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CHAPTER 1: OVERVIEW

This is our 17th annual corporate responsibility report. We have learned a lot from the feedback of our stakeholders throughout these years and we use this input to continuously improve our programs and data collection. This year’s report marks a major turning point in our journey. Based on stakeholder feedback and the maturation of our corporate responsibility practice, we have tailored our 2011 report to the following audiences:

- Global Employees;
- Socially responsible investors and investment analysts;
- Ranking and rating organizations; and
- Researchers.

The annual corporate responsibility report is evolving into a select and tailored repository for performance data. We designed this year’s report to focus on the disclosures required by Global Reporting Initiative (GRI) as well as AMD’s corporate responsibility initiatives. Our goal is to make the information in this report more accessible for key audiences focused on corporate responsibility performance metrics. As a result, much of the design work and prose in previous reports have been omitted from this year’s report. For our other audiences, we have published a companion document that gives an overview of AMD’s corporate responsibility performance and plans, available on our website at www.amd.com/corporateresponsibility, in hard copy and as a tablet-viewable download.

This is a significant change from prior reports, and we encourage your feedback. As always, we welcome your input on all aspects of AMD’s corporate responsibility programs, progress or plans as we work to continually improve AMD’s corporate citizenship.
Message from the CEO

GRI Index Ref.: 1.1, 3.4

When I became CEO and President of AMD this past year, I became part of a company and team with a strong legacy of corporate responsibility brought to life by more than 11,000 dedicated AMDers across the planet. Our employees not only work hard every day to deliver leading computing and graphics solutions, they contribute their own time, money and passion to make the world a better place. This is ingrained as part of our culture, which we call “The AMD Way.”

I am pleased to share our 17th 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 AMD works throughout 2012 to refocus and reposition the company to capture the opportunities in front of us, we will be unwavering in our commitment to people and the planet. Internally, we will remain committed to our work on diversity and inclusion, ethical business practices and cultivating a supportive, productive work environment. Externally, we will continue to be good neighbors in our communities, protect the environment and ensure that our suppliers meet the same expectations we hold ourselves accountable for while engaging with our stakeholders openly and honestly.

Each year, society’s expectations for corporate responsibility and transparency increase. While AMD has consistently met and exceeded these expectations, we are motivated by more than external influences. We know that corporate responsibility strengthens our business, enriches our culture and helps AMD win.

I hope that you find our 2011 corporate responsibility report informative and valuable. As always, we welcome your input and questions.

Rory Read

AMD CEO and President
**AMD at a glance**

*GRI Index Ref: 2.1, 2.2, 2.4, 2.5, 2.6, 2.7, 2.8*

Founded in 1969 and headquartered in Sunnyvale, California, AMD is a semiconductor design innovator leading the next era of vivid digital experiences with its groundbreaking AMD Accelerated Processing Units (APUs) that help power a wide range of computing devices. AMD’s server computing products are focused on driving industry-leading cloud computing and virtualization environments. AMD’s superior graphics technologies are found in a variety of solutions ranging from game consoles to personal computers (PCs) and supercomputers.

- Headquarters: Sunnyvale, California
- Established: 1969
- Employees: 11,705 employees worldwide (as of February 2012)
- Facilities: 50 locations worldwide
- New York Stock Exchange Listing: AMD
- 2011 Revenue: $6.57 billion
- AMD’s 2011 Annual Report (Form 10K) is available on our website [here](#).

AMD is a worldwide enterprise with more than a dozen research and development (R&D) facilities, nearly two dozen international sales offices and back-end manufacturing facilities in Malaysia, China and Singapore.

**AMD Products and Platforms**

We are a global semiconductor innovator designing industry-leading APUs for the consumer and commercial notebook, desktop and embedded markets, and x86 microprocessors for the commercial and consumer markets; embedded microprocessors for commercial, commercial client and consumer markets; and chipsets for desktop and notebook PCs, embedded systems, professional workstations and servers; and graphics, video and multimedia products and technologies for desktop and notebook PCs, embedded systems, professional workstations, servers and game consoles.

**2011 in Review; Look Ahead to 2012**

2011 was a significant year for AMD. We welcomed a new CEO, strengthened our leadership team and achieved significant financial, business, product and technology momentum.

In August, AMD named Rory Read its new president and CEO. With more than 28 years of industry experience, Mr. Read is a proven leader with a respected track record. Since Rory’s appointment, the additions of Mark Papermaster as senior vice president and chief technology officer, Rajan Naik as senior vice president and chief strategy officer and Lisa Su as senior vice president and general manager, global business units, have signaled a new era of strength and leadership for AMD. These executives will ensure that sustainable, dependable execution becomes a hallmark of AMD’s business.
2011 was also the year AMD kicked off the next era of vivid computing with the launch of the world’s first APUs to rousing success. With 11 of the world’s top 12 notebook original equipment manufacturers (OEMs) offering APU-based products, AMD has shipped more than 30 million APUs to date – the fastest ramping product in AMD’s history. At the close of 2011, AMD’s APUs had received more than 300 notebook and desktop design wins across leading PC manufacturers, including Acer, Asus, Dell, HP, Lenovo, Samsung and Toshiba.

Other significant milestones included the tremendous success of our low-power platform, which drove a 25% increase in mobile processor shipments and significant notebook share gains for 2011. This is undoubtedly the most successful platform in AMD’s history. AMD’s graphics processing units (GPU) intellectual property (IP) also provides superior video, multimedia and graphics capabilities that form the core of the company’s competitive advantage.

Our priorities this year are to execute our 2012 plans, capitalize on trends around consumerization, cloud and convergence, and adopt an SoC-centric roadmap designed to speed time-to-market, drive sustained execution and enable the development of more tailored customer solutions. We plan to build on our strong customer and partner relationships through consistently delivering on our commitments. We also plan to continue to deliver compelling platforms, rapidly grow customer demand, increase our partner support and unlock shareholder value at an accelerated pace.

From a product and technology standpoint, we will protect and extend our performance/feature leadership in discrete graphics and APUs while making the strategic investments necessary to attack new growth opportunities. AMD APUs are redefining the computing landscape, enabling outstanding high-definition user experiences across all form factors as well as long battery life on notebooks. AMD’s server strategy is designed to disrupt the datacenter by delivering affordable low power, high bandwidth solutions for tomorrow’s cloud and high performance computing (HPC) solutions.

AMD enters 2012 with a clear path forward, and is well positioned in the marketplace to build on the company’s long history of x86 and graphics innovation. Our APU momentum continues to accelerate, our server business continues to strengthen, and we continue to offer the fastest graphics processing technology on the planet.

AMD has delivered a top-to-bottom portfolio of platforms and products to help meet the needs of today’s users:

- The significant contribution of AMD’s APUs to the industry is evidenced by the shipment of more than 30 million APUs in 2011.
- The AMD Opteron™ 6200 and 4200 Series processors, designed to support highly virtualized workloads in an extremely energy-efficient manner, was launched.
- The fastest single GPU available was launched – the AMD Radeon™ HD 7970.
- AMD powered 63 of the world’s fastest supercomputers on the most recent TOP500 supercomputers list, including the fastest supercomputers in Germany, Switzerland and the United Kingdom.
- AMD announced the AMD FirePro™ V4900 professional graphics, enabling superior
performance for Digital Content Creation and Computer Aided Design (CAD) professionals at an entry-level price point.

- AMD shipped more than 100 million DirectX® 11-capable graphics processors, supporting 31 new game titles and six new game engines in 2011.
- AMD adopted a new “ambidextrous” strategy to build on AMD’s history of x86 and graphics innovation while embracing other technologies and IP.
- Also, AMD adopted an SoC-centric roadmap designed to help speed time-to-market, drive sustained execution and enable the development of solutions more tailored to customer needs.

Additional Information
- About AMD
- Products and Technologies

Material Issues, Strategy and the Corporate Responsibility Council

In 2010, AMD reevaluated our approach to corporate responsibility based on a materiality assessment that aimed to align corporate responsibility goals with AMD’s new business model. We assembled a cross-functional Corporate Responsibility Council (CRC), evaluated a broad range of issues and narrowed the list to four priorities. The responsible departments then created three-year plans (2010-2012) for each of these priority issues. Table 1 shows the key issues and progress to date.

<table>
<thead>
<tr>
<th>ISSUE</th>
<th>DEFINITION</th>
<th>2011 UPDATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product energy efficiency and solutions</td>
<td>Increasing the energy efficiency of AMD products and producing technologies that enable AMD customers to improve their own energy efficiency and achieve their climate change goals.</td>
<td>AMD product energy efficiency took a giant leap ahead with the introduction of the Accelerated Processing Unit (APU) that integrates central processing with graphics processing. This resulted in a GHG emissions reduction of up to 40% when compared to the previous generation of chips. See APU carbon footprint study.</td>
</tr>
<tr>
<td>Increasing access to technology</td>
<td>Developing the products and programs that increase access to digital technology in emerging and developing world markets.</td>
<td>AMD expanded our presence in Latin America. We also expanded our signature education program, AMD Changing the Game, into the Middle East, with plans to expand to Latin America in 2012.</td>
</tr>
<tr>
<td>AMD products address global challenges</td>
<td>Designing, developing and selling products to help customers address big global challenges, for example, the use of supercomputers to study solutions to environmental problems.</td>
<td>AMD documented several beneficial uses of our technology. See AMD Technology Enabling A Better World.</td>
</tr>
<tr>
<td>Supply chain responsibility</td>
<td>Improving processes to ensure that the management of labor, health &amp; 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.”</td>
<td>AMD took a leadership role in developing an efficient and targeted conflict minerals program and made substantial progress in integrating corporate responsibility into supplier relationships. See Supplier Responsibility.</td>
</tr>
</tbody>
</table>

Table 1: Corporate Responsibility Priority Material Issues and 2011 Update
While our assessment of priorities led to the accomplishments shown, it is important to note that there are several other focus areas critical to AMD’s business and stakeholders. For example, AMD has a long-term focus on promoting science, technology, engineering and math (STEM) education. Our signature philanthropic program, AMD Changing the Game, teaches STEM skills to students in middle and high school through game design and development. AMD also has a long-standing commitment to environmental protection and has invested in improvements in energy conservation, greenhouse gas (GHG) emissions reduction, preserving fresh water and land conservation. See our Global Environmental Goals and Performance.

Adding the four issues to our list of other corporate responsibility priorities reflects AMD’s commitment to ongoing review, and revision if necessary, of our CR strategy.

Awards and Recognition
GRI Index Ref: 2.10

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 with the top sustainable companies.

The awards and rankings below are based on standards of performance that are developed by each conferring organization. We are proud to be honored with the following recognition for 2011:

<table>
<thead>
<tr>
<th>CORPORATE RESPONSIBILITY AWARD/RANKING</th>
<th>CONFERRING ORGANIZATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Top 10 Most Trustworthy Companies in America 2011</td>
<td>Trust Across America</td>
</tr>
<tr>
<td>Top 20 S&amp;P 500 Clean Capitalism List</td>
<td>Corporate Knights</td>
</tr>
<tr>
<td>Dow Jones Sustainability North American Index</td>
<td>Sustainability Asset Management (SAM) and Dow Jones Sustainability Indexes</td>
</tr>
<tr>
<td>Top 500 Green Companies in the United States</td>
<td>Newsweek Magazine</td>
</tr>
<tr>
<td>Top 100 Best Corporate Citizens List</td>
<td>Corporate Responsibility Magazine</td>
</tr>
<tr>
<td>Climate Innovation Index Leader</td>
<td>Maplecroft Climate Innovation Index (CII)</td>
</tr>
<tr>
<td>Global Challenge Index</td>
<td>Hanover Stock Exchange/Oekom Research</td>
</tr>
<tr>
<td>Top 5 Renewable Energy Ranking – Technology Sector</td>
<td>Global Corporate Renewable Energy Index (CREX)</td>
</tr>
<tr>
<td>Excellence in Commuter Options (ECO) Leadership (Boston Design Center)</td>
<td>Massachusetts Department of Transportation (MassDOT)</td>
</tr>
<tr>
<td>SIP Energy Efficiency Star Award (Suzhou)</td>
<td>Suzhou Industrial Park (SIP) Government</td>
</tr>
<tr>
<td>Bicycle Friendly Business, Bronze (Fort Collins)</td>
<td>League of American Bicyclists</td>
</tr>
<tr>
<td>2011 Smart Commute Employer of the Year Honorable Mention (Markham)</td>
<td>Smart Commute</td>
</tr>
<tr>
<td>Water Efficient Building Award (Singapore)</td>
<td>Singapore Water Agency</td>
</tr>
<tr>
<td>Climate Wise Partner, Silver Level (Fort Collins)</td>
<td>Climate Wise, City of Fort Collins</td>
</tr>
</tbody>
</table>

Table 2: 2011 AMD Awards, Rankings and Ratings

Read more about the awards presented to AMD on our webpage.
Transparency
GRI Index Ref.: 2.3, 2.9, 3.1-3.3, 3.6-3.13

Scope
This report provides information on AMD programs addressing environmental protection, social responsibility and economic performance. Operational data for 2011 is for AMD majority-owned and operated facilities located in Sunnyvale, California; Austin, Texas; Markham, Ontario; Penang, Malaysia; Singapore; and Suzhou, People’s Republic of China, for the reporting period January 1, 2011, through December 31, 2011. In addition, notable activities that occurred in 2012 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 2010 was covered in AMD’s 2010 Corporate Responsibility Report published in May 2011.

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 2010 corporate responsibility data are shown in our performance indicators data tables. This year we have expanded our data reporting to include: additional indicators of diversity; environmental data normalized to revenue; water use and waste metrics from our foundry suppliers; and separate reporting of our Scope 1 and Scope 2 (GHG) emissions.

With the exception of financial information, the data provided in this report has not been independently verified by a third-party auditing firm. These data are collected 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 last two years we reported on indirect environmental impacts from our wafer foundry suppliers, our business travel, employee commuting and product transportation. This year we have provided additional metrics from our foundry suppliers, including water use and waste production, as we continue to improve on the level of reporting of our indirect impacts.

Updates
We plan to update the information in this report as appropriate throughout the year on our corporate responsibility website. We also have several other communication channels to share information with our stakeholders and receive input: a corporate responsibility summary brochure which is a companion to this annual report; a corporate responsibility blog; a corporate responsibility newsletter issued twice per year; a Facebook page; a direct contact link on the corporate responsibility website; and a 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.
Global Reporting Initiative (GRI)

The GRI has become the predominant international standard for corporate responsibility reporting, and AMD has utilized the GRI Guidelines (version “G3.1”) to structure the information in this report. The disclosures made are correlated to the Guidelines in our GRI Table.

