](#) on AMD’s Customer Experiences website.

Advancing Healthcare

Early Detection and Treatment of Breast Cancer with Advanced Medical Imaging

High-resolution imaging and detection technologies enable more precise, swift and timely diagnoses of life-threatening diseases, limit the number of invasive and unnecessary medical procedures and support preventive care. Medical imaging technology company, Barco, has relied exclusively on AMD FirePro™ workstation graphics cards for more than a decade to power their high resolution diagnostic displays.

Over the years, AMD and Barco have worked together to address such issues as extending the life of older technology, redesigning existing graphic cards and enabling new cutting edge features. The latest advance in mammography technology, Breast Tomosynthesis, offers multi-frame 3D views of the breast. It provides clearer, more accurate views, and allows physicians to more effectively pinpoint the size, shape and location of any abnormalities. Barco introduced the first 5-megapixel display for Breast Tomosynthesis, powered by AMD FirePro™ workstation graphics.

In addition to high-image quality, multi-monitor configurations can also help medical professionals work more efficiently by allowing them to quickly view more information at once and in greater detail. AMD’s Eyefinity multi-display technology enables one workstation graphics card to be able to power up to six displays. The most common configuration for Barco customers is three displays, powered by one ATI FirePro™ V5800 workstation graphics card.

View the [video](http://youtu.be/OpeHZAyypc) on AMD and Barco (<http://youtu.be/OpeHZAyypc>).

Health Management in Nigeria

Third-world conditions can make delivering electronic health care services particularly challenging. In Nigeria, the network and server access needed to manage health records and communications was limited throughout the healthcare system due to a lack of consistently reliable electricity. eHealth Nigeria, an NGO dedicated to providing universally available and sustainable Health Management Information Systems met this challenge by designing a small, yet fully functional data center with its own dedicated power source – a combination of gasoline- and diesel-powered generators. eHealth Nigeria is also utilizing innovative open source technologies to create systems and applications that are well-suited

for the patchwork of IT networks and infrastructure in Nigeria. Read more about [eHealth](#)'s work in Nigeria on AMD's Customer Experiences website.

Speeding Up DNA Replication

Once reserved for research, DNA analysis is quickly becoming an essential tool for medical professionals to accurately diagnose and analyze treatment options for their patients. The time and resources needed to replicate and analyze DNA, however, continues to present a challenge to its wide-scale availability and affordability. Recently, BJS Biotechnologies turned to AMD to help them build their xpress® DNA replication machine. Using AMD embedded processor technology, xpress® incorporates an innovative design with a powerful graphical user interface that reduces setup time and the time required to replicate DNA from days or hours to as little as 10 minutes. This greatly improves the efficiency and reduces the costs for DNA testing. This breakthrough can allow patients to be diagnosed and prescribed treatment in a single visit, help assess and improve ongoing treatments for chronic or serious disease, or even help save lives in emergencies.

Read more about [DNA replication](#) on AMD's Customer Experiences website.

Understanding Climate Change Using the World's Most Powerful Supercomputer

Titan Supercomputer: The Titan supercomputer at the U.S. Department of Energy's Oak Ridge National Laboratory is the world's fastest supercomputer ([Top 500, November 2012](#)), operating at nearly eighteen petaflops (one petaflop equals one quadrillion operations per second) with a peak theoretical performance level of approximately 27 petaflops. This massively parallel supercomputer is the world's most powerful computer available to academic researchers, helping to usher in a new era of research on highly complex systems and materials.¹ Titan is produced by supercomputing powerhouse Cray, Inc., and uses more than 299,000 AMD Opteron processor cores, as well as other processing solutions.

Researchers are using Titan to develop highly complex weather simulation models to predict and understand the effects of climate change on our environment. Using these models, researchers can forecast climate-related changes and their impact on coastal flooding, food-crop production, biodiversity and many other impacts. With this information, they can work toward identifying the most efficient and effective ways to both combat and adapt to climate change. Read more about Titan on the Oak Ridge National Laboratory site: <http://www.olcf.ornl.gov/titan/>.

SHARCNET: Powered by AMD Opteron™, SHARCNET (Shared Hierarchical Academic Research Computing Network) is another supercomputer engaged in climate change research. SHARCNET is a network of high-performance computers and software, in essence a "cluster of clusters" operated by a consortium of Canadian universities, colleges and research institutes. As a shared computing resource for universities and laboratories, the network is designed to meet a number of research priorities, as well as serve as a means to attract and retain talented students, researchers and other collaborators.

¹ *Introducing Titan, Advancing the Era of Accelerated Computing.* Oak Ridge Leadership Computing Facility website. Found at: <http://www.olcf.ornl.gov/titan/>

In addition to climate change modeling and prevention scenarios, SHARCNET's models and simulations are addressing a number of other promising research areas, including environmentally friendly vehicles and understanding how highly infectious diseases are spread to evaluate containment and prevention options. Read more about [SHARCNET](#) on AMD's Customer Experiences website.

Improving Weather Forecasts to Prevent Disasters in Brazil

In Brazil, the Center for Weather Prediction and Climate Studies of the National Institute for Space Research (CPTEC/INPE) is one of the largest centers for space and climate research in the world. The center's job is to make weather forecasts for Brazil and the rest of the world, helping citizens and public authorities plan for and respond to weather- and climate-related events.

The Cray XE6 "Tupa" supercomputer, the largest supercomputer in Latin America, relies on AMD Opteron™ processors to help CPTEC/INPE improve their research and operations. Because of the immense processing power and scalability provided by the AMD Opteron™ processors, Tupa allows users to simulate the complex scenarios characteristic of climate research. This allows for faster computation and astrophysical modeling, which improves the accuracy of weather forecasts. This in turn allows scientists and researchers to enhance their predictive models and help anticipate and prepare for potential natural disasters. Using their AMD powered supercomputer, CPTEC/INPE can deliver more accurate predictions that result in safer communities.

Increasing the Efficiency of Wind Energy Generation

In a 100-megawatt wind farm, a drop in output of even a few percentage points can result in the loss of energy for utilities and their customers, as well as hundreds of thousands of dollars in lost revenue for the wind farm. A supercomputer built by Nor-Tech, featuring AMD Opteron™ processors is helping engineers design more efficient turbines by better understanding the effect of wake turbulence on the efficiency of wind turbines.

The AMD Opteron™ processor-powered Nor-Tech supercomputer cluster is specifically tailored to compute fluid dynamics for wind turbines. This allows wind farms to adjust turbine placement and positioning to minimize the inefficiencies associated with wake turbulence, thereby bringing the farm closer to its maximum power output. The complicated fluid dynamics computer programs run exceptionally well on AMD Opteron™ processors because of the unique design architecture, making the Nor-Tech cluster an ideal tool for optimizing its wind turbine performance. Building on this success, there are plans to use this supercomputer for similar renewable energy projects, including a Department of Energy (DOE)-funded project to generate wind power for New York City.

Read more about [Nor-Tech](#) on AMD's Customer Experiences website.

CHAPTER V: SUPPLIER RESPONSIBILITY

Our goal is to deliver high-quality products while ensuring that working conditions throughout our supply chain are safe, that workers are treated with respect and dignity and that manufacturing processes are environmentally responsible. We believe the most effective and efficient way to achieve these goals is by placing responsibility with the entities that have authority to institute and manage robust programs – our suppliers.

AMD incorporates corporate responsibility expectations into the same business processes we use for all supplier performance – the supplier business reviews (SBR). The SBR is the forum where senior leaders from both companies come together on a regular basis to discuss a broad range of topics relevant to our business relationship. Corporate responsibility is an integral part of these relationships and thus included in the SBR for all of AMD's top-tier suppliers. To ensure our responsibility standards are being accomplished, we set clear expectations, ask our suppliers to report on their performance during SBRs, and review third-party audit information.

Policies and Practices

Standards — AMD is a long-standing member of the Electronic Industry Citizenship Coalition (EICC) and in 2013 our Corporate Responsibility Director was elected to Chairman of this organization. We have adopted the standards within the EICC Code of Conduct and expect our suppliers to conform to them. Conformance to the EICC Code of Conduct is assessed annually for our manufacturing facilities, and we also require this of our major suppliers. High risk facilities identified through this assessment program are required to undergo an EICC audit. In addition, AMD has also adopted the Principles of Social Responsibility issued by the Institute for Supply Management (ISM). Each year, we communicate our expectations to our top-tier suppliers for conformance to the Code, ISM principles or equivalent standards. In 2012, 89 percent of our major supplier facilities completed the EICC self-assessment questionnaire (SAQ) and no high-risk supplier facilities were identified.

Supplier Business Reviews — During SBRs, conformance to the standards are reviewed and discussed. Using the business review forum reinforces that social and environmental performance are important aspects of the business relationship and that our suppliers are responsible for their own performance.

Because wafer foundries make up a large portion of our supply chain, we have applied additional focus to them. AMD's two major wafer foundry suppliers are GLOBALFOUNDRIES and Taiwan Semiconductor Manufacturing Company (TSMC). AMD has established quarterly reviews with each foundry in which we review environmental, safety and labor metrics, such as GHG emissions, energy use, water consumption, work hours, injury and illness data and others.

Continuous Improvement — Our Strategic Sourcing Process (SSP) rates and provides feedback on supplier performance. In 2012, social and environmental responsibility (SER) criteria continued to be qualitatively discussed in performance discussions with our top-tier suppliers. In 2012, we fully integrated SER into the quantitative supplier performance scores. Scorecards in 2013 will continue to

include SER criteria and will be reviewed in SBRs for key deliverables within SER initiatives. We also continue to work with our wafer foundry partners to establish additional SER objectives and targets.

Supplier Performance Management — AMD recognizes our suppliers that demonstrate leadership in performance, show continuous improvement and offer differentiated value. SER is an essential criterion in our supplier recognition program.

Conflict Minerals

The DRC has been the site of one of the world’s worst humanitarian crises throughout the last decade. An estimated five million people have died as a result of violent conflict. Illegal armed groups and some Congolese national military units regularly commit human rights abuses while being supported by the trade of minerals.¹

There have been several efforts to mitigate this ongoing humanitarian crisis – ranging from security, diplomacy and foreign aid. Most recently, stakeholders from government, industry, investors and activists have worked together on a new approach. The concept is to trace the origin of the minerals in everyday products – like electronics – back to their source. By tracking and publicly reporting this information, the public can choose products that have no link to the conflict in Central Africa, or are “conflict-free.”

New Requirements

This approach is encompassed in a new U.S. law and regulation. The SEC issued a final rule for tracking so called “conflict minerals” on August 22, 2012. This rule, implementing section 1502 of the [Dodd-Frank Wall Street Reform and Consumer Protection Act of 2010](#), sets out requirements for companies publically traded in the U.S. for due diligence, tracking and reporting the sources of tin, tungsten, tantalum and gold in their products. If any of these materials are found to originate from the DRC or an adjoining country, the company may be required to file an independently audited report with the SEC and publicly disclose which products are “conflict-free.”

AMD’s Actions on Conflict Minerals

Although the mining of mineral ore in Africa is several steps removed from the manufacture of high-tech electronics, AMD has responded because of the severity of the humanitarian issues in the DRC mining fields. Whether close or far from our position in the supply chain, these issues cannot be ignored, and AMD is playing a leadership role to help formulate effective solutions.

Even before the passage of the Dodd-Frank law, AMD engaged with stakeholders from NGOs, SRIs, government officials and other like-minded companies. With the [Enough Project](#) (a leading NGO focused on the conflict minerals issue), AMD co-chaired an ad hoc coalition focused on guiding conflict mineral policy dubbed the “multi-stakeholder group.” To date, this working group has delivered five letters to the SEC with consensus policy positions. Each letter was endorsed by approximately 25

¹General Accounting Office. *The Democratic Republic of the Congo: US agencies should take further actions to contribute to the effective regulation and control of the mineral trade in the Eastern Democratic Republic of the Congo*. GAO 10-1030 report (September 2010).

organizations.¹

This degree of multi-stakeholder collaboration is unusual for any policy issue, but unprecedented on an issue as sensitive as conflict minerals. To our knowledge, the comment letters from this group are the only multi-stakeholder consensus positions received by the SEC, and were referenced in multiple instances in the final SEC rule.

AMD's Conflict Minerals Policy

Beliefs

AMD is taking steps to break the link between the trade in minerals and ongoing conflict and human rights abuses in Central Africa. To this end, AMD believes that an effective approach has three fundamental elements:

1. An "in-region" mineral certification program that enables the traceability and certification of minerals mined in the DRC and adjoining countries (the "DRC region");
2. A conflict-free smelter program that enables third-party validation of each smelter's sourcing practices and a determination of whether its sources are conflict-free; and
3. Due diligence to verify that tin, tantalum, tungsten or gold in AMD's finished products can be traced to a certified conflict-free smelter.

Definitions

For the purposes of this policy, AMD defines "Conflict Minerals" the same as the SEC rule and which generally consists of cassiterite, columbite-tantalite, wolframite or gold determined to be financing conflicts in the DRC or an adjoining country. Finished metals potentially derived from Conflict Minerals in AMD products are tin, tantalum, tungsten and gold. For the purposes of this policy, these finished metals and the minerals from which they are derived are referred to as "Subject Materials."

Supplier Requirements

1. AMD suppliers shall not knowingly contribute to conflict or human rights violations in the DRC region through trade in Subject Materials;
2. AMD suppliers shall have documented policies and procedures to demonstrate that the Subject Materials they procure are sourced in accordance with this policy; and
3. AMD suppliers, to the extent reasonably practicable, shall trace the Subject Materials they supply to AMD to a smelter certified under the EICC/GeSI Conflict-Free Smelter Program.

¹Organizations which endorsed letter to the SEC included at least the following: Advanced Micro Devices, Inc., Africa Faith and Justice Network, Boston Common Asset Management, LLC., Calvert Asset Management Co., Inc., Congo Global Action, Enough Project, Falling Whistles, Ford Motor Company, Free the Slaves, Friends of the Congo, Future 500, General Electric Company, Hewlett-Packard Company, Interfaith Center on Corporate Responsibility, Jesuit Conference, Jewish World Watch, Loyola University Chicago Shareholder Advocacy Committee, Marianist Province of the U.S., Mercy Investment Services, Inc., Microsoft, Missionary Oblates of Mary Immaculate - Justice, Peace and Integrity of Creation Office, Responsible Sourcing Network, a project of As You Sow, Spring Water Asset Management, LLC., Sprint Sustainability, Trillium Asset Management, Tri-State Coalition for Responsible Investment, Unity Minerals, Inc. US SIF: The Forum for Sustainable and Responsible Investment.

AMD Actions to Implement Policy

1. AMD is implementing procedures designed to ascertain the sources and conflict status of Subject Materials in AMD products;
2. AMD is a founder and supporter the public-private alliance (PPA) for Responsible Minerals Trade focused on helping the DRC and other governments in the region break the link between the illicit minerals trade and the ongoing violence and human rights abuses, and;
3. AMD is an active participant in the EICC/GeSI Conflict Free Sourcing Initiative (CFSI). Through this collaborative approach we have developed a system for tracking the Subject Materials from the smelter through the electronics industry's supply chain.

AMD's progress to date

Within our supply chain, AMD is developing processes to identify the smelters of origin for Subject Materials utilizing the standardized tracing processes developed by EICC/GeSI. Using this method, we have identified more than 100 smelters that we compare against the conflict-free smelter list.

California Slavery and Human Trafficking Law

The California Transparency in Supply Chains Act of 2010 (SB 657) (the "Act") requires manufacturers and retailers doing business in the State of California to disclose information regarding their efforts to address the issues of slavery and human trafficking in their supply chains. In accordance with the requirements of the Act, AMD offers the summary below of our activities to identify and prevent human trafficking and slavery activities by our vendors.

AMD Policies and Actions

AMD strongly opposes the practice of slavery or human trafficking. AMD utilizes several approaches detailed below designed to ensure and verify the absence of such practices in our supply chain.

AMD is an active member and Chairs the EICC. AMD has adopted the [Electronics Industry Code of Conduct](#) (the EICC Code of Conduct) and generally requires conformance with this code from its suppliers. The EICC Code of Conduct is based on international labor, environmental and human rights standards that clearly prohibit slavery and human trafficking.

Risk-based supplier assessments: As a part of AMD's supplier management process, we assess our suppliers to evaluate their conformance to the EICC Code of Conduct. This approach includes preliminary risk assessments as well as more detailed supplier self-assessment questionnaires. The results of each method are scored utilizing the EICC scoring system to verify the suppliers' risk of non-conformance.

Supplier audits: Based on the results of the risk assessment, AMD may require a third-party on-site audit of supplier practices and management systems to evaluate supplier compliance with the EICC standards including avoiding human trafficking and slavery in our supply chain and with applicable laws and regulations. These audits may be announced or unannounced depending on the circumstances.

Supplier assurance: Each year, AMD communicates with suppliers in writing to ensure our expectations are clear and up to date with regard to responsible social, ethical and environmental conduct. This letter requires suppliers to comply with international standards, applicable laws and regulations as well as the EICC Code of Conduct. Additionally, AMD's standard terms and conditions for the procurement of goods and services require conformance to applicable laws and regulations, and reinforce our expectations regarding responsible social, ethical and environmental conduct.

Accountability: In addition to risk assessments and audits, AMD discusses conformance to the EICC Code of Conduct as well as related management systems with our suppliers during regular business reviews. Our supplier business reviews are the optimal venue for accountability with regard to responsible social, ethical and environmental conduct because senior management participates in these meetings and future business awards are at stake.

Training: AMD suppliers have access to information and training regarding conformance expectations through the EICC [learning and capability activities](#).

AMD Standards of Business Conduct: AMD's [Worldwide Standards of Business Conduct](#) establish mandatory rules and guidelines for AMD's employees. These standards are substantially equivalent to the EICC Code of Conduct and specifically prohibit forced and compulsory labor practices. These standards apply to all AMD employees. Every AMD employee has access to, and receives mandatory training on these standards. In the event an employee violates these standards, AMD will take immediate and appropriate action, which may include termination of employment.

Supplier Diversity

In 2012, AMD maintained a robust Supplier Diversity program for U.S.-based spending, focused on the following areas:

- > Measuring AMD spend with our registered U.S.-based minority, small business, women-owned, veteran and Hub zone suppliers.
- > Promoting small businesses and encouraging job growth in the United States by actively working within [Supplier Connection](#), an initiative to allow small businesses to more easily apply to become suppliers to large companies.
- > Participating as a member of the Southwest Minority Supplier Development Council, whose purpose is to be the minority business owner's direct link to larger corporations in the United States.
- > Deploying our sourcing process to ensure that small and minority-owned businesses are given full competitive consideration with other bids for U.S. purchasing.

Quality Management

An extension of AMD's customer-centric focus is the belief that customers should experience excellence when designing in, manufacturing with, or supporting systems that include AMD products.

The company uses a multidimensional and cross-functional approach to produce high-quality and highly reliable products. AMD's quality management system incorporates supplier quality control, stringent raw

material and manufacturing process control systems, and final testing to ensure operational consistency, efficiency and the ability to meet customer requirements. World Class Supplier, World Class Manufacturing, customer-quality and other quality processes drive continuous improvement in all aspects related to developing, manufacturing and supporting products.

In 2012, all AMD manufacturing sites were ISO 9001:2000 registered, and these registrations have been maintained over time. Certificates for AMD manufacturing locations are available [here](#).

CHAPTER VI: EDUCATION – AMD CHANGING THE GAME

At AMD, we seek to inspire generations of engineers to solve the world's most complex technological and global issues, and strong STEM (science, technology, engineering and math) skills are a key foundation for any engineering career. Investing in STEM education not only helps meet our demand for technically competent employees, but our signature STEM education initiative, *AMD Changing the Game*, also leverages our technology.

[AMD Changing the Game](#), funded by the AMD Foundation, fosters collaboration between schools, private industry, NGOs and other organizations to advance science, technology, engineering and math (STEM) education in new and innovative ways. *AMD Changing the Game* is now in seven regions around the world, including the United States, China, Malaysia, Canada, Europe, the United Arab Emirates and Brazil.

The program is designed to leverage young people's interest in gaming to inspire them to learn. Instead of playing games, this program teaches kids how to create their own video games. Through the process of creating a game, students learn problem solving, critical thinking, language skills and teamwork, in addition to STEM skills. This can play an important role in motivating students who may otherwise have difficulty learning to become excited about school; it can also help them discover a new passion and future career. In fact, the use of technology education for learning STEM skills, including game design, has been shown to increase interest of middle school girls and minority students in pursuing STEM-related careers.^{1,2}

The new NRC report, "[Successful K-12 STEM Education: Identifying Effective Approaches in Science, Technology, Engineering and Mathematics](#)," argues that STEM subjects are basic aspects of Americans' lives as citizens, consumers, parents and workers. Thus, providing today's students with access to high-quality STEM education is important to their future and the future of the country.

If this is true then students should be making every effort to improve their STEM learning, yet there just aren't enough students taking an interest in STEM. Perhaps this would change if they understood some of the real-world applications of STEM subjects.

By using age- and skill-appropriate tools, students in *AMD Changing the Game* programs learn the mechanics of game design and production, and are guided through the process of creating games. These are not the violent games that can worry parents; rather, the curricula focuses on developing games around important social issues such as energy conservation, healthcare and reducing poverty.

Educators agree that technology can be a powerful tool to improve learning. Research has also shown that high-tech environments can improve students' standardized test scores and decrease failure rates.³ Providing the technology that facilitates learning through game design is a critical part of *AMD Changing the Game*. Since its inception in 2008, AMD has funded 26 technology centers throughout the world

¹ Cathy Stacy. *National Science Foundation Grant: Project IT Girl*. 2008-2009 Annual Report (Year 3). Pg. 7.

² Globaloria East Austin College Prep Academy 2010 annual report.

³ Janell Drone. "Technocentric Leadership: Improving On-Time High School Graduation Rates for African American Students." Pg. 10. Online. Available: <http://www.ucea.org/storage/convention/convention2006/proceedings/DroneUCEA2006.pdf>. Accessed on August 15, 2011.

ranging from mobile labs for the *Girlstart To Go* program and the Pontifical Catholic University *Scalable Game Design* program, to technology centers for Boys & Girls Clubs of America and Canada, and middle schools in Austin, Texas, Beijing, China. During this same period, the AMD Foundation has awarded grants to fund more than 70 programs operated by 31 organizations around the world, for a total of \$ 7.1 million in support of the program. The grants have supported workshops, research, curriculum development and competitions for game design and development programs for youth.

In 2012, the AMD Foundation was named a Laureate of the International Data Group's (IDG) *Computerworld* Honors Program, for the Foundation's use of technology to promote and advance the STEM skills of youth around the world. The annual award program distinguishes organizations and companies that use technology to support and create positive social, economic and educational change. The AMD Foundation was selected based on its ability to provide a significant benefit to society through *AMD Changing the Game*.

Focus Areas

AMD Changing the Game is based on four major program elements to teach STEM skills:

Game Design—provides game design programs directly to students in AMD communities globally. These programs are focused on youth who may not ordinarily have access to technology and resources for pursuing STEM education. Game design activities funded since 2008 include:

- > Creation and implementation of the Game Tech program at 10 chapters of [Boys & Girls Clubs of America \(BGCA\)](#) across the United States and four chapters of [Boys and Girls Clubs of Canada](#)
- > Implementation of the [World Wide Workshop](#) Foundation's [Globaloria](#) game design program for [Southwest Key's](#) East Austin College Prep Academy, Texas, U.S.
- > [Schmahl Science Workshop's](#) program to develop a sustainable fishing video game to communicate the danger of overfishing to long-term human survival
- > Summer game design workshop in Abu Dhabi, UAE, with the Abu Dhabi Education Council
- > *Girlstart To Go* summer game design workshops in Washington, California, Colorado and Texas
- > Green Ribbon Schools after-school game design workshop and national game design competition
- > Summer camp and after-school program with the Austin Film Society and [the Austin Independent School District ACE Afterschool Program](#), Texas, U.S .
- > Summer and after-school game design workshops at Dandelion Middle School, Beijing, China, and RDFZ School in Beijing, China
- > Pontifical Catholic University Scalable Game Design program with three schools in Rio de Janeiro, Brazil
- > York University summer and after-school game design workshops in Toronto, Canada

- > Skillpoint Alliance Velocity Prep summer game design workshop and certification program at Connally High School, Texas, U.S.

Competition—demonstrates the innovative potential of today’s middle, high school and college students through participation in game design competitions. Activities have included:

- > Co-sponsored the 2011, 2012 and 2013 [National STEM Video Game Challenge](#), a multiyear video game design competition inspired by the Educate to Innovate Campaign, U.S. President Obama’s initiative to promote a renewed focus on STEM education. The 2012 Challenge launched in partnership with Digital Promise, a new initiative created by the President and Congress and supported through the Department of Education. The competition engaged middle school, high school, college and graduate level students and educators by challenging them to design original video games. Prize packages include funds for the winner’s school, AMD technology-based laptops and gaming subscriptions.
- > Funded the [Alliance for Young Artists & Writers](#) video game design category for the 2010, 2011, 2012 and 2013 Scholastic Art & Writing Awards.
- > Funded the Green Ribbon Schools [Heathivores](#) Video Game Design Contest in the United States, a nationwide multiyear competition where students design video games around nutrition, exercise and healthy eating.
- > Funded [Gamestar Mechanic](#) AMD Challenge competitions.
- > Funded the Game Design category of the Boys & Girls Clubs Digital Arts Festival.

Curricula—accelerating the broad-based deployment of game design education through free online tools, lessons and tutorials. Activities funded since 2008 have included:

- > The development of [Green Ribbon Schools](#) online game design curriculum targeting the subject areas of fitness and nutrition, math, science and technology
- > The development and subsequent upgrade of PETLab’s *Activate!* game design website and curriculum, available in both English and Mandarin.
- > Development of the AMD Gamezone in Whyville, a learning-based online virtual world.

Advocacy—encouraging the adoption of game design as a tool for STEM education by policy makers and educators.