Throughout our 17 years of corporate responsibility reporting, AMD has undergone many changes, and we continue to adapt to the evolving communication needs of our stakeholders. We welcome your input and comments about AMD’s corporate responsibility program.
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 of these groups 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

In 2011, we worked with Ceres, an award-winning, nonprofit focused on business and sustainability, to establish a stakeholder panel. Interactions with this stakeholder group 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 to gain a deep understanding of the increased expectations of our stakeholders, and continue to build a world-class corporate responsibility program.

In September 2011, the stakeholder group met with senior leaders from AMD to review and provide feedback on the development of our corporate responsibility strategy and existing focus areas. The discussion was robust, candid and extremely valuable for AMD. Many issues were discussed and AMD continues to incorporate the feedback into our programs. The summary below covers the main areas of feedback.

<table>
<thead>
<tr>
<th>STAKEHOLDER FEEDBACK</th>
<th>AMD RESPONSE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Governance:</td>
<td></td>
</tr>
<tr>
<td>The panel suggested ways for AMD to strengthen its governance structure for corporate responsibility, including formalizing oversight from our board of directors, linking executive compensation to CR performance and providing clarity on the organizational structure of AMD’s CR function.</td>
<td>The governance model AMD uses for corporate responsibility is similar to other companies and has served us well. Nonetheless, the corporate responsibility team plans to meet with the new executive leadership to discuss strategy, governance and alignment with business goals.</td>
</tr>
<tr>
<td></td>
<td>The AMD board of directors periodically receives a summary briefing on our corporate responsibility performance and plans. The last such briefing was delivered to the board in Q4 2011.</td>
</tr>
<tr>
<td></td>
<td>More clarity on the organizational structure of our corporate responsibility function is provided in Ethics and Compliance.</td>
</tr>
<tr>
<td>CR Strategy:</td>
<td></td>
</tr>
<tr>
<td>The panel conveyed overall support for AMD’s CR strategy but wanted more insight on the process used to select priority issues.</td>
<td>See Material Issues Section.</td>
</tr>
</tbody>
</table>
STAKEHOLDER FEEDBACK | AMD RESPONSE
----------------------|--------------------------------------------------
Supply Chain:         | In this report, AMD has disclosed our wafer foundry suppliers. These suppliers account for the highest environmental impact in our supply chain. For example, more than 60% of our total GHG emissions are associated with these facilities. See Supplier Responsibility and environmental data tables.
                       > AMD meets regularly with our suppliers and shares information and our expectations on corporate responsibility best practices. We are working through the Electronics Industry Citizenship Coalition (EICC) on formalized capacity building (training) of our suppliers.
                       > AMD has developed processes to identify the smelters of origin for the tin, tantalum, tungsten and gold in our products. We have not disclosed these at this time because of the evolving regulations governing conflict minerals. See Conflict Minerals.

Transparency & Disclosure: | AMD has disclosed stakeholder feedback in this section and invited panelists to include unedited comments in our corporate responsibility communications.
                       > AMD conducted a series of meetings with the social investment community and our plans are to continue this dialogue.
                       > AMD has considered third-party validation of our corporate responsibility disclosures, but at this time, we have not purchased this service.

Table 3: Stakeholder Feedback

In 2012, AMD met with our Ceres Stakeholder panel to receive specific input on this report. We will have additional meetings with this panel of stakeholders and continue our interactions with other stakeholder groups. We will communicate candidly and openly about these interactions and we invite you to provide feedback at any time via our website.

Multi-Stakeholder Dialogue on Conflict Minerals

An issue as serious and complex as conflict minerals demands leadership, and AMD has made this a priority. We helped bridge the traditional divide between activists and companies by co-chairing a multi-stakeholder coalition with Project Enough, a well-known NGO focused on human rights issues in Africa, to focus on the emerging conflict minerals policy. The group successfully developed consensus policy
recommendations for the U.S. government and, to date, has issued four comment letters to the Securities and Exchange Commission (SEC)—each with more than 20 endorsing organizations. AMD has met with the SEC Commissioners and staff on several occasions and provided input on the issue from an industry perspective.

In October 2011, AMD participated in the SEC roundtable on the development of the conflict minerals rule. This full-day event featured participants from NGOs, social investors, members of Congress, corporations and the SEC Commissioners and staff. Several of the participants were veterans of the multi-stakeholder dialogue co-chaired by AMD and Project Enough, and substantial discussion at the roundtable was dedicated to the consensus positions developed by this group. A webcast of the event is available on the SEC website.

AMD has also engaged with multiple stakeholders in the development and launch of the Public-Private Alliance for Responsible Minerals Trade (PPA). The PPA was launched by the U.S. State Department and USAID on November 15, 2011, at the U.S. Institute of Peace. AMD is a founding member and sponsor of this effort, and has worked closely with the U.S. State Department and USAID on the framework of the organization and its goals.

The PPA combines the financial and technical resources of the U.S. government, companies, trade associations and civil society. They plan 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).

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 that match their own. In 2011, we surveyed our employees worldwide to understand their overall satisfaction, specifically asking them about their impressions of our corporate responsibility programs. It was gratifying to learn that our employees have a very high level of satisfaction with our corporate responsibility programs, averaging 86% favorable for all employees surveyed. This is 13% higher than the global norm for this question and 4% higher than the norm for high-performing companies.

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.

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 organizations
Special meetings or webcasts—we utilize an open forum for management to engage employees and respond to questions.

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 employees consider corporate responsibility when selecting a company to work for, they want to express their values at work, and when employees participate in a social or environmental cause at work, they are more engaged. We informally tested this concept with a brief survey of AMD’s Green Team leaders and found that 96% of them agree that contributing to a cause, while at work, improves their commitment to their core job functions and to AMD.

Customers, Peers and Social Investment Analysts

AMD is committed to forging valuable relationships with our customers through repeated interactions that create an ongoing dialogue and stimulate engagement with our company. These interactions occur consistently both on- and off-line, and provide a rich understanding of what our customers are currently doing, where they are doing it and what they want to achieve. Customer events and activities in 2011 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 AMD’s strategy and how it is being delivered.

We conducted an “SRI roadshow” in 2010 to meet with leading environmental, social and governance research firms and socially responsible investors (SRI). In these meetings, we reviewed AMD’s policies, priorities and gathered feedback. In 2011, we continued to interact with the SRI community at events like the Social Investment Forum and the Silicon Valley Human Rights Conference. As mentioned previously, SRI representatives were active partners in our work on the emerging conflict minerals policy. While we have discussed many issues (see Table 3: Stakeholder Feedback), a strong message from this group is to continue our consistent execution performance and transparency on corporate responsibility. Moving forward, we are planning additional outreach to the SRI community in 2012.

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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® and the Global Challenges Index in 2011. 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, game consoles 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
- Greening Datacenters and the Cloud
- Energy Efficiency and Lifecycle Analysis
- 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 that are 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.

The Green Grid, for example, is a global informational 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.

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 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. For more information on AMD’s energy efficiency initiatives and industry and business associations, please see Public Policy.
Greening Datacenters and the Cloud

Datacenters power the internet and most of the networked computing that supports the global economy. The cost, availability and environmental impacts of generating the energy needed to run those datacenters are important factors in the ultimate cost of the global digital economy. Reducing energy use for data centers is a priority for AMD and others in the computing industry. AMD has teamed up with Clarkson University, the New York State Energy Research and Development Authority (NYSERDA), HP and other organizations on a research project to address the industry-wide challenge of channeling renewable energy directly to data centers.

Developed by AMD’s External Research Office, the project, which is still in the early stages, seeks to build a distributed computing network using renewable energy resources. The goal is to co-locate dynamic energy sources such as wind and solar, which do not rely on large-scale, traditional electrical grid-tied systems, with containerized data centers such as HP’s Performance Optimized Datacenter (POD).

Instead of transmitting energy to a centralized data center, the arrangement requires the movement of data using fiber optic lines to locations 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. Co-location with renewable energy sources also can provide environmental benefits by reducing the carbon emissions associated with traditional energy generation.

The project is entering the research phase (as of March 2012); students at Clarkson University have begun experimentation on effectively managing data through a distributed network based on renewable energy. The second phase of the project will be to optimize the hardware elements for energy efficiency and cloud computing, including HP’s POD fully integrated with HP ProLiant servers using the AMD Opteron™ processor.

“We know cloud computing is the future of our industry. This effort is designed to accelerate the cost and operational efficiencies associated with cloud computing, as well as making computing “greener” and environmentally sustainable.” —Dr. Dave Mayhew, Chief Technology Officer (CTO) of AMD’s External Research Office.

Energy Efficiency and Lifecycle Analysis

Concerns over climate change and rising energy costs have increased awareness of, and demand for, energy-efficient IT. Our processors influence the power consumption, and thus the GHG emissions, associated with the use of a broad range of technology products. From high-performance computers, to commercial servers, to consumer laptops, AMD strives to improve energy efficiency through the design of our semiconductor products.

In 2011, AMD continued to evaluate the GHG emissions associated with the entire lifecycle of our products by providing ongoing support to the development of the Product Attribute to Impact Algorithm (PAIA) tool for computers. The work on this tool is a collaborative effort with other computer industry stakeholders and researchers at the Massachusetts Institute of Technology (MIT).
**AMD Fusion Accelerated Processing Units (APUs)**

In 2011, AMD launched a new class of processor, the [AMD Fusion family of APUs](#). The APU is a single chip that integrates multi-core central processing unit (CPU), discrete-level graphics with a parallel processing engine, a dedicated high-definition video acceleration block and a high-speed bus that moves data across the differing types of processor cores. New power savings features include AMD AllDay™ power designed to extend notebook battery life. AMD Fusion APUs also enable developers to take advantage of the parallel processing power available in a graphics processing unit (GPU). The use of GPUs to perform computing applications such as multimedia, productivity and simulations helps applications run faster and simultaneously, allowing PCs to transition to lower power idle/sleep/off states for longer periods of time.

A [carbon footprint study](#) conducted in 2010 showed that our APU product would provide an average 40% reduction in greenhouse gas 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. This eliminates the need for chip-to-chip linkage between the CPU and GPU that can add latency to memory operations and reduce power.

**Servers**

Energy efficiency continues to be an important design consideration for multi-core [AMD Opteron™](#) processors for servers. AMD’s current 16-core AMD Opteron™ processors draw about the same power as the previous generation quad-core processors but provide greater performance. In addition, the AMD Opteron™ 6200 Series processor’s high core counts enable AMD-based servers to run up to 16 virtual machines (VMs) per processor (assuming one VM per core), which helps reduce floor space, lower power costs and improve server management.

**Power-saving features**—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 HPC. This includes AMD-P technology, a suite of advanced features that can help significantly reduce energy usage by keeping processor power consumption down when all of the processor logic is not required by a given workload.
Figure 1: Silicon-Level Processor Power Developments

**Cloud Computing**—AMD server technology supports a variety of data center workloads, including virtualization, web/cloud, IT infrastructure, database, HPC and email/collaboration. 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. To date, more than two million AMD processors have been utilized in cloud computing.

**Graphics**

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% reduction in power consumption during this state. More information about AMD’s approach to power efficiency in our graphics products can be found on our blog page.

**Desktop and Mobile**

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.

**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 continue our efforts to reduce the hazardous materials content of our products. Outlined below are some of the actions we have taken to comply with material restrictions established by both regulatory and customer requirements.

**Lead**

Lead in electronic products has been restricted by regulation in a number of countries over the past several years. AMD began formulating a strategy to address lead and other substances of concern more than 10 years ago, and now offers products that are compliant with the Restriction of Hazardous Substances (RoHS) in electronics requirements of the European Union (EU), China and others. For example, we have collaborated with our suppliers and invested significant engineering resources to introduce “Lead-Free” CPU and APU products to the market. Lead is still in use in some limited applications that are exempted by regulations. In these applications, AMD continues to research no-lead alternatives. View our [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, AMD has 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-Free.”

**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 in our supply chain. Nevertheless, AMD continues 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.

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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.

4 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.
Conflicts Minerals

In 2010, a new U.S. law was enacted requiring the disclosure of due diligence activities associated with the sourcing of four minerals: tin, tantalum, tungsten and gold. The extraction and trade of these minerals has been associated with supporting conflict in the DRC and adjoining countries. AMD has collaborated with leading NGOs, socially responsible investment analysts and companies from other industrial sectors to lead the development of consensus policies for implementing the new law. This collaboration has helped shape efficient and effective policy for addressing this issue.

At AMD, we have completed a pilot of this approach with good results. Many of our suppliers were able to identify the smelters of the minerals in their products so that we could match them to the conflict-free smelter list. AMD’s approach is closely aligned with other companies in the electronics industry. The EICC and the Global e-Sustainability Initiative (GeSI) have teamed up to work out standardized processes and, as the legal requirements have been clarified, these coalitions have adjusted the processes to ensure they will be sufficient 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. government and DRC stakeholders to develop conflict-free sources of minerals through the PPA for Responsible Minerals Trade.

While the final regulations for conflict minerals due diligence have not been issued as of this writing, AMD is continuing preparations for compliance and will remain engaged in the policy discussions.

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

AMD’s newest class of processor, the AMD Fusion family of APUs, incorporates three chips that were 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 greater than threefold reduction in overall product volume, results in less resources needed from material extraction and 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™ platforms utilize a common architecture and chipset as our older 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**

*GRI Index Ref.: EN9*

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 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.

In 2011, AMD moved from unique packaging for our 4-core and 6-core products to a universal box design that could be used for both products, with specific product information included on labels. This helped increase operational flexibility and reduce costs. We also increased the recycled content of our Fusion product packaging from 10% up to a maximum of 40% with the use of clay-coated news back (CCNB). For all other products, we use unbleached cardboard boxes. AMD no longer uses PVC in any of our packing materials.

As part of our continued research on alternative packaging material, we recently evaluated the use of bamboo and continue to research alternative, cost-effective solutions. We have also established requirements to limit the presence of certain heavy metals, such as lead and cadmium. In addition, our packaging requirements include marking plastic parts with the appropriate SPI (Society of the Plastics Industry) International Resin Codes for recycling, and using water-based inks and dyes.

AMD ships products to our customers in trays that can be reclaimed for reuse and then recycled when no longer usable. In 2011, we reused approximately 214 tons of trays and recycled about 29 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 70% of the total number of the pallets used. In 2011, the use of the lighter plastic pallets resulted in an approximate reduction of 2706 tons CO₂ and an estimated freight cost savings of $166,000. AMD also reused more than 9,200 of these plastic pallets (total weight of about 32.5 tons) in 2011.

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5 CCNB is recycled paperboard which is clay-coated on one side.
6 Emissions and cost savings estimates provided by pallet vendor.
CHAPTER IV: AMD TECHNOLOGY: ENABLING A BETTER WORLD

GRI Index Ref.: EC9

From helping scientists advance research in healthcare and climate change, to optimizing wind turbines to deliver clean energy, to creating “green” data centers to power cloud computing, AMD employees and the technology we produce are helping to make the world a better place.

How AMD Engages Our HPC Customers

AMD’s engineering and sales teams enable a customer’s use of AMD technology applications ranging from HPC, servers, embedded and client devices. In the initial stages of a project, AMD will collaborate with system providers to understand the customer’s needs and system requirements. We maintain a data center in Austin, Texas, with the latest AMD technology, where customers can test their applications to verify performance gains and compatibility, and to optimize their applications for rapid implementation at their own facilities. The AMD Customer Engagement Center, located at our Lone Star campus, is a specially designed meeting place for AMD customers and focused on unique AMD products and how they relate to the customer’s specific IT and business requirements. After a system is installed, AMD continues to support our customers by providing tools such as compilers and optimization software to help them get the most out of their systems.

Advancing Healthcare in the Developing World

eHealth Nigeria, an NGO dedicated to improving health care for the people of Nigeria, works in collaboration with Ministries of Health, local governmental organizations and in-country partners on universally available and sustainable Health Management Information Systems (HMIS). In this pursuit, they identified a key problem: Network and server access was limited throughout the Nigerian healthcare system due to a lack of consistently reliable energy, an essential requirement for operating a data center to manage health records and communications.

eHealth Nigeria set out to create a solution that could meet the challenges of the developing region by designing a small, yet fully functional data center with its own dedicated power source — a combination of gasoline- and diesel-powered generators. Working with International Computer Concepts (ICC), an IT solutions provider, they determined that servers based on multi-core AMD Opteron™ processors was the best choice for their particular needs for energy efficiency and processing power for the extensive virtualization needed.

When eHealth Nigeria expands services to 26 hospitals in the near future, virtualization supported by AMD Opteron™ processor-based servers will help enable that growth while reducing the need to add physical servers. Read more about eHealth’s work in Nigeria on AMD’s customer reference website.

Making Personalized Medicine Affordable

Personalized medicine has the potential to revolutionize the practice of medicine by providing healthcare professionals with timely and accurate data about their patients. It involves creating prevention and treatment plans that are tailored to an individual based on data obtained from their DNA. This can help medical professionals diagnose diseases more accurately and enhance the effectiveness of the selected treatment. DNA sequencing also provides information on a patient’s predisposition for certain diseases and conditions, which is a powerful tool to help with prevention.
Unfortunately, DNA sequencing can be prohibitively expensive – about $50,000 per individual – and therefore out of reach for many patients. Using **Ranger**, a supercomputer driven by AMD Opteron™ processors, Dr. Aleksei Aksimentiev, Assistant Professor of physics at the University of Illinois at Urbana-Champaign, is developing a new process that could reduce the cost of DNA sequencing to less than $1,000 per individual, paving the way for personalized medicine to become widely available.

Located at the Texas Advanced Computing Center at the University of Texas at Austin, **Ranger** enables Dr. Aksimentiev to run complex simulations that help increase the speed and efficiency of DNA sequencing testing. With approximately 60,000 AMD Opteron™ processor cores driving the compute capability, **Ranger** is one of the most powerful academic supercomputers in the world.

> “**We are using supercomputers to discover new ways to sequence DNA to make this procedure faster and less expensive so it can be used as a routine medical procedure. It’s really the ultimate diagnostic tool to determine all kinds of genetic disorders.”**
>  
> – Dr. Aksimentiev

Listen to Dr. Aksimentiev discuss his work on NPR’s Earthsky podcast, available on AMD’s customer reference website.

**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** and 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 reference website.

**Improving Our Understanding of Climate Change**

The **Kraken** computer, operated in a joint program between the University of Tennessee and Oak Ridge National Laboratory, was the first academic “petascale” supercomputer—meaning this system can perform more than one thousand trillion operations per second. Using AMD Opteron™ processors, **Kraken** allows scientists to create and run models that simulate complex energy and environmental phenomena more efficiently than was previously possible.

Researchers are using **Kraken** 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 towards identifying the most efficient and effective ways to both combat and adapt to climate change. Read more about Kraken weather simulations on AMD’s customer reference website.

The AMD Opteron™-powered SHARCNET is another supercomputer engaged in climate change research. SHARCNET (Shared Hierarchical Academic Research Computing Network) is a consortium of Canadian universities, colleges and research institutes that provide a network of high-performance computers and software, in essence a “cluster of clusters.” As a shared computing resource for universities and laboratories, it 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.

In addition to climate change modeling and prevention scenarios, SHARCNET’s HPC models and simulations are addressing a number of other promising research areas, including understanding how highly infectious diseases are spread, and identifying containment and prevention options, as well as developing environmentally friendly vehicles. Read more about SHARCNET on AMD’s customer reference 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 that 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 assure that 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 EICC. We have adopted the standards within the EICC Code and expect our suppliers to conform to them. 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 2011, 54% of our major supplier facilities completed the EICC self-assessment questionnaire (SAQ) and 26% underwent EICC Validate Audit Program (VAP) audits.

**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 2011, social and environmental responsibility (SER) criteria were qualitatively discussed in performance discussions with our top-tier suppliers. In 2012, we will fully integrate SER into the quantitative supplier performance scores. This will create a greater incentive for meeting and exceeding AMD’s SER expectations. We also plan to work with our wafer foundry partners to establish additional SER objectives and targets.
Supplier Performance Management — AMD recognizes its suppliers who demonstrate leadership in performance, show continuous improvement and offer differentiated value. SER is an essential criterion in our supplier recognition program.

New Requirements

AMD is actively working to address the pending conflict minerals regulations which are expected to be released in 2012. We have also formerly addressed the 2010 California Transparency in Supply Chain Act.

Conflict Minerals

The DRC has been the site of one of the world’s worst humanitarian crises throughout the last decade. An estimated 5 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.

In 2010, a new law was enacted requiring U.S.-based public companies to disclose the measures they have taken to identify these so-called “conflict minerals” in their supply chains. This new law—part of the Dodd-Frank Wall Street Reform and Consumer Protection Act—requires the SEC to draft a rule setting out the standards for due diligence and reporting.

The SEC rule, while not finalized as of March 2012, will require affected companies (including AMD) to report the measures they have taken to identify the source of conflict minerals—tin, tungsten, tantalum and gold—as well as disclosing which of their products are not “conflict-free.”

Although the mining of mineral ore in Africa is several steps removed from the manufacture of high-tech electronics, AMD has responded. Even before the passage of the Dodd-Frank law, AMD engaged with other companies in the electronics supply chain as well as NGOs and SRI groups to propose effective, consensus policies to implement the law.

One such engagement is with the Enough Project, a U.S.-based NGO that includes representatives of other NGOs, SRI groups and companies from multiple industrial sectors. AMD chairs this multi-stakeholder group whose goal is to create a workable consensus policy for implementation of the U.S. law. To date, this working group has delivered four letters to the SEC with consensus policy positions. Each letter was endorsed by approximately 25 organizations.

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7 General 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).

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 proposed SEC rule.

AMD believes that effective implementation of the new law must involve three fundamental elements:

- An “in-region” mineral certification system that enables the traceability and certification of minerals mined in the DRC region.
- A conflict-free smelter program that enables third-party validation of a smelter’s sourcing practices and a determination of whether its sources are conflict-free.
- Due diligence to verify that the metals in finished products can be traced to a certified conflict-free smelter.

AMD plays a leading role in initiatives that support each of these elements:

- To support the development of a reliable “in-region” sourcing process, AMD is actively working with stakeholders from government, civil society and the SRI community.
  - AMD is a founding member of the PPA for Responsible Minerals Trade. The PPA is a multi-stakeholder group composed of NGOs, companies and social investors, as well as the U.S. Department of State and U.S. Agency for International Development (USAID). This group, formed in November 2011, is 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. The group will work with Congolese partners, the private sector and civil society to help ensure responsible trade in minerals that does not benefit rebel groups or abusive army units.
  - Throughout 2011, AMD met with senior officials in the U.S. State Department, including Undersecretary of State for Economic, Business, and Agricultural Affairs, Robert Hormats; Assistant Secretary of State for African Affairs, Johnny Carson; and the special envoy to the DRC region, Ambassador R. Barrie Walkley. The purpose of these meetings was to provide our input to the U.S. government on appropriate actions needed for responsible minerals trade in the DRC region.
  - AMD also participated in the SEC’s roundtable on conflict minerals and spoke on a panel with Robert Hormats, Ambassador Faida Mitifu of the DRC and others at the Woodrow Wilson International Center for Scholars.
- AMD supports the “conflict-free smelter program” through our collaboration with the EICC. Smelters are the natural choke point in the supply chain—meaning that there are numerous sources of raw materials (ore) that flow into a smelter and numerous uses of the refined metal that leave the smelter. The objective of this program is to audit smelters of tin, tantalum, tungsten and gold, and identify those that do not use minerals associated with conflict.
- AMD is also working closely with EICC to develop a standardized process for tracking these
minerals from the smelter through the electronics industry’s supply chain. While this effort is still very new, the intent is to build a streamlined system that is efficient and effective for the entire supply chain.

> Within our own supply chain, AMD has developed processes to identify conflict minerals. We have utilized the standardized EICC processes to trace the minerals back to the smelters of origin and correlated these with the conflict-free smelter program. While mapping our supply chain back to the smelter is complex, we have had some early success and are committed to the process. AMD plans to continue to work with our business partners—both customers and suppliers—to develop a workable and efficient tracking system as the SEC rules are finalized.

We are mindful that tracking metals through the supply chain is only one facet to ending the suffering in the DRC. Deeply rooted socioeconomic factors must be addressed by governments, civil society, private sector interests and others. Additionally, if the implementation of the new law is not carefully managed, it may have the unintended consequence of banning or significantly reducing mineral exports from the DRC region, which could lead to even more suffering.

AMD will continue to work with all stakeholders to help ensure this policy results in tangible improvements in the DRC. While AMD and the electronics industry have an important role in improving conditions in the DRC, sustainable success requires long-term focus from all stakeholders.

**California Law**

The California Transparency in Supply Chains Act of 2010 (SB 657) 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 has published a summary of our activities to identify and prevent human trafficking and slavery activities by our vendors on our [website](#).

**Supplier Diversity**

In 2011, AMD continued to build the foundation for a robust Supplier Diversity program for U.S.-based spending. The following activities have been completed to date:

> We developed a process to measure our spending with our registered U.S-based minority, small business, women-owned, veteran and Hub zone suppliers.

> We joined with a number of large U.S. companies to drive development of Supplier Connection, a website designed to promote small businesses and encourage job growth in the U.S.

> We joined the Southwest Minority Supplier Development Council, whose purpose is to be the minority business owner’s direct link to larger corporations in the U.S.

> We enhanced 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 2011, 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

GRI Index Ref: EC9, S01

AMD Changing the Game, our signature education initiative 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 AMD regions around the world, including China, Malaysia, Canada, Europe and the Middle East, with plans to expand to Latin America in 2012.

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, as well as 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.9,10

According to the 2009 High School Survey of Student Engagement (HSSSE)11, a full two-thirds of American high school students report being bored in class every day. Yet, those same students who are tuning out in school are tuning in to video games outside of school, with the PEW Research Center estimating that 97% of teens in the U.S. play online games.12

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.

Research has also shown that high-tech environments can improve students’ standardized test scores and decrease failure rates.13 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 more than 20 technology centers throughout the world ranging from mobile labs for the Girlstart to Go program, to technology centers for Boys & Girls Clubs of America and Canada, and middle schools in Austin, Texas, and Beijing, China. During this same period, the AMD Foundation has awarded grants to fund more than 40 programs operated by 26 organizations around the world, for a total of $3.9 million in support of the program. The grants have supported workshops, research and curriculum development for game design and development programs for youth.

10 Globalaria East Austin College Prep Academy 2010 annual report.
Focus Areas

AMD Changing the Game is based on four major program elements that create an innovative curriculum 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 and Girls Clubs of America (BGCA) across the United States and two 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
- 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 and Colorado
- Green Ribbon Schools after-school game design workshop and national game design competition
- Summer game design workshop at Dandelion Middle School, Beijing, China.
- York University game design workshop in Toronto, Canada
- Summer game design workshop with Skillpoint Alliance and Pflugerville Independent School District

**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 and 2012 National STEM Video Game Challenge, a multiyear video game design competition inspired by the Educate to Innovate Campaign, 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.
- Co-sponsored the Malaysian Cybergames Festival 2010, including the “Dare to Create” digital game design and development workshop.
- Funded the Alliance for Young Artists & Writers new video game design category for the 2010 and 2011 Scholastic Art & Writing Awards.
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. Game design activities funded since 2008 have included:

- The development of PETLab’s “Activate!” game design website and curriculum, available in both English and Mandarin.
- The development of the Alliance for Young Artists & Writers and Scholastic Online Game Development Portal for teachers called “Level Up!”
- 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.

- In support of the U.S. Educate to Innovate campaign, AMD renewed its membership 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 chairs the “Game On” committee, comprised of industry partners and 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 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 U.S. from 2008 through 2011, and sponsored the 2011 Games for Change Festival in Europe and Latin America.

- AMD co-sponsored the South by Southwest education conference (SXSWedu) that supports innovations in learning using 21st-century content delivery and best practices for education professionals.

Program Goals and Measures

In June 2008, AMD Changing the Game launched this innovative educational program with 80 students in the United States. By 2011 the program had reached more than 55,000 youth in six countries with plans to reach one million students by 2020. 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.
Table 4: Results- Overall Metrics for AMD Changing the Game

University Relations and Student Experience

GRI Index Ref: EC7

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 with 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 $2.1 million USD in 2011.

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 the next generation leaders who will tackle the world’s toughest problems through 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 career. 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.