- > Co-sponsored the Atlantic: Technologies in Education Forum in 2011 and 2012 in the United States, which brought together more than 250 high-level education policymakers, industry leaders, and technology experts. Sessions focused on emerging policies and cutting-edge technologies available to educators, particularly those teaching science and math.
- > In support of the [Educate to Innovate](#) campaign, in the United States in 2011 and 2012, AMD participated in [Change the Equation](#), a collaborative effort of industry leaders, the White House, state legislatures, education organizations and foundations dedicated to advancing STEM skills and STEM teaching at all grade levels through public-private collaboration. AMD chaired the *Game On* committee, comprised of industry partners and was tasked to identify

ways to successfully integrate game design into youth STEM education curricula. The committee also addresses state standards and assessments, technology innovation, key national business/education partnerships and the emerging use of game-based learning.

- > In support of the [National STEM Video Game Challenge](#), AMD and other sponsors reached out to tens of thousands of teachers, parents and students through workshops, newsletters, social media and webinars to provide information on the game design competition and the potential of game-based learning.
- > AMD co-sponsored the [Games for Change Festival](#) in the United States from 2008 through 2012, and sponsored the 2011 and 2012 Games for Change Festival in Latin America. This included a series of hands-on professional development workshops to introduce educators to game design programs, game-making tools and curricula for use in the classroom or afterschool programs.
- > AMD co-sponsored the [SXSWedu](#) Conference in 2011 and 2012 in the United States, which supports innovations in learning using 21st Century content delivery and best practices for education professionals. This included a series of hands-on professional development workshops to introduce educators to game design programs, game-making tools and curricula for use in the classroom or after-school programs.
- > AMD collaborated with [Microsoft](#) and the Educational Research group at the [Wisconsin Institutes for Discovery](#) at the University of Wisconsin-Madison to create the curriculum and tools to make the video game design program [Microsoft Kodu](#) more accessible in K-12 classrooms. Academic research is also being conducted to understand if the curriculum improves computational thinking and game design skills and development of skills in traditional areas such as math, science and writing.

Program Goals and Measures

In June 2008, *AMD Changing the Game* launched this innovative educational program with 80 students in the United States. By 2012, the program had reached more than 213,000 youth in seven countries. This growth is a result of the work of our partners and the growing realization that technology and gaming play important roles in revitalizing the STEM curriculum and learning experiences in today’s schools.

For more information on *AMD Changing the Game*, please visit our [website](#).

	2008	2009	2010	2011	2012	Cumulative Total
Youth Reached	80	65	22,353	52,140	139,280	213,918
Teachers Reached.....	5	7	1,797	2,583	3,354	7,746
Games Created	70	13	1,890	5,617	22,603	29,949
Contest Submissions.....	0	12	1,483	1,546	7,382	10,423
Technology Centers.....	0	2	9	10	5	26
AMD Employee Volunteers	12	2	36	25	25	100
Partners	4	7	7	8	5	31
AMD Foundation Donations*	\$330,000	\$350,000	\$1,337,407	\$1,846,459	\$1,695,442	\$5,559,308

* Does not include AMD, Inc. funding for technology centers

Table 3: Results – Overall Metrics for *AMD Changing the Game*

University Relations and Student Experience

AMD's global university relations programs aim to stimulate and develop students' interest in semiconductor design technology and supporting functions. We attract high-achieving and motivated students from top colleges and universities worldwide through on-campus recruiting and relationships within the academic community. We also support numerous university programs through contributions, student group support, design contests and donations of AMD technology, all of which totaled over \$1.2 million USD in 2012.

Additionally, AMD employees serve as adjunct faculty, guest lecturers, and board and advisory committee members to help bring real-world experiences to the classroom. AMD also serves on the board of Net Impact, an organization made up of next generation leaders who will tackle the world's toughest problems throughout their careers. AMD supports the mission of this organization and has actively recruited employees from among its members.

Diversity is a cornerstone of the AMD culture and an important aspect of our recruiting program. We have well-established relationships with the Society of Women Engineers, the Society of Hispanic Professional Engineers and the National Society of Black Engineers. The AMD Student Experience is a robust university student development program focused on the knowledge and skills that engineers need early in their careers. The program concentrates on building professional skills, networking, teamwork and community involvement for students in North America, with plans to expand globally in the near future. Once students are part of the AMD team, we are committed to continuing their education while they gain valuable professional experience.

AMD launched the Master of Business Administration (MBA) Summer Internship program Internship and the MBA Leadership Development Program (LDP) in 2011, and the programs continued in 2012. As part of the intense, 10-week long internship program, students were asked to participate in development opportunities in addition to their assigned high-impact projects. In the two-year rotational LDP program, interns alternated through three functional groups, gaining a broad understanding of AMD and the semiconductor industry. Both of these programs exposed MBA students and recent graduates through the rigors of development assessments, group assignments, community service, team building and executive forums.

CHAPTER VII: ENVIRONMENT

AMD has established a long record of environmental responsibility and transparency, setting ambitious environmental goals and publicly reporting our progress through key performance indicators. We have a robust management system in place to manage risks to the environment from our business operations and supply chain, and we engage employees worldwide to take an active role in our conservation efforts.

AMD's environmental and risk management programs include the following:

- > Operations and Metrics
- > Global Environmental Goals and Performance
- > Environmental Management Systems
- > Risk and Opportunities Related to Climate Change
- > Employee Engagement

Operations and Metrics

For reporting purposes, we categorize our facilities into two groups – “manufacturing,” which consists of two Assembly, Test, Mark and Pack (ATMP) facilities in Asia and the remaining “non-manufacturing” sites. AMD utilizes a variety of performance indicators to measure site and global environmental performance for our ATMP sites including energy use, water consumption, waste generation and GHG emissions. Environmental performance indicators for our global operations are housed in a centralized database to effectively manage our environmental data, disclose our sustainability performance and identify improvement opportunities toward our goals.

ATMP Manufacturing Sites

In 2012, test and assembly operations at the AMD Singapore manufacturing facility were discontinued and the facility transitioned to engineering and research and development (R&D) functions. AMD continues to own and operate two manufacturing facilities that perform a combination of ATMP services; one in Penang, Malaysia, and the other in Suzhou, China. The Suzhou site continued to expand assembly operations that began in early 2012 and the Penang site continued integration of additional test equipment and operations.

Non-Manufacturing Sites

AMD designs, supports and promotes microprocessor and graphics products at numerous design, engineering, sales, administrative offices and data centers worldwide. We collect and report energy and water use along with waste generated for our three major non-manufacturing sites located in Austin, Texas; Markham, Ontario; and Sunnyvale, Calif. We also report data collectively for 11 additional global facility locations including Bangalore and Hyderabad, India; Shanghai, China; Cyberjaya, Malaysia; the United States and others.

Global Environmental Goals and Performance

AMD’s environmental goals reflect our business model as a semiconductor design and marketing company, and account for the functional differences between our manufacturing and non-manufacturing sites worldwide. Environmental goals are aligned to areas where AMD operations have the most impact: water use reduction, GHG emissions reduction and waste diversion. Goals are measured separately for ATMP and non-manufacturing sites, and are based on five-year timeframes. Environmental goals and performance through 2012 are shown in Table 1.

ATMP Normalized Goals Reset

In 2013, AMD reset the two environmental goals focused on our manufacturing facilities. This reset was largely prompted by the inaccuracy of our normalizing factor (the production index or PI) in assessing environmental performance. AMD had calculated PI as cycle time in the factory multiplied by number of units processed. However, based on years of data analysis at AMD ATMP sites, we found there is not a good correlation between resource use and the PI. The lack of correlation may be due to AMD’s increased product complexity and manufacturing variability, which are not adequately accounted for in the PI.

We are announcing two new environmental goals for our ATMP manufacturing site for water consumption and GHG emissions. Rather than normalize the goals to production, they are based on actual water use and GHG emissions to more accurately reflect the success of conservation efforts. The new goals are shown in Table 1.

GOAL AREA	GOAL	SCOPE & MEASURE	2012 STATUS
GHG Emissions	5% reduction	Non-Manufacturing: Absolute reduction (2009-2014)	Ahead of target (5.3% reduction)
	10% avoidance*	Manufacturing (new): Project based reductions (2012-2017)	Reporting begins in 2013
Water Use	20% reduction	Non-Manufacturing: Normalized by employee count (2009-2014)	On-track (25.7% reduction per employee)
	10% avoidance*	Manufacturing (new): Project based reductions (2012-2017)	Reporting begins in 2013
Waste (Non-hazardous)	70% diversion	Percentage of waste kept out of the landfill (2009-2014)	On-track (64% waste diversion)

Table 4: Environmental Goals and Performance

* Avoidance is calculated as “total project reductions” divided by “total projected use”. “Total projected use” is the amount of water use or GHG emissions that would have occurred had no projects been implemented.

Note: Singapore site data is not included in goal calculations for 2012. This data is reported in the [Environmental Data Tables](#) and will be included in new non-manufacturing goals that will be established in 2014.

Climate Goal and Performance

Goal—AMD’s reduction target for our non-manufacturing sites is an “absolute” emission reduction – meaning a commitment to reduce regardless of the expected growth of these facilities. Our new manufacturing goal (2012-2017) – to avoid 10 percent of GHG emissions in 2017 through conservation efforts – focuses on measuring project results and therefore more accurately gauging the sites’ conservation performance. Performance against this goal will be reported starting in 2013.

Strategy—AMD’s strategy for climate protection is to directly reduce our carbon footprint through site conservation projects and efficiency improvements as our first priority. As part of this effort in 2012, individual sites identified and implemented numerous conservation projects and initiatives such as optimizing and replacing chillers and boilers, using more efficient lighting technologies and schedules, and powering down equipment when not utilized.

In the United States, AMD continued to purchase 100 percent renewable energy (wind) to power our Lone Star campus in Austin, TX as we have done since the facility became operational in 2007. The Fort Collins, Colo. site and AMD’s new data center near Atlanta, Ga. were also powered exclusively by 100 percent renewable wind energy in 2012.

Performance— From 2009 to 2012, AMD achieved a 13 percent reduction in absolute energy use since 2009. Our non-manufacturing sites goal achieved a 5 percent absolute reduction in GHG emissions compared to the 2009 baseline as a result of conservation efforts and purchasing a cleaner mix of electricity generating sources from utility providers in some regions, i.e., greater percentage of electricity generated from cleaner and renewable energy sources.

The new manufacturing GHG emission reduction goal – to avoid 10 percent of projected emissions in 2017 – aims to better align conservation efforts with our manufacturing operations. The prior measurement method did a poor job of demonstrating environmental performance. For example, although normalized emissions increased in 2012, conservation efforts at our ATMP facilities resulted in more than 5,500 metric tons of CO₂e avoided, and ATMP energy use decreased by 33 percent.

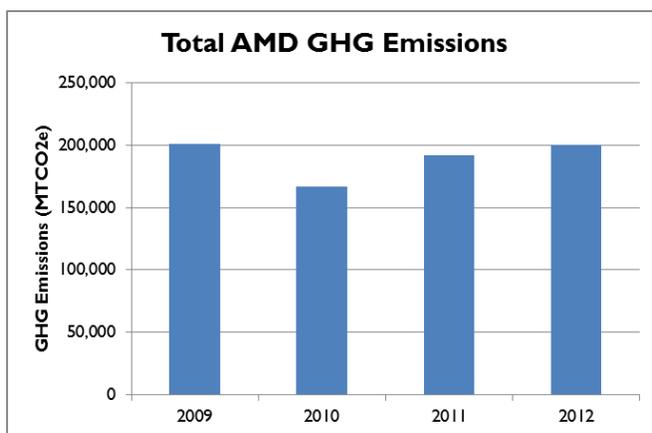


Figure 1: Total Greenhouse Gas Emissions (metric tons carbon dioxide equivalents)

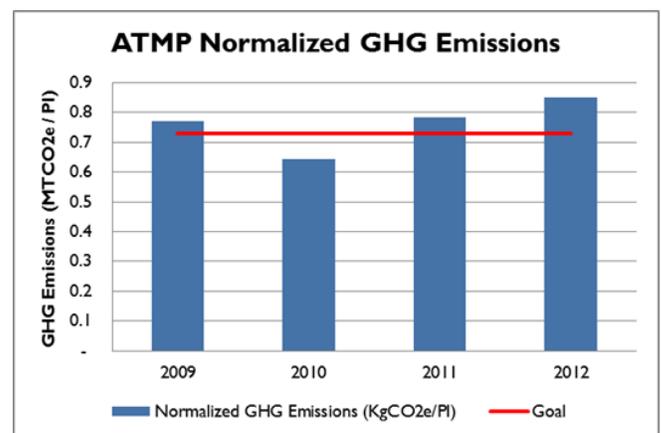
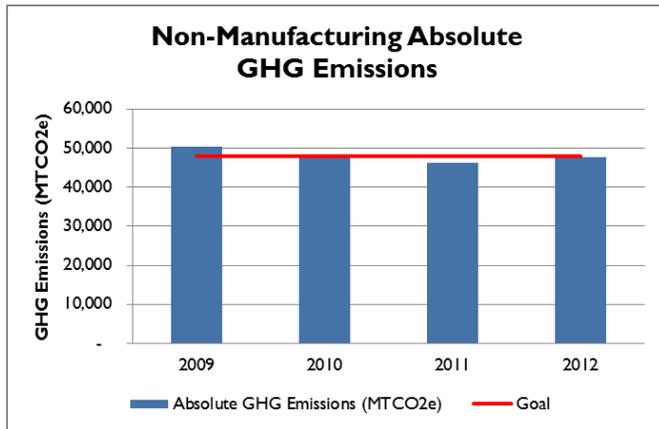


Figure 2: ATMP Normalized Greenhouse Gas Emissions (metric tons carbon dioxide equivalents)

For details on energy conservation projects, please see [AMD Site Reports](#).



In 2012, AMD achieved 5.3% reduction in GHG emissions at our non-manufacturing sites since 2009, which was on track with our goal – see Table 4.

Figure 3: Non-manufacturing Greenhouse Gas Emissions (metric tons carbon dioxide equivalents)

Water Goal and Performance

Goal—AMD’s goal is to reduce water usage by 20 percent or more by 2014 (from a 2009 baseline). Water use at non-manufacturing sites is normalized to the number of employees and manufacturing sites to their PI. The new manufacturing goal (2012-2017) – to avoid 10 percent of water use in 2017 through conservation efforts – focuses on measuring project results and therefore more accurately gauges the sites’ conservation performance.

Strategy—AMD achieves water use reduction by identifying and evaluating water conservation and recycling opportunities for building and manufacturing operations, such as installing low-flow fixtures, collecting rainwater for irrigation and using native plants that require less water.

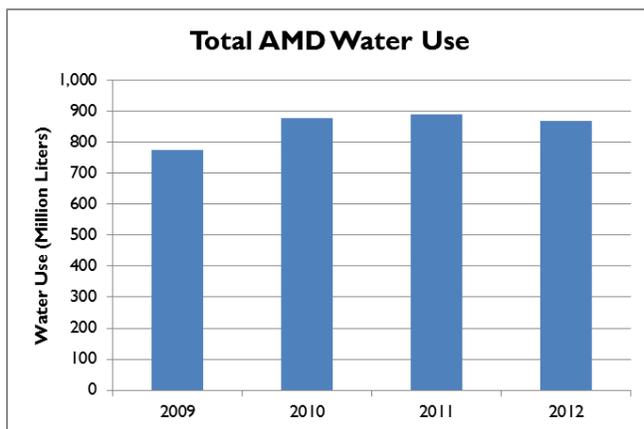


Figure 4: Total Water Use (million liters)

Performance—Total AMD water use decreased slightly in 2012. Non-manufacturing sites ended 2012 ahead of the five-year goal, successfully reducing water use by 26 percent per employee since 2009. Our Lone Star campus in Austin, Texas, again did not use ANY municipal water to irrigate landscaping during the year. The 100 percent native vegetation was minimally watered using 4.6 million liters of captured rainwater and condensate from our cooling systems. An additional 24.5 million liters of captured rainwater was used for operation of the site’s cooling towers.

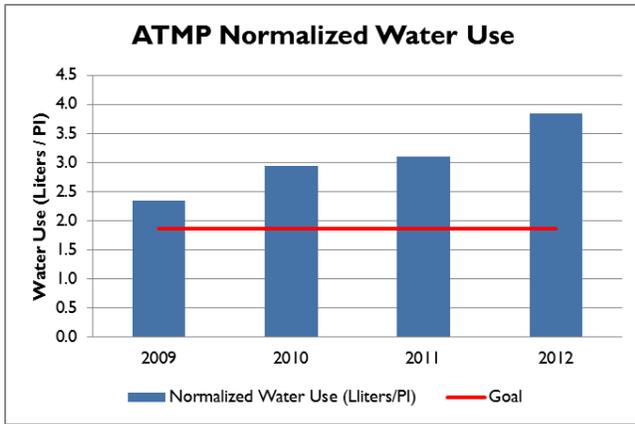


Figure 5: ATMP Normalized Water Use (liters/production index)

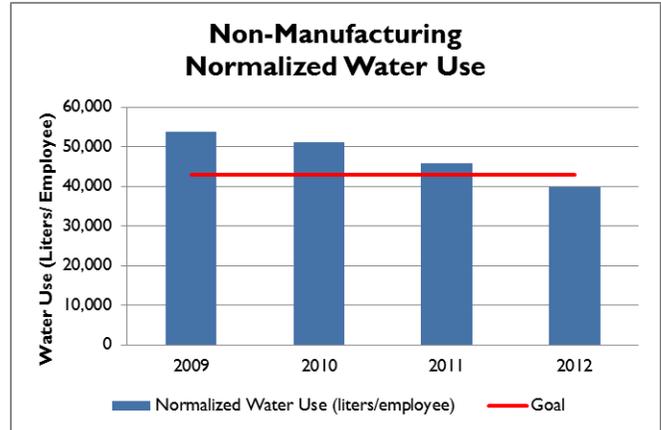


Figure 6: Non-manufacturing Normalized Water Use (liters/employee)

Our new water conservation goal for AMD manufacturing sites is 10% avoidance through water conservation projects by 2017. This new metric is a better measure of our actual performance. For example, AMD’s overall water usage declined by 22 million liters from 2011 to 2012 – see [Environmental Data Tables](#).

We are exceeding our water conservation goal for non-manufacturing sites. As of 2012, water use per employee decreased by 25.7% at non-manufacturing sites, largely due to continued conservation efforts, consolidating operations into the more water efficient Lone Star facility, and reducing landscape irrigation at other sites.

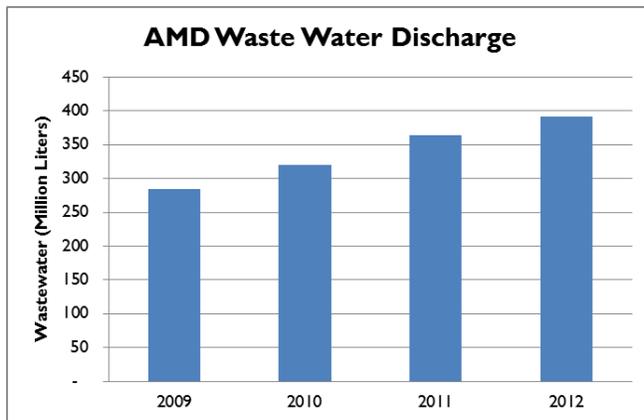


Figure 7: Wastewater Discharged (million liters)

Wastewater discharge at AMD is measured only for sites with wastewater discharge permits. The amount of wastewater discharged increased by 38% from 2009 to 2012, largely because of a process change in our Penang, Malaysia facility and increased water use at the new Suzhou, China assembly facility. Our Austin, Texas site received a pretreatment award in Feb 2013 for effective wastewater management and pollution prevention.

Non-Hazardous Waste Goal and Performance

Goal—AMD’s 2014 non-hazardous waste goal is to divert 70 percent of trash from landfills.

Strategy—AMD’s approach to diverting waste from the landfill is to increase food waste composting, improve recycle programs and expand material reclamation efforts. We are also improving methods of solid waste collection and tracking, and raising employee awareness of reuse, recycling and reduction strategies. In addition to these initiatives, we examine purchased goods for possible “upstream” reduction opportunities such as increasing recyclable content, reducing volume and minimizing packaging material.

Performance—AMD is on track to achieve its 2014 waste diversion goal. The global waste diversion rate has continuously increased: in 2009, it was 40 percent, increasing to 51 percent in 2010, 57 percent in 2011, and in 2012, we have achieved 64 percent overall waste diversion rate. The improvement in 2012 was, in part, due to expanded organic waste composting in Austin, Markham and Sunnyvale. In addition to improved waste diversion, AMD reduced the amount of waste generated by 11 percent from 2009-2012. For details on waste reduction projects, please see [AMD Site Reports](#).

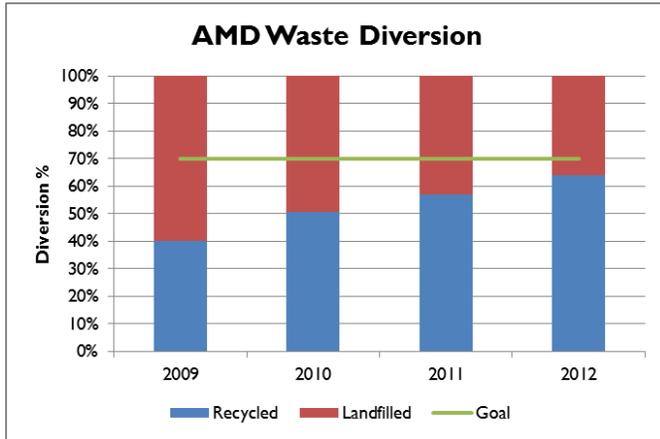


Figure 8: AMD Total Waste Diversion (%)

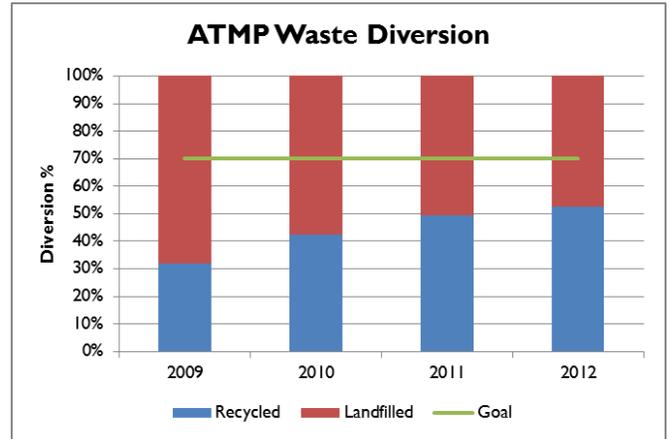


Figure 9: ATMP Waste Diversion (%)

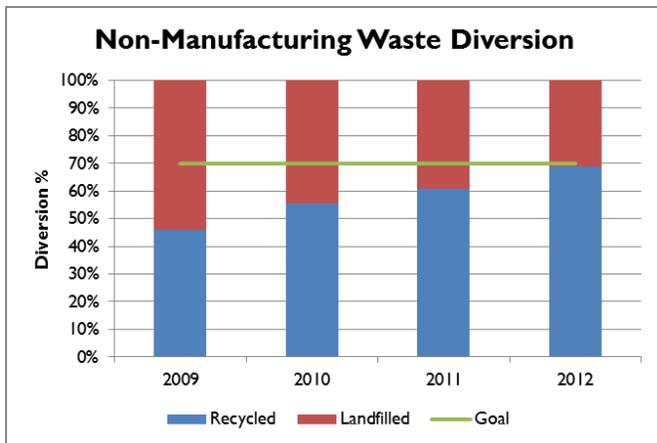


Figure 10: Non-manufacturing Waste Diversion (%)

AMD's goal is to divert 70% of trash from landfills by 2014. At our ATMP facilities, waste diversion has increased from 32% in 2009 to 52% in 2012. Recycle rates at our non-manufacturing sites have increased from 46% in 2009 to 69% in 2012, partially due to organic waste composting and data tracking improvements.

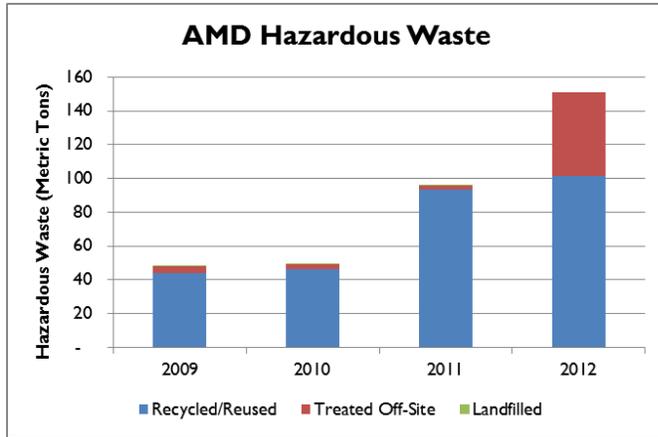


Figure 11: Total Hazardous Waste Generated (metric tons)

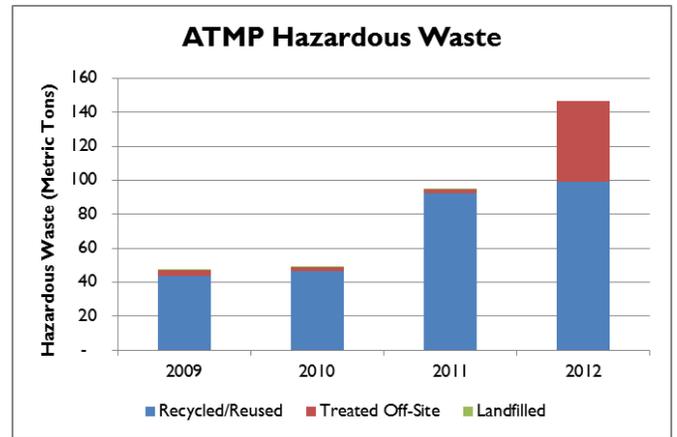


Figure 12: ATMP Hazardous Waste Generated (metric tons)



Figure 13: Non-manufacturing Hazardous Waste Generated (metric tons)

AMD's ATMP and research and development facilities generate small quantities of hazardous waste. Our total hazardous waste generation increased from 48 metric tons in 2009 to 151 metric tons in 2012. This was mainly due to the reclassification of scrap product sent off-site for precious metal reclaim as hazardous waste and increased assembly operations at our Suzhou, China site. Only a very small amount of hazardous waste is generated at our non-manufacturing facilities. We ensure that all hazardous waste is managed responsibly and 68% of this waste is recycled.