In 2011, AMD launched the Master of Business Administration (MBA) Summer Internship program and the MBA Leadership Development Program (LDP). The Internship is an intense 10-week long program, and students are asked to participate in development opportunities in addition to their assigned high-impact projects. Interns participating in the two-year rotational LDP program alternate through three functional groups, gaining a broad understanding of AMD and the semiconductor industry. Both of these programs lead current MBA students and recent graduates through the rigors of development assessments, group assignments, community service, team building and executive forums.
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 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 our three “Assembly, Test, Mark and Pack” (ATMP) facilities in Asia and the remaining “non-manufacturing” sites.

ATMP Sites

AMD’s owned and operated manufacturing facilities perform various combinations of ATMP services at three locations—Penang, Malaysia; Singapore; and Suzhou, China. To track performance in operational efficiency and account for growth, we have normalized environmental emissions and water use from these facilities by a Production Index (PI) that takes into account the number of units assembled and tested as well as process cycle times—an indicator of processing complexity.

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
- 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 towards our goals. The transfer of wafer manufacturing in March 2009 materially changed our environmental footprint. Accordingly, we reset the baseline for measuring our environmental performance to 2009 (excluding the impact of the fabrication facilities that were transferred in 2009). Thus, the environmental performance metrics in this report are shown for 2009, 2010 and 2011. Environmental performance data from prior years, which reflect the wafer manufacturing facilities transferred in 2009, are available on our website.
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, California. We also report data collectively for other facility locations including Bangalore and Hyderabad, India; Shanghai, China; and Cyberjaya, Malaysia.

Global Environmental Goals and Performance

GRI Index Ref: EN7

AMD’s environmental goals were established in 2011 to reflect our business model as a semiconductor design and marketing company, and to appropriately reflect the functional differences between our manufacturing and non-manufacturing sites worldwide. Each goal is based on a five-year timeframe—from a 2009 baseline year (when AMD divested its wafer manufacturing operations) to a target year of 2014.

<table>
<thead>
<tr>
<th>GOAL AREA</th>
<th>GOAL</th>
<th>SCOPE &amp; MEASURE</th>
<th>2011 STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHG Emissions .............</td>
<td>5% reduction</td>
<td>Non-Manufacturing: Absolute reduction</td>
<td>Ahead of target (8.1% reduction)</td>
</tr>
<tr>
<td>Water Use .....................</td>
<td>20% reduction</td>
<td>Non-Manufacturing: Normalized by employee count</td>
<td>On-track (14.9% reduction per employee)</td>
</tr>
<tr>
<td>Waste (Non-hazardous) ....</td>
<td>70% diversion</td>
<td>Percentage of waste kept out of the landfill</td>
<td>On-track (57% waste diversion)</td>
</tr>
</tbody>
</table>

Baseline Year = 2009; Goal Year = 2014.

Table 5: Environmental Goals and Performance

Climate Goal and Performance

Goal—AMD’s climate goal is to reduce GHG emissions\(^{14}\) (Scope 1 and 2) by 5% or more by 2014 (from the 2009 baseline). The 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. The 5% GHG emissions reduction goal for our manufacturing sites is normalized to a PI. The manufacturing PI is derived by multiplying the number of units processed by the average cycle times (duration of test or assembly) of a product.

Strategy—AMD’s strategy for climate protection is to directly reduce our carbon footprint through site operations’ conservation projects and efficiency improvements as our first priority. As part of this effort in 2011, individual sites identified and implemented numerous conservation projects and initiatives.

such as optimizing and replacing chillers, using more efficient lighting technologies and schedules, and powering down boilers and compressors when not being utilized.

We continued to purchase 100% renewable energy (wind) to power our AMD Lone Star campus as we have done since the facility became operational in 2007. We also plan to evaluate future onsite renewable energy opportunities such as installing onsite solar panels and purchasing Renewable Energy Credits (RECs).

Performance— In 2011, AMD’s progress towards our GHG goal was partially successful. Non-manufacturing sites achieved an 8.1% absolute reduction in GHG emissions compared to 2009, and a 2.4% reduction compared to 2010. The reduction in emissions from 2009 was the result of overall reduced energy use, as well as 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. While we are pleased to be ahead of our five-year targets for GHG reductions at non-manufacturing sites, our projected growth and expansion will prove challenging in meeting our 2014 absolute reduction goal.

Performance against our normalized GHG emission goal for our manufacturing sites is off-track as of 2011, at 1.6% above our 2009 baseline. The increase in normalized emissions is primarily due to a decrease in the normalization factor (production PI) at some ATMP sites compared to 2009. The decrease in PI was the result of both lower number of units manufactured at some sites and changes in product cycle times. Although our normalized metric was off-track due to decreased production, the absolute GHG emissions decreased by 3.6% at ATMP sites from 2009 to 2011 largely as a result of reduced electricity use. Continued improvements in operational efficiencies and conservation efforts are expected to continue to improve performance on this goal in the future. For details on energy conservation projects, please see AMD Site Reports.

In 2011, despite a 3.6% decrease in absolute emissions at our ATMP sites since 2009, the normalized GHG emissions have increased by 1.6%, largely due to decreased production. The overall decrease in emissions was primarily due to a 50% reduction in electricity use at our Singapore facility. We achieved 8.1% absolute GHG reduction at our non-manufacturing sites since 2009 due to a slight decrease in energy use and purchasing a cleaner mix of electricity generating sources in some regions.
Water Goal and Performance

Goal—AMD’s goal is to reduce water usage by 20% or more by 2014 (from the 2009 baseline). Water use at non-manufacturing sites is normalized to the number of employees and manufacturing sites to PI.

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. AMD also engages employees and our site “Green Teams” to help promote water conservation onsite.

Performance—Progress towards this goal in 2011 was partially successful. Non-manufacturing sites ended 2011 ahead of target and successfully reduced water use by 14.9% per employee over the baseline year. Our Lone Star campus in Austin, Texas, despite a historic drought in 2011, did not use ANY municipal water to irrigate landscaping during the year. The 100% native vegetation was minimally watered using condensate from our cooling systems and 1.2 million liters of captured rainwater. An additional 3 million liters of captured rainwater was used for the site’s cooling towers.

Normalized water use at our manufacturing operations increased by 32.8% over the baseline year. This increase began in 2010 due to a manufacturing change that required a significant increase in water used for a new cleaning process. In 2011, AMD also completed construction of a new assembly building at our Suzhou, China site. This resulted in a significant increase in water use during building and production startup. Overall water use per PI increased despite water re-use and conservation projects implemented in 2011. Examples include our Penang site reusing condensate water from the air handler units to fill the cooling tower and our Singapore site installing low-flow regulators on 110 water taps. For details on water conservation projects, please see AMD Site Reports.
In 2011, AMD announced a goal to reduce normalized water use by 20% from 2009 to 2014. Normalized water use at our ATMP facilities increased by 32.8% from 2009 to 2011. This was largely due to a process change at our Penang, Malaysia facility in 2010 and construction of a new assembly building at our Suzhou, China facility in 2011. Going forward, we are making additional efforts to reduce the rate of water use at these facilities to meet our 2014 goal.

At our non-manufacturing facilities, our 2014 water use reduction goal is 20% per employee. In 2011, water use per employee decreased by 14.9% at non-manufacturing sites, largely due to consolidating operations into the more water efficient Lone Star facility, as well as reducing irrigation water use at our Sunnyvale location.

Wastewater discharge at AMD is measured only for sites with wastewater discharge permits. The amount of wastewater discharged increased by 28% from 2009 to 2011 largely because of a process change in our Penang, Malaysia facility and increased water use at the new Suzhou, China assembly facility.
Non-Hazardous Waste Goal and Performance

Goal—AMD’s 2014 non-hazardous waste goal is to divert 70% 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 in 2009 was 40%, increasing to 51% in 2010 and 57% in 2011. The improvement was, in part, due to the implementation of organic waste composting in Austin, Markham and Penang. Sunnyvale began composting in February 2012 and will contribute to the goal. AMD Green Teams conducted cup-reuse campaigns and recycling education initiatives, and data tracking methods were improved. For details on waste reduction projects, please see AMD Site Reports.

In 2009, AMD announced a new goal to divert 70% of trash from landfills by 2014. At our ATMP facilities, waste diversion has increased from 32% in 2009 to 49% in 2011, due in part to our Singapore location reaching 100% diversion from a government “waste-to-energy” incineration initiative. Recycle rates at our non-manufacturing sites have increased from 46% in 2009 to 61% in 2011, partially due to organic waste composting and data tracking improvements.

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 96 metric tons in 2011. This was mainly due to the reclassification of scrap product sent off-site for precious metal reclaim as hazardous waste. 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 98% of this waste is recycled.
Addressing “Other Indirect” Emissions

GRI Index Ref: EN29

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

> **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 6 largest facilities; 2011 levels have decreased 27% from 2009.

> **Business Travel**—AMD has had a 9.2% decrease in business travel emissions from 2010 to 2011.

> **Product Shipping** (not including outsourced product shipments)—Emissions associated with AMD’s product shipping decreased by 12% from 2010 and 35% from 2009 mainly due to a decrease in packaging size and use of 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, starting in 2010,
AMD now holds regular meetings with our wafer foundry suppliers to coordinate and evaluate environmental goals and performance. For more information refer to the Supplier Responsibility section of this report.

Environmental, Health and Safety Management Systems

GRI Index Ref.: SO9

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. 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.

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. A farm-food-delivery program was also started in Austin, Sunnyvale and Markham to encourage employees to have local and organic food delivered to their door.
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 in North American and India quickly search for ride-matches, bike routes and bike buddies, and public transit options. Any AMD employee can log drives avoided and enter monthly drawings. Other incentives in North America include preferred parking, bike shop discounts, public transit pre-tax benefits (U.S. only) and electric vehicle charging stations at selected sites.

In 2011, participants avoided over 934,000 km of driving, which prevented 230 metric tons of CO₂ emissions, conserved 98,000 liters of fuel and saved $122,000. Since the program began in 2007, more than 5 million km of driving have been avoided along with 1,286 metric tons of CO₂ emissions, which is about as much CO₂ sequestered by 33,000 tree saplings over 10 years.

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 2011, AMD encouraged and supported the formation of a network of employee-led Green Teams. Our employees responded by doubling the number of AMD Green Teams for a total of 10 worldwide. Employee participation in our Go Green Program increased by about 27% over 2010 and reached 1,650 registered participants around the globe. These eco-minded Green Team participants volunteered 680 hours of time in 2011, and their outreach efforts directly benefited 2,575 employees through event participation. Participants implemented projects such as lunch-and-learns, cup reduction campaigns, lighting audits and trash cleanups in the community.

Risks and Opportunities Related to Climate Change

GRI Index Ref.: 1.2, 4.11, EC2, EN6

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.

When we transferred fabrication operations in 2009, their associated climate impacts moved outside of our direct operational control and into our supply chain. As a result of this, we have increased our focus on environmental performance in our supply chain. AMD has forged strong relationships with our suppliers and, working with our supply management team, we engage our suppliers on their efforts to manage their climate impacts. We do this in a prioritized way, focusing most of our efforts where there are the largest potential impacts such as in our outsourced water manufacturing operations. While we are not able to publish data on these efforts in this report, we anticipate releasing this information in our next annual report.

We have assessed the potential risks that climate change could have on our business. Although not currently believed a material risk, AMD and our suppliers are exposed to certain physical risks associated with climate change. But there are also potential opportunities for our products to be part of the solution.
Physical Risks

Our employees and operations could be exposed to physical risks to the extent that climate change results in extreme weather events such as flooding or extreme heat and cold. AMD has 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 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 energy efficient but, according to the SMART 2020 study, applying digital technology to increase energy efficiency is estimated to have the potential of reducing 15% of the world’s total greenhouse gas emissions by 2020. AMD participates in an educational initiative called the Digital Energy Solutions Campaign to help realize this potential.
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.

In fourth quarter 2011, AMD announced a restructuring plan and implementation of operational efficiency initiatives designed to strengthen the company’s competitive positioning. These actions were taken to create a more competitive cost structure and rebalance the company’s global workforce skillsets, helping AMD to continue delivering industry-leading products while improving productivity, reducing time-to-market and better aligning with key industry trends that are expected to drive growth. The result was a 10% reduction in our global workforce.

While reducing our workforce is sometimes necessary, we understand the disruption this can cause in the lives of our employees so we take action to reduce these impacts. AMD offered eligible employees severance packages in line with industry standards and current 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.

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 following sections describe the programs that support our employees:

- Global Inclusion
- Equal Opportunity Employment
Global Inclusion

Just as AMD’s technology represents an optimal combination of different design principles, AMD’s workforce is comprised of creative minds and diverse perspectives drawn from all over the world. Our commitment to an inclusive environment drives a culture of collaboration, alignment, information sharing and the rapid adoption of new ideas, ultimately leading to relevant, timely and innovative technology products designed to enable positive end-user experiences. In 2011, AMD increased its focus in this area through the appointment of a Director of Global Inclusion. This new position provides a focal point to create awareness of the business case surrounding diversity and inclusion, drive an inclusive culture with an emphasis on specific employee groups, and integrate and align with other AMD functions to create holistic strategies and programs.

AMD recruits and develops the most talented minds in the industry and rewards them for their contributions. We know that our success hinges upon an inclusive environment that allows each unique voice and perspective to be heard in service to ultimate creativity. The value of this program will be manifest by the innovation stemming from diversity of thought and perspectives coupled with an inclusive culture.

As an initial step, the Global Inclusion team deployed a cultural assessment throughout AMD, leveraging executive input, focus groups and employee surveys to uncover the largest opportunities globally that would enable an inclusive culture. The findings from the cultural assessment are being used in two important ways at AMD. The first is to drive the creation of The AMD Way, a cultural mandate that is made up of the values we share, the expectations we have of ourselves, and the day-to-day behaviors of every AMD employee. The AMD Way is coming to life through a variety of employee communications and programs, development workshops, policies and practices on a global basis.

The next greatest leverage of the cultural assessment is to define the largest opportunities we have available to make AMD an employer of choice. The assessment pointed to specific areas of focus that will lead the way on AMD’s journey to a fully inclusive environment:

> Global Empowerment
> Gender Inclusion
> Generations

The 2012 Global Inclusion strategy includes multiple initiatives to drive inclusion in these areas, including leadership/role modeling programs, communications and involvement, education and training, and finally, measurement and accountability.
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. AMD has a robust process to fully investigate and address all complaints regarding workplace discrimination, and offers its 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 that the company maintain a talent pipeline by attracting and retaining a well-trained, highly-skilled and highly educated workforce. To remain competitive, AMD constantly monitors 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 employee financial security. 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 internal 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. AMD’s employees also benefit from various types of employee assistance.
programs to help resolve personal and professional issues. Our employee benefits programs meet and often exceed the benefits required by applicable laws and regulations.

**Employee Pay for Performance**

*GRI Index Ref.: LA12*

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 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 the 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 that 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.

Our process provides clear expectations, continuous feedback and a focus on employee development. In 2011, 95% of AMD employees received performance reviews which included an open, two-way performance and career development discussion between the employee and their manager.

**Employee Education and Training**

*GRI Index Ref.: LA10, LA11*

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, 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](http://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.

The company provides a variety of programs for employee enrichment and development including:

> **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:

  o **Supervisors Leadership Experience (SLE)**—for individual contributors who have recently moved into supervisory roles

  o **License to Lead (L2L)**—for managers with less than three years direct people management experience

  o **Managers Leadership Experience (MLE)**—for top talent experienced managers

  o **Directors Leadership Experience (DLE)**—to enhance the leadership skills and business acumen of all directors at AMD

  o **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)—a new program 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
- Presentation Skills—improving 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

Since 2001, more than 2,500 employees have participated in at least one of the above programs.

In 2011, AMD also required online training through its Legal Compliance Education Center (LCEC) in the following areas:

> AMD’s Worldwide Standards of Business Conduct (for all new hires globally)
> Preventing Sexual Harassment (for all U.S. employees who had 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

**Human Rights**

*GRI Index Ref.: HR1*

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 (WWSBC)](https://www.amd.com), the EICC Code of Conduct, as well as in [AMD’s Human Rights Statement](https://www.amd.com) 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 a copy of AMD’s WWSBC and are trained 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 WWSBC.
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 GEHS 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; Singapore; and Suzhou, China, are certified to the Occupational Health and Safety Assessment Series 18001 (OHSAS 18001) Standard.

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 have been trained for each site with first responder capabilities for emergencies such as medical, evacuations, fire, chemical and others as appropriate for site operations. The teams are comprised of employees from different functional areas of the company who volunteer to receive the appropriate training necessary to respond to site emergencies.

We closely monitor the effectiveness of our 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 a worker’s 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 the performance of 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 performance indicator tables.

AMD's goal is to continuously reduce occupational injury and illness case rates. In 2011 our worldwide case rate increased from 0.17 in 2010 to 0.32 cases per 100 workers in 2011, but is well below U.S. OSHA rates. The greatest increase is attributed to ergonomic-related injuries. Part of the increase is due to increased employee awareness of ergonomic issues – a result of a campaign at AMD over the past year. We are working on an improved process for providing ergonomic equipment and furniture, ensuring employees are properly educated on the use and adjustment of their workstations, and increased employee awareness and training to address concerns in the early stages.

The second most frequent injuries were the results of slips and falls. AMD has investigated and addressed the root causes of these injuries and has increased communication to employees to raise awareness and educate them on measures preventing slip and trip hazards.

In the U.S., AMD's occupational injury and illness case rate increased from 0.20 in 2010 to 0.57 cases per 100 workers in 2011. Lost Work Day case rate remained low at 0.03. Although AMD's case rate has increased, the majority of AMD's cases did not require time away from work as indicated by the continued low lost day rate.

Crisis Management

AMD has crisis management plans in place to appropriately respond to global and site emergencies and business interruptions. The plans consist of 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.

Our crisis management plan proved a tremendous benefit as the company responded to the May 11, 2011 earthquake and subsequent tsunami in Japan, which impacted many AMD employees. Our global Crisis Management Team monitored the situation closely and worked directly with the site Crisis Management Team to assess and manage the situation. Employees were quickly provided relevant emergency information and support through the employee assistance program. As the situation escalated, employees were also offered relocation transportation and temporary housing in established safe areas.

**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 2011, 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 newsletters 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% 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 site 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, 2011, 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 U.S. 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 ManagerSM. Employees were offered an incentive of $100 to take advantage of WebMD Health Manager.

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 that are labeled with nutritional content. In addition, AMD 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 in 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.
- Promotion of the Lance Armstrong Foundation’s LIVESTRONG Challenge.

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, and 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 Careers.

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 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.
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, we have 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 in a variety of ways: by coordinating company-sponsored volunteer events; connecting employees with volunteer opportunities in their local communities; and matching employees’ charitable gifts of time and money. In 2011, employees and contractors at 17 AMD sites in Canada, China, India, Malaysia, Singapore and the United States recorded the following accomplishments:

> Volunteered more than 12,693 hours (a 5% increase from 2010)
> Donated 1,332 units of blood (a decrease of .3% from 2010)
> Participated in 253 company-sponsored volunteer events (a 28% increase from 2010)
> 1,534 employees volunteered in their communities (a 3% decrease from 2010)

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 launched AMD Community Corps Connect in 2011, an interactive website that facilitates volunteerism and giving. Through AMD Community Corps Connect, employees can network with fellow employees to organize volunteer events, make charitable donations and request matching funds.

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

**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 2011, ten employees were recognized around the world for their exceptional volunteer efforts.
• Cathy Roach, Austin, TX, USA – volunteers with the Capital Area Food Bank.
• Michael Vance, Bellevue, WA, USA – Board member of Songea' Kids.
• Joseph Raza, Boston, MA, USA – volunteers with the Boys & Girls Club and food pantries, and also officiates at Special Olympics basketball games.
• Donna Rupert, Fort Collins, CO, USA – volunteers with Open Door Mission and Fort Collins Habitat for Humanity.
• Piyush Sohaney, Hyderabad, India – volunteers with the Akshaya Patra Foundation and the Thalassemia & Sickle Cell Society.
• Carrie Yuen, Markham, Ontario, Canada – volunteers with The Heart and Stroke Foundation, Terry Fox Foundation and Princess Margaret Hospital Foundation.
• Soon Cheng Leong, Penang, Malaysia – volunteers with The Young Enterprise (YE) Program.
• Sarah Li, Shanghai, China – volunteers with the EXPO Metro Volunteer Program and the Shanghai Pudong Special Education School.
• Richard West, Sunnyvale, CA, USA – volunteers with The Tech Museum in San Jose, California.
• Jiao Jie, Suzhou, China – volunteers with the ChengShan Program, a collaboration between AMD and the Suzhou Red Cross.

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 2011, AMD Volunteer of the Year was Cathy Roach, Executive Assistant, Austin, Texas. Read more about all of our volunteers on our AMD in the Community website.

Cathy Roach
AMD Austin
2011 AMD Volunteer of the Year

An AMD employee since 1993, Cathy inspires others with her focus on helping those who are less fortunate. Ms. Roach has volunteered with the Capital Area Food Bank (CAFB) for 13 years. She is a trusted volunteer leader and serves on the volunteer leader task force that meets on a quarterly basis. The food bank depends on volunteers like Cathy – fully 98% of the work done at CAFB is done by volunteers.

“You don’t have to have a lot of money or an abundance of free time to volunteer and make a difference. First and foremost, being a volunteer leader lets me meet a lot of really wonderful people and enjoy their company while helping feed hungry Central Texans. It has enhanced my facilitation skills as I train other volunteers, and has taught me to be more patient, tolerant, understanding and caring about the many volunteers that help CAFB fulfill their mission.” - Cathy Roach, Executive Assistant, AMD and Capital Area Food Bank Volunteer Leader
Other Volunteer Activities

Global Volunteer Month—AMD hosted its second annual Global Volunteer Month in October 2011. 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, more than 500 employees from 16 sites volunteered more than 1,500 hours at 45 charitable events.

Team Development Grants—recognize teams of employees who volunteer with a local nonprofit or school. In 2011, 63 team-building grants ($500 USD each) were awarded to teams at 16 AMD sites, which benefited 35 agencies and schools.

Micro-Campaigns—on-site fundraising efforts for local community nonprofits and schools in AMD communities around the world. In 2011, 13 AMD sites promoted 43 micro-campaigns supporting 32 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

This program, funded by the AMD Foundation, supports 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 U.S. and Canada are eligible for participation in the AMD Employee Giving program. By matching our employees’ efforts, we not only create an incentive to support local communities, we also leverage their efforts with additional contributions. Our matching programs include:

Grant Incentives for Volunteer Efforts (GIVE) program—AMD contributes $15 USD for each hour that our U.S. and Canada-based employees and their spouses spend volunteering at eligible organizations.

Matching Gifts program—AMD matches 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 more than $7.2 million USD. When the AMD match is added to our employee’s contributions, the total is more than $14.7 million USD in support of hundreds of NGOs and schools. During that time, more than 149,000 volunteer hours were logged through the GIVE program.

Technology Infrastructure Development and Services

As part of our signature education program, 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 2011 towards technology infrastructure development included those shown in Table 6.
### Table 6: 2011 Infrastructure Development Contributions

<table>
<thead>
<tr>
<th>RECEIVING AGENCY</th>
<th>INFRASTRUCTURE INVESTMENTS/SERVICES</th>
<th>(USD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boys &amp; Girls Clubs - Austin</td>
<td>Game tech computer lab ......................................................................................................................................</td>
<td>$15,000</td>
</tr>
<tr>
<td>Boys &amp; Girls Clubs - Houston</td>
<td>Game tech computer lab ......................................................................................................................................</td>
<td>$15,000</td>
</tr>
<tr>
<td>Boys &amp; Girls Clubs - Menlo Park</td>
<td>Game tech computer lab ......................................................................................................................................</td>
<td>$15,000</td>
</tr>
<tr>
<td>Girlstart</td>
<td>Girlstart to Go mobile lab and classroom lab ......................................................................................................................................</td>
<td>$23,000</td>
</tr>
<tr>
<td>York University</td>
<td>Game design lab .......................................................................................................................................................</td>
<td>$15,130</td>
</tr>
<tr>
<td>Boys &amp; Girls Clubs of Canada</td>
<td>2 Game Tech computer labs ......................................................................................................................................</td>
<td>$46,000</td>
</tr>
<tr>
<td>Dresden Media Cultural Center</td>
<td>Computer lab for game design and digital media workshop ........................................................................................</td>
<td>$15,000</td>
</tr>
<tr>
<td>Green Ribbon Schools</td>
<td>Computers for teachers and to use as prizes for game design competition .......................................................................................</td>
<td>$23,000</td>
</tr>
<tr>
<td>East Austin College Prep</td>
<td>Computers used as prizes for Globey Game Design Awards .........................................................................................</td>
<td>$1,000</td>
</tr>
<tr>
<td>Whyville</td>
<td>Computers used as prizes for game design contest ......................................................................................................................................</td>
<td>$1,000</td>
</tr>
<tr>
<td><strong>TOTAL in 2011</strong></td>
<td></td>
<td><strong>$169,130</strong></td>
</tr>
</tbody>
</table>

#### 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 2011, AMD and the AMD Foundation’s combined direct and in-kind contributions totaled more than $4 million USD. Approximately two-thirds of this total was directed toward our AMD Changing the Game program and other educational efforts. In 2011, the Foundation awarded 20 grants for a total of $1.8 million in support of science, technology, education and math (STEM) learning through game design. The grants have supported workshops, programs, research and curriculum development for game design and developmental programs for youth globally. Read more about AMD Changing the Game, including its expansion into Abu Dhabi, Canada and Germany, in the [AMD Changing the Game](#) section of this report.

#### Protection of Open Space

AMD recently concluded the last in a series of grants to four organizations totaling $3 million to preserve open space in Central Texas. This commitment dates back to 2005 when AMD announced construction of our new LEED® gold certified campus in Austin, Texas. In order to create a highly sustainable campus, AMD invested in a design that used 20% less space than allowed by zoning, protected existing habitats and restored disturbed areas with 100% native plants. For more information, please see the [Lone Star Brochure](#).
One of the grant recipients, Hill Country Conservancy (HCC), is a nonprofit land trust that works with landowners and government agencies to preserve open space in the Hill Country of Central Texas. HCC establishes conservation easements that limit development rights and preserve significant and sensitive properties in their natural state. AMD contributed a total of $1.45 million to support those efforts.

“AMD’s generous support of Hill Country Conservancy's 'Vast Open Spaces' mission has made it possible to preserve these sensitive lands and conservation values in perpetuity. The citizens of Central Texas are ultimately the beneficiary of this extraordinary contribution to conservation by AMD,” – George Cofer, Executive Director of the Hill Country Conservancy

In addition to preserving sensitive landscapes, AMD’s contributions to the remaining three grant recipients have helped create a regional trail system and supported other conservation efforts in Central Texas including:

- $750,000 grant used to purchase the “Rim around the Canyon,” a strategic 44-acre parcel surrounding three sides of the Westcave Preserve canyon and waterfall.
- $700,000 grant to the Trust for Public Land (TPL) Texas Heritage Land Fund that was used to help permanently preserve environmentally sensitive land in Central Texas and complete two conservation projects on the Texas coast totaling 996 acres.
- $100,000 grant to the Lady Bird Johnson Wildflower Center to help restore native prairie and savanna landscapes along a one-mile public trail.

More detailed information and data regarding AMD’s contributions, including a breakdown by geographic region and giving category, is available in our Economic Performance Indicator Tables.
In 2011, 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**

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 that 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 oversees 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
- Member of the Makkula Center for Applied Ethics

**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 31, 2011, AMD’s Board consisted of 10 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 2012 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 and recommendation to the Board of corporate governance guidelines, the Principles of Corporate Governance, oversight of the evaluation of the Board and management, and oversight of an enterprise risk process

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 2012 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.

**AMD 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 (CRC) is a cross-functional team made up of executives from key departments, including finance, global supply management, engineering and business development. The council establishes CR 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 its 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 2011 fiscal year, and all of our director nominees for the 2012 Annual Stockholder Meeting, other than Mr. Rory Read, our President and CEO, and Mr. Waleed Al Muhairi, are independent in accordance with SEC and NYSE rules.

AMD’s Worldwide Standards of Business Conduct

AMD’s WWSBC 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 WWSBC 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 copies of, and training on, the WWSBC.

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 WWSBC 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 WWSBC. 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 updated accordingly.

AMD faces a variety of potential risks and disruptions to our operations and business that are discussed in our [2011 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. **Risks and Opportunities Associated with Climate Change** are reported in more detail in this report.
Management is responsible for day-to-day risk management activities and processes while our Board of Directors oversees risk management for AMD. In fulfilling this oversight role, our Board focuses on understanding the nature of our enterprise risks, including risk in our operations, finances and strategic direction, as well as the adequacy of our risk assessment and risk management processes. Our Board performs this oversight function primarily through management reports and committees of the Board. The Board receives full reports from each committee chair regarding the committee’s considerations and actions. The Board also receives management updates on AMD business operations, financial results and strategy and, as appropriate, discusses and provides feedback with respect to risks related to these topics.