Addressing "Other Indirect" Emissions

AMD recognizes there are other indirect environmental impacts associated with conducting our business operations. The following summarizes the indirect emissions that we currently track:

- > Employee Commuting— AMD's employee commute program, Go Green, encourages employees to reduce their environmental impacts due to commuting by using alternative transport such as buses, rail or bikes, car-pooling and telecommuting. AMD estimates commuter emissions from our six largest facilities; 2012 levels were 19 percent lower than 2011 and 41 percent lower than 2009.
- > Business Travel—AMD had a 22 percent decrease in business travel emissions from 2011 to 2012.

- > Product Shipping (not including outsourced product shipments)—Emissions associated with AMD’s product shipping decreased by 20 percent from 2011 to 2012, and 49 percent since 2009, mainly due to a decrease in packaging size and number of units, as well as lighter plastic pallets. See the [Product Packaging](#) section of this report for more information.
- > Supply Chain—AMD collects data on GHG emissions resulting from the manufacture of AMD products by our suppliers. With the changes to our business operations in 2009, supply chain coordination on environmental issues has become more important. Therefore, we began holding regular meetings in 2010 with our wafer foundry suppliers to coordinate and evaluate environmental goals and performance. In 2012, we started scoring our foundry suppliers’ environmental performance, as part of Quarterly Business Reviews. For more information refer to the [Supplier Responsibility](#) section of this report.

Environmental, Health and Safety Management Systems

AMD has established Global Environmental, Health and Safety (EHS) Standards that we apply to our sites worldwide. These performance-based standards establish best-in-class practices to help protect human health and the environment, and include the following environmental standards:

- > Legal Compliance
- > EHS Due Diligence for Real Property and Business Transactions
- > Project Design and Review
- > Pollution Prevention and Resource Conservation
- > Global Climate Protection
- > Waste Management

To ensure we consistently meet these rigorous standards, we utilize robust environmental management systems. The environmental management systems at all AMD owned and operated manufacturing facilities are certified to the International Standards Organization’s 14001 standard (ISO 14001). View our certificates on our [website](#).

Periodic assessments are conducted to determine the conformance of our manufacturing operations to our global standards. These assessments are often done in conjunction with periodic EHS regulatory compliance audits. Corrective actions identified during any EHS standards assessment or EHS regulatory compliance audit are expeditiously managed and tracked to closure.

Employees and the Environment

Our award-winning, global employee conservation program, *Go Green*, aims to engage and inspire AMD employees to reduce environmental impacts and improve their quality of life through a lifestyle approach to sustainability. Employee registration has increased by 75 percent since 2009, and includes 1,669 participants around the globe in 2012. AMD’s *Go Green* program targets three areas where employees potentially impact the environment: at home, during their commute to and from work, and in the workplace. In 2012, we held our second annual “Global Employee ECO Awards” to recognize those employees who embody environmental excellence in these areas.

Home

The *Go Green Bi-Weekly* newsletter highlights one aspect of personal sustainability per edition and explores this issue for our employees by incorporating prompting questions, intriguing facts, links to informative articles, calls-to-action, insightful quotes and even jokes. The communication was rated in the “2012 Go Green Satisfaction Survey” as the most popular aspect of the program. To help participants reduce environmental impacts and save money, more than 100 “eco-prizes” were awarded including reusable water bottles, grocery bags, water conservation kits and gift cards to fund conservation or social projects.

Commute

AMD encourages employees to use alternative transportation when commuting to and from work. Several tools and incentives facilitate this, such as the web-based GreenRide® software program to help participants quickly search for ride-matches, bike routes and bike buddies, and public transit options, as well as log drives avoided and enter monthly drawings. Other incentives include preferred parking, bike shop discounts, public transit pre-tax benefits (United States only) and electric vehicle charging stations at selected sites.

In 2012, participants avoided over 1.3 million km of driving (43 percent higher than 2011), which prevented 330 metric tons of CO₂ emissions, conserved 140,000 liters of fuel and saved \$175,000. Since the program began in 2007, more than 6.5 million km of driving have been avoided along with 1,616 metric tons of CO₂ emissions, which is about as much CO₂ sequestered by 41,000 tree saplings over 10 years. Additionally, usage of AMD electric vehicle charging stations in Austin, Texas and Sunnyvale, Calif. helped avoid nearly 30,000 kg of greenhouse gas emissions.

Work

At work, Go Green participants learn what AMD is doing as a company to advance sustainability, and what they can do as individuals. In 2012, AMD continued supporting the formation and development of employee-led Green Teams, now at 12 sites worldwide. The teams implemented projects such as lunch-and-learns, single-use cup reduction campaigns, lighting audits and trash cleanups in the community. One outcome AMD’s Green Teams delivered in 2012 was the largest and most coordinated “Earth Week” at AMD to date, with a dozen facilities holding onsite events to engage and educate employees about the environment.

Risks and Opportunities Related to Climate Change

For more than a decade, AMD has publicly acknowledged that climate change presents a range of complex risks to the global community. Due to these risks, we actively manage our operational climate impacts through renewable energy use and energy conservation.

Although not currently believed a material risk, AMD and our suppliers are assessing and preparing for climate change-related risks. Our employees and operations could be exposed to physical risks from extreme weather events such as flooding or extreme heat and cold. We have addressed these risks by requiring each site to develop site-specific business continuity management programs to evaluate the potential for these events and develop procedures to mitigate the risk. Extreme weather could also

affect the availability of raw materials used by our wafer foundry operations and direct material suppliers. Although these risks are outside of our direct operational control, AMD tracks these risks and collaborates with our supplier partners to mitigate.

Opportunities

AMD's technology powers some of the world's most powerful supercomputers. Some of these computers enable researchers to predict changes due to climate change. This research could lead to more accurate forecasting tools that would facilitate adaptation strategies for the effects of climate change. For more information, please see the [AMD Technology: Enabling A Better World](#) section in this report.

In addition to powering climate research, AMD technology can help make the world more energy efficient. Not only are our new products more energy efficient, ICT-enabled solutions offer the potential to reduce GHG emissions by 16.5 percent, create 29.5 million jobs and yield \$1.9 trillion USD in savings – according to the [SMARTer 2020 study](#). AMD participates in an educational initiative called the [Digital Energy Solutions Campaign](#) to help realize this potential.

CHAPTER VIII: AMD EMPLOYEES

At AMD, our goal is to be an employer of choice with a workforce full of passionate, innovative and fully engaged employees. Paramount to achieving this goal is a strong culture permeating all aspects of our business. We call this culture The AMD Way. It is built on three core beliefs:

- > Ownership and commitment: We do what we say and we own what we do.
- > Customer focus: When our customers win, we win.
- > Innovation leadership: We chart and pave our own path to success.

These core beliefs come alive with four specific actions that define The AMD Way:

- > Achievement – plan and play to win in all we do, every time ... every day matters.
- > Accountability – build trust by honoring our commitments.
- > Alignment – work as one AMD to debate, decide, embrace and execute.
- > Agility – continuously learn and improve in all aspects of our business.

These beliefs and actions are expectations for each employee every day. By living The AMD Way, by embracing diversity and inclusion, and by encouraging a healthy balance of work and family life, the AMD work environment is an innovation engine in which people feel empowered to collaborate, think, act and solve problems in new and different ways.

We support our employees with competitive benefits including excellent compensation, health care, employee assistance programs and more. This investment in our employees and their career development is not only the right thing to do; it is the smart thing to do.

The sections included below describe the programs that support our employees:

- > Global Inclusion
- > Equal Opportunity Employment
- > Talent Management
- > Compensation and Benefits
- > Employee Performance Management
- > Employee Education and Training
- > Human Rights

Reset and Restructure

In 2012, a worldwide shift in the PC market and other factors impacted AMD's business. As a result, we announced a restructuring plan to lower our expenses, reduce organizational complexity, strengthen our competitive positioning and target a return to profitability in the second half of 2013. These actions will help AMD continue delivering industry-leading products in a changing market. Part of our restructuring efforts included a reduction in our global workforce.

We will never get accustomed to seeing valued co-workers leave the company – nor should we want to. But in late 2012 and early 2013, we had to take the tough but necessary step of reducing our operating expenses to help return AMD to profitability.

AMD offered eligible employees severance packages in line with industry standards and regional employment regulations, and made every reasonable effort to reduce the hardships on impacted employees, such as providing continued health care coverage for a prescribed period of time (depending on regional practices) and career transition services.

Global Inclusion

Innovation is at AMD's core, and occurs when creative minds and diverse perspectives are drawn from all over the world. Diverse teams, when managed in a culture of inclusion, are more creative, more productive, better at problem solving, and ultimately more profitable. AMD hires people from diverse backgrounds and geographies and with diverse beliefs, and promotes an inclusive environment that values their individual differences. This is all part of Innovation Leadership, one of the core tenets of AMD's culture – The AMD Way – and we accomplish this by fully integrating diversity and inclusion into our talent management and culture initiatives.

In 2012, AMD launched two peer networks comprised of cross-functional and cross-geographical teams of senior managers and directors. Their focus is to mobilize and shape the organizational diversity and inclusion agenda through education, roundtable dialogues and feedback to AMD's executive team. These network groups are being expanded in 2013 along with a focus on employee retention and attraction, increasing gender balance and measurement. Flagship programs include:

- > Executive Mentoring Program for top and emerging Women Leaders
- > Sales & Marketing Women Talent Forum
- > Diversity and Inclusion e-Learning
- > AMD executive team sponsored plan to increase gender diversity at all levels
- > Employee survey measurement of impact of diversity and inclusion practices

Equal Opportunity Employment

In compliance with applicable laws and regulations, AMD employee policies, processes and decisions are developed and implemented to promote equal opportunity without regard to age, ancestry, color, marital status, medical condition, mental or physical disability, national origin, race, religion, political and/or third-party affiliation, gender, sexual orientation, gender identity or veteran status. We have a robust process to fully investigate and address all complaints regarding workplace discrimination, and offer employees a variety of communication channels (including the AMD Alertline, a toll-free, 24-hour hotline that accepts anonymous reports).

Talent Management

AMD's talent management activities support the complex and dynamic nature of our business, but our goal is simple: deliver our strategy by having the right talent in place now and in the future. Throughout

the year, our CEO and senior executives hold cross-functional discussions about our top talent and the leadership and technology skills our business requires. When skill gaps are identified, we turn first toward developing our top talent because we know that building their skills ensures our future.

Professional growth increases the likelihood that our top performers will stay at AMD, and when they continuously build their breadth and depth of knowledge, AMD becomes more productive and innovative. When we cannot fill a skill gap internally, we recruit employees with varied experiences and backgrounds who add new perspectives to existing teams. Whenever possible, we hire local talent. We continuously track and prioritize our progress based on evolving business needs.

Compensation and Benefits

The nature of the semiconductor industry requires the company to maintain a talent pipeline by attracting and retaining a well-trained, highly-skilled and highly educated workforce. To remain competitive, we constantly monitor the wage structure of the semiconductor and related technology industries at operating locations. AMD is committed to paying competitive wages and providing benefits that help foster financial security for employees. Employee compensation is established in accordance with local laws, and often adjusted for talent in high demand.

Eligible employees worldwide share in the company's success through a range of compensation programs. Global compensation programs include equity and bonus plans. AMD also promotes a learning environment through educational programs such as tuition assistance and employee and management development classes.

The company's competitive portfolio of employee benefits includes country-specific program offerings, such as comprehensive coverage for health and dental care; retirement savings programs in which investments are directed by the employee and partially matched by the company; holiday and vacation time; life and disability insurance; and a variety of work/life balance programs including family care leave and alternative work plans. Our employees also benefit from various types of employee assistance programs to help resolve personal and professional issues. These employee benefits programs meet and often exceed the benefits required by applicable laws and regulations.

Employee Pay-for-Performance

AMD's pay-for-performance process creates a work environment that encourages, recognizes and supports high-performing individuals and teams. Under our pay-for-performance philosophy and guiding principles, we not only reward those team members who demonstrate the highest level of contribution to the company, we also reward those who continually improve their capabilities. This ensures that rewards are differentiated based on the impact the employee's performance has on the company as well as how they get their work done.

Our managers and employees are trained on the processes and skills needed to achieve the optimal performance as individuals and within teams. In-person instruction is augmented by webcasts and recorded training to maximize reach to all employees. In addition to formal instruction, AMD managers are expected to meet with each of their employees and review a more tailored set of performance developing skills. To facilitate these conversations, we equip managers with a topic-specific "meeting-in-

a-box,” which is comprised of background information, slides they can use with their employees, frequently asked questions (FAQs) and other job aids.

We begin the pay-for-performance process by clearly defining what success looks like through our goal-setting process. AMD goals are cascaded down from the CEO through the layers of the organization so each employee’s goals are aligned with the company’s strategy. Our employees establish their own goals that are supportive of the company’s strategy as well as goals for their personal development. Managers then provide candid feedback to employees on their goals and ongoing feedback on their performance, with formal reviews scheduled twice per year, one at mid-year and another at year-end.

Our process provides clear expectations, continuous feedback and a focus on employee development. In 2012, 99 percent of AMD employees (98.5 percent of female employees and 99.5 percent of male employees) received performance reviews. These reviews included an open, two-way performance and career development discussion between the employees and their managers.

Employee Education and Training

Providing opportunities for personal and professional development enhances our workforce as well as the company’s appeal in the competition for experienced workers and retention of valuable employees. The AMD Competency Model, centered on the enduring AMD values, is the foundation for our training and development programs. This model matches business roles with needed competencies and behaviors for all levels of the employee population.

AMD provides a wide array of technical, management and leadership training programs. In addition to traditional instruction methods, employees have access to a variety of e-learning opportunities through internally and externally developed courses and other online resources, including:

- > [Skillsoft®](#)—the largest e-learning vendor in the world, offering thousands of business skills and IT e-learning courses.
- > [Harvard Business School Publishing®](#)—offering online leadership and management training. We offer employees access to Harvard’s flagship product, known as Harvard ManageMentor (HMM) as well as their www.hbr.org site. Employees can also access a growing library of thousands of book summaries from [get Abstract](#) through a customized Harvard portal.
- > [GlobeSmart®](#)—a web-based tool that provides easy access to an extensive knowledge base on how to conduct business effectively with people from other countries and cultures.
- > [Safari](#)—the largest provider of online technical and engineering books from all [the premier publishers of technical content](#), including O’Reilly Press, Wiley and Sons, Addison Wesley, Microsoft, Adobe Press, IBM Press, Microsoft Press, McGraw Hill and many more.
- > [Global English](#)—a leading provider of English language skills from assessments to e-learning courses to LIVE mentoring.
- > [MindShare](#)—an independent provider of technical training that focuses on the semiconductor industry. MindShare offers traditional classes, e-learning and virtual learning classes.

- > [Microsoft e-Learning](#)—offers online courses on Microsoft applications (e.g., Word, Excel, PowerPoint, Access, SharePoint), operating systems (Windows Vista, XP), servers (Windows, Exchange, SQL) and more.

We also provide a variety of programs for employee enrichment and development including those listed below. Since 2001, more than 2,500 employees have participated in at least one of the programs.

- > Executive Assessment—to determine knowledge and skills development needed for vice presidents and above.
- > Executive Coaching—to build on strengths and address development needs and specific organizational issues.
- > Mentoring—to enhance the development of new or less-experienced employees.
- > New Employee Development—to educate new employees about legal, safety and environmental policies, and company products and markets.
- > Management/leadership development— provided through the following programs and processes:
 - Supervisors Leadership Experience (SLE)—to help AMD supervisors and senior exempt professionals who have recently moved into supervisory roles increase their effectiveness as leaders.
 - License to Lead (L2L)—to help managers with less than three years direct people management experience build their leadership capability.
 - Managers Leadership Experience (MLE)—to enhance the leadership capabilities of experienced managers with at least three years management experience.
 - Senior Manager Experience (SME) — to enhance the leadership capabilities of top talent senior managers.
 - Directors Leadership Experience (DLE)—to enhance the leadership skills and business acumen of all directors at AMD.
 - Technical Staff Experience (TSE)—to help AMD technical professionals increase their effectiveness as technical leaders, and provide the core skills necessary for their position.
 - Technical Leadership Experience (TLE)— to enhance the leadership capabilities of the Principal Member of Technical Staff and Fellow population by focusing on key outcomes expected of technical leaders at AMD.
 - Situational Leadership—to help leaders maximize team performance by adapting their leadership style to the capability of the individual or group they are attempting to lead/influence.
 - Corporate Athlete—to help leaders learn how to maximize performance and increase productivity in all aspects of energy management. This course is offered as a “stand-alone” and as part of the MLE, DLE, TSE, and TLE programs.

- Presentation Skills—to improve communication and presentation skills by applying the AMD model (Audience, Message and Delivery) to any group communication.
 - Leading Effective Meetings—to help leaders plan and prepare for a productive meeting and lead more effective meetings to increase individual and team productivity.
 - Development of Manager Capability Training (rolled out in 2013) —to enhance the critical skill sets in the four roles of a leader, and to drive performance and increase capability in frontline managers.
- > Cultural awareness — Communicating Across Cultures is a new program offered in 2012 to develop a heightened degree of intercultural understanding and explore ways to communicate and work more effectively in a cross-cultural business environment.

AMD requires online training through our Legal Compliance Education Center (LCEC) in the following areas:

- > AMD’s Worldwide Standards of Business Conduct (for all new hires globally)
- > Workplace Harassment (for all U.S. employees who have not taken this training in the last two years)
- > Export Controls: Commercial Products (all global employees with a job function related to this content)

In addition to the mandatory training, LCEC also makes the following online training modules available to employees:

- > Protection of Confidential Information
- > Antitrust Awareness

In 2012, AMD began the implementation of a global Learning Management System (LMS) from SAP. This LMS will enable AMD to eventually centralize the scheduling, delivery, tracking, and reporting of all training and development programs and offerings at the company. The initial implementation is scheduled for completion in 2013.

Human Rights

AMD’s policies on human rights issues such as harassment, discrimination, working hours, forced/compulsory labor, child labor, compensation and freedom of association are addressed in AMD’s [Worldwide Standards of Business Conduct](#), the EICC Code of Conduct, as well as in [AMD’s Human Rights Statement](#) adopted in 2011:

AMD respects and supports proclaimed human rights on a worldwide basis, within our sphere of influence. AMD is committed to respect its employees’ human rights. AMD compensates its workers at or above legal minimums, and complies with all applicable labor laws including minimum working age laws. AMD prohibits discrimination based on race, color, age, gender, sexual orientation, gender identity and expression, ethnicity, disability, religion, union

membership or political affiliation. AMD does not use forced labor in providing its services, and prohibits physical abuse or harassment and retaliation against employees reporting harassment amongst its employees. AMD operates in locations where employees have the right to freely associate or not associate with third-party organizations, such as labor unions, and these employees have the right to collectively bargain or not bargain collectively in accordance with local laws. AMD respects those rights and is committed to maintaining a fair and open workplace where employees are treated with dignity and respect, are free from discrimination or the fear of retaliation and can openly share their ideas, concerns or problems on workplace issues with management. AMD's principles of respect for people are further discussed in AMD's Worldwide Standards of Business Conduct, and these principles are designed to help AMD ensure that it is not complicit in human rights abuses.

We believe that open communication and direct engagement between workers and management are some of the most effective ways to resolve workplace issues. We support open communication through a variety of meetings between employees and management, and through an open-door policy, without fear of reprisal, intimidation or harassment.

All employees receive access to AMD's Worldwide Standards of Business Conduct and are trained and provided reminders on how to apply these standards in the workplace. These standards are aligned with the EICC Code of Conduct that we apply to ourselves and our suppliers. Our hiring practices are periodically reviewed to ensure conformance with local laws and AMD's Worldwide Standards of Business Conduct.

CHAPTER IX: EMPLOYEE HEALTH, SAFETY AND WELLNESS

At AMD, we are committed to provide programs, services and resources necessary to ensure a safe and healthy work environment and promote employee wellness. The following sections provide additional information on these efforts:

- > Global Health and Safety Standards
- > Health and Safety Management System
- > Health and Safety Performance Metrics
- > Crisis Management
- > Epidemic Disease Control Planning
- > Wellness Program
- > Industry Collaboration

Global Health and Safety Standards

For more than a decade, our Global EHS Standards have established excellence as the benchmark for AMD sites around the world. In addition to requiring all our facilities to meet applicable local, regional and national requirements, our standards go beyond legal parameters and establish best-in-class practices to protect employee safety and health. Health- and safety-related areas addressed under the Global EHS Standards include the following:

- > Legal compliance
- > Employee well-being
- > Injury and illness prevention
- > Emergency preparedness and response
- > Electrical safety
- > Equipment safety
- > Chemical safety
- > Ergonomics

Each AMD site develops and maintains programs to implement these standards. Periodic audits are conducted to review these programs and assist with improvements.

Health and Safety Management Systems

By setting standards and utilizing management systems, AMD ensures that our Global EHS Standards are consistently and efficiently implemented in our operations worldwide. The safety management systems at our ATMP manufacturing facilities in Penang, Malaysia and Suzhou, China, are certified to the Occupational Health and Safety Assessment Series 18001 (OHSAS 18001) Standard. View the certificates on our [website](#).

Our health and safety programs include the following elements:

- > The Global EHS team provides assistance to our site staff at AMD locations around the

world to comply with local and regional EHS regulations as well as our Global EHS Standards.

- > We conduct periodic third-party regulatory compliance audits at our manufacturing and large non-manufacturing sites. The Global EHS team and site personnel document and track any corrective actions to closure. The audit program also includes third-party assessment of conformance to AMD's Global EHS Standards.
- > Prior to buying new manufacturing equipment for our ATMP manufacturing facilities, EHS professionals conduct detailed evaluations of all safety features and any potential occupational safety hazards. We work with both the equipment manufacturers and AMD equipment engineers to address any deficiencies, and to monitor the safe installation and operation of all equipment.
- > AMD site personnel review any hazards associated with new chemicals before delivery to or use at AMD sites. They ensure that the necessary controls are in place to transport, use and store the chemicals safely, and minimize risks to employees and the community.
- > Emergency response teams at each site have been trained with first responder capabilities for emergencies such as medical, evacuations, fire, chemical and others as appropriate for site operations. The teams are comprised of employee volunteers from different functional areas of the company.
- > We closely monitor the effectiveness of control measures through workplace inspections, assessments and health surveillance programs designed to ensure that employees who have potential exposure to chemical or physical hazards are not adversely affected by their work environment.
- > We routinely conduct EHS audits of the hazardous and non-hazardous waste transport, storage and disposal facilities that receive and process AMD waste.
- > AMD employees are trained to carry out their job responsibilities safely and effectively. Our training program matches workers' responsibilities with the appropriate instruction to help them understand how to maintain a safe and healthy workplace.

Health and Safety Performance Metrics

AMD collects and tracks a variety of health and safety performance indicators to assess our programs and monitor trends. To ensure consistency across sites, we track safety data (occupational injury and illness case rates; lost work day case rates) based on U.S. Department of Labor Occupational Safety and Health Association (OSHA) guidelines regardless of where our facilities are located. In this way, we are able to compare and appropriately respond to safety issues at AMD facilities around the world.

AMD's goal is to continually reduce occupational injury and illness case rates. We strive to accomplish this through a variety of programs and processes that have been developed based on industry performance standards, regular review of the effectiveness of our programs and processes, and the commitment of our employees.

Additional details regarding our occupational injury and illness data are provided in our [Labor Data Tables](#).

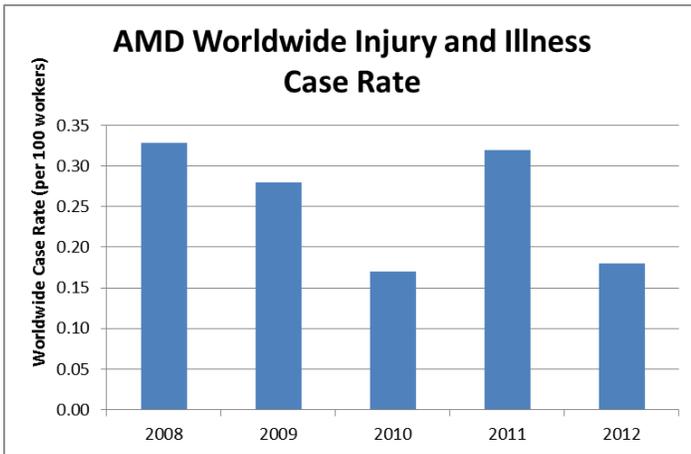


Figure 14: Total Injury and Illness Case Rate (per 100 workers)

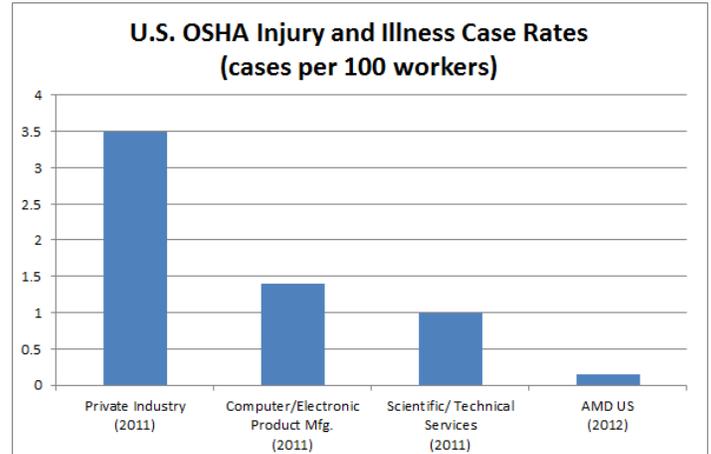


Figure 15: U.S. OSHA Benchmark Rates compared to AMD 2012 INI Case Rate (per 100 workers)

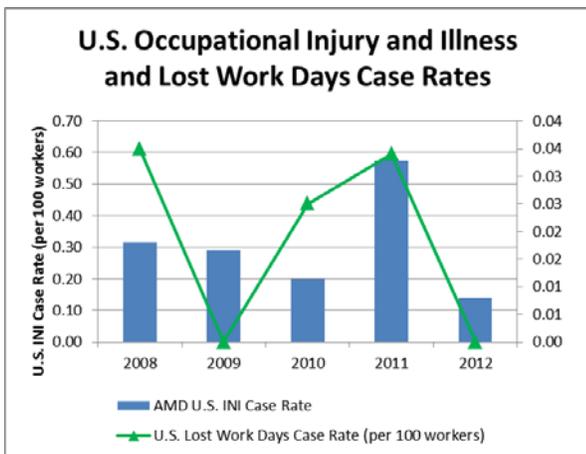


Figure 16: U.S. Occupational Injury and Illness Rates and Lost Work Days Rates (per 100 workers)

AMD’s goal is to continuously reduce occupational injury and illness case rates. In 2012 our worldwide case rate decreased 44% from 0.32 cases per 100 workers in 2011 to 0.18 in 2012, significantly below U.S. OSHA case rates. The decrease is a result of our improved process for providing ergonomic equipment and furniture; ensuring employees are properly educated on the use and adjustment of their workstations; and increased employee training.