The Risk Management Committee (RMC)—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—Reviews the Company’s portfolio of risk and discusses with management significant financial, reporting, regulatory and legal compliance risks in conjunction with enterprise risk exposures. The committee also 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. For 2012, the Audit and Finance Committee will assume responsibility for the oversight of enterprise risk, including overseeing AMD’s risk management process and the annual enterprise level risk assessment.

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—During 2011 was responsible for the oversight of the enterprise risk program.

AMD Political Action Committee

By 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 an 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 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**

*GRI Index Ref.: 4.12, 4.13, EC1, EC4, SO7, OS*

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, non-governmental organizations (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 metals, 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 regulations in India and China, the roadmap for a resource efficient Europe and the Strategic Approach to
International Chemicals Management (SAICM).

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.

For more information on AMD’s response to the Conflict Minerals issue, 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 North America, Europe and Asia to:

> Develop standards for energy-efficient computers, data center equipment and operations.
> Sponsor dialogue between public, private and educational 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 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) and other stakeholders on the development of the Product Attribute to Impact Algorithm tool (PAIA).
- Engaging in the development of the International Electrotechnical Commission’s international standards and the GHG Protocol.
- 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.

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, AMD is 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.

In 2011, AMD worked within the U.S. Information Technology Industry Council to develop, embrace and advocate 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 to be aware of the 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.

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.

In 2011, the Russian Federation’s Federal Antimonopoly Services (FAS) publicly recognized the fundamental importance of fair and open competition in the x86 microprocessor market. As the government noted, this is particularly true because there are only two major providers of x86 microprocessors. As a result, the FAS issued a directive to Russian public authorities mandating that they consider comparable Intel®-based platforms and AMD-based platforms and equivalent platforms from other suppliers (if they exist).

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.

**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
- ECMA International (a European association for standardizing information and communication systems)
- The Information Technology Industry Council (ITI)
- DigitalEurope
- The Green Grid
- U.S. Change the Equation
- Information Technology Association of Canada (ITAC)
- U.S. India Business Council (USIBC)
- The U.S. Semiconductor Industry Association (SIA)
- 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)
The sustainability of a global corporation depends on the combined efforts undertaken by every employee at every facility. AMD has 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, China and Singapore.

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. Many of these sites implement site-specific environmental, health and safety, volunteer and community involvement programs and have established employee “Green Teams, which focus on environmental improvements at their locations.
### Environmental Performance

<table>
<thead>
<tr>
<th>Parameter</th>
<th>GREATER CHINA</th>
<th>AMERICA</th>
<th>APAC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electricity Consumed (Gigawatt-hours)</td>
<td>50.4 7.2 1.2 7.1</td>
<td>74.4 27.3 30.1</td>
<td>60.6 5.4 73.5 4.3 7.4</td>
</tr>
<tr>
<td>Water Use (thousand m³)</td>
<td>135.7 na na 9.4</td>
<td>160.4 70.7 65.9</td>
<td>320.2 6.5 121.2</td>
</tr>
<tr>
<td>Waste Generation (Metric Tons)</td>
<td>301.2 na na na</td>
<td>375.9 644.6 362.7</td>
<td>320.2 na 217.1 na na</td>
</tr>
</tbody>
</table>

| Wellbeing                         |              |         |       |
| Illness and Injury Rates          | 0.31 na na na | 0.42 1.28 0.15 | 0.21 na 0.24 na na |

| Community Involvement             |              |         |       |
| Number of Volunteers              | 132 15 17 30 | 635 130 50 | 180 24 139 40 11 |
| Number of Volunteer Hours         | 619 103 80 129 | 4019 1011 635 | 2325 126 1907 698 131 |
| Number of Company-Sponsored Events| 15 2 4 4     | 70 41 12  | 11 2 44 11 4 |

Table 7: 2011 Site-Specific Performance Indicators

na= not available
GREATER CHINA

Number of Employees: 2,274

China has been AMD’s largest single market since 2006. AMD collaborates with China’s Ministry of Information and Information Technology (MIIT) on rural IT facility construction, IC design training, CPU test technology and industry policies and standards.

We also work with the government of Beijing, China, and Taiwan’s cloud computing industry association to develop and design cloud computing-based products and technologies.

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

Site Award


SUZHOU, CHINA

Site: AMD Suzhou
Year Established: 2005
Operations: Test, mark and pack facility for microprocessors in the Suzhou Industrial Park.
The Suzhou site completed construction of a new assembly manufacturing facility in 2011 that will begin assembly manufacturing operations in 2012.

Social Performance

Volunteer and community outreach activities in 2011 included the following:

> 35 AMD Suzhou employees participated in the 7th annual Suzhou Industrial Park (SIP) Deshan charity long distance running event to raise money for patients with uremia, a series of complications caused by the inability of the body to generate certain fluids through the kidney. AMD joined 9 other companies and 600 employees in this event.

> 39 AMD employees volunteered more than 942 hours to participate in the 2011 China Telecom Sky Wing 3G Cup Dragon Boat Race. All proceeds from this event supported Chengshan, an education program run by Suzhou Red Cross that raises funds to support disadvantaged university students.

> 27 volunteers including AMD employees and their families volunteered with the Suzhou Social Welfare Home to take 16 orphaned children to the zoo. The Home provides housing and schooling to over 200 physically handicapped orphans.

> As part of Global Volunteer Month, five employees celebrated Chung Yeung Festival, a day to remember and respect ancestors, by visiting and handing out gifts to the elderly residents of the LouFeng Apartment, located in the SIP near the AMD campus.
AMD provided 19 scholarships to Suzhou Electronic and Technical School.

AMD Suzhou sponsored and provided judges for the Suzhou University Electrical Design Competition.

The site leadership team visited Suzhou High School to share with the students and teachers AMD’s technology, company culture and background. The trip is an annual event.

**EHS Performance**

*Conservation*

AMD’s facility in Suzhou implemented three energy conservation projects, which cumulatively saved over $150,000 USD, conserved more than 1.3 million kWh and avoided 1,146 metric tons of CO₂. Projects included an LED lighting retrofit (saving about 43,700 kWh per month), reduced power usage for a chiller (saving about 220,000 kWh per month) and an HST (Hybrid System Tester) compressor project (savings about 239,000 kWh per month). These projects contributed to the SIP government’s “SIP Energy Efficiency Star” award.

*Events*

Approximately 85% of AMD Suzhou employees participated in one or more of the site’s activities during “EHS Week,” which was held in November. Events included “car free” day, fire education and drill, and an emergency response team (ERT) skill competition.

**BEIJING**

Sites: AMD Beijing  
Year Established: 2004  
Operations: Greater China Headquarters

**Social Performance**

30 AMD employees and their families volunteered at Beijing Sun Village, a home for more than 100 children of incarcerated parents. Beijing Sun Village aims to foster and educate the children by providing them a home, educational support, psychological consultancy, rights protection and vocational training. Volunteers spent the day weeding the orchard and helping the children with chores around the house. The highlight of the day occurred when the children made their own moon pies, a local pastry. Employees also generously donated books, stationery, clothing and toys.

**EHS Performance**

 AMD Beijing held an annual health check event with 300 AMD participants.

The site recognized Earth Hour by turning off all nonessential lighting for one hour and educating employees on the environmental benefits of reduced lighting.
TAIPEI
Site: AMD Taipei
Year Established: 1987
Operations: Corporate

Social Performance

> Ten AMD Taipei employees spent the afternoon with children at the Ronald McDonald House. Volunteers prepared lunch for the children and their parents, sang, read stories and created paper airplanes. The mission of the Ronald McDonald House is to create, fund and support programs that directly improve the health and wellbeing of sick children.

> In observance of Global Volunteer Month, seven AMD employees spent the afternoon at the Taiwan Hope Association for Children and Juveniles home. This home provides after-school care for children, assists them with homework and provides dinner. The employees allowed the students to play games on a Nintendo Wii and introduced them to AMD’s Eyefinity demo/gaming systems.

> Employees raised funds to support the United Way of Taiwan Japan Relief Efforts.

EHS Performance

AMD Taiwan offered periodic health checks from July to September. 279 AMDers participated in this event.

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 hosts several volunteer events each year with longtime partner, Pudong Special Education School, a school for disabled and deaf children. The students taught the AMDers how to dye a T-shirt using Chinese traditional art and communicated with the volunteers with sign language or pen and paper. An AMD team development grant of $500 was awarded to the school.

> Ten AMD Shanghai employees visited Xujiahui Sunny Home, which provides classes to mentally challenged children to help them integrate into society. The employees spent the afternoon creating Chinese folk art paper cut cards, making dumplings (a traditional Chinese food) and playing table tennis.
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.
THE AMERICAS

Number of Employees: 5,509

The Americas is the largest AMD region in terms of employee count, with more than 5,500 employees. Our Corporate headquarters are located in Sunnyvale, California, and our largest corporate campus is located in Austin, Texas.

Site Awards

Austin

> 2011 Capital Area Food Bank Hunger Heroes Award (1 of 5 recipients)
> American Heart Association Heart Walk—Top 5 Corporations for fundraising
> Central Texas Clean Air Partners Program “Commute Reduction Star” recognition for our employee commuter program
> Bicycle Friendly Business Certification (Bronze level) from the American League of Cyclists (2010-2013)
> Finalist in the Austin Chamber of Commerce “Environment Award” category for large businesses

Sunnyvale

> 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.

Markham

> Ride for the Heart “Golden Wheel” award for being the top fundraiser for the IT division.
> 2011 Employer of the Year—Honorable Mention by Smart Commute (Markham/ Richmond Hill) for effective promotion and use of alternative transportation.
BRAZIL AND LATIN AMERICA

An important region strategically for AMD, Brazil and Latin America is experiencing rapid market growth; in Brazil alone, AMD sales grew 25% from 2010 to 2011, a result of rising population and rising household income.

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 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. 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, produce and disseminate real-time weather forecasts. See the video.

> The HPC research facility at the University Center of the State of Pará (CESUP).

> The HPC center at Unicamp, a São Paulo public university that provides precise weather forecasting.

AUSTIN

Site: AMD Austin
Year Established: 1978 (Lone Star campus built in 2009)
Operations: Corporate offices, research and design and sales

Social Performance

> AMD Central Texas employees gave almost $70,000 in gifts (including the funds from AMD’s matching program) in support of the victims of the Central Texas fires. AMD donated an additional $55,000 in corporate support. 49 AMDers in Austin volunteered more than 176 hours to assist in the disaster response.

> 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 can’t afford the electricity to run the units during the intense summer heat. In 2011, employee gifts and AMD matching totaled more than $14,000.

> More than 170 AMD employees volunteered at the annual onsite food drive held during Global Volunteer Month at the Capital Area Food Bank (CAFB). The mission of the Food Bank is to nourish hungry people and lead the community in ending hunger.
Every month, 44 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 900 hours in 2011.

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 **Del Valle ISD** and the Teacher of the Year program and the **Junior League of Austin**’s Aid for Better Classrooms (ABC) Grants program. We also provide science teaching fellowship summer stipends to **Breakthrough**, an organization which helps low income students become first-time college graduates.

AMD, in partnership with 3M and the **Austin American-Statesman**, sponsored the Excellence in Writing Scholarship Competition as we have 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 recently concluded the last in a series of grants totaling $3 million to preserve open space in Central Texas. For more information, please see **AMD Foundation**.

**EHS Performance**

**Conservation**

Despite a historic drought in 2011, AMD’s 58-acre LEED Gold Certified Lone Star campus did not use ANY municipal water to irrigate landscaping during the year. The 100% native vegetation was minimally watered using condensate from the cooling system and 1.2 million liters of captured rainwater. An additional 3 million liters of captured rainwater fed the site’s cooling towers. AMD’s Lone Star campus is powered by 100% renewable electricity through Austin Energy’s GreenChoice program.

A new addition to the campus in 2011 was the “Smart-E Building” energy management tool that shows historical and real-time electricity usage for the entire campus and individual buildings. One of the buildings – B200 – has additional sensors to show electricity use by floor, wing or area (1/2 wing), as well as the ability to isolate usage by HVAC, plug outlets or lights. The tool helps our Austin facilities team proactively manage energy consumption by identifying abnormalities in energy use patterns. For example, a faulty automatic lighting schedule resulting in higher than expected usage was identified with the help of the system. The tool also helped measure the 145,000 kWh saved through a garage lighting reduction project.

The Lone Star campus began composting kitchen food waste in May 2011 as part of its waste diversion strategy. By the end of 2011, about 58,500 pounds had been diverted from landfills. In January 2012, the monthly weight diverted increased by approximately 48% over the 2011 monthly average due to the addition of coffee grounds from the coffee shop and discarded paper towels from bathrooms. Conservation projects also extended to AMD’s other Austin location (Building 3), where the facilities team was able to turn off natural gas valves to the main boilers for about two months, saving approximately 83 metric tons of GHG emissions.
Green Teams

AMD’s employee Green Team in Austin continued to be very active in 2011. Team members volunteered about 274 hours and reached nearly 700 employees through outreach efforts, such as a cup reduction campaign that reduced over 2 metric tons of waste, a lunch-and-learn series that educated 220 employees and a trail building project around the campus. Through various events, like the Earth Day fair, the Green Team helps promote employee-focused initiatives, such as the Farm-to-Home Food Delivery initiative that started in September.

Events

- 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 over 200 attendees. During the expo, flu shots and biometric screenings were offered. Over 650 flu shots were given and over 400 biometric screenings were done.
- 111 AMD employees participated in the American Heart Walk in October, raising $21,000.
- 11 AMD employees participated in the Livestrong Challenge in October, raising $4,600.
- AMD Austin held spring and fall 5K walking/running events.

SUNNYVALE

Site: AMD Sunnyvale
Year Established: 1969
Operations: Corporate Headquarters

Social Performance

- Every month AMD employee’s sort and package food for Second Harvest Food Bank. Second Harvest Food Bank is the primary source of donated, surplus and purchased food for nonprofit agencies in Santa Clara and San Mateo counties.
- Every month AMD volunteers unload, sort and distribute food at the Columbia Neighborhood Center to over 130 local families. An AMD Team Development Grant of $500 was awarded to Columbia Neighborhood Center on behalf of the employees who volunteered.
- AMD Sunnyvale employees volunteered as judges at the annual Tech Challenge science competition, a signature program of the Tech Museum in San Jose. The Tech Challenge introduces and reinforces the scientific process with a hands-on team project geared to solve a real-world problem.
- AMD Sunnyvale supports the San Jose State University MESA Schools Programs (MSP). Employees volunteer weekly at one of the local schools and also judge at the annual MESA Egg Drop Competition. The MSP enables educationally disadvantaged students to prepare for and
graduate from a four-year college or university with a math-based degree in engineering, science, business or mathematics.