In addition, AMD investigated and addressed root causes of injuries and increased communication to employees to raise awareness and educate them on injury prevention measures. In the United States, AMD’s occupational injury and illness case rate decreased from 0.57 cases per 100 workers in 2011 to 0.14 cases per 100 workers in 2012. Lost work day case rate decreased from 0.03 to 0 (no time away from work due to occupational injuries or illnesses).

Crisis Management

AMD has crisis management plans in place to appropriately respond to global and site emergencies, and business interruptions. The plans include the following components:

- > A global emergency management system that provides timely notification, response and recovery.
- > A global crisis management team to drive enterprise-wide coordination of disaster response and recovery.
- > Local crisis management teams at critical AMD locations to manage local response through the standardized AMD emergency management system.

Epidemic Disease Control Planning

All major AMD sites have pandemic contingency plans in place and review them on a regular basis. These plans outline the response protocol when there is a threat of a disease outbreak in a region. In 2012, there were no pandemic threats but AMD continued to monitor diseases such as H1N1, H1N2 and other potential threats around the world.

Wellness Program

In addition to safety in the workplace, AMD is also focused on encouraging and incentivizing our employees to improve their overall health and wellness. We communicate important health information to employees in many ways including:

- > Monthly emails featuring health and wellness topics.
- > Live webcast presentations on exercise, healthy eating and relaxation techniques.
- > Comprehensive web-based health information offered by health insurance providers.
- > Routine discussions about weight management, tobacco cessation, back safety, stress management and other relevant health topics.

Committees

A Steering Committee oversees AMD's wellness program. The committee is currently focused on North America where 50 percent of our employees reside, but also coordinates global events such as the World No Tobacco Day, flu shots and biometrics screenings. Major sites outside of North America coordinate their own site-specific wellness programs with assistance and support from the Global EHS team.

AMD Partners in Wellness is a cross-functional team comprised of employees and AMD health vendors within North America, and is charged with optimizing and integrating employee wellbeing into the workplace. The team is supported by onsite employee wellness committees that focus on five key elements for maintaining a healthy, well-balanced lifestyle: Health, Nutrition, Fitness, Emotional Wellbeing and Career.

Health

The Wellness program organizes events and provides services to assist health organizations and engage employees in health-related issues. These include the following:

- > Free annual flu immunizations in North America and flu immunizations in Asia offered at a discount price or covered by insurance.
- > Onsite blood drives throughout the year to encourage employee blood donations.
- > Wellness expos and EHS awareness days that provide a variety of services such as biometric testing, health-related products and services information, and discussions about various health and safety topics.

- > Worldwide support of World No Tobacco Day on May 31, 2012, during which AMD educated employees on tobacco-related risks, offered tobacco cessation programs and encouraged a tobacco-free campus for the day.
- > Emergency medical assistance service for health issues potentially encountered by our employees traveling internationally on business.
- > Onsite ergonomic evaluations as well as computer-based training to educate employees on good ergonomic principles, as well as how to properly adjust their computer, laptops, computer workstations and other equipment to minimize the risk of injury.

In February 2012, AMD launched an enhanced wellness program in the United States. AMD has partnered with WebMD Health Services, a division of WebMD, to offer free health management services to U.S. employees utilizing [WebMD's Health Manager](#)SM. Employees were offered an incentive of \$100 to take advantage of WebMD Health ManagerSM.

In 2013, AMD U.S. employees and their spouse/domestic partner who complete WebMD's health questionnaire will be eligible to receive \$50. Additionally, starting January 1, 2013, AMD is offering a healthcare premium credit to US employees and their spouses who do not use tobacco or who choose to quit.

In 2012, AMD Austin, Texas won an Austin Chamber of Commerce Business Award in the category of wellness. AMD was recognized for its commitment to help employees and their families live healthier lifestyles through a variety of resources that empower healthy decisions and prevent chronic conditions. This was achieved through the [AMD Wellness@Work program](#), which brings together health insurance carriers, onsite fitness centers, cafes and third-party wellness vendors to provide a coordinated and seamless offering to employees.

Nutrition

Onsite AMD cafeterias offer a wide variety of healthy options such as:

- > Vegetarian and heart-healthy menus
- > Under 500 calories combos
- > Healthy grab-and-go kiosks
- > Organic foods
- > Fresh foods
- > Fruit – some locations also have fruit vending machines

Nutrition awareness is supported by wellness articles featured on AMD's intranet. Cafeterias at some of our facilities provide menu selections labeled with nutritional content. AMD also promotes healthy eating with fresh fruit and vegetables home delivery service discounts at some locations.

Fitness

Physical fitness is encouraged through a variety of programs and benefits:

- > Fully equipped fitness centers available at many locations with free membership.
- > *Get Your Move On*, *Biggest Winner*, and *Be Lean* programs that promote physical activity and weight management.
- > Fall and Spring 5K run/walks.
- > Health and fitness promotion activities, such as *Bike to Work Week*, *National Fitness Day*, *World Health Day* and other activities promoting fitness.
- > Personal training options offered at our onsite fitness centers to help our employees reach their personal fitness goals.
- > Collaboration with AMD's *Go Green* program to promote walking and biking to work.

Emotional Wellbeing

Health and emotional wellbeing go hand in hand. AMD's global Employee Assistance Program (EAP) counsels employees on many life challenges, such as relationship issues, change and stress management, substance abuse, depression, parenting and eldercare concerns, as well as simply finding a balance between work and home. AMD's EAP offers stress reduction and stress management seminars and webinars, as well as individual counseling. Additionally, many of our locations offer private areas/rooms for employees to decompress, meditate or pray.

Career

Career progression is as important as health and wellness to an engaging, meaningful and rewarding work experience. AMD offers a wide variety of resources through our Learning and Development department to assist with personal and professional development. For more information about AMD's career development opportunities, see the [Careers](#) section on our website.

Industry Collaboration

AMD actively participates in industry efforts to promote safety and health in our industry. AMD participates in, and supports a number of professional groups, such as the American Association of Occupational Health Nurses (AAOHN), the Electronic Industry Citizenship Coalition (EICC), and the U.S. Semiconductor Industry Association (SIA). Through collaborative efforts like these, we seek to assist our entire industry – competitors, customers and suppliers – to promote a safe and healthy work environment.

CHAPTER X: AMD IN THE COMMUNITY

AMD was founded on the principle of putting people first – our employees, our customers, our shareholders and our neighbors in the communities around the world where we live and work.

AMD supports our global communities via:

- > Employee Volunteering and Giving
- > AMD Foundation and Corporate Contributions

Employee Volunteering and Giving

For more than 30 years, AMD has invested money, time and technology in organizations that help to improve social and environmental conditions, and strengthen the communities where we live and work. The process of helping others has enriched the lives of thousands of AMD volunteers around the globe.

AMD encourages our employees and contractors to volunteer, and we support their efforts by coordinating company-sponsored volunteer events; and connecting employees with volunteer opportunities focused on improving the quality of life for those who live and work in or near communities where we operate.

While 2012 proved to be a challenging year due to significant global workforce reductions and reductions in spending, AMD remained committed to supporting volunteerism and many AMD employees and contractors continued to engage in their communities. Sixteen AMD sites in Canada, China, India, Malaysia, Singapore and the United States recorded the following accomplishments:

- > Volunteered more than 7,734 hours (a 39 percent decrease from 2011)
- > Donated 1,005 units of blood (a decrease of 25 percent from 2011)
- > Participated in 196 company-sponsored volunteer events (a 23 percent decrease from 2011)
- > 1,202 employees volunteered in their communities (a 22 percent decrease from 2011)

Our volunteerism program – AMD Community Corps – is designed to help employees and contractors worldwide make a positive impact in their communities while developing their own professional abilities. In support of this program we provide an interactive website that facilitates volunteerism and giving – called AMD Community Corps Connect. In 2013, we plan to expand the capabilities so that employees worldwide can use the tool to identify local charities, track volunteer time and network with fellow employees to organize volunteer events.

For details on site-specific volunteer activities, please see [AMD Site Reports](#).

Pro Bono Work

Busy schedules permitting, a small group of AMD attorneys and paralegals staff the Volunteer Legal Services (VLS) evening legal clinic in Austin, Texas one week a month. VLS is a non-profit organization chartered to provide legal assistance to low-income residents. In these clinics, the AMD volunteers provide legal advice in a variety of areas including public benefits, housing and consumer problems, and

family law. AMD actively promotes pro bono work by its legal staff and as a result AMD attorneys routinely take on pro bono cases representing VLS clients from start to finish through the legal system, including negotiating settlements and representing them in court. AMD sees this as a win-win situation. The pro bono work not only supports our local community, it also creates an opportunity for our team to hone and expand its legal skill set.

Volunteer Awards

AMD annually recognizes individual AMD volunteers, community liaisons and site teams who go above and beyond to contribute to their local communities:

Volunteer Excellence Awards— recognize individual AMD volunteers who dedicate their time and talents to serve their community. In 2012, seven employees were recognized around the world for their exceptional volunteer efforts.

- Diane Stapley, Austin, Texas, USA – mentors students in East Austin Prep’s [Globaloria](#) program and volunteers with [AustinPetsAlive](#).
- Kurt Tokita, Bellevue, Wash, USA – is the President of the Board of Directors of the [Japanese Cultural and Community Center](#).
- Purlvin Zhang, Shanghai, China – volunteers with deaf children at [Shanghai Pudong Special Education School](#).
- Bob Brower, Boston, Maine, USA – volunteers with [Open Pantry](#), a food pantry and soup kitchen.
- Elizabeth Conrad, Sunnyvale, Calif., USA – volunteers with the [Boys and Girls Club of Silicon Valley](#).
- Satya Bijaya Dash, Hyderabad, India – volunteers with [Mandal Parishad Primary School](#).
- WenChing Lee, Penang, Malaysia – spent two years growing her hair to donate to a child with cancer through the [Taiwan Cancer Society](#).

The Volunteer of the Year Award—recognizes one exceptional employee volunteer each year who goes above and beyond to contribute to his/her community. The winner sets an example for others as to the remarkable impact that volunteerism can have on AMD communities around the world. The 2012 AMD Volunteer of the Year was Diane Stapley, Senior Manager, Client Business Unit, Austin, Texas. Read more about all of our volunteers on our [AMD in the Community website](#).

Diane Stapley

AMD Austin

2012 AMD Volunteer of the Year

An AMD employee since 2002, Diane assists students in programing games through East Austin Prep’s [Globaloria](#) program. She is also a volunteer feeder and training program mentor in the kitten nursery at [AustinPetsAlive](#). Globaloria’s program allows students in grades 6-8 to learn valuable STEM skills by including computer game programming courses in their required curriculum. AustinPetsAlive’s neo-natal programs are both responsible Austin’s no-kill status as well as premiere in the USA for cure rates for pan leucopenia and parvo (deadly forms of distemper affecting kittens and puppies).

“AMD has been amazingly supportive. Through our volunteer outreach program team, I was able to learn about and join the Globaloria team. The online support website we’ve created at AMD Community Corps Connect has enabled me to track not only my donations for AMD’s matching program, but also my volunteer hours. Because of AMD, I was able to not only give hours but have matching grants of thousands of dollars provided to these organizations!” – **Diane Stapley**

Other 2012 Volunteer Activities

Global Volunteer Month—AMD hosted its third annual Global Volunteer Month in October 2012. This month-long campaign encourages AMD employees around the world to reach out and help their communities through company-sponsored volunteer activities. During this short time, 537 employees from 13 sites volunteered more than 1,440 hours at 42 charitable events.

Team Development Grants—recognize teams of employees who volunteer with a local nonprofit or school. In 2012, 100 team-building grants (\$500 USD each) were awarded to teams at 13 AMD sites, benefiting 58 agencies and schools.

Micro-Campaigns—on-site fundraising efforts for local community nonprofits and schools in AMD communities around the world. In 2012, 10 AMD sites promoted 23 micro-campaigns supporting 19 charities.

Skill-Based Volunteerism—encouraging our employees to use volunteerism as a way to improve their professional skills to provide a win-win experience for the charity and the volunteer.

The AMD Employee Giving Program

In 2012, this program was funded by the AMD Foundation and supported employees’ community interests by matching their personal donations of both time and money to eligible local organizations. All regular, full- and part-time AMD employees based in the United States and Canada were eligible for participation in the AMD Employee Giving program. By matching our employees’ efforts, we not only created an incentive to support local communities, we also leveraged their efforts with additional contributions.

AMD’s matching programs included:

Grant Incentives for Volunteer Efforts (GIVE) program—In 2012, AMD contributed \$15 USD for each hour that our U.S. and Canada-based employees and their spouses spent volunteering with eligible organizations.

Matching Gifts program—In 2012, AMD matched dollar-for-dollar the first \$3,000 USD in charitable contributions made to eligible organizations by each employee within a calendar year. Since 1995, AMD employees have generously given \$7,939,631 million USD. When the AMD match is added to our employee’s contributions, the total is \$16,340,103 million USD in support of hundreds of NGOs and schools. During that time, 161,892 volunteer hours were logged through the GIVE program.

Technology Infrastructure Development and Services

As part of our signature education program, *AMD Changing the Game*, AMD contributes money, expertise, computer equipment and other services for technology centers in communities around the world. While students are the primary beneficiaries of these contributions, many of the facilities are open to the public and play an important role in the community's access to technology. AMD contributions made in 2012 toward technology infrastructure development included those shown in Table 5.

RECEIVING AGENCY	INFRASTRUCTURE INVESTMENTS/SERVICES	(USD)
Games for Change Festival	Computer game demo lab and arcade.....	\$8,000
Austin Film Society	Computer labs for 2 middle schools	\$9,800
ETR Association	Computers used as prizes for game design contest.....	\$2,400
York University	Game design computer lab upgrades and accessories.....	\$8,905
Boys & Girls Clubs of America	Computers used as prizes for Digital Arts Festival winners	\$11,000
Boys & Girls Clubs of Canada	2 Game Tech computer labs	\$45,000
East Austin College Prep	2 computer labs for a new campus.....	\$38,106
Pontifical Catholic University of Rio de Janeiro	Computers for mobile classroom PC labs.....	\$13,000
Worldwide Workshops	Computers used as prizes for Globey Game Design Awards.....	\$10,676
TOTAL in 2012		\$146,887

Table 5: 2012 Infrastructure Development Contributions

AMD Foundation and Corporate Contributions

The AMD Foundation was launched in 2008 with a vision of improving people's lives in AMD communities around the world. Foundation assets are primarily invested in our signature educational program, [AMD Changing the Game](#). The AMD Foundation also funds AMD's Employee Giving Program by providing matching funds for employee donations and [employee volunteerism](#). And, when natural disasters affect AMD communities around the world, the AMD Foundation supports relief efforts.

AMD and the AMD Foundation donate funds as well as technology and other in-kind services to support a range of nonprofit organizations, schools and universities in our communities throughout the world. The majority of our donations are made to our long-standing community partners, but each year we actively seek out new opportunities with local organizations that effectively support our local communities.

In 2012, AMD and the AMD Foundation's combined direct and in-kind contributions exceeded \$3 million USD. Approximately one half of this total was directed toward our *AMD Changing the Game* program and other educational efforts. In 2012, the Foundation awarded 24 grants for a total of \$1.7 million in support of STEM learning through game design. The grants have supported workshops, programs, professional development, academic research and curriculum development for game design programs for youth globally. Read more about *AMD Changing the Game*, including its expansion into Brazil, in the [AMD Changing the Game](#) section of this report.

The AMD Foundation was named a 2012 Laureate of the International Data Group's (IDG) *Computerworld* Honors Program, for the Foundation's use of technology to promote and advance the STEM skills of youth around the world. The annual award program distinguishes organizations and companies that use technology to support and create positive social, economic and educational change. The AMD Foundation was selected based on its ability to provide a significant benefit to society through its global signature education program, *AMD Changing the Game*.

More detailed information and data regarding AMD's contributions, including a breakdown by geographic region and giving category, is available in our [Economic Data Tables](#).

CHAPTER XI: GOVERNANCE AND ETHICS

In 2012, AMD continued to shape our business with a systematic approach to managing the risks and opportunities associated with shifting market and industry conditions in our core areas of business. The following sections describe our internal and public policies and programs that address these risks.

Ethics and Compliance

Approach

AMD is committed to achieving the highest standards of ethics and integrity in all aspects of our business. We implement processes to ensure that our practices are consistent with our policies. We believe the integrity of an organization begins with every employee's commitment to our core values and their responsibility to act in concert with those values.

Responsibilities, Policies and Resources

AMD's Senior Vice President and General Counsel oversee the management of corporate responsibility-related policies and practices. Below are AMD's corporate ethics and governance policies, oversight structures and processes:

- > Board of Directors
- > Corporate Responsibility Council
- > Principles of Corporate Governance
- > Worldwide Standards of Business Conduct
- > Code of Ethics
- > Corporate Compliance Committee
- > Stock Ownership Guidelines
- > AMD AlertLine
- > Internal Audit
- > Global Internal Controls and Compliance Organization
- > Risk Management (including a new Risk Management Committee established in 2011)
- > AMD Political Action Committee

Board of Directors

AMD's Board of Directors is responsible for selecting the Chief Executive Officer (CEO), monitoring the operating performance and financial condition of the Company and overseeing the Company's adherence to corporate standards. AMD's Chairman of the Board and AMD's CEO are currently two separate roles performed by different individuals. AMD's Chairman of the Board is "independent" in accordance with applicable law and the New York Stock Exchange (NYSE) standards.

As of December 29, 2012, AMD's Board consisted of 12 directors and three committees. The committees are the Audit and Finance Committee, the Compensation Committee and the Nominating and Corporate Governance Committee. Committee members and their Chairs are appointed by the Board annually. In accordance with AMD's principles of corporate governance, a majority of members of the Board must meet the criteria for independence as required by applicable law and NYSE standards. The Board evaluates its own performance annually. More information regarding AMD's Board of Directors is available on our [website](#). Executive compensation is linked to performance as outlined in our 2013 Proxy statement, available on the [SEC website](#).

AMD's Nominating and Corporate Governance Committee assists the Board in discharging its responsibilities regarding the following:

- > Identification of qualified candidates to become Board members.
- > Selection of nominees for election as directors at the next stockholders' annual meeting (or special meeting of stockholders at which directors are to be elected).
- > Selection of candidates to fill any vacancies on the Board.
- > Development of corporate governance guidelines, recommendations to the Board on changes to the [Principles of Corporate Governance](#), and oversight of the evaluation of the Board and management.

In addition, the Nominating and Corporate Governance Committee performs the following duties:

- > Reviews the Board's composition and organization.
- > Leads a process for non-management directors to evaluate the performance of our CEO.
- > Provides input regarding the evaluation of other Section 16 officers.
- > Retains a search firm for the purpose of obtaining information regarding potential candidates for Board membership.

For more information, please see our [2013 Proxy Statement](#). Interested parties who wish to communicate with our Board of Directors or with non-management directors may send their communications in writing to our Corporate Secretary, 7171 Southwest Parkway, M/S 100, Austin, Texas 78735, or send an email to Corporate.Secretary@amd.com. Our Corporate Secretary will forward these communications to our Chairman of the Board.

Corporate Responsibility Council

AMD's Corporate Responsibility function resides organizationally under the Public Affairs/Government Relations group, which is part of the Legal Department at AMD. The Corporate Responsibility Council is a cross-functional team made up of executives from key departments, including finance, global supply management, engineering and business development. The council establishes corporate responsibility strategy and policy and routinely evaluates the company's economic, environmental and social performance.

Principles of Corporate Governance

AMD's Board has developed a set of principles of corporate governance as a framework for our oversight activities. These principles are intended to protect and advance the long-term interests of stockholders while being mindful of the shared interests of the Company's other stakeholders, including employees, customers, suppliers, creditors and the communities in which we operate. In accordance with AMD's [Principles of Corporate Governance](#), a majority of members of the Board must meet the criteria for independence as required by applicable law and the NYSE standards. Our Board of Directors has determined that all directors who served during our 2012 fiscal year, other than Mr. Rory Read, our President and CEO, Mr. Waleed Al Muhairi and Mr. Ahmed Yahia, were independent in accordance with SEC and NYSE rules, and all of our director nominees for the 2013 Annual Stockholder Meeting, other than Mr. Read, Mr. Yahia and Mr. Marty Edelman, are independent in accordance with SEC and NYSE rules.

AMD's Worldwide Standards of Business Conduct

AMD's [Worldwide Standards of Business Conduct](#) support our commitment to high ethical standards and compliance with laws, regulations and company policies. These standards apply to all members of AMD's Board of Directors and employees worldwide, and are one of the key components of the company's compliance and ethics program. They reiterate our values and outline guidelines on a broad range of workplace, business practice and conflicts of interest principles such as employment and labor practices, privacy, employee safety and health, business and accounting practices, political activities and contributions, insider trading, antitrust laws and the Foreign Corrupt Practices Act. The Standards were updated in December 2011, and are currently available in eight languages: English, Japanese, German, Malay, Chinese (Mandarin), Spanish, Portuguese and Russian. All employees worldwide receive access to, and training on, the Standards.

Code of Ethics

AMD's [Code of Ethics](#) supports the commitment of our corporate officers and key finance executives to the highest ethical standards and compliance with laws, regulations and company policies applicable to corporate financial transactions, reporting and disclosure. Our executives are vested with the responsibility – and in some cases, the authority – to protect, balance and preserve the interests of our stakeholders. AMD's executives fulfill this responsibility, in part, by prescribing and enforcing appropriate policies and procedures for the company's finance organization, and by enforcing and adhering to the principles set forth in the Code of Ethics.

Corporate Compliance Committee

AMD's Corporate Compliance Committee is the internal group responsible for oversight of AMD's Worldwide Standards of Business Conduct and related policies/procedures (e.g., Foreign Corrupt Practices Act and conflict of interest rules). The committee provides regular ethics and compliance activity reports, as well as status updates to the Board of Directors.

Stock Ownership Guidelines

AMD believes that officers and members of the Board of Directors should own and hold common stock of the company to further align their interests and actions with the interests of AMD stockholders.

Therefore, the Board of Directors adopted [Stock Ownership Guidelines](#). The guidelines vary according to officer level and specify the number of shares members of the Board and officers must own within specified time frames. The Board, upon the recommendation of the Compensation Committee, amended these guidelines in October 2011 to align them with AMD's peer group of companies and strengthen the alignment of the interests of our officers and members of the Board and stockholders.

AMD AlertLine

The AMD AlertLine (1-800-381-6221) is a toll-free, multilingual service that accepts anonymous reports about suspected illegal activity or violations of AMD's Worldwide Standards of Business Conduct. The AMD AlertLine is available to all AMD employees worldwide, 24 hours a day and seven days a week. The Board of Directors receives summaries of all calls. Reports may also be submitted via email at alertline@amd.com.

Internal Audit

The Internal Audit department provides objective assurance and consulting support in service of AMD's operations and financial performance. The Internal Audit department brings a systematic, disciplined approach to activities such as risk management, systems and process controls, and governance processes. This drives efficiency and consistency in our business processes, and helps organizations accomplish their objectives. The department has unrestricted access to all functions, property, records and personnel to conduct their reviews and make recommendations for improving or changing business practices and/or policies. Perhaps most importantly, the Internal Audit department provides a fresh perspective on improving the quality and consistency of our systems, processes and operations across the company.

Global Internal Controls and Compliance Organization

AMD's Global Internal Controls and Compliance Organization (GICCO) implements internal controls and processes based on an assessment of risks to financial statements and related assertions. GICCO coordinates compliance with the requirements of the Sarbanes-Oxley Act of 2002 (SOX) to ensure that financial risks are addressed by controls that are formalized and available for external and internal audits. AMD's approach to SOX compliance is based on risk assessment. We evaluate SOX audit findings for financial reporting purposes and the annual Internal Control Assessment Document. GICCO further educates and trains employees about the SOX requirements to help AMD ensure the reliability of financial reporting and compliance with laws and regulations.

Risk Management

AMD has a systematic approach to managing risk of loss, disruption or interruption of mission critical activities that are aligned with our strategic business initiatives. Our business resilience and preparation is routinely reviewed, and our management plans are updated accordingly.

AMD faces a variety of potential risks and disruptions to our operations and business that are discussed in our [2012 Annual Report on Form 10-K](#) and updated by subsequent filings with the SEC. Our risk management processes include an integrated approach to policies, procedures and management systems such as: EHS, Quality, and Business Continuity Management (BCM). For example, our crisis management plans are designed to provide a quick, decisive and coordinated response in order to protect people and

the environment, and – to the extent possible – maintain normal business operations in unforeseen situations. Please see the [Risks and Opportunities Associated with Climate Change](#) section of this report for more information on climate change.

The Board’s role in risk oversight of the Company is consistent with our leadership structure, with our CEO and other members of management having responsibility for day-to-day risk management activities and processes, and our Board and its committees being actively involved in overseeing risk management for AMD. The Board and management consider “risk” for these purposes to be the possibility that an undesired event could occur that might adversely affect the achievement of our objectives. In fulfilling its oversight role, our Board focuses on understanding the nature of our enterprise risks, including reputational risk and risks in our operations, finances and strategic direction, as well as the adequacy of our risk assessment and risk management processes. In addition, our Board implements its oversight function primarily through management reports and committees of the Board.

At least annually, our Board discusses with management and the risk management committee the appropriate level of risk relative to our corporate strategy and business objectives, and reviews with management and the risk management committee our existing risk management processes and their effectiveness. The Board also receives periodic management updates on our business operations, financial results and strategy and, as appropriate, discusses and provides feedback with respect to risks related to these topics. In addition, the Board receives full reports from the committee chairs regarding the committee’s considerations and actions related to the specific risk topics over which the committee has oversight.

The Risk Management Committee (RMC)—Comprised of members of AMD management, and established in the second half of 2011, the RMC identifies, consolidates and assesses risks across all risk types – strategic, operational, compliance and governance. The RMC monitors and reports on risk mitigation activities, and escalates critical risks, as needed, to the CEO, Audit and Finance Committee, and the Board.

The Audit and Finance Committee—The Audit and Finance Committee assists the Board in overseeing the Company’s enterprise risk management process; reviews the Company’s portfolio of risk; discusses with management significant financial, reporting, regulatory and legal compliance risks in conjunction with enterprise risk exposures as well as risks associated with our capital structure; reviews the Company’s policies with respect to risk assessment and risk management and the actions management has taken to limit, monitor or control financial and enterprise risk exposure. The Audit and Finance Committee meets with members of our Internal Audit department to discuss any issues that warrant attention.

The Compensation Committee—Oversees risk management as it relates to our compensation policies and practices. The committee conducts annual reviews of management’s assessment on whether our compensation programs may create incentives for our employees to take excessive or inappropriate risks that could have a material adverse effect on AMD.

The Nominating and Corporate Governance Committee—Considers potential risks related to the effectiveness of the Board, including succession planning for the Board of Directors and our overall governance.

AMD Political Action Committee

By U.S. law, corporations cannot contribute directly to federal candidates or national political committees. Instead, federal law permits corporations to establish and operate a Political Action Committee allowing eligible U.S. employees and shareholders to pool their voluntary contributions to support candidates and political committees.

As part of AMD's commitment to citizenship and community participation, AMD established the employee-driven Political Action Committee (AMD PAC) in 2005. The federal AMD PAC is a means for our interested and eligible employees and individual shareholders to participate in the political process, and help support U.S. candidates for elective office who share the AMD PAC's views on policies important to AMD and the semiconductor industry.

A voluntary Advisory Board comprised of AMD employees manages the bipartisan AMD PAC. This Advisory Board has established and follows contribution guidelines that consider, among other factors, the candidates' geographic representation of AMD employees, leadership on prioritized policy matters and voting history. An annual report is available to all members of the AMD PAC, which contains the total amount of contributions, the identity of all recipients of disbursements and the amount disbursed to each recipient.

The AMD PAC regularly files public reports with the U.S. Federal Elections Commission (FEC) that contain information about contributions, expenditures and other operational matters. These reports may be found on the [FEC website](#). AMD PAC disbursement amounts can be found in the [Economic Data Tables](#).

Public Policy

As a global company, we believe corporate responsibility includes being an informed, active participant in the development of public policies that affect our business and our industry in the countries and communities in which we operate. Good public policy begins with diverse stakeholders participating in open and transparent proceedings to carefully examine issues and offer different perspectives that promote effective solutions.

Policies and Practice

AMD's commitment to public policy participation includes working with governments and authorities, NGOs, trade associations and other groups to deepen our understanding of issues and diverse perspectives, as well as to share our experience and expertise as part of an informed public policy development process. We are actively engaged in a number of public policy efforts that are pertinent to our business, our industry and users of AMD technology everywhere. Some of these public policy priorities for AMD include:

- > Environmental Protection
- > Energy Efficiency and Greenhouse Gas Emissions
- > Secure Technology
- > Competition and Market Access
- > Principal Industry and Business Associations

Environmental Protection

AMD works with customers, public entities and industry peers around the world to promote environmental protection opportunities associated with our products throughout their lifecycle. For example, recent activities around the world have addressed “green” procurement, the restriction of hazardous substances (RoHs) in electronic products, management of conflict minerals, resource efficiency and the handling of electronics waste. Specific activities include the recast of the European Union’s (EU’s) Waste Electrical and Electronic Equipment (WEEE) and RoHS directives, RoHS and WEEE regulations in India and China, the roadmap for a resource efficient Europe, and the Strategic Approach to International Chemicals Management (SAICM).

In support of these initiatives, AMD engages in the development of international standards, in some cases taking a leadership role. AMD is also participating in study groups supporting the revision of the IEEE 1680.1 standard for Environmental Assessment of Personal Computer Products. Computer products meeting the current version of this standard are recognized in the Electronic Product Environmental Assessment Tool (EPEAT) ratings and registry. AMD is also participating in the Technical Committee developing initial recommendations for a standard for servers.

AMD has taken a leadership role on the Conflict Minerals issue. For more information, please see [Supplier Responsibility](#).

Energy Efficiency and Greenhouse Gas Emissions

AMD works with private and public stakeholders to promote energy-efficient technology. Our efforts include working with policymakers and others in the Americas, Europe and Asia to:

- > Develop regulations and standards for energy-efficient computers, data center equipment and operations.
- > Sponsor dialogue between public and private organizations to increase understanding of trends in energy-efficient computing.
- > Create tools and metrics to measure the greenhouse gas (GHG) emissions of computing products.

AMD participates in the development of voluntary energy efficiency standards for computers and servers, such as the U.S. Environmental Protection Agency’s (EPA’s) ENERGY STAR® program, by providing technical and market analysis and product testing data during development of specifications for computing products. We continue to work with stakeholders around the world to drive the creation of energy efficiency metrics for computing products. For example, AMD is actively engaged in the development of requirements for computing products in a number of worldwide regulatory initiatives, including in the EU’s new Energy Using Products (EuP) Directive and China’s minimum energy performance standards.

AMD supports the creation of tools and metrics to measure the carbon footprint of computer products associated with the production of GHG emissions including:

- > Working with the Massachusetts Institute of Technology (MIT) on independent research for our integrated circuits, and with other stakeholders on the development of the Product Attribute to Impact Algorithm tool (PAIA) for computer products.
- > Engaging in the development of the International Electrotechnical Commission's international standards and the GHG Protocol, including general industry standards for electronic products, as well as more specific Product Category Rules for computers.
- > Participating in the ICT footprint initiative initiated by the European Commission Information Society and Media Directorate-General. The overarching goal to develop consensus within the global ICT sector on a common methodological framework for measuring energy consumption and carbon emissions arising from the production, transport and selling processes of ICT goods, networks and services.
- > Partnering on research to assess the energy benefits of server technology for hyperscale data centers, and to evaluate the use of renewable energy in data centers.

Learn more about AMD's efforts in environmental protection and energy-efficient computing in the [Product Stewardship](#) section of this report.

Secure Technology

The incredible growth of data flowing through the Internet is driving an explosion of new technologies and products. With these rapidly accelerating changes comes a corresponding increase in security vulnerabilities and risks to sensitive data as it is being transported or stored.

To address evolving data security threats, AMD's technology enables security features at all levels of IT systems – from the processor, to hardware and software applications. AMD's open standards approach maximizes interoperability while minimizing lock-in to a single vendor of hardware systems and software. This open approach also supports a platform for the development of additional features and innovative security applications.

The evolution of security risks in cyberspace, however, cannot be solved by any one company. Within the computing industry, protection must exist throughout the entire IT stack (i.e., devices and applications working together to protect against security threats). Security solutions not only rest individually within software, hardware and networking technologies, but in the complex relationships between IT manufacturers, network providers, application developers, standards bodies, government regulators and end users.

Innovation and open competition at every level of IT architecture is vital if the technology industry is to help protect personal and business critical information. Together with customers and peers, we are actively engaged in technology research and development, industry organizations and interactions with governments to address security issues and standards at a global level and to promote strong IT security protection.

AMD supports the following Cybersecurity Principles for Industry and Government:

1. *Leverage public-private partnerships and build upon existing initiatives and resource commitments.* By partnering with government, the IT industry has provided leadership, resources, innovation and stewardship in every aspect of cybersecurity for more than a decade. Cybersecurity efforts are most effective when leveraging and building upon these existing initiatives, investments and partnerships.

2. *Reflect the borderless, interconnected and global nature of today's cyber environment.* Cyberspace is a global and interconnected system that spans geographic borders and traverses national jurisdictions. The United States should exercise leadership in encouraging the use of bottom-up, industry-led, globally accepted standards, best practices and assurance programs to promote security and interoperability.

3. *Adapt rapidly to emerging threats, technologies and business models.* IT is an innovative and dynamic sector with rapidly changing and evolving technologies. Cybersecurity efforts must be equally dynamic and flexible to effectively leverage new technologies and business models and address new, ever-changing threats.

4. *Incorporate risk management.* Security is not an end state. Rather, it is a means to achieve and ensure continued trust in various technologies that comprise the cyber infrastructure. Cybersecurity efforts must facilitate an organization's ability to properly understand, assess and take steps to manage ongoing risks in this environment.

5. *Focus on awareness.* Cyberspace's owners include all who use it: consumers, businesses, governments and infrastructure owners and operators. Cybersecurity efforts must help these stakeholders be aware of risks to their property, reputations, operations and sometimes businesses, and better understand their important role in helping to address these risks.

6. *Focus on bad actors and their threats.* In cyberspace, as in the physical world, adversaries use instruments (in this case, technology) to carry out crime, espionage or warfare. Cybersecurity policies must enable governments to better use current laws, efforts and information sharing practices to respond to cyber criminals, threats and incidents domestically and internationally.

Competition and Market Access

Competition in the marketplace is fundamental to the ability of individuals and companies to innovate, bring new technologies and choice to technology consumers, and accelerate access to technology in developing regions of the world. Non-discriminatory access to markets, including the reduction or elimination of tariff and non-tariff barriers, is a crucial element of technology innovation and open competition in the global economy.

AMD is a strong advocate for policies that are designed to protect consumers from anti-competitive business practices and to ensure open markets. We strongly believe that competition and market access is a part of business ethics and should be considered as a key element in evaluating corporate responsibility.

We work with government procurement authorities around the world to promote competitive and transparent purchasing practices that are performance-based and consistent with the World Trade Organization's Government Procurement Agreement, the global standard for fair and open government

procurement policies. These efforts are helping to bring the benefits of competition – innovation, choice and cost savings – to many governments around the world, and to the taxpayers who support them.

Principal Industry and Business Associations

AMD personnel participate in a variety of industry group trade associations and standards-setting bodies to help shape emerging policies that could affect the semiconductor industry. Company personnel participate on committees at all levels and in a wide variety of groups, establishing national and international standards, evaluating the potential impact of proposed regulatory initiatives and promoting sustainable business practices.

Some major associations, industry initiatives and technical standards-setting bodies that AMD participates in include:

- > International Electrotechnical Commission (IEC) Technical Committees
- > The Electronic Industry Citizenship Coalition (EICC) – AMD Chairs this group
- > ECMA International – a European association for standardizing information and communication systems
- > The Information Technology Industry Council (ITI) – AMD is on the board
- > DigitalEurope
- > The Green Grid – AMD is on the board
- > U.S. Change the Equation
- > Information Technology Association of Canada (ITAC)
- > U.S. India Business Council (USIBC)
- > The U.S. Semiconductor Industry Association (SIA) – AMD is on the board
- > The World Semiconductor Council (WSC)
- > Semiconductor Equipment and Materials International (SEMI)
- > United States Information Technology Office (USITO)
- > American Chamber of Commerce of Brazil (AmCham-Brasil)

CHAPTER XII: AMD SITE REPORTS



The sustainability of a global corporation depends on the combined efforts undertaken by every employee at every facility. AMD has more than 50 facilities worldwide, including more than a dozen research and development (R&D) facilities, nearly two dozen international sales offices and manufacturing facilities in Malaysia and China.

This section reviews the social and environmental performance of major AMD sites in Greater China, The Americas, Asia Pacific (APAC) and Europe, the Middle East and Africa (EMEA). Many of these sites implement site-specific environmental, health and safety, volunteer and community involvement programs and have established employee *Green Teams* that focus on environmental improvements at their locations.

PARAMETER	GREATER CHINA				AMERICA			APAC				
	Suzhou	Beijing	Taipei	SRDC	Austin	Sunnyvale	Markham	Penang	Cyberjaya	Singapore	Bangalore	Hyderabad
<i>Environmental Performance</i>												
Electricity Consumed (GWh)	63	9	1	8	8	29	32	60	77	57	2	7
Water Use (thousand m ³)	75	n/a	n/a	11	122	84	46	330	13	87	n/a	n/a
Waste Generation (metric tons)	309	n/a	n/a	n/a	291	455	327	187	n/a	161	n/a	n/a
<i>Wellbeing</i>												
Illness and Injury Rates	0.30	n/a	n/a	n/a	0.0	0.35	0.29	0.04	n/a	0.38	n/a	n/a
<i>Community Involvement</i>												
Volunteers (number)	167	34	15	54	754	304	213	40	205	183	106	206
Volunteer Hours (hours)	955	112	87	163	1,991	898	417	160	780	548	187	340
Company-Sponsored Events (number)	10	3	2	3	61	40	12	3	9	9	8	9

Table 6: 2012 Site-Specific Performance Indicators

n/a= not available

GREATER CHINA



Number of Employees: 2,426 (as of February 2013)

China is an important market for AMD products with a manufacturing facility in Suzhou, corporate offices in Beijing and Taipei, and a major research and development center in Shanghai. In addition to product development and manufacturing, AMD also collaborates with China's Ministry of Information and Information Technology (MIIT) and the Ministry of Education on advancing ICT through training and technology development.

This section covers the awards and social and environmental performance of some of the major sites in the region.

2012 Site and AMD Awards

- > In December 2012, AMD received an “Excellent Vendor for Government Procurement” award from the **Chinese Government Procurement Magazine** at an event organized for the 10th anniversary of the Chinese Government Procurement Law.
- > In October 2012, AMD won the “Overseas Investment of China's Top Ten Most Influential Semiconductor Enterprises” Award at the 10th China International Semiconductor Expo Summit Forum (**IC China 2012**).
- > In February 2012, The **Chinese Ministry of Education (MOE)** recognized AMD's faculty training on Heterogeneous Computing as one of the top ten IT Enterprise Events in Education Informalization.
- > 2012 Award for water management and conservation from **the local Jiangsu Province government**, resulting in a \$6,000 USD incentive to the AMD Suzhou site.

SUZHOU, CHINA

Site: AMD Suzhou

Year Established: 2005

Operations: Assembly, test, mark and pack facility for microprocessors in the Suzhou Industrial Park.

Social Performance

Volunteer, community outreach and educational activities in 2012 included the following:

- > In June 2012, 14 AMD Suzhou employees spent 245 hours coordinating and participating in the 2012 Dragon Boat Festival Charity Bazaar. This event supports the [Suzhou Red Cross](#)

Chengshan program, an education program that raises funds to support disadvantaged university students. Employees raised RMB 20,000 (\$3,130), which was matched by AMD Global Community Affairs. An [AMD Team Development Grant](#) of \$500 was also awarded to the Suzhou Red Cross on behalf of the AMD volunteers.

- > AMD Suzhou also hosted the 2012 Chengshan charity dinner and auction for 140 guests to raise funds for the **Suzhou Red Cross** Chengshan program. AMD employees raised 20,000 RMB (\$3,145 USD), which was matched by AMD. Additionally, 14 dedicated AMD employees spent 470 hours planning and coordinating the charity dinner, which included a donation ceremony and a charity sale.
- > AMD Suzhou employees, family members and friends volunteered at the [Suzhou Social Welfare Home](#). The volunteers spent the day playing with the children, singing and kickboxing. The children were also provided with new clothing, gifts and snacks. Suzhou Social Welfare Home provides housing and schooling to more than 200 children with physical handicaps who are abandoned and have very limited contact with the outside world. An [AMD Team Development Grant](#) of \$500 USD was awarded to the Suzhou Social Welfare Home on behalf of the AMD Suzhou employees who volunteered.
- > Since 2010, AMD Suzhou employees have supported a plant-wide charity program called “**I on I Aid the Poor**” to help students complete basic education. In January 2012, six AMD employees visited the students in the Gaobang community and donated 22,000 CNY (\$3,498) to provide scholarships for 11 students.
- > In May 2012, 56 visitors from [Soochow University](#) visited the AMD Suzhou site to learn about AMD’s product test flow, technology and AMD’s corporate culture.
- > AMD Suzhou employees celebrated the upcoming Mid-Autumn Festival with senior citizens at the **Suzhou Social Welfare Home**. The volunteers visited the elderly clients with gifts of moon-cakes, towels and socks. An [AMD Team Development Grant](#) of \$500 USD was awarded to the Suzhou Social Welfare Home on behalf of the AMD Suzhou employees who volunteered.

EHS Performance

- > AMD Suzhou implemented several energy conservation projects, which cumulatively resulted in monthly savings of \$25,000 USD, 227,000 kWh and 187 metric tons of CO₂ emissions. Projects included equipment efficiency improvements and temperature setting adjustments.
- > In October 2012, AMD Suzhou employees participated in one or more activities during “QEHS Promotion Week.” Events included EHS-related training, lectures and activities including:
 - Sporting events hosted by the site sports committee including a rope skipping competition with 72 employees participating, and a badminton competition with about 30 employee participants.
 - Exterior lights turned off for one hour as part of “Earth Hour”.
 - Smoking areas closed during No Smoking Day.

- > The EHS Site Committee hosts a Safety Production Competition for all shift employees twice a year to promote safety awareness. Teams on each shift compete for the best safety performance and cash prizes.
- > AMD Suzhou also held numerous EHS employee events throughout the year, such as guest lecturers (120 attendees), blood drives (61 donors) and health checks (628 participants).

BEIJING

Sites: AMD Beijing

Year Established: 2004

Operations: Greater China Headquarters

Social Performance

- > To promote the progressive development of the cloud computing industry, AMD, in association with the **China Computer Industry Association** and **TechTarget**, launched online cloud computing courses in July 2012. More information on these courses is available [here](#) (Chinese only).
- > In May 2012, teachers from more than 50 colleges and universities in over 10 Chinese provinces and cities gathered to learn about the application of high-performance computing in their varied areas of expertise – physics, chemistry, biology, pharmacy, energy and geology to name a few. AMD sponsored the event in collaboration with the **Chinese Ministry of Education (MOE)**. Training materials can be accessed [here](#) (Chinese only).
- > AMD employees, friends and family members volunteered at **Beijing Sun Village**, a home for more than 100 children (ages 1-18) of incarcerated parents. The home aims to foster and educate the children by providing them a home, educational support, psychological consultancy, rights protection and vocational training. AMD Beijing donated \$8,100 (50,640 CNY), and employees also donated clothing, bed linen, toys and stationery. Volunteers spent the day visiting with the children, playing games and coloring pictures. Volunteers also harvested corn, which is grown on the Sun Village Farm and provides food year round.
- > AMD promotes the necessary skills for the next generation of China’s innovators, entrepreneurs and engineers. *AMD Changing the Game* provided funding for summer game design programs at the **Dandelion Middle School** in Beijing. The Dandelion School is focused on providing education to children of migrant workers. The program also provided “train the trainer” workshops for teachers and volunteers to continue the program as an in-school game design curriculum.
- > *AMD Changing the Game* activities also included summer game design camps held at **RDFZ**, a Beijing high school. Teachers were trained on game design tools and approximately 40 students created games on critical social issues.

EHS Performance

In 2012, AMD Beijing held a health check event, emergency response team (ERT) orientation and an ergonomics awareness campaign. The site also installed an automated lighting system to help conserve electricity.

TAIPEI

Site: AMD Taipei

Year Established: 1987

Operations: Business Services

Social Performance

- > AMD Taipei employees partnered with Yahoo Taiwan to paint several rooms in the [Taiwan Access For All Association](#) Sunable Home. The Home provides disability awareness workshops for school children; information on current debates, news and policies on disabilities; assistive technology and universal design concepts; and transportation, leisure activities and forums for discussions. An [AMD Team Development Grant](#) of \$500 was awarded on behalf of the employee volunteers.
- > AMD and Yahoo employees partnered with the [Reindeer Children Home](#) to host more than 30 children on a field trip to the local Culture Museum. The home provides shelter for children who had experienced family violence or abuse and takes care of the children's daily needs, including school studies, health nutrition and re-building their self-confidence.
- > In support of a **Taiwan Broadcasting Program** sponsored by Interchange Association Japan, AMD employees were interviewed on their efforts in support of the victims of the March 2011 earthquake and tsunami. AMD disaster relief efforts in 2011 included more than \$270,000 USD in donations, and shipment of food, medical supplies and critical items such like flashlights, hard hats, masks and emergency radios.

EHS Performance

- > Earth Week promotions at AMD Taipei included distributing potted plants to 380 employees, and sharing an email each day of the week with a quiz and prizes.
- > Employee training classes included general EHS awareness (80 participants) and ERT training (16 participants).
- > On World Health Day, 378 flu shots were administered to employees.

SHANGHAI

Site: Shanghai Research and Development Center

Year Established: 2006

Operations: Research and development facility established to promote innovation through increased technology partner and customer collaboration.

Social Performance

- > AMD Shanghai employees make quarterly visits to the [Pudong Special Education School](#) – which provides high-quality education for students who are disabled and deaf – helping them learn new skills and integrate into society. Employee volunteers hosted a field trip with more than 20 students to the China Art Museum where students' art work was displayed. An AMD Team Development Grant of \$500 USD was awarded to the school.
- > More than 100 employees joined 39 other companies and community groups and participated in the Zhangjiang Fun Run. This annual fun run raises funds for two local Community Center Shanghai charities: [Giving Tree](#), which provides winter clothing, blankets and school supplies to children in need, and [River of Hearts](#), which collects donated clothing, shoes, bedding and toys and distributes to those in need.

EHS Performance

- > About 50 employees participated in a long distance run at the Shanghai Research and Development Center (SRDC). A Sport Committee with approximately 50 people was also formed to organize future athletic events and opportunities at the site.
- > Earth Week promotions at AMD Shanghai included sharing an email each day of the week with a quiz and prizes.
- > The site went beyond Earth Hour by turning off the air condition units after office hours and on the weekend, achieving 2012 reductions of 40,000 kWh, saving \$3,600 USD, and 34 metric tons of CO₂ emissions.
- > A fire prevention training was held for ERT members (71 attendees).
- > The site promoted World Health Day and No Tobacco Day with educational communications.

THE AMERICAS



Number of Employees: 4,715 (as of February 2013).

The Americas is the largest AMD region in terms of employee count, with more than 4,700 employees. AMD headquarters are located in Sunnyvale, Calif., and our largest corporate campus is located in Austin, Texas. The region also includes a graphics R&D center in Markham, Canada; designs centers in Fort Collins, Colo., Bellevue, Wash., Boxborough, Mass. and Orlando, Fla., and four offices in Latin America.

This section covers the awards, and social and environmental performance of some of the major sites in the region.

2012 Site Awards

Austin

- > AMD won “Chairman's Choice” at the **Austin Chamber of Commerce** Business awards for performance across all categories, which included winning the Health & Wellness Award and being a Finalist in the “Environment” and “Community Affairs” categories for large businesses.
- > In February 2013, AMD Lone Star received an Excellence in Pretreatment Award from the **City of Austin Water Utility** for effectively preventing water pollution and managing wastewater discharge.
- > AMD received third place in 2011 Corporate Blood Drives from the **Blood Center of Central Texas** (awarded in 2012).
- > Bicycle Friendly Business Certification (bronze level) from the **American League of Cyclists** (2010-2015).

Fort Collins

- > For the fifth year in a row, AMD’s Mile High Design Center (MHDC) was awarded the Employee Impact Award for outstanding financial contributions and food donations in the annual corporate food fight benefiting the **Food Bank of Larimer County**.
- > Silver Level Partnership award in the **Fort Collins’ City Climate Wise Program** for 2011 (awarded in 2012), and the 2012 Gold Level Partnership award (awarded in February 2013).
- > Bicycle Friendly Business Certification (Bronze level) from the **American League of Cyclists** (2010-2015).

Sunnyvale

- > 2012 Clean Air Award – Transportation category – from **Breath California** for the AMD Sunnyvale commuter program.
- > AMD-Sunnyvale was recognized as one of the top 50 corporate philanthropists in Silicon Valley, in a listing published by the **San Jose Business Journal**.
- > AMD was honored by the **Sunnyvale Community Services (SCS)** at their annual Donor and Volunteer Recognition Event. The award was in recognition of AMD's long-standing support for the organization including an annual grant, regular volunteer events and donations during 2011. Sunnyvale Community Services is an independent, nonprofit emergency assistance agency with a mission to prevent homelessness and hunger for low-income families and seniors facing temporary crises.

Markham

- > 2012 **Smart Commute Workplace Designation** (Markham/ Richmond Hill) for effective promotion and use of alternative transportation.