> More than 1,200 AMD employees and guests attended the on-campus **AMD Sunnyvale’s annual Family Fun Day** with food and activities for AMD families.

> AMD Sunnyvale employees collected, sorted and boxed 163 pairs of shoes for the **Soles4Souls** drive. Shoes are distributed to people in over 125 countries, including Kenya, Thailand, Nepal and the United States.

> Each December, AMD Sunnyvale employees collect toys and funds for the annual **Sunnyvale Community Services Toy Drive**.

**EHS Performance**

**Conservation**

> One of two chillers was replaced in March 2011 at AMD’s headquarters in Sunnyvale. Pacific Gas & Electric, which provided AMD a rebate for $16,740 for the project, estimates it will avoid over 75,000 lbs. of CO₂ per year. AMD plans to replace the second chiller in mid-2012.

> In the summer of 2011, three electric vehicle charging stations were installed at the Sunnyvale campus. The stations can charge up to six vehicles at once, and by the end of 2011 the stations were being fully utilized. AMD will evaluate adding more stations in 2012.

> AMD Sunnyvale participated in two energy curtailment events to help reduce peak demand in August and September (700 kWh and 600 kWh, respectively) by reducing lighting levels and thermostat settings.

> A lighting retrofit was completed that replaced 32 x 400 watt incandescent bulbs with 150 watt CFL bulbs, saving approximately 7,200 kWh per month.

> In late 2011, AMD Sunnyvale participated in a water audit with Santa Clara Valley Water District and a waste audit with the City of Sunnyvale’s Solid Waste and Recycling Departments. AMD has already implemented some of the recommendations from the audits, including using daily local weather information downloaded via satellite to determine irrigation needs and composting food waste in the cafeteria.

**Green Teams**

An AMD Sunnyvale Green Team was formed in mid-2011. The first major initiative from the volunteer employees was to organize a three-part lunch-and-learn series with Sustainable Silicon Valley, of which AMD is a member. The onsite educational series addressed creative ways to reduce environmental impacts at the level of individual, company and community. Other employee initiatives included participation in the Bay Area’s “Bike to Work” week, “Farm-to-Home Food Delivery” and a “Cycle for Points” program where participants earn discounts to Sports Basement for cycling to work.
**Events**

In May, AMD Sunnyvale participated in World No Tobacco Day with smoking cessation resources and information. The site’s Wellness@Work expo in September attracted about 300 attendees, 229 of which received flu shots and 146 received health screens. Over 20 participants 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**

> 30 AMD Markham employees rode 25 km-75 km 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, four Automated External Defibrillators were purchased.

> AMD Markham was the title sponsor and provided volunteers for the annual Mathletics for York Region students in grades 5-8. Mathletics, organized by volunteers from the York chapter of Professional Engineers Ontario, is a fast-paced competition with a goal of showing the importance (and fun) of math and its application within the context of solving engineering problems.

> AMD Markham participated in the 2011 United Way Dragon Boat event. The “AMD Bulldozers” Dragon Boat Team paddled hard to their victory over another high tech company in the Tech Industry Challenge, taking home the gold in ‘B’ Division Finals. Funds raised from this event support the United Way of York Region.

> For the third year, AMD coordinated a team to run and raised funds for the Scotiabank Toronto Waterfront marathon/half marathon/5K supporting Giant Steps Toronto. Giant Steps’ mission is to build the skills and abilities of children with Autism Spectrum Disorder.

> Six AMD employees and friends spent a morning sorting and stacking food and organizing food shelves for Richmond Hill Community Food Bank, which provides nonperishable food for those in need. An AMD Team Development Grant of $500 was awarded to Richmond Hill Community Food Bank on behalf of the employees who volunteered.

> AMD Markham sponsored the University of Toronto Blue Sky Solar Racing Team. This entirely student-run initiative aims to promote innovation and environmentally friendly technologies through the design, construction and showcase of world-class solar-powered vehicles.

> AMD Markham participated in the 2011 Movember campaign, which raises funds and awareness for men’s health, specifically prostate cancer.
EHS Performance

Conservation

> AMD Markham conducted several water audits in 2011 to better understand its indoor and outdoor water use.

> In collaboration with AMD Markham, the Regional Municipality of York conducted an irrigation system audit in September and recommended some maintenance changes to prevent overspraying and some infrastructure improvements to enhance the overall irrigation system.

> To conserve energy, the site installed solar film on windows and retrofitted lighting in a common, the latter of which is estimated to save ~1,100 kWh per month.

> AMD’s Markham campus has composted “pre-consumer” food waste in the cafeteria’s kitchen for several years, but in January 2012 the site expanded its organics collection program to include “post-consumer” food waste in the two main dining areas on campus.

Green Teams

The employee Green Team in Markham helped promote alternative commuting options in 2011 as well as organized an Earth Day Fair, distributed AMD cycling jerseys and organized two lunch-and-learns. The first featured a speaker from Markham’s Office of Sustainability to discuss the city’s long-term plans, and the second was to promote a new Farm-to-Home Food Delivery program.

Events

> Several health and safety initiatives were implemented at AMD Markham in response to an increase in reportable injuries at the start of 2011. The Ministry of Labour performed an inspection of the campus, provided some recommendations and conducted a follow-up inspection that confirmed the actions were completed (no fines or charges were assessed). No reportable injuries occurred at Markham between August and December 2011.

> 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, AMD Markham participated in World No Tobacco Day with smoking cessation resources and information.
> In October, Markham held a three-week fitness challenge with 32 employees participating. The challenge included a point system where teams could gain points towards winning the event.

- Weight loss: 100 points per lb
- Donating food: 5 points per lb
- Weekly team challenges: 150 points
- Weekly fitness class: 200 points per class
- Volunteer Food Sort: 1000 points
- Turkey relay on Oct. 4th: 500 points

> In November, flu shots were offered and 242 were given.
ASIA PACIFIC

Number of Employees: 3,010

This region is home to AMD manufacturing facilities as well as important engineering centers. The manufacturing facilities are located in Penang, Malaysia, and Singapore. Our engineering centers located in Bangalore and Hyderabad, India, work on AMD’s low power SoC designs, currently our 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.

Site Awards

Singapore

> **Bizlink** appreciation award for the launch of AMD Computer Centre in Bizlink Centre
> **The Helping Hand** appreciation award for fundraising
> “Water Efficient Building” designation by Singapore’s governmental water distribution authority

MALAYSIA

Site: AMD-Penang
Year Established: 1972
Operations: Assembly and manufacturing process development for AMD microprocessors

Site: AMD Cyberjaya
Year Established: 2008
Operations: Business Services

Social Performance

> To celebrate Earth Day, 87 Penang employees planted mangrove tree saplings at Teluk Tempoyak, an area affected by the 2004 tsunami. Mangrove trees are planted along strategic areas of the shoreline to serve as buffers against strong winds and tidal waves. An AMD Team Development Grant of $500 was awarded to the **Penang Inshore Fisherman Welfare Association (PIFWA)** which promotes traditional and sustainable fishing practices and prudent management of the coastal environments, mangrove habitats and river ecosystems.

> AMD Penang once again supported their longtime partner, **The Young Enterprise (YE Program)**, recognized by the Ministry of Education, Malaysia. Through the YE Program, students develop skills in teamwork and business acumen, and are groomed as future leaders and entrepreneurs.
AMD Penang sponsored the “I Can Live Green – Smart Eco Schools,” an environmental community project that is organized by Junior Chamber International Tanjung Bunga. The goal is for students in the 12 schools to extend eco-friendly practices to their homes and communities thus encouraging an environmentally smart lifestyle.

166 AMD Penang employees and their families participated in the Rock to Rock Charity Run 2011. AMD Penang co-sponsored the run for the second year. All proceeds from this event went to the Crystal Family Home, which provides housing for orphaned, abused or neglected children, and to the Association of Rehabilitation of the Disabled, which assists disabled persons in gaining employment.

AMD Penang collaborated with KDU’s School of Engineering, Science & Technology Game Design Challenge. This workshop/competition educated 92 high school students from 11 schools on the GameMaker 8 software. The objective was to educate and create awareness on the prospects and opportunities within the game design industry. The workshop enabled the students to express their creative potential while the competition required them to create a computer game complete with image, audio and animation elements based on a common theme/idea. The top three teams were awarded trophies and prize money donated by AMD.

In support of Global Volunteer Month, AMD Cyberjaya supported the MyKasih Foundation, whose mission is to establish loving and caring neighborhoods all over Malaysia and the world. 16 AMD employees facilitated and coordinated three IT workshops for 45 children ages 9-12. The children learned the basic components of computers (how to use the keyboard and type) and played simple online educational gaming programs.

15 AMD Cyberjaya employees participated in the 2011 World Hunger Relief Charity Walk to raise funds for QSR Brands Berhad, a local charity that supports the United Nations World Hunger Relief Food Program. More than 50 employees made contributions to the charity.

**EHS Performance**

**Conservation**

**AMD Penang**

AMD Penang implemented energy improvement projects which save over 570,000 kWh of electricity and 306 metric tons of CO2 equivalent emissions monthly.

A chiller which ran at 50% optimization was turned off and the utilization of another chiller was increased from 60% to 83% to compensate. This resulted in savings of about 530,000 kWh, 285 metric tons of CO2e and $53,000 USD from April to December 2011.

Condensate water was reused for the cooling tower, which saved 12,100 cubic meters of water and $5,000 USD in 2011.

AMD Penang started segregating food waste as part of its waste diversion strategy, resulting in 3,149 kg saved per month.
AMD Cyberjaya

AMD opened a new building in March. Several energy conservation projects were implemented throughout the year. For example, inverters were installed on four air handling units, which allow the compressor to run at different speeds depending on need, and therefore help reduce electricity and water usage for the units. Other initiatives included tinting the building’s windows to reduce heat load, installing sectional doors at entrance to minimize air leakage, encouraging staff to switch off lights in discussion/meeting rooms and improving the insulation and filtration of the chilled water supply.

Events

AMD Penang

> In May 2011, site employees participated in World No Tobacco Day by providing smoking cessation education and information to employees.

> The site promoted “EHS Week” in November with several activities that included blood screenings, sporting events and blood donations.

AMD Cyberjaya

> Site employees participated in World No Tobacco Day with smoking cessation resources and information as well as closing smoking areas for the day.

> Site employees launch a new chapter of the AMD Women’s Forum.

> Employees also donated two computers, cash vouchers, clothes and books to the local orphanage and home for single mothers.

SINGAPORE

Site: AMD Singapore
Year Established: 1984
Operations: Test, mark and pack for AMD microprocessors

Social Performance

> 40 AMD Singapore employees volunteered at several events for Villa Francis Home for the Aged, a longtime partner, including:
  
  – Dumpling Festival Day, a series of fun activities that integrated physiotherapy for the elderly residents.

  – Health screening and flu vaccination for residents. The volunteers assisted the residents on and off the bus and into the clinic.

  – Weekly visits to assist with physical therapy sessions.

  – A Sports Day in November where residents participated in both a wheelchair marathon and a wheelchair relay competition.
Singapore employees raised $96,000 USD for The Helping Hands charity through its annual Charity Golf event. The Helping Hands is a residential halfway house for the rehabilitation of ex-offenders and works closely with Singapore Prison Services.

40 AMD Singapore employees and their families volunteered at the Redhill Food Center. Volunteers packed and distributed food to the recipients who came to the distribution point, while other volunteers distributed food house to house. Redhill Food Distribution Project provides food on a weekly basis to more than 280 elderly and needy families.

EHS Performance

Conservation

A large energy conservation initiative completed in 2011 saved approximately $475,000 USD, conserved over 3 million kWh and avoided almost 1,300 metric tons of CO₂e emissions. The project altered the usage of 3 HST compressor cells by creating an automated process to power down cells after periods of being idle, and to cycle between them in such a way that reduces overall usage.

To conserve water, AMD Singapore upgraded all water taps with low flow regulators in April 2011. This simple change saved 421,000 liters per month, for a total of 3,368 cubic meters in 2011.

Green Teams

AMD Singapore established an employee Green Team in March 2011 to help promote awareness and involvement in environmental protection and personal sustainability. The Green Team held more than a dozen events throughout the year, such as a “waste-to-art” competition, stress management seminar, health screening and much more.

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

Social Performance

Bangalore

15 employees trained for several months and ran a 10K race to benefit the Bangalore chapter of Asha, an organization dedicated to bringing about socio-economic change in India through education of underprivileged children.

Five employees spent a morning visiting with children who live at Swanthana, Center for Mentally Challenged Female Children. Swanthana offers medical care, protection and nutrition for mentally challenged children who are orphaned, abandoned and destitute. An AMD
Team Development Grant of $500 was awarded to Swanthana on behalf of the volunteer employees.

- 32 employees and their families planted 203 saplings in partnership with Trees for Free, a local charity. In July, employees planted 103 mango, jackfruit, litchi and lemon tree saplings at Swanthana. The trees will provide not only provide green cover, but the children will also enjoy the fruit. In August, employees spent the morning planting 100 saplings and tree guards near Gottigere Lake Bund.

- AMD Bangalore employees participated in two blood drives and one clothing drive to support local charities.

**Hyderabad**

- In support of Global Volunteer Month, 12 Hyderabad employee volunteers celebrated Diwali festival (Festival of Lights) with orphaned children and the elderly at the Om Sai Sevasharam—Home for the Aged.

- The Hyderabad eCop (Green Team) volunteers conducted an environment protection awareness program for employees.

- Hyderabad employees held a food drive for the Aadarana Orphanage School in Malakpet, which provides 60 children (30 boys/30 girls) with shelter, education and meals.

- 99 units of blood were collected for Thalassemia & Sickle Cell Society-Vuppala Venkaiah Memorial Blood Bank.

**EHS Performance**

The AMD Hyderabad site has a very active employee-led Green Team called the eCops. In 2011, the group implemented dozens of projects and activities to help promote awareness among employees about conservation. Examples included switching printers to double-sided, asking employees to turn off monitors when not in use, replacing non-recyclable plastic glasses with recyclable paper cups and distributing reusable cups to employees. Their Environment Day celebration provided conservation information, a “green idea” competition, quiz and games.