BRAZIL AND LATIN AMERICA

An important region strategically for AMD, Latin America has a growing population coupled with rising household incomes. AMD's focus market in Latin America is Brazil, the biggest economy in the region and a country less impacted by the slowing growth of the PC market.

In Brazil, AMD is present in São Paulo and Brasília, Brazil's economic and political capitals, respectively. In Latin America, AMD has offices in Mexico City and Buenos Aires and maintains a permanent presence in several other countries of the region. The workforce focuses mainly on sales, marketing and engineering.

Among AMD's major customers, the Brazilian Federal government maintains several HPC clusters that are used for higher education, research and climate forecast, some of which have been expanded in 2012. Examples include:

- > The astronomy cluster at the University of São Paulo (**USP**), the largest astrophysics research facility in Brazil. View the [video](#).
- > The weather cluster at the Brazilian Center for Weather Forecasting and Climate Studies (**CPTEC**) of the National Institute for Space Research (**INPE**), a center that develops, produces and disseminates real-time weather forecasts. See the [video](#).
- > The HPC research facility at the Federal University of Rio Grande do Sul (**CESUP**) used in numerous academic research fields by researchers from all over the country and the world.

In addition to fostering innovation, AMD is also promoting the necessary skills for the next generation of innovators, entrepreneurs and engineers. For instance, AMD is supporting the Pontifical Catholic University in Rio De Janeiro in offering game design workshops in two schools as part of AMD's global initiative [AMD Changing the Game](#).

AUSTIN

Site: AMD Austin

Year Established: 1978 (Lone Star campus officially opened in 2008)

Operations: Corporate offices, research and development, design and sales

Social Performance

- > In honor of the one-year anniversary of the devastating wildfires that burned more than 32,000 acres in Bastrop County and destroyed more than 1,700 homes and structures, AMD Austin employees participated in a commemorative campaign sponsored by the **Arbor Day Foundation** and **Texas Parks and Wildlife** to raise money to plant trees in the region. Through the generosity of AMD employees and matching funds from the AMD Foundation, 3,220 trees will be planted in the region over the next five years.
- > For the past 15 years, AMD Austin and employees have supported the **Family Eldercare Annual Summer Fan Drive**, which distributes fans to low-income older adults, people with disabilities, and families with children with no air conditioning or who cannot afford the electricity to run the units during the intense summer heat. In 2012, employee gifts and AMD matching funds totaled more than \$13,000.
- > Every month, 30 AMD employees volunteer to distribute meals for **Meals on Wheels and More**, which offers programs designed to keep people healthy and living in their own homes. AMD provided grant funding in support of one route and employees volunteered more than 400 hours in 2012.
- > AMD supported **Oak Hill Elementary School** with funding for the Lego Robotic Program, and volunteers read with students in the **SOARING** reading program.
- > AMD supports teachers through funding to the **Del Valle ISD** Teacher of the Year program and the **Junior League of Austin's** Aid for Better Classrooms (ABC) Grants program. Science teaching fellowship summer stipends are also provided to **Breakthrough**, an organization that helps low-income students become first-time college graduates.
- > AMD, in partnership with 3M and the *Austin American-Statesman* has sponsored the **Excellence in Writing Scholarship Competition** since 1999. The purpose of the contest is to encourage student writing and creative thinking; to support student efforts in pursuing higher education; and to promote development of informed, intelligent newspaper readers. Each year, 45 AMD volunteers read and score essays submitted to this competition.
- > AMD Austin employees, family and friends spent the morning picking up trash in Southwest Austin. A total of 35 bags of trash/recyclables were collected, plus a mound of roof singles, two truck tires and a wedding dress. AMD received the **Keep Austin Beautiful (KAB)** "Weirdest Object Found" award for finding a wedding dress-complete with purse, veil and one shoe. An [AMD Team Development Grant](#) of \$500 was awarded to the KAB on behalf of the employees who volunteered for the 27th Annual KAB Clean Sweep event.

- > Employees and family members volunteered for the AISD (Austin Independent School District) **Adopt-A-School Paint Day**. Alongside volunteers from other companies, the AMD team helped paint stencils on the playground at Pleasant Hill Elementary promoting physical activity and good nutrition to children. An [AMD Team Development Grant](#) of \$500 was awarded on behalf of the employees who volunteered.
- > Volunteers unboxed non-perishable food items and then packed and shelved 300 grocery bags for the **Meals on Wheels HOPE program**. These groceries go to clients who are homebound, elderly and/or disabled. An [AMD Team Development Grant](#) of \$500 was awarded to [Meals on Wheels and More](#) on behalf of the Austin employees who volunteered.
- > AMD Austin employees and their families proudly wore their green volunteer t-shirts and participated in the **SXSW Eco Volunteer Event**. In just two hours, volunteers collected 825 pounds of trash from Waller Creek (41 bags of trash and five bags of recyclables); made 2,000 seed balls for Bastrop, which endured a devastating fire last year; and identified 34 invasive species for the [Lady Bird Wildflower Center](#). An [AMD Team Development Grant](#) of \$500 was awarded to Keep Austin Beautiful on behalf of the Austin employees who volunteered. [Learn how AMD mobilizes a green army here.](#)
- > The AMD Women’s Forum sponsored a clothing drive to benefit [Dress for Success Austin](#), a non-profit whose mission is to promote the economic independence of disadvantaged women by providing professional attire, a network of support and the career development tools to help women thrive in work and in life. During the month of October 2012 employees collected more than 450 items of clothing and, 76 pairs of shoes. Additionally, 20 AMD employees and their families participate in the sorting and delivery of the items.
- > AMD Austin employees volunteered their time to wrap nearly 1,000 presents for patients at the **Austin State Hospital (ASH)**. [ASH](#) provides psychiatric care and services to more than 4,000 adults and children in Austin and the surrounding area per year. The focus of recovery is stabilization for people with acute psychiatric illness and support of their return to the community.

EHS Performance

- > AMD’s LEED Gold Certified Lone Star campus continues to use no municipal water to irrigate landscaping on the 58-acre campus. In 2012, the 1.2 million gallon water harvesting system allowed the reuse over 29 million liters of water, 4.6 million liters of which went to irrigate the campus’s 100 percent native vegetation with another 24.5 million liters fed the site’s cooling towers. AMD’s Lone Star campus is powered by 100 percent renewable electricity and participates in Austin Energy’s GreenChoice® program.
- > Two lighting conservation projects were implemented at Lone Star that saved ~473,000 kWh and \$32,000 in 2012. These projects were supported by the “Smart-E Building” energy management tool that was added to the campus in 2011 to show historical and real-time electricity usage for the entire campus and individual buildings. The tool helps the site proactively manage energy consumption by identifying abnormalities in energy use patterns.
- > The AMD’s “Building 3” data center site reduced natural gas usage by 35 percent in 2012,

primarily from upgrading boilers with much more efficient models. The site's gas reductions amounted to nearly 11 million cubic feet, 564 metric tons of CO₂e emissions and \$42,000 in savings.

- > The Lone Star campus has improved its waste diversion rate (percentage of waste kept from the landfill) by 124 percent, going from 26 percent in 2009 to 59 percent in 2012. As part of its waste diversion efforts in 2012, the site expanded its kitchen food waste composting program to include discarded paper towels from all bathrooms as well as coffee grinds from the onsite coffee shop. In 2012, about 71 metric tons (~156,000 pounds) of organic waste was composted and diverted from landfills, saving over \$20,000 in waste hauling fees
- > The AMD Austin Green Team held an onsite "seed ball making" event to help with reforestation efforts in Bastrop whereby AMD employees made over 2,000 seed balls. A \$500 AMD Team Development Grant was awarded to the US Green Building Council – Central Texas Balcones Chapter.
- > Austin participated in World No Tobacco Day in May, providing smoking cessation resources and information.
- > Wellness@Work held an onsite wellness expo in September, attracting 170 attendees. During the expo, about 640 flu shots were given and nearly 300 biometric screenings were done.
- > The site also held spring and fall 5K walking/running events.

SUNNYVALE

Site: AMD Sunnyvale

Year Established: 1969

Operations: Corporate Headquarters

Social Performance

- > Every month AMD employees sort and package food for **Second Harvest Food Bank**. Second Harvest Food Bank is the primary source of donated, surplus and purchased food for non-profit agencies in Santa Clara and San Mateo counties. In 2012, AMD volunteers sorted, bagged and boxed more than 81,000 pounds of food.
- > AMD Sunnyvale employees participated in a volunteer event at **Resource Area For Teaching (RAFT)**. The group assembled more than 800 activity and incentive kits to support teaching STEM concepts in Bay Area schools. The event was conducted as a team-building event to enhance communications, leadership, project management and team work skills.
- > AMD's Sunnyvale Admin Council held its second annual drive to collect new and gently used work-appropriate clothing, shoes and accessories for women. The resulting donations were sent to [Career Closet](#) of Santa Clara County, a nonprofit organization designed to empower women who seek to re-enter the workplace by equipping them with everything they need to make a great first impression in the workplace.
- > AMD employees supported the **Vibha** Dream Mile 5k/10k/Half Marathon, the flagship event

for [Vibha](#), a volunteer driven non-profit organization working toward the cause of underprivileged children. An [AMD Team Development Grant](#) of \$500 was awarded to the Vibha on behalf of the employees who volunteered.

- > AMD volunteers unloaded trucks and stacked and distributed food to Sunnyvale families at the **Columbia Neighborhood Center**. The center supports and empowers youth and families that allow the children of the community to develop the life skills necessary to be successful in school and beyond. An AMD Team Development Grant of \$500 were awarded to Columbia Neighborhood Center on behalf of the employees who volunteered.
- > Employees hosted a spring party for the **Boys and Girls Club**-Levin Clubhouse. The party included an egg hunt, coloring eggs, making rice krispie eggs and an egg toss. AMD provided all the sandwiches, snacks and drinks and served them to the club members. An [AMD Team Development Grant](#) of \$500 was awarded to the Boys and Girls Club of Silicon Valley on behalf of the employees who volunteered.
- > Employees spent a day judging the annual [Tech Challenge](#) science competition where participants were challenged to create a solution to help earthquake survivors. The Tech Challenge is an annual engineering design event for students in grades 5-12, designed to inspire the next generation of Silicon Valley innovators. An [AMD Team Development Grant](#) of \$500 was awarded to the Tech Museum on behalf of the AMD employees who volunteered.
- > Employees volunteered as judges for the 2012 MESA Egg Express Competition. The San Jose State University **MESA Schools Program (MSP)** enables educationally disadvantaged students to prepare for and graduate from a four-year college or university with a math-based degree in engineering, the sciences, business or mathematics. An [AMD Team Development Grant](#) of \$500 was awarded to the MESA Program on behalf of the employees who volunteered.
- > AMD Sunnyvale employees collected, sorted and boxed 200 pairs of shoes for the **Soles4Souls** drive. Shoes are distributed to people in more than 125 countries, including Kenya, Thailand, Nepal and the United States.

EHS Performance

- > The second of two chillers was replaced at AMD's headquarters in Sunnyvale. Pacific Gas & Electric, which provided AMD a rebate for the project, estimates it will avoid over 27,300 kWh per year. Another site boiler was retrofitted with savings estimated at nearly 2,500 therms of gas per month, and 37 metric tons of CO₂ avoided in fourth quarter 2012.
- > AMD Sunnyvale's cafeteria composting program diverted about 5,700 pounds of organics from the landfill in 2012.
- > An AMD Sunnyvale Green Team was formed in mid-2011. In collaboration with TerraCycle, the group held an Earth Week initiative to collect end-of-life writing utensils and "up-cycle" them into other products.

- > AMD Sunnyvale held a Wellness@Work expo in September with 175 attendees. During the Expo, 211 employees received flu shots and 153 received health screenings.
- > Employees participated in World No Tobacco Day with smoking cessation resources and information, and 60 employees participated in a 5K to commemorate Health & Fitness Day.

MARKHAM

Site: AMD Markham

Year Established: 2006

Operations: AMD Canadian Headquarters and our largest graphics R&D center outside the United States

Social Performance

- > **AMD Changing The Game** hosted an AMD Kids Game Development Camp for about 40 students ages 13-16 over the summer. During August, AMD Markham employees interacted with the students at both York University, host site of the camp, and on the AMD Markham campus. Employees learned about the camp, tested the games and gave constructive feedback to the students. Students were shown AMD-developed computer demos and given a tour of the AMD facility.
- > AMD Markham employees participated in the 2012 Ride for Heart to raise funds and awareness for **The Heart and Stroke Foundation of Ontario** whose mission is to prevent heart disease and stroke. Through the generosity of AMD employees and the company match, over \$31,000 was raised for this cause.
- > AMD Markham participated in the **2012 United Way Dragon Boat event**. With 40 boats in the race, AMD teams brought home the Technology Industry Cup for the third time, as well as second and third place finishes.
- > For the fourth year, AMD Markham employees and family members participated in the Scotiabank Toronto Waterfront marathon/half marathon/5K race. Supporting [Giant Steps Toronto](#), the participants braved the rainy morning to participate in the race that took place during AMD's Global Volunteer Month. Giant Steps' mission is to build the skills and abilities of children with Autism Spectrum Disorder through academics, specialized therapies and integration.

EHS Performance

- > AMD Markham improved irrigation practices in 2012 after conducting several water audits in 2011 to better understand its indoor and outdoor water use. One major project was to reduce the watering schedule for one building from six to three days per week, an effort that will save on average over 100,000 liters of water per month.
- > In January 2012, the site expanded its organics collection program to include "post-consumer" food waste in the two main dining areas on campus. The site composted nearly 17 metric tons of organics in 2012, and improved its waste diversion from 57 percent in 2011 to 70 percent in 2012.

- > The employee Green Team in Markham helped promote an Earth Day Fair and lunch and learn in 2012. They also helped with a Commute Challenge Contest during Commute Solutions month whereby raffles were held among those using alternative transportation.
- > AMD participated in SmartCommute's Carpool Week, Clean Air Commute Contest and Bike to Work Day.
- > Wellness@Work in Markham held a series of nutrition discussions. Topics included:
 - Super Foods for Optimal Health and Performance
 - Look at the Label!
 - Healthy Eating on the Go
 - Healthy Weights
 - Healthy Eating for an Active Lifestyle
 - What's in your Child's Lunch Bag?
- > In May 2012, AMD Markham participated in World No Tobacco Day with smoking cessation resources and information.
- > AMD Markham organized a series of wellness challenges throughout the year to encourage employee fitness.
 - Three-week fitness challenge in October 2012. This included a point system for a variety of challenges including weight loss and volunteer and fitness events where teams could gain points toward winning the event.
 - Healthy heart challenge in March/April 2012. Eight teams with four employees each participated in a 5k run, education seminars and weekly physical activity challenges.
 - Use it or lose it challenge in October. Forty-eight employees participated in strength, cardio and speed challenges and education trivia on metabolism and age-related muscle loss.
 - 12 Days of Fitness Before Christmas Challenge in December 2012. Eighteen employees participated in a series of 12 exercises to be done on the 12 days before Christmas. Goal was to reduce the time to complete the 12 exercises from day one to day 12.
- > The site's Wellness@Work expo in October attracted about 250 attendees, 129 of which received flu shots.

ASIA PACIFIC



Number of Employees: 2,426 (as of February 2013)

This region is home to an AMD manufacturing facility located in Penang, Malaysia, and engineering centers located in Bangalore and Hyderabad, India focusing on AMD's low-power SoC designs, currently our largest selling product.

This section covers the awards, and social and environmental performance of some of the major sites in the region.

2012 Site Awards

Singapore

- > “Certificate of Environmental Accomplishment” for participating in Shred-It’s Shredding and Recycling Program.
- > “Commendation Award” from the National Safety and Security Watch Group.

MALAYSIA

Site: AMD Penang

Year Established: 1972

Operations: Assembly, test and manufacturing process development for AMD microprocessors

Site: AMD Cyberjaya

Year Established: 2008

Operations: Business Services

AMD Malaysian operations remain a strategic part of AMD global business operations. The AMD Penang facility was established in 1972, and was the first AMD advanced C4 “flip chip” assembly facility outside North America. Today, the facility has evolved into a state-of-the-art microprocessor assembly, test and R&D facility. AMD expanded operations in 2008 by obtaining MSC Malaysia-status with additional operations in Penang and Cyberjaya. These sites serve and support AMD’s internal global network in areas such as finance and accounting, IT, human resources, procurement and other business services.

Promoting ICT Development

AMD Malaysia collaborates with the Malaysia government and its agencies to promote sustainable ICT development. Some examples include the following:

- > **MSC Malaysia Annual International Advisory Panel (IAP) chaired by Malaysia Prime Minister.** MSC Malaysia IAP serves as a government platform to receive feedback and input from the local and international industry leaders for the development of Malaysia ICT. AMD's Senior Vice President and Chief Financial Officer Devinder Kumar, is one of the international contributors to this instrumental dialogue.
- > **Malaysian Cybergames Operations and Research (MyCORE):** MyCORE is a component of the Cyberjaya Creative Multimedia initiative and serves as a test-bed and conducive platform for collaborative efforts between various segments of the online, socially responsible games industry. AMD is a technology partner to MyCORE and supports more than 100 AMD-based PCs at their Cyberjaya facility. Various programs endorsed by Ministry of Education are being implemented at this facility.
- > **Cloud Computing Dialogue.** AMD was a major sponsorship of the 2012 World Congress on Information Technology, which brought together industry leaders, academia and public policy makers from around the world. In partnership with the Multimedia Development Corporation ([MDeC](#)), an agency under the Ministry of Science Innovation and Technology, AMD's former Chief Information Officer (CIO) Mike Wolfe hosted a dialogue session on cloud computing with Malaysian leaders. Participants included industry players from local telco providers, OEM partners, cloud system integrators, cloud application and training providers and government agencies.
- > **Industry Development Programs.** AMD participates in various industry development programs organized by the government, professional bodies and universities to build skills in the next generation of semiconductor and IT workforce.

Social Performance

- > AMD Penang Global Services, in partnership with the **Penang Rotary Club**, donated 100 refurbished PC's to nine schools and a children's home in Northern Malaysia. An [AMD Team Development Grant](#) of \$500 was awarded to the [Penang Rotary Club](#) on behalf of the employees who volunteered. The Penang Rotary Club, is a worldwide organization of business and professional leaders that provides humanitarian service, encourages high ethical standards in all vocations, and helps build goodwill and peace in the world.
- > AMD Cyberjaya employees conducted the first of six AMDiHati IT workshops for the MyKasih Foundation. AMD volunteers coordinated and trained 40 children, ages 9-12 years, on the following basic IT modules: a) Computer basics – CPU, Monitor, Keyboard, Mouse b) Microsoft Office Basics (MS Word, MS PowerPoint) and c) typing (games) and drawing (MS Paint). An [AMD Team Development Grant](#) of \$500 was awarded to the **MyKasih Foundation** on behalf of the employees who volunteered. [MyKasih Foundation](#) aims to establish loving and caring neighborhoods all over Malaysia and the world, and to help poor and needy families achieve more independence and give their children a chance to break out of the cycle of poverty.
- > In September 2012, 15 AMD Cyberjaya employees participated in **AVON Say Good Bye To Breast Cancer Charity Walk** in Putrajaya. This 4.5 km walk creates breast cancer awareness

and aims to establish a new record in the Malaysia Book of Records as the largest participation breast cancer charity walk in Malaysia. An AMD Team Development Grant of \$500 was awarded to the AVON Say Good Bye to Breast Cancer Charity Walk on behalf of the employees who volunteered.

- > AMD Cyberjaya employees spent an afternoon entertaining, playing games, singing songs and getting to know the 70 children living at **Peribadi Muli Orphanage**. Employees generously donated clothing, books, toys and collected \$600 for the children. An [AMD Team Development Grant](#) of \$500 was awarded to the Peribadi Muli Orphanage Home on behalf of the employees who volunteered.
- > In conjunction with Global Volunteer Month in October 2012, 22 Cyberjaya employees registered for the **2012 World Hunger Relief Charity Walk** in Support of World Hunger Relief 2012.

EHS Performance

- > To celebrate Earth Day, 80 Penang employees volunteered at the Mangrove Small Education Center to plant mangrove tree saplings for environmental protection. Mangrove trees are planted along strategic areas of the shoreline to serve as buffers against strong winds and tidal waves. AMD Penang donated \$1,500 to the **Penang Inshore Fisherman Welfare Association (PIFWA)** to further their environmental work and to promote traditional and sustainable fishing practices and prudent management of the coastal environments, mangrove habitats and river ecosystems. For Earth Week in April 2012, Cyberjaya site employees participated in the Cyberjaya “Recycling Challenge,” a competition among businesses to see who can recycle the most.
- > In May 2012, AMD Penang and Cyberjaya site employees participated in **World No Tobacco Day** by providing smoking cessation education and information to employees and closing the smoking area for the day. A lecture titled “The Danger of Smoking To Our Body & Health,” was held at the Cyberjaya site.
- > The Penang site promoted “EHS Week” in November 2012, with several activities that included blood screenings (82 participants), sporting events and blood donations.
- > Cyberjaya site employees launched a new chapter of the AMD Women’s Forum.
- > AMD Penang implemented seven energy improvement projects which saved more than 600,000 kWh of electricity and 328 metric tons of CO₂e emissions in 2012. Two chiller upgrades to compressor-less systems chiller amounted to the majority of the reductions.
- > The Penang site launched an EHS hotline to facilitate employee reporting on EHS issues or concerns.
- > The Cyberjaya site implemented an energy conservation project to switch off lights and HVAC unit at night, conserving nearly 4,000 kWh per month.

SINGAPORE

Site: AMD Singapore

Year Established: 1984

Operations: Transitioned from test, mark and pack for AMD microprocessors to research and development in 2012.

Social Performance

- > During one week in April, AMD Singapore employees donated a total of 145 kg (320 pounds) of clothes during a donation drive. The **Salvation Army** helps needy people through its wide range of social and community programmes. The income generated from their Family Thrift Stores supports Salvation Army social and community programs.
- > Sixteen brave AMD employees volunteered to have their heads shaved for the [Hair for Hope](#) initiative, which raises funds for the **Children's Cancer Foundation (CCF)**. AMD donated \$8,671 SGD (\$6,936 USD) including employee donations and corporate match to the CCF. An AMD Team Development Grant of \$500 was also awarded on behalf of the employees who volunteered. CCF is a nonprofit organization with a mission of improving the quality of lives of children with cancer and their families by enhancing their emotional, social and medical well-being.
- > AMD's annual Singapore Charity Golf Tournament benefiting **East Coast Primary School (ECPS)** was a huge success. AMD Singapore succeeded in rallying 62 industry partners for a common cause and raised \$110,000 SGD (\$87,860 USD) to refurbish and redesign the ECPS library. This is an annual major fundraiser that is entirely planned, organized and run by an AMD Community Service Committee.
- > AMD Singapore employees joined the **APEX Club** of Singapore to provide food to needy families at Redhill Close. The APEX club is a non-political and non-sectarian community service organization that provides young civic-minded people the opportunity to volunteer within the community as well as develop personally through club run schemes such as public speaking competitions.

EHS Performance

- > AMD Singapore established an employee Green Team in 2011 to help promote awareness and involvement in environmental protection and personal sustainability. Site events in 2012 included EHS Week with 92 participants completing health screens, 59 units of blood collected, and 145 kg of clothes donated to Salvation Army.
- > Energy conservation initiatives completed in 2012 included lighting projects and turning off unused equipment in order to save approximately \$27,000 USD, conserving 134,000 kWh and avoiding 69 metric tons of CO₂e emissions.
- > Waste reduction efforts included expanded paper recycling, composting food scraps, and recycling or reusing product trays. These projects helped divert 94 metric tons of waste from the landfill and saved the site over \$48,000 in 2012.

- > The water conservation project AMD Singapore implemented in 2011 to upgrade all water taps with low flow regulators continued to deliver reductions in 2012, including more than 5,050 cubic meters of water and \$8,700 in savings.

INDIA

Site: India Design Center, Bangalore

Year Established: 2004

Operations: Research and development and design focusing on AMD's graphics and computing solutions

Site: Hyderabad

Year Established: 2008

Operations: Research and development and design focusing on AMD's graphics and computing solutions

Engineering centers located in Bangalore and Hyderabad, India focus on AMD's low-power SoC designs, currently AMD's largest-selling product. With the second largest population in the world and rising household incomes, India is expected to emerge as one of the top five markets for AMD products by the middle of the decade.

Social Performance

- > AMD Bangalore employees braved the heat and humidity and participated in a 10 km run to raise awareness and funds for charities that have close ties to the Bangalore site. The employees also raised more than \$2,000 for the charities and AMD fully matched those donations.
 - [Asha](#) – Education of under privileged children
 - [CRY](#) – Children's rights
 - [Goonj](#) – Community development
- > AMD Hyderabad Community Team volunteers joined the efforts of [Youth For Seva \(YFS\)](#) to provide needy children access to basic literacy skills and skills-based training. They visited villages and distributed more than 550 school kits comprised of a school bag and supplies, and a plate for midday meals.
- > AMD Hyderabad volunteers implemented two volunteer events to celebrate the Joy of Giving Week, a "festival of philanthropy" that aims to become a part of the Indian ethos.
 - The team visited the **Sri Sarawathi Shishu Mandir School**, talked with the students, played games and distributed books and clothing donated by employees. The team also met with the school principal and teachers to better understand their needs. For the 2012 – 2013 Academic year, the AMD Community Team will underwrite the school fee for six underprivileged students.
 - At the **Vivekananda Convent High School**, the volunteers organized a painting competition and had the opportunity to award outstanding scholars from first through fifth standard. All the students received small gifts from the volunteers, which included color pens, water bottles, Tiffin boxes and some study materials. Before leaving the school, the team met with the school principal to determine the type of help needed.

- > 125 units of blood were donated by Hyderabad employees for **Thalassemia & Sickle Cell Society** – Vuppala Venkaiah Memorial Blood Bank.

EHS Performance

- > In support of Earth Week, the **Hyderabad eCop** (Green Team) volunteers and the site's EHS Team conducted an environment awareness campaign for employees that included organized stalls for eco-friendly products like mugs, water bottles and cloth bags; plants sold for a discounted price; a guest speaker event with the Director of Urban Forestry; and a demonstration of power-saving equipment and energy-saving tips.
- > The Bangalore site launched AMD's commuter benefits program in 2012 that included providing several shuttles bringing employees to/from work, and providing carpool matching. Sixty employees logged savings of 9,250 miles avoided.
- > AMD Bangalore recycled nearly 5,000 kg of materials, which included food waste. In addition, the site completed a lighting efficiency project that received a government rebate and saves approximately 11,000 kWh and \$1,000 USD per month. AMD Hyderabad also recycled more than 4,000 kg of material including paper, cardboard and cans.

EUROPE, THE MIDDLE EAST AND AFRICA (EMEA)



Number of Employees: 261 (as of February 2013)

The EMEA region represents a large market for AMD products and solutions with AMD design centers located in Tel Aviv, St. Petersburg and Kiev.

In Europe, AMD has a presence in 10 countries with the bulk of AMD processors manufactured through a foundry company in Dresden, Germany. The remainder of this section focuses on the social and environmental activities in Europe.

EUROPE

In Europe, AMD is at the very core of today's digital lifestyles for millions of consumers, providing processing and graphics power for computing devices, embedded and gaming systems, digital devices and cloud servers used every day in work and play. Our high performance, power efficient supercomputing solutions also help European scientists advance university R&D. At the University of Frankfurt's Institute for Advanced Studies (FIAS), the SANAM supercomputer is powered by AMD technology and redefines supercomputing with its incredible power efficiency. This supercomputer is used in theoretical physics research and ranked number two on the [Green500™ List](#) (November 2012)¹.

Engaged Corporate Citizen

AMD continues to serve as an advocate for open market access and adoption of open platforms, working with many EU government bodies and the European Commission on developing procurement guidelines that promote competition in public tenders and prevent the use of proprietary technology that creates vendor lock-in. In this spirit AMD has contributed actively to the development of a revised European Procurement Directive.

In addition to fostering innovation within the industry, AMD is also promoting the necessary skills for the next generation of European innovators, entrepreneurs and engineers. For instance, in Dresden, Germany, we support the Dresden Media and Culture Center (DMCC) in offering regular game design workshops as part of AMD's global initiative *AMD Changing the Game*. The program promotes STEM learning in kids and has already attracted well over 1,000 young people in Dresden since its 2011 kick-off.

¹ AMD press release "AMD FirePro Server Graphics Redefining Supercomputing Performance through Power Efficient, Sustainable Technology."

“AMD Changing the Game has greatly inspired us to create a curriculum at the DMCC that takes the natural interest and curiosity of young people in technology and gaming, and transforms it into conscious reflection of their social environment. As a result of the program, some participants have already decided to pursue a scientific or technical career after school.”

—Almuth Frommhold, project lead of AMD Changing the Game at the DMCC

Cloud Computing and Server Technology

To advance the adoption of cloud computing and virtualization technology in Europe, AMD champions implementation in public agencies and actively contributes to the European Cloud Computing Strategy published in September 2012. We have also worked with many industry consortia, governments and ecosystem partners in Europe and globally to further innovation in Cybersecurity and to strive for more power efficiency in ICT.

AMD provides the server infrastructure of four of the five largest internet hosters in Europe, enabling an ever-increasing number of users while keeping energy consumption and space requirements for their enormous data centers in check¹. Our server technology is also currently used for check-in systems for 4,000 hotels in 30 countries worldwide. By using AMD technology, global business application service provider “MICROS-Fidelio” is able to reduce energy cost and maintain a 24/7/365 service schedule globally.

European Manufacturing

For over a decade, the bulk of AMD’s microprocessors have been manufactured in the very heart of the European semiconductor industry – Dresden, Germany. In 1995, AMD announced our plans to build a semiconductor mega-fab in Dresden, laying the foundation for “Silicon Saxony” – today one of the largest semiconductor clusters in Europe. Since then, AMD’s multi-billion dollar investments have created more than an estimated 8,000 new jobs directly or indirectly in Dresden.

In 2008, AMD spun off manufacturing to GLOBALFOUNDRIES, which is the second-largest independent semiconductor foundry in the world and the fastest growing semiconductor company in 2012². GLOBALFOUNDRIES continues to be a major foundry supplier of AMD microprocessors.

AMD and GLOBALFOUNDRIES work closely in achieving sustainable and resource efficient manufacturing in Dresden. EHS goals and metrics are reviewed on a quarterly basis and compliance is assessed against current and future anticipated regulations, e.g. the restriction of hazardous substances and conflict minerals. The companies have also partnered on a carbon footprinting of semiconductor products, and provided support for a project with the Massachusetts Institute of Technology (MIT) to investigate the applicability of the Product Attribute to Impact Algorithm (PAIA) tool to semiconductor devices. This tool is intended to provide standardized measurement of the environmental impact of semiconductor components computing technologies and provide insight into reducing that impact. The European Commission’s Directorate-General for Communications Networks, Content and Technology

¹ AMD case studies: [Intergenia](#), [I&I](#), Host Europe, Strato

² IC Insight – The McClean Report 2013 <http://www.icinsights.com/news/bulletins/Samsung-Jumps-To-3-In-2012-Foundry-Ranking-Has-Sights-Set-On-2-Spot-In-2013-/>

has expressly acknowledged AMD's efforts in that area, based on our support for the Commission's 2012 pilot-testing of ICT-footprint methodology standards.

DATA TABLES

LABOR

	2008 ¹	2009	2010	2011	2012
Employee Data					
Number of Employees.....	14,651	10,352	11,068	11,093	10,340
Americas	43%	52%	52%	50%	50%
Asia-Pacific/China/Japan	37%	45%	45%	48%	48%
Europe/Africa	20%	3%	3%	2%	2%
Senior Management.....					
Male	89%	88%	89%	89%	87%
Female	11%	12%	11%	11%	13%
Employee Total (Female).....	31%	31%	31%	29%	28%
Americas (Female).....	21%	20%	20%	19%	20%
Asia-Pacific/China/Japan (Female).....	48%	44%	43%	38%	36%
Europe/Africa (Female).....	19%	32%	30%	28%	26%
Employee Total (Age).....					
Generation Y (born 1980-2000).....	n/a	26%	28%	33%	38%
Generation X (born 1965-1979).....	n/a	51%	50%	48%	46%
Baby Boomers (born 1946-1964).....	n/a	22%	21%	18%	15%
Traditionalists (born 1927-1945).....	n/a	<1%	<1%	<1%	<1%
Employee Type.....					
Exempt.....	81%	82%	83%	87%	88%
Non-Exempt.....	19%	18%	17%	13%	12%
Employee Change					
Americas	(11%)	(29%)	7%	0%	(7%)
Asia-Pacific/China/Japan	(13%)	(13%)	7%	(5%)	(11%)
Europe/Africa	(10%)	(14%)	8%	5%	(2%)
Europe/Africa	(8%)	(20%)	(1%)	14%	(22%)
Employee Turnover².....					
Americas	20%	27%	12%	24%	28%
Americas	23%	24%	8%	21%	28%
Asia-Pacific/China/Japan	25%	28%	16%	27%	27%
Europe/Africa	2%	48%	15%	10%	43%
New Hires					
Americas	1,384	1,087	2,342	2,729	2,151
Americas	42%	49%	40%	33%	37%
Asia-Pacific/China/Japan	52%	43%	55%	64%	61%
Europe/Africa	5%	8%	4%	3%	2%

LABOR continued

	2008 ¹	2009	2010	2011	2012
New Hires by Age					
Generation Y (born 1980-2000)	40%	37%	43%	55%	59%
Generation X (born 1965-1979).....	46%	47%	44%	37%	33%
Baby Boomers (born 1946-1964)	13%	16%	13%	8%	8%
Traditionalists (born 1927-1945)	1%	<1%	<1%	<1%	<1%
Return to work rates after parental Leave					
Male	100%	100%	98%	95%	95%
Female	100%	94%	75%	81%	69%
Well-Being^{3, 4}					
Worldwide Injury and Illness Case Rate (per 100 workers)	0.33	0.28	0.17	0.32	0.18
AMD U.S. Injury and Illness Case Rates (per 100 workers)	0.31	0.29	0.20	0.58	0.14
OSHA Case Rate - Private Industry.....	3.9	3.6	3.5	3.5	n/a
OSHA Case Rate - Computer/Electronic Product Mfg.....	1.8	1.6	1.5	1.4	n/a
OSHA Case Rate - Scientific/Technical Services.....	0.0	1.2	1.0	1.0	n/a
U.S. Lost Work Days Case Rate (per 100 workers) ⁵	0.03	0.00	0.03	0.03	0.00
Volunteerism⁶					
AMD Volunteers.....	1,017	1,209	1,573	1,534	1,202
AMD Volunteer Hours.....	8,114	10,677	12,000	12,693	7,735
Number of Volunteer Events.....	109	138	197	253	196
Units of Blood Donated.....	1,599	1,681	1,336	1,332	1,005

Notes:

Not available = n/a

1. Data from 2008 include contributions from assets transferred to GLOBALFOUNDRIES in March 2009.
2. Employee turnover rates for 2008-2011 were incorrectly reported in previous reports and included only employees who voluntarily left the company. The numbers shown reflect the corrected values.
3. Minor (first aid level) injuries are not included.
4. Our reporting guidelines are based on OSHA reporting criteria.
5. Lost days are calculated based on scheduled work days.
6. Numbers include contributions from AMD employees and contractors.

ECONOMIC

	2008	2009	2010	2011	2012
Total Revenue (In millions) ¹	\$ 5,808	\$ 5,403	\$ 6,494	\$ 6,568	\$ 5,422
Research & Development (In millions) ¹	\$ 1,848	\$ 1,721	\$ 1,405	\$ 1,453	\$ 1,354
Net Income (In millions) ¹	\$ (3,098)	\$ 293	\$ 471	\$ 491	\$ (1,183)
Social Investment					
AMD Foundation	\$ 330,000	\$ 660,895	\$ 1,675,809	\$ 2,649,564	\$2,646,333
AMD, Inc. (USD)	\$ 3,331,040	\$ 1,564,393	\$ 1,525,151	\$ 1,561,711	\$560,245
Cash and In-Kind by Region					
Americas	\$ 3,182,085	\$ 2,086,308	\$ 2,878,218	\$ 3,849,609	\$3,032,294
Europe/Africa ²	\$ 149,942	\$ -	\$ -	\$ 125,623	\$51,903
Asia-Pacific/China/India	\$ 329,014	\$ 138,980	\$ 322,742	\$ 236,043	\$122,381
Cash and In-Kind by Category					
Education ³	\$ 1,269,092	\$ 1,203,428	\$ 2,532,538	\$ 2,935,483	\$2,172,949
Basic Needs ⁴	\$ 312,657	\$ 86,009	\$ -	\$ -	\$ -
Community Development	\$ 1,283,305	\$ 935,851	\$ 668,423	\$ 1,275,792	\$1,033,628
Environmental Benefits					
Cash for Previous Metal Reclaim (USD)	\$5,130,245	\$ 2,709,995	\$1,855,641	\$ 2,547,657	\$ 1,468,585
Cash for Tray Reuse and Recycle (USD)	n/a	n/a	n/a	\$ 711,496	\$ 270,162
AMD Political Action Committee (PAC)					
Disbursements ⁵	\$ 2,900	\$ 13,800	\$ 2,500	\$ 3,500	\$ 3,500

Notes:

Not available = n/a

1. Economic data for current and past years are updated annually to reflect AMD's most recent financial reports.
2. AMD's giving in Europe/Africa decreased from 2009 to 2010, with the transfer of wafer manufacturing assets located primarily in Dresden, Germany.
3. For a breakdown of AMD expenditure on infrastructure investments and services as part of the *AMD Changing the Game* program, please see Table 5.
4. In 2010, the Basic Needs category was combined with the Community Development category.
5. Totals shown are U.S. disbursements made by the AMD PAC and available on the FEC website at <http://www.fec.gov/disclosure.shtml>.

ENVIRONMENTAL

	2009 ¹	2010	2011	2012
Energy				
Energy Use (Direct and Indirect, Tj)	1,800	1,703	1,703	1,566
Energy Use (Direct and Indirect, GWh)	500	474	473	436
ATMP Energy Use (GWh)	224	179	185	124
Penang	37	47	61	60
Singapore	148	90	74	n/a
Suzhou	39	42	50	63
Normalized ATMP Energy Use (kWh/PI) ²	1.14	0.96	1.00	n/a
Non-Manufacturing Energy Use (GWh)	276	295	288	255
Austin	158	184	177	144
Markham	34	33	35	36
Sunnyvale	32	33	31	33
Others sites combined	53	45	45	42
Singapore 2012 Energy Use (GWh) ³	n/a	n/a	n/a	57
Renewable Energy Use (GWh) ^{4,5}	69	67	74	62
Non Renewable Energy Use (GWh)	430	407	399	373
Total Energy/Revenue (kWh/\$)	0.09	0.07	0.07	0.08
Energy Conservation (kWh)	n/a	n/a	5,282,698	7,934,003
Austin	n/a	n/a	168,000	473,170
Markham	n/a	n/a	4,435	13,306
Sunnyvale	n/a	n/a	117,292	234,551
Penang	n/a	n/a	570,240	664,854
Singapore	n/a	n/a	3,045,167	133,938
Suzhou	n/a	n/a	1,377,564	6,271,420
Electricity Use (Indirect Energy, Tj)	1,447	1,253	1,303	1303
Electricity Use (Indirect Energy, GWh)	402	348	362	362
ATMP Electricity Use (GWh)	223	178	185	124
Penang	37	47	61	60
Singapore	148	90	74	n/a
Suzhou	38	41	50	63
Non-Manufacturing Electricity Use (GWh)	179	170	177	182
Austin	69	67	74	79
Markham	30	29	30	32
Sunnyvale	28	29	27	29
Others sites combined	53	45	45	42
Singapore 2012 Electricity Use (GWh) ³	n/a	n/a	n/a	57

ENVIRONMENTAL, continued

	2009 ¹	2010	2011	2012
Energy Use (Direct, Tj)	353	450	400	263
Energy Use (Direct, GWh) ⁵	98	125	111	73
ATMP Direct Energy Use (GWh).....	1	1	<1	<1
Penang.....	<1	<1	<1	<1
Singapore.....	<1	<1	<1	n/a
Suzhou.....	1	1	<1	<1
Non-Manufacturing Direct Energy Use (GWh).....	7	125	111	73
Austin	89	117	103	65
Markham.....	5	4	5	4
Sunnyvale.....	4	4	4	4
Others sites combined	<1	<1	<1	<1
Singapore 2012 Direct Energy Use (GWh) ³	n/a	n/a	n/a	<1
GHG Emissions				
Scope 1 GHG Emissions (MTCO ₂ e).....	37,513	26,628	45,014	41,175
ATMP Scope 1 GHG Emissions (MTCO ₂ e)	32,647	21,857	38,729	26,025
Penang.....	23	54	153	3,217
Singapore.....	27,659	17,553	21,163	na
Suzhou.....	4,965	4,249	17,413	22,808
ATMP Normalized Scope 1 GHG Emissions (kgCO ₂ e/PI)	0.17	0.12	0.21	0.20
Non-Manufacturing Scope 1 GHG Emissions (MTCO ₂ e).....	4,866	4,771	6,285	3,595
Austin	1,880	2,931	2,206	1,494
Markham.....	838	708	3,044	727
Sunnyvale.....	1,693	792	757	676
All other sites combined	454	340	278	698
Singapore 2012 Scope 1 GHG Emissions (MTCO ₂ e) ³	n/a	n/a	n/a	11,555
Scope 2 GHG Emissions (MTCO ₂ e).....	163,699	140,384	146,623	158,805
ATMP Scope 2 GHG Emissions (MTCO ₂ e)	118,133	97,692	106,569	85,421
Penang.....	17,939	25,235	32,382	33,091
Singapore.....	68,105	38,128	32,411	n/a
Suzhou.....	32,089	34,330	41,777	52,330
ATMP Normalized Scope 2 GHG Emissions (kgCO ₂ e/PI)	0.604	0.526	0.575	0.651

ENVIRONMENTAL, continued

	2009 ¹	2010	2011	2012
Non-Manufacturing Scope 2 GHG Emissions (MTCO ₂ e).....	45,565	42,692	40,053	44,160
Austin.....	0	0	485	13,447
Markham.....	6,253	5,093	4,141	1,359
Sunnyvale.....	6,534	7,706	5,085	4,914
All other sites combined.....	32,779	29,892	30,342	24,440
Singapore 2012 Scope 2 GHG Emission (MTCO ₂ e) ³	n/a	n/a	n/a	29,224
Scope 1 and 2 GHG Emissions (MTCO ₂ e)	201,212	167,012	191,637	199,979
ATMP GHG Emissions (MTCO ₂ e).....	150,780	119,549	145,298	111,446
ATMP Normalized GHG Emissions (kgCO ₂ e/PI).....	0.77	0.64	0.78	0.85
Goal.....	0.73	0.73	0.73	0.73
Non-Manufacturing GHG Emissions (MTCO ₂ e).....	50,432	47,463	46,338	47,755
Goal.....	47,910	47,910	47,910	47,910
Singapore GHG Emissions 2012 (MTCO ₂ e) ³	n/a	n/a	n/a	40,779
GHG Emissions/Revenue (kgCO ₂ /\$)	0.04	0.03	0.03	0.04
SCOPE 3 GHG Emissions (MTCO ₂ e).....	363,728	286,840	441,345	466,036
Contract Manufacturers ⁶	308,264	239,605	388,624	424,189
Business Travel.....	4,945	10,664	18,647	14,484
Employee Commutes.....	19,325	13,666	13,913	11,323
Product Logistics/Shipping.....	31,194	22,905	20,161	16,040
Water⁷				
Water Use (million liters).....	776	877	890	868
ATMP Water Use (million liters).....	459	547	577	504
Penang.....	216	325	320	329
Singapore.....	150	140	121	n/a
Suzhou.....	92	82	136	175
ATMP Normalized Water Use (liters/PI).....	2.34	2.94	3.11	3.84
Water Goal (liters/PI).....	1.88	1.88	1.88	1.88
Non-Manufacturing Water Use (million liters).....	311	320	313	364
Austin.....	173	159	160	122
Markham.....	44	63	66	46
Sunnyvale.....	88	87	71	84
Other sites combined ⁸	6	10	16	24
Non-Manufacturing Normalized Water Use (liters/employee) ⁹	53,736	51,200	45,754	39,910
Water Goal (liters/employee)	42,989	42,989	42,989	42,989
Singapore Waste Use 2012 (liters) ³	n/a	n/a	n/a	87
Contract Manufacturing (million liters).....	n/a	n/a	3,506	5,152

ENVIRONMENTAL, continued

	2009 ¹	2010	2011	2012
<i>Water Use/\$ Revenue</i>	0.14	0.14	0.14	0.16
<i>Water Conservation (million liters)</i>	n/a	n/a	19.7	49.7
Austin.....	n/a	n/a	4.2	29.5
Markham.....	n/a	n/a	0	0.6
Penang.....	n/a	n/a	12.1	14.5
Singapore.....	n/a	n/a	3.4	5.1
Waste				
<i>Non-Hazardous Waste (NHW) Generated (metric tons)</i>	1,953	2,070	2,126	1,730
ATMP NHW Generated (metric tons)	840	753	744	497
Penang.....	263	226	227	187
Singapore.....	210	263	216	n/a
Suzhou.....	367	263	301	309
Non-Manufacturing NHW Generated (metric tons)	1,114	1,317	1,382	1,233
Austin.....	349	588	375	291
Markham.....	382	244	363	327
Sunnyvale.....	383	485	644	455
Singapore NHW Generated 2012 (metric tons) ³	n/a	n/a	n/a	161
<i>NHW Recycled (metric tons)</i>	783	1,050	1,209	1,109
ATMP NHW Recycled.....	269	318	367	261
Non-Manufacturing NHW Recycled.....	514	732	841	848
<i>NHW Landfilled (metric tons)</i>	1,171	1,020	917	621
ATMP NHW Landfilled.....	571	434	377	236
Non-Manufacturing NHW Landfilled.....	600	585	540	385
<i>NHW Landfill Diversion Rate (%)</i>	40%	51%	57%	64%
<i>Landfill Diversion Goal Rate (%)</i>	70%	70%	70%	70%
<i>Contract Manufacturing NHW Generated (metric tons)</i>	n/a	n/a	7,156	5,738
<i>Hazardous Waste (HW) Generated (metric tons)</i>	48	49	96	151
ATMP HW Generated (metric tons).....	47	49	95	147
Penang.....	44	47	93	95
Singapore.....	3	1	1	n/a
Suzhou.....	1	1	<1	52
Non-Manufacturing HW Generated (metric tons).....	1	1	1	3
Austin.....	<1	<1	1	<1
Markham.....	<1	<1	<1	2
Sunnyvale.....	<1	<1	<1	1
Singapore HW Generated 2012 (metric tons) ³	n/a	n/a	n/a	1
<i>HW Recycled/Reused (metric tons)</i>	44	46	93	102

ENVIRONMENTAL continued

	2009 ¹	2010	2011	2012
ATMP HW Recycled/Reused	44	46	93	99
Non-Manufacturing HW Recycled/Reused.....	<1	<1	1	3
HW Treated Off-Site (metric tons)	4	3	2	49
ATMP HW Treated Off-Site	3	2	2	48
Non-Manufacturing HW Treated Off-Site.....	0.5	0.6	0.2	1
HW Landfilled (metric tons).....	0.20	0.13	0.10	0
ATMP HW Landfilled.....	0.20	0.13	0.10	0
HW Landfilled	-	-	-	0
Total Waste Generated (NHW+HW) (metric tons)	3,067	3,387	3,508	2,963
Total Waste Generated per Revenue (g/\$)	0.37	0.33	0.34	0.35
Contract Manufacturing HW Generated (metric tons)	n/a	n/a	15,049	13,609
Product Scrap for Precious Metal Reclaim (metric tons)	240	122	157	99
Trays Reused (metric tons)	n/a	n/a	214	95
Trays Recycled (metric tons)	n/a	n/a	29	42
Wastewater				
Waste Water Discharge ¹⁰ (million liters)	284	320	364	391
Austin	84	61	41	38
Penang	52	122	139	143
Singapore.....	60	56	49	35
Suzhou	89	81	136	175
Wastewater generated per Revenue (l/\$)	0.05	0.05	0.06	0.07
Air Emissions¹¹				
Ozone Depleting Substances (MTCO ₂ e)	33,105	19,820	38,802	35,192
Compliance				
Number of Environmental Non-Compliances	0	2	0	0
Number of Health or Safety Non-Compliances.....	0	0	1	0
Fines (USD)	0	0	360	0

Notes:

- n/a = not available.
- Values shown in italics represent corrected data and are different from values shown in previous CR Reports.
- 2005-2008 archived data are available on our [website](#).

1. 2009 data does not include wafer manufacturing contributions from assets transferred to GLOBALFOUNDRIES in March 2009.
2. PI – The Production Index is derived from the number of units produced and cycle time which is an indicator of processing complexity.
3. Singapore transitioned from a manufacturing site to a non-manufacturing in 2012, and reported separately.
4. AMD's Lone Star campus in Austin TX is 100% powered by renewable wind energy. In 2012, AMD purchased a total of 13 GWh renewable energy credits (RECs). 5 GWh, 4 GWh and 4 GWh were applied to sites in Fort Collins, CO, Atlanta, GA, and Austin, TX respectively.
5. There was no renewable direct energy used in 2012.
6. Data provided by AMD contract manufacturers and proportioned based on AMD product manufactured. TSMC Scope I GHG emissions include perfluorocarbon (PFC) emissions only.
7. AMD is not a significant user of water at any site, and no water sources are significantly affected by withdrawal of water.

8. This includes water use from facilities in Shanghai, China and Kuala Lumpur, Malaysia. AMD is working on increasing the number of sites for which water data is collected.
9. Non-manufacturing normalized water data (liters/employee) is normalized using the number of employees at those sites for which water data is collected.
10. All wastewater from sites are discharged into municipal wastewater treatment plants. All discharges were within permitted water quality limits and no violations were issued.
11. Fugitive emissions of greenhouse gases are included as part of total carbon equivalent emissions.

GRI TABLES

STANDARD DISCLOSURES PART I: Profile Disclosures

1. Strategy and Analysis

Profile Disclosure	Description	Reported	Cross-reference/Direct Answer
1.1	Statement from the most senior decision-maker of the organization.	●	Message from the CEO
1.2	Description of key impacts, risks and opportunities.	●	Risk Management and Risks and Opportunities Related to Climate Change .

2. Organizational Profile

Profile Disclosure	Description	Reported	Cross-reference/Direct Answer
2.1	Name of the organization.	●	AMD At A Glance
2.2	Primary brands, products and/or services.	●	AMD At A Glance
2.3	Operational structure of the organization, including main divisions, operating companies, subsidiaries and joint ventures.	●	Transparency
2.4	Location of organization's headquarters.	●	AMD At A Glance
2.5	Number of countries where the organization operates, and names of countries with either major operations or that are specifically relevant to the sustainability issues covered in the report.	●	AMD At A Glance, Scope
2.6	Nature of ownership and legal form.	●	AMD At A Glance
2.7	Markets served (including geographic breakdown, sectors served and types of customers/beneficiaries).	●	AMD At A Glance
2.8	Scale of the reporting organization.	●	AMD At A Glance, 2012 Annual Report on Form 10-K (pg. 96)
2.9	Significant changes during the reporting period regarding size, structure or ownership.	●	Transparency
2.10	Awards received in the reporting period.	●	Awards and Recognitions

3. Report Parameters

Profile Disclosure	Description	Reported	Cross-reference/Direct Answer
3.1	Reporting period (e.g., fiscal/calendar year) for information provided.	●	Scope
3.2	Date of most recent previous report (if any).	●	Scope
3.3	Reporting cycle (annual, biennial, etc.).	●	Scope
3.4	Contact point for questions regarding the report or its contents.	●	Overview
3.5	Process for defining report content.	●	Material Issues, Strategy and the CR Council, Scope, Stakeholder Engagement Panel, GRI Scope
3.6	Boundary of the report (e.g., countries, divisions, subsidiaries, leased facilities, joint ventures, suppliers). See GRI Boundary Protocol for further guidance.	●	Scope
3.7	State any specific limitations on the scope or boundary of the report (see completeness principle for explanation of scope).	●	Scope

3.8	Basis for reporting on joint ventures, subsidiaries, leased facilities, outsourced operations and other entities that can significantly affect comparability from period to period and/or between organizations.	●	Scope
3.9	Data measurement techniques and the bases of calculations, including assumptions and techniques underlying estimations applied to the compilation of the Indicators and other information in the report. Explain any decisions not to apply, or to substantially diverge from, the GRI Indicator Protocols.	●	Measurement and Verification
3.10	Explanation of the effect of any restatements of information provided in earlier reports, and the reasons for such restatement (e.g., mergers/acquisitions, change of base years/periods, nature of business, measurement methods).	●	Measurement and Verification
3.11	Significant changes from previous reporting periods in the scope, boundary or measurement methods applied in the report.	●	Measurement and Verification
3.12	Table identifying the location of the Standard Disclosures in the report.	●	GRI Content Index Table
3.13	Policy and current practice with regard to seeking external assurance for the report.	●	Measurement and Verification
4. Governance, Commitments and Engagement			
Profile Disclosure	Description	Reported	Cross-reference/Direct answer
4.1	Governance structure of the organization, including committees under the highest governance body responsible for specific tasks, such as setting strategy or organizational oversight.	●	Board of Directors
4.2	Indicate whether the Chair of the highest governance body is also an executive officer.	●	Board of Directors
4.3	For organizations that have a unitary board structure, state the number and gender of members of the highest governance body that are independent and/or non-executive members.	●	As of December 29, 2012, all members of AMD's Board of Directors other than Mr. Rory Read, Mr. Ahmed Yahia and Mr. Waleed Al Mahairi are independent in accordance with SEC and NYSE rules. (1 woman and 10 men). Please see Principles of Corporate Governance .
4.4	Mechanisms for shareholders and employees to provide recommendations or direction to the highest governance body.	●	Board of Directors and AMD AlertLine
4.5	Linkage between compensation for members of the highest governance body, senior managers and executives (including departure arrangements), and the organization's performance (including social and environmental performance).	●	Board of Directors
4.6	Processes in place for the highest governance body to ensure conflicts of interest are avoided.	●	Principles of Corporate Governance
4.7	Process for determining the composition, qualifications and expertise of the members of the highest governance body and its committees, including any consideration of gender and other indicators of diversity.	●	Board of Directors
4.8	Internally developed statements of mission or values, codes of conduct and principles relevant to economic, environmental and social performance and the status of their implementation.	●	AMD's Worldwide Standards of Business Conduct (AMD's WWWSBC)

4.9	Procedures of the highest governance body for overseeing the organization's identification and management of economic, environmental and social performance, including relevant risks and opportunities, and adherence or compliance with internationally agreed standards, codes of conduct and principles.	●	Corporate Compliance Committee and Risk Management
4.10	Processes for evaluating the highest governance body's own performance, particularly with respect to economic, environmental and social performance.	●	CR Council and Risk Management
4.11	Explanation of whether and how the precautionary approach or principle is addressed by the organization.	●	Risk and Opportunities Related to Climate Change
4.12	Externally developed economic, environmental and social charters, principles or other initiatives to which the organization subscribes or endorses.	●	Public Policy , Supplier Responsibility , Environmental Management Systems
4.13	Memberships in associations (such as industry associations) and/or national/international advocacy organizations in which the organization: * Has positions in governance bodies; * Participates in projects or committees; * Provides substantive funding beyond routine membership dues; or * views membership as strategic.	●	Public Policy
4.14	List of stakeholder groups engaged by the organization.	●	Stakeholder Engagement
4.15	Basis for identification and selection of stakeholders with whom to engage.	●	Stakeholder Engagement
4.16	Approaches to stakeholder engagement, including frequency of engagement by type and by stakeholder group.	●	Stakeholder Engagement AMD meets with our Ceres multidiscipline stakeholder group twice yearly. We have asked our employees to rate the effectiveness of our corporate responsibility programs in our employee surveys since 2008. We also engage with customers, peers and social investment analysts at various events and scheduled meetings throughout the year.
4.17	Key topics and concerns that have been raised through stakeholder engagement, and how the organization has responded to those key topics and concerns, including through its reporting.	●	Overview , Stakeholder Engagement

STANDARD DISCLOSURES PART III: Performance Indicators

Economic

Performance Indicator	Description	Reported	Cross-reference/Direct answer
Economic performance			
EC1	Direct economic value generated and distributed, including revenues, operating costs, employee compensation, donations and other community investments, retained earnings and payments to capital providers and governments.	●	AMD collaborates with governments around the world to help accelerate innovation, create and retain jobs, provide educational assistance and job training and implement other public economic development programs. AMD does not receive significant financial assistance from government other than assistance associated with AMD investments in equipment and facilities, employment or research and development that are publicly provided by federal, state and local governments around the world. We do not report on this indicator on a company-wide basis because our accounting practices do not separate out government-specific incentives. See Public Policy for more information on our interactions with governments. Also see Economic Data Tables and 2012 Annual Report on Form 10-K (pgs. 39, 69 and 83)
EC2	Financial implications and other risks and opportunities for the organization's activities due to climate change.	●	Risk and Opportunities Related to Climate Change
EC3	Coverage of the organization's defined benefit plan obligations.	●	AMD does not offer defined benefit retirement plans. Please see Compensation and Benefits for a description of our programs.
EC4	Significant financial assistance received from government.	●	AMD collaborates with governments around the world to help accelerate innovation, create and retain jobs, provide job training and implement other public economic development programs. AMD does not receive significant financial assistance from government other than assistance associated with AMD investments in equipment and facilities, employment or research and development that are publicly provided by federal, state and local governments around the world. We do not report on this indicator on a company-wide basis because our accounting practices do not separate out government-specific incentives. See Public Policy for more information on our interactions with governments.
Market presence			
EC5	Range of ratios of standard entry-level wage by gender compared to local minimum wage at significant locations of operation.	●	AMD consistently pays more than the minimum wage in every country in which we operate. Please see Compensation and Benefits .
EC6	Policy, practices and proportion of spending on locally based suppliers at significant locations of operation.	●	AMD has no specific policy related to spending on locally-based suppliers at significant locations.

EC7	Procedures for local hiring and proportion of senior management hired from the local community at significant locations of operation.	●	The majority of AMD's senior management comes from the local communities where we operate. In 2012, 83% of managers were hired from the local community. AMD targets local talent pools via job boards, alumni associations, University Relations activities. See Talent Management and University Relations and Student Experience .
Indirect economic impacts			
EC8	Development and impact of infrastructure investments and services provided primarily for public benefit through commercial, in-kind or pro-bono engagement.	●	See Technology Infrastructure Development and Services .
EC9	Understanding and describing significant indirect economic impacts, including the extent of impacts.	●	<p>See AMD Changing the Game and AMD Technology- Enabling a Better World. As a global company that serves customers and technology users around the world, AMD is deeply interested in helping to address global challenges and issues. We pursue that interest through our sustainability initiatives, product design and manufacturing standards, and engagement with customers, partners, government and NGO stakeholders around the world.</p> <p>Products: AMD has studied environmental impacts through the lifecycle of our products. For example, energy consumed during the use of the product is generally the largest part of the carbon footprint in the lifecycle of an AMD processor. The company is focused on designing energy-efficient products. See Product Stewardship. AMD also evaluates the positive impacts associated with the use of our products. Examples of the societal contributions from AMD products are published in this report and on our corporate responsibility website. See AMD Technology - Enabling a Better World</p> <p>Education: To evaluate the progress and effectiveness of <i>AMD Changing the Game</i>, the AMD Foundation tracks a number of key performance indicators. Information is collected from nonprofit organizations, schools and government agencies to understand the indirect impacts of projects specially aimed at bringing education-based programs to disadvantaged youth in underserved global communities. The impacts are measured in the form of quantitative, anecdotal and observational data. See Table 3.</p>

Environmental

Performance Indicator	Description	Reported	Cross-reference/Direct answer
Materials			
EN1	Materials used by weight or volume.	●	In 2012, AMD used approximately 650 tons of packaging material (not including outsourced operations). AMD does not currently have a vetted process in place for reporting other material used and will report on this in reporting year 2013.
EN2	Percentage of materials used that are recycled input materials.	●	In 2012, at least 8% of total packaging used was recycled content. We did not use recycled materials in our products in 2012.
Energy			
EN3	Direct energy consumption by primary energy source.	●	See Environmental Data Tables
EN4	Indirect energy consumption by primary source.	●	See Environmental Data Tables
EN5	Energy saved due to conservation and efficiency improvements.	●	See Environmental Data Tables
EN6	Initiatives to provide energy-efficient or renewable energy-based products and services, and reductions in energy requirements as a result of these initiatives.	●	See Risks and Opportunity Related to Climate Change, AMD Site Specific Reports and Product Stewardship .
EN7	Initiatives to reduce indirect energy consumption and reductions achieved.	●	See Global Environmental Goals and Performance, Economic Data Tables and Environmental Data Tables .
Water			
EN8	Total water withdrawal by source.	●	See Environmental Data Tables
EN9	Water sources significantly affected by withdrawal of water.	●	See Environmental Data Tables
EN10	Percentage and total volume of water recycled and reused.	●	See Environmental Data Tables
Biodiversity			
EN11	Location and size of land owned, leased, managed in or adjacent to protected areas and areas of high biodiversity value outside protected areas.	●	We do not report on these points (no intention of reporting in the future) since the disclosure as prescribed by the GRI Guidelines is not applicable to our business because AMD does not operate in protected areas.
EN12	Description of significant impacts of activities, products and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas.	●	same as above
EN13	Habitats protected or restored.	●	same as above
EN14	Strategies, current actions and future plans for managing impacts on biodiversity.	●	same as above
EN15	Number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk.	●	same as above
Emissions, effluents and waste			
EN16	Total direct and indirect greenhouse gas emissions by weight.	●	See Environmental Data Tables
EN17	Other relevant indirect greenhouse gas emissions by weight.	●	See Environmental Data Tables
EN18	Initiatives to reduce greenhouse gas emissions and reductions achieved.	●	See Environmental Data Tables
EN19	Emissions of ozone-depleting substances by weight.	●	See Environmental Data Tables

EN20	NOx, SOx and other significant air emissions by type and weight.	●	See Environmental Data Tables
EN21	Total water discharge by quality and destination.	●	See Environmental Data Tables
EN22	Total weight of waste by type and disposal method.	●	See Environmental Data Tables
EN23	Total number and volume of significant spills.	●	There were no significant spills in 2012.
EN24	Weight of transported, imported, exported or treated waste deemed hazardous under the terms of the Basel Convention Annex I, II, III and VIII, and percentage of transported waste shipped internationally.	●	In 2012, AMD did not ship any waste under the terms of the Basel Convention.
EN25	Identity, size, protected status and biodiversity value of water bodies and related habitats significantly affected by the reporting organization's discharges of water and runoff.	●	All wastewater from AMD sites was discharged into municipal wastewater treatment plants. To AMD's knowledge, there are no water bodies significantly affected by AMD's water discharges. See Environmental Data Tables .

Products and services

EN26	Initiatives to mitigate environmental impacts of products and services, and extent of impact mitigation.	●	See Product Stewardship .
EN27	Percentage of products sold and their packaging materials that are reclaimed by category.	●	AMD designs semiconductor components and does not primarily sell to end users of our products. We do not have processes in place to reclaim product or packaging material after use.

Compliance

EN28	Monetary value of significant fines and total number of non-monetary sanctions for noncompliance with environmental laws and regulations.	●	There were no notices of violation issued.. See Environmental Data Tables .
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Transport

EN29	Significant environmental impacts of transporting products and other goods and materials used for the organization's operations, and transporting members of the workforce.	●	See Environmental Data Tables , Addressing Other Indirect Emissions and Product Packaging .
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Overall

EN30	Total environmental protection expenditures and investments by type.	○	AMD does not currently track this information.
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Social: Labor Practices and Decent Work

Performance Indicator	Description	Reported	Cross-reference/Direct answer
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Employment

LA1	Total workforce by employment type, employment contract and region, broken down by gender.	●	See Labor Data Tables .
LA2	Total number and rate of new employee hires and employee turnover by age group, gender and region.	●	See Labor Data Tables .

LA3	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by major operations.	●	Full time U.S. employees, including those who work at least 30 hours per week, are eligible for all benefits, including medical, prescription drugs, dental, vision, employee assistance, life insurance, disability insurance, vacation, paid holidays and a defined contribution retirement saving plan. Co-ops are eligible for most benefits other than disability, vacation and the retirement savings plan. Employees who work less than 30 hours per week are only eligible for the retirement savings plan. For more information see Compensation and Benefits .
LA15	Return to work and retention rates after parental leave, by gender.	●	See Labor Data Tables .
Labor/management relations			
LA4	Percentage of employees covered by collective bargaining agreements.	●	AMD estimates that up to 4% of employees are covered by national or industry collective bargaining agreements.
LA5	Minimum notice period(s) regarding significant operational changes, including whether it is specified in collective agreements.	●	While there is no global timeframe for notifying our employees of operational changes, we make every effort to provide employees with timely notice of significant operational changes and adhere to all local laws. For example, in the United States, all employees affected by a reduction in workforce receive at least 60 days prior notice or equivalent. See Stakeholder Engagement - Employees .
Occupational health and safety			
LA6	Percentage of total workforce represented in formal joint management-worker health and safety committees that help monitor and advise on occupational health and safety programs.	●	See Employee Health, Safety and Wellness .
LA7	Rates of injury, occupational diseases, lost days and absenteeism, and number of work-related fatalities by region and by gender.	●	See Labor Data Tables .
LA8	Education, training, counseling, prevention and risk-control programs in place to assist workforce members, their families or community members regarding serious diseases.	●	See Employee Health, Safety and Wellness .
LA9	Health and safety topics covered in formal agreements with trade unions.	●	We do not report on this issue because it is not applicable to AMD operations.
Training and education			
LA10	Average hours of training per year per employee by gender and by employee category.	●	The AMD law department provides training on AMD's Worldwide Standards of Business Conduct, Workplace Harassment, Antitrust and other topics. Training takes an average of 37 minutes per employee for all employees per year. In 2012, 21% of managers and 6% of members of technical staff received an average of 30 hours of leadership training. Members of AMD's sales force receive an average of 45 hours/year of training in a combination of self-paced online courses and virtual-instructor-led courses. For additional information, see Employee Education & Training .

LA11	Programs for skills management and lifelong learning that support the continued employability of employees and assist them in managing career endings.	●	See Employee Education and Training .
LA12	Percentage of employees receiving regular performance and career development reviews, by gender.	●	See Employees Pay for Performance .
Diversity and equal opportunity			
LA13	Composition of governance bodies and breakdown of employees per employee category according to gender, age group, minority group membership and other indicators of diversity.	●	See Labor Data Tables .
Equal remuneration for women and men			
LA14	Ratio of basic salary and remuneration of women to men by employee category, by significant locations of operation.	●	AMD compares salaries to the average market rate on a global basis. The average compa-ratios for the entire AMD population is 93%.

Social: Human Rights

Performance Indicator	Description	Reported	Cross-reference/Direct Answer
Investment and procurement practices			
HR1	Percentage and total number of significant investment agreements and contracts that include clauses incorporating human rights concerns, or that have undergone human rights screening.	●	AMD is not aware of any such significant investments during or related to 2012. Our Worldwide Standards of Business Conduct strictly forbids child labor and forced/compulsory labor practices, and respects the rights of employees to associate freely. AMD is committed to complying with all applicable laws in all locations. See Human Rights .
HR2	Percentage of significant suppliers, contractors and other business partners that have undergone human rights screening, and actions taken.	●	We have adopted the standards within the EICC Code of Conduct and the Institute for Supply Management (ISM) Principles of Social Responsibility. In 2012, we communicated our expectations to our top-tier suppliers that they conform to the Code, ISM principles or equivalent standards. In 2012, 89% of our major supplier facilities completed the EICC SAQ and no high-risk supplier facilities were identified. See Supplier Responsibility .
HR3	Total hours of employee training on policies and procedures concerning aspects of human rights that are relevant to operations, including the percentage of employees trained.	●	All employees worldwide receive access to and training on AMD's Worldwide Standards of Business Conduct. Training typically takes about one hour per employee and must be completed during the employee's first 90 days of service and/or every three years. AMD has approximately 10,000 employees worldwide for a total of 10,000 hours of training. All employees worldwide also receive an annual reminder email regarding the Standards, including a link to AMD's Worldwide Standards of Business Conduct. See AMD's Worldwide Standards of Business Conduct .

Non-discrimination

- HR4** Total number of incidents of discrimination and corrective actions taken. ● One administrative complaint was filed with the Department of Labor in 2011, alleging discrimination due to engaging in protected activity. The Department of Labor dismissed a portion of this complaint. The remainder of this matter was resolved in early 2013.

Freedom of association and collective bargaining

- HR5** Operations and significant suppliers identified in which the right to exercise freedom of association and collective bargaining may be violated or at significant risk, and actions taken to support these rights. ● AMD is unaware of any such operation during or related to 2012. The Company's Worldwide Standards of Business Conduct strictly forbid child labor and forced/compulsory labor practices, and respects the rights of its employees to associate freely. AMD is committed to complying with all applicable laws in all locations.

Child labor

- HR6** Operations and significant suppliers identified as having significant risk for incidents of child labor, and measures taken to contribute to the effective abolition of child labor. ● AMD is unaware of any such operation during or related to 2012. The Company's Worldwide Standards of Business Conduct strictly forbid child labor and forced/compulsory labor practices, and respects the rights of its employees to associate freely. AMD is committed to complying with all applicable laws in all locations.

Forced and compulsory labor

- HR7** Operations and significant suppliers identified as having significant risk for incidents of forced or compulsory labor, and measures to contribute to the elimination of all forms of forced or compulsory labor. ● AMD is unaware of any such operation during or related to 2012. The Company's Worldwide Standards of Business Conduct strictly forbid child labor and forced/compulsory labor practices, and respects the rights of its employees to associate freely. AMD is committed to complying with all applicable laws in all locations.

Security practices

- HR8** Percentage of security personnel trained in the organization's policies or procedures concerning aspects of human rights that are relevant to operations. ● Security personnel are trained on and acknowledge AMD's Worldwide Standards of Business Conduct, and are responsible for upholding AMD values in performing their work.

Indigenous rights

- HR9** Total number of incidents of violations involving rights of indigenous people and actions taken. ● AMD is not aware of any incidents during or related to 2012.

Assessment

- HR10** Percentage and total number of operations that have been subject to human rights reviews and/or impact assessments. ● AMD completed the EICC SAQ for all our manufacturing facilities located in Suzhou, China; Singapore; and Penang, Malaysia.

Remediation

- HR11** Number of grievances related to human rights filed, addressed and resolved through formal grievance mechanisms. ● See response to HR 4 for a summary of formal grievances related to human rights that AMD handled in 2012. AMD's policy regarding reporting of concerns is publicized in [AMD's VVWSBC](#) and

discussed in the training that employees receive on these Standards. The reporting policy requires employees to raise concerns to either their management, AMD Internal Audit, the AMD Corporate Investigations Department, the AMD Human Resources Department and/or the AMD Law Department; or if employees prefer, they can report concerns by calling the global toll-free AMD AlertLine, which accepts anonymous calls, or use the email reporting option to the AlertLine. The Company has a strict non-retaliation policy with respect to good-faith reports of compliance and ethics concerns or violations. Certain AMD sites have local work rules that provide additional grievance processes as well.

Social: Society

Performance Indicator	Description	Reported	Cross-reference/Direct answer
Local communities			
SO1	Percentage of operations with implemented local community engagement, impact assessments and development programs.	●	All major AMD sites have organized community involvement. See AMD in the Community and AMD Changing the Game .
SO9	Operations with significant potential or actual negative impacts on local communities.	●	AMD has processes and procedures in place to review environmental and social potential impacts on local communities including our Global EHS Standards , AMD's WWSBC and EICC Code of Conduct commitment. There were no potential or actual negative impacts assessed in 2012.
SO10	Prevention and mitigation measures implemented in operations with significant potential or actual negative impacts on local communities.	●	There were no operations identified with significant potential or actual negative impacts on local communities.
Corruption			
SO2	Percentage and total number of business units analyzed for risks related to corruption.	●	AMD's Internal Audit Department performs comprehensive risk analyses (including regarding corruption) of all AMD sites/departments. See Internal Audit .
SO3	Percentage of employees trained in organization's anti-corruption policies and procedures.	●	All employees worldwide receive copies of and training on AMD's Worldwide Standards of Business Conduct, which includes strict anti-corruption provisions. Training typically takes about one hour per employee and must be completed during the employee's first 90 days of service, and on a three-year cadence thereafter. See AMD's WWSBC .
SO4	Actions taken in response to incidents of corruption.	●	AMD is not aware of any incidents during or related to 2012.
Public policy			
SO5	Public policy positions and participation in public policy development and lobbying.	●	See Public Policy .

SO6	Total value of financial and in-kind contributions to political parties, politicians and related institutions by country.	●	See Economic Data Tables .
Anti-competitive behavior			
SO7	Total number of legal actions for anti-competitive behavior, anti-trust and monopoly practices and their outcomes.	●	There were no legal actions for anti-competitive behaviors, anti-trust and monopoly practices brought against the Company in 2012. Any material legal proceedings involving AMD would be discussed in our SEC Form 10-K.
Compliance			
SO8	Monetary value of significant fines and total number of non-monetary sanctions for noncompliance with laws and regulations.	●	There were no significant fines or sanctions for noncompliance with laws and regulations in 2012.
Social: Product Responsibility			
Performance Indicator	Description	Reported	Cross-reference/Direct Answer
Customer health and safety			
PR1	Life cycle stages in which health and safety impacts of products and services are assessed for improvement, and percentage of significant products and services categories subject to such procedures.	●	AMD seeks to minimize the potential adverse impact to human health and the environmental at each stage of our product's life, from design to disposal. See Product Stewardship .
PR2	Total number of incidents of noncompliance with regulations and voluntary codes concerning health and safety impacts of products and services during their life cycle, by type of outcomes.	○	AMD does not currently track this information as it is not considered to be material. AMD is primarily a semiconductor component designer.
Product and service labeling			
PR3	Type of product and service information required by procedures and percentage of significant products and services subject to such information requirements.	●	AMD's procedures for product and service information and labeling require information on product content, safe use and disposal of products. For more information see Product Stewardship . See also Conflict Metals for information on AMD's efforts in this area.
PR4	Total number of incidents of noncompliance with regulations and voluntary codes concerning product and service information and labeling, by type of outcomes.	●	AMD is not aware of any such incidents during or related to 2012.
PR5	Practices related to customer satisfaction, including results of surveys measuring customer satisfaction.	●	See Stakeholder Engagement .

Marketing communications

- PR6** Programs for adherence to laws, standards and voluntary codes related to marketing communications, including advertising, promotion and sponsorship. ● AMD has dedicated a legal team to support the marketing department. The purpose of this team is to review outbound marketing materials for compliance with laws in those jurisdictions where AMD conducts the majority of its business. This legal team also provides training to the marketing department on relevant issues, including privacy, endorsements and proper substantiation of claims. In addition, AMD has company-wide policies related to appropriate business conduct that include sections related to marketing activities, such as social media communications, etc. AMD currently does not formally endorse any voluntary codes.
- PR7** Total number of incidents of noncompliance with regulations and voluntary codes concerning marketing communications, including advertising, promotion and sponsorship by type of outcomes. ● AMD is not aware of any such incidents during or related to the 2012 calendar year.

Customer privacy

- PR8** Total number of substantiated complaints regarding breaches of customer privacy and losses of customer data. ● AMD is not aware of any such complaints during or related to the 2012 calendar year.

Compliance

- PR9** Monetary value of significant fines for noncompliance with laws and regulations concerning the provision and use of products and services. ● AMD is not aware of any such fines during or related to the 2012 calendar year.
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Statement GRI Application Level Check

GRI hereby states that **Advanced Micro Devices, Inc.** has presented its report "2012/13 Corporate Responsibility Report" to GRI's Report Services which have concluded that the report fulfills the requirement of Application Level A.

GRI Application Levels communicate the extent to which the content of the G3.1 Guidelines has been used in the submitted sustainability reporting. The Check confirms that the required set and number of disclosures for that Application Level have been addressed in the reporting and that the GRI Content Index demonstrates a valid representation of the required disclosures, as described in the GRI G3.1 Guidelines. For methodology, see www.globalreporting.org/SiteCollectionDocuments/ALC-Methodology.pdf

Application Levels do not provide an opinion on the sustainability performance of the reporter nor the quality of the information in the report.

Amsterdam, 15 May 2013

A handwritten signature in blue ink, appearing to read "Nelmara Arbex", is written over a faint, large watermark of the GRI logo in the background.

Nelmara Arbex
Deputy Chief Executive
Global Reporting Initiative



The Global Reporting Initiative (GRI) is a network-based organization that has pioneered the development of the world's most widely used sustainability reporting framework and is committed to its continuous improvement and application worldwide. The GRI Guidelines set out the principles and indicators that organizations can use to measure and report their economic, environmental, and social performance. www.globalreporting.org

Disclaimer: Where the relevant sustainability reporting includes external links, including to audio visual material, this statement only concerns material submitted to GRI at the time of the Check on 8 May 2013. GRI explicitly excludes the statement being applied to any later changes to such material.

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