AMD Bangalore began diverting about 250 kg of waste per month from the landfill by separating recyclables in the cafeteria.
EUROPE AND THE MIDDLE EAST

Number of Employees: 300

With the divestiture of our wafer manufacturing operations in Dresden, Germany, in 2009, AMD no longer has any manufacturing facilities in this region. However, the region represents a large market for AMD products, with our particular focus on emerging markets such as Russia, Turkey and the entire Middle East. We operate design centers in Dresden, Tel Aviv and St. Petersburg.

In 2012, AMD’s Operating System Research Center in Dresden joined the leading-edge, technology cluster “Cool Silicon” to support research launched under the German government’s program, “Cool Computing”. This research aims at developing microprocessors and computer platforms whose power consumption can be scaled with the computing load actually needed, offering longer and more efficient power economy states and energy-saving server solutions. The research is intended to advance cloud computing, high-performance computing, and virtualization.
### DATA TABLES

**LABOR**  
*GRI Index Ref: LA1, LA2, LA7, LA13, LA15, S06*

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<tr>
<th>Employee Data</th>
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### New Hires by Age

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<td>Generation Y (born 1980-2000)</td>
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<tr>
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<td>Baby Boomers (born 1946-1964)</td>
<td>22%</td>
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<tr>
<td>Traditionalists (born 1927-1945)</td>
<td>&lt;1%</td>
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### Return to work rates after parental Leave

<table>
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<th>Gender</th>
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<th>2008</th>
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### Well-Being

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<th>2010</th>
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<tr>
<td>Worldwide Injury and Illness Case Rate (per 100</td>
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<td>0.33</td>
<td>0.28</td>
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<td>AMD U.S. Injury and Illness Case Rates (per 100</td>
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<td>0.29</td>
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<td>OSHA Case Rate - Computer/Electronic Product Mfg</td>
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<td>OSHA Case Rate - Technical/Engineering Services</td>
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<td>U.S. Lost Work Days Case Rate (per 100 workers)</td>
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### Volunteerism

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<tr>
<td>AMD Volunteers</td>
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### Notes:

Not available = na

1. Data from 2007 and 2008 include contributions from assets transferred to GLOBALFOUNDRIES in March 2009.
2. Minor (first aid level) injuries are not included.
3. Our reporting guidelines are based on OSHA reporting criteria.
4. Lost days are calculated based on scheduled work days.
5. Numbers include contributions from AMD employees and contractors.
### Economic Data

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<th>Research &amp; Development (In millions)</th>
<th>Net Income (In millions)</th>
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<td>2011</td>
<td>$6,568</td>
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**Social Investment**

- **AMD Foundation**: NA, $330,000, $660,895, $1,675,809, $2,649,564
- **Cash and In-Kind Giving (USD)**: $4,579,995, $3,331,040, $1,564,393, $1,525,151, $1,561,711

**Cash and In-Kind by Region**

- **Americas**: $3,806,624, $3,182,085, $2,086,308, $2,878,218, $3,849,609
- **Europe/Africa**: $275,075, $149,942, $, $, $125,623
- **Asia-Pacific/China/India**: $498,296, $329,014, $138,980, $322,742, $236,043

**Cash and In-Kind by Category**

- **Education**: $1,844,567, $1,269,092, $1,203,428, $2,532,538, $2,935,483
- **Basic Needs**: $685,368, $312,657, $86,009, $, $-
- **Community Development**: $906,965, $1,283,305, $935,851, $668,423, $1,275,792

### Environmental Benefits

- **Cash for Previous Metal Reclalm (USD)**: $495,316, $5,130,245, $2,709,995, $1,855,641, $2,547,657
- **Cash for Tray Reuse and Recycle (USD)**: na, na, na, na, $711,496

### AMD Political Action Committee (PAC)

**Disbursements**

<table>
<thead>
<tr>
<th>Year</th>
<th>Disbursements</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>$9,300</td>
</tr>
<tr>
<td>2008</td>
<td>$2,900</td>
</tr>
<tr>
<td>2009</td>
<td>$13,800</td>
</tr>
<tr>
<td>2010</td>
<td>$2,500</td>
</tr>
<tr>
<td>2011</td>
<td>$3,500</td>
</tr>
</tbody>
</table>

**Notes:**

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 6.
4. In 2010, the Basic Needs category was combined with the Community Development category.
## Climate

### Energy

<table>
<thead>
<tr>
<th>ATMP Absolute Energy Use (GWh)</th>
<th>2009¹</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penang</td>
<td>37</td>
<td>47</td>
<td>61</td>
</tr>
<tr>
<td>Singapore</td>
<td>148</td>
<td>90</td>
<td>74</td>
</tr>
<tr>
<td>Suzhou</td>
<td>39</td>
<td>42</td>
<td>50</td>
</tr>
<tr>
<td>Normalized ATMP Energy Use (kWh/PI)²</td>
<td>1.14</td>
<td>0.96</td>
<td>1.00</td>
</tr>
<tr>
<td>Non-Manufacturing Absolute Energy Use (GWh)</td>
<td>197</td>
<td>189</td>
<td>196</td>
</tr>
<tr>
<td>Austin</td>
<td>78</td>
<td>78</td>
<td>85</td>
</tr>
<tr>
<td>Markham</td>
<td>34</td>
<td>33</td>
<td>35</td>
</tr>
<tr>
<td>Sunnyvale</td>
<td>32</td>
<td>33</td>
<td>31</td>
</tr>
<tr>
<td>Others sites combined</td>
<td>53</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Total Absolute Energy Use (GWh)</td>
<td>421</td>
<td>368</td>
<td>380</td>
</tr>
<tr>
<td>Direct Energy Use (GWh)³</td>
<td>18</td>
<td>20</td>
<td>19</td>
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<tr>
<td>Direct Energy Use (TJ)</td>
<td>65</td>
<td>72</td>
<td>68</td>
</tr>
<tr>
<td>Total Energy/Revenue (kWh/$)</td>
<td>0.08</td>
<td>0.06</td>
<td>0.06</td>
</tr>
</tbody>
</table>

### Electricity (Indirect Energy Use)

<table>
<thead>
<tr>
<th>ATMP Absolute Electricity Use (GWh)</th>
<th>2009¹</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Penang</td>
<td>37</td>
<td>47</td>
<td>61</td>
</tr>
<tr>
<td>Singapore</td>
<td>148</td>
<td>90</td>
<td>74</td>
</tr>
<tr>
<td>Suzhou</td>
<td>38</td>
<td>41</td>
<td>50</td>
</tr>
<tr>
<td>Non-Manufacturing Absolute Electricity Use (GWh)</td>
<td>179</td>
<td>170</td>
<td>177</td>
</tr>
<tr>
<td>Austin</td>
<td>69</td>
<td>67</td>
<td>74</td>
</tr>
<tr>
<td>Markham</td>
<td>30</td>
<td>29</td>
<td>30</td>
</tr>
<tr>
<td>Sunnyvale</td>
<td>28</td>
<td>29</td>
<td>27</td>
</tr>
<tr>
<td>Others sites combined</td>
<td>53</td>
<td>45</td>
<td>45</td>
</tr>
<tr>
<td>Total Absolute Electricity Use (GWh)</td>
<td>402</td>
<td>348</td>
<td>362</td>
</tr>
<tr>
<td>Total Absolute Electricity Use (TJ)</td>
<td>1,447</td>
<td>1,253</td>
<td>1,303</td>
</tr>
<tr>
<td>Scope 1 GHG Emissions (MTCO₂e)</td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>ATMP Total Absolute Carbon Equivalent Emissions (MTCO₂e)</td>
<td>37,513</td>
<td>26,628</td>
<td>45,014</td>
</tr>
<tr>
<td>Penang</td>
<td>32,647</td>
<td>21,857</td>
<td>38,729</td>
</tr>
<tr>
<td>Singapore</td>
<td>27,659</td>
<td>17,553</td>
<td>21,163</td>
</tr>
<tr>
<td>Suzhou</td>
<td>4,965</td>
<td>4,249</td>
<td>17,413</td>
</tr>
<tr>
<td>ATMP Absolute Direct Energy Use (GWh)</td>
<td>0.98</td>
<td>0.63</td>
<td>0.08</td>
</tr>
<tr>
<td>ATMP Normalized Carbon Equivalent Emissions (kgCO₂e/PI)</td>
<td>0.17</td>
<td>0.12</td>
<td>0.24</td>
</tr>
<tr>
<td>Non-Manufacturing Absolute Carbon Equivalent Emissions (MTCO₂e)</td>
<td>4,866</td>
<td>4,771</td>
<td>6,285</td>
</tr>
<tr>
<td>Austin</td>
<td>1,880</td>
<td>2,931</td>
<td>2,206</td>
</tr>
<tr>
<td>Markham</td>
<td>838</td>
<td>708</td>
<td>3,044</td>
</tr>
<tr>
<td>Sunnyvale</td>
<td>1,693</td>
<td>792</td>
<td>757</td>
</tr>
<tr>
<td>All other sites combined</td>
<td>454</td>
<td>340</td>
<td>278</td>
</tr>
<tr>
<td>Scope 2 GHG Emissions (MTCO₂e)</td>
<td>163,699</td>
<td>140,384</td>
<td>146,623</td>
</tr>
<tr>
<td>ATMP Absolute Carbon Equivalent Emissions (MTCO₂e)</td>
<td>118,133</td>
<td>97,692</td>
<td>106,569</td>
</tr>
<tr>
<td>Penang</td>
<td>17,939</td>
<td>25,235</td>
<td>32,382</td>
</tr>
<tr>
<td>Singapore</td>
<td>68,105</td>
<td>38,128</td>
<td>32,411</td>
</tr>
<tr>
<td>Suzhou</td>
<td>32,089</td>
<td>34,330</td>
<td>41,777</td>
</tr>
<tr>
<td>ATMP Normalized Carbon Equivalent Emissions (kgCO₂e/PI)</td>
<td>0.604</td>
<td>0.526</td>
<td>0.575</td>
</tr>
<tr>
<td>Non-Manufacturing Absolute Carbon Equivalent Emissions (MTCO₂e)</td>
<td>45,565</td>
<td>42,692</td>
<td>40,053</td>
</tr>
<tr>
<td>Austin²</td>
<td>0</td>
<td>0</td>
<td>485</td>
</tr>
<tr>
<td>Markham</td>
<td>6,253</td>
<td>5,093</td>
<td>4,141</td>
</tr>
<tr>
<td>Sunnyvale</td>
<td>6,534</td>
<td>7,706</td>
<td>5,085</td>
</tr>
<tr>
<td>All other sites combined</td>
<td>32,779</td>
<td>29,892</td>
<td>30,342</td>
</tr>
<tr>
<td>Scope 1 and 2 GHG Emissions (MTCO₂e)</td>
<td>201,212</td>
<td>167,012</td>
<td>191,637</td>
</tr>
<tr>
<td>ATMP Absolute Carbon Equivalent Emissions (MTCO₂e)</td>
<td>150,780</td>
<td>119,549</td>
<td>145,298</td>
</tr>
<tr>
<td>ATMP Normalized Carbon Equivalent Emissions (kgCO₂e/PI)</td>
<td>0.77</td>
<td>0.64</td>
<td>0.78</td>
</tr>
<tr>
<td>Goal</td>
<td>0.73</td>
<td>0.73</td>
<td>0.73</td>
</tr>
<tr>
<td>Non-Manufacturing Absolute CO₂ Equivalent Emissions (MTCO₂e)</td>
<td>50,432</td>
<td>47,463</td>
<td>46,338</td>
</tr>
<tr>
<td>Goal</td>
<td>47,910</td>
<td>47,910</td>
<td>47,910</td>
</tr>
<tr>
<td>CO₂ Emissions/Revenue (kgCO₂/$)</td>
<td>0.04</td>
<td>0.03</td>
<td>0.03</td>
</tr>
<tr>
<td></td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
</tr>
<tr>
<td>--------------------------------</td>
<td>--------</td>
<td>--------</td>
<td>--------</td>
</tr>
<tr>
<td><strong>SCOPE 3 GHG Emissions (MTCO\textsubscript{2}e)</strong></td>
<td>363,728</td>
<td>286,840</td>
<td>432,385</td>
</tr>
<tr>
<td>Contract Manufacturers\textsuperscript{5}</td>
<td>308,264</td>
<td>239,605</td>
<td>388,624</td>
</tr>
<tr>
<td>Business Travel</td>
<td>4,945</td>
<td>10,664</td>
<td>9,687</td>
</tr>
<tr>
<td>Employee Commutes</td>
<td>19,325</td>
<td>13,666</td>
<td>13,913</td>
</tr>
<tr>
<td>Product Logistics/Shipping</td>
<td>31,194</td>
<td>22,905</td>
<td>20,161</td>
</tr>
</tbody>
</table>

**Water\textsuperscript{4}**

<p>| Absolute Water Use (Million Liters) | 776    | 877    | 890    |
| Water Use/$ Revenue                 | 0.14   | 0.14   | 0.14   |
| Total Water Conservation (Million Liters) | na   | na   | 597    |
| Austin                               | na     | na     | 4.22   |
| Penang                               | na     | na     | 12.1   |
| Singapore                            | na     | na     | 3.37   |
| ATMP (Million Liters)                | 459    | 547    | 577    |
| Penang                               | 216    | 325    | 320    |
| Singapore                            | 150    | 140    | 121    |
| Suzhou                               | 92     | 82     | 136    |
| ATMP Normalized Water Use (liters/PI) | 2.3   | 2.94   | 3.11   |
| Water Goal (liters/PI)               | 1.9    | 1.9    | 1.9    |
| Non-Manufacturing (Million Liters)   | 311    | 320    | 313    |
| Austin                               | 173    | 159    | 160    |
| Markham                              | 44     | 63     | 66     |
| Sunnyvale                            | 88     | 87     | 71     |
| Other sites combined\textsuperscript{7} | 6     | 10     | 16     |
| Non-Manufacturing Normalized Water Use (liters/employee)\textsuperscript{8} | 53,736 | 51,200 | 45,754 |
| Water Goal (liters/employee)         | 42,989 | 42,989 | 42,989 |
| Contract Manufacturing (Million Liters) | na   | na   | 3,506  |</p>
<table>
<thead>
<tr>
<th>Waste</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Hazardous Waste Generated (metric Tons)</td>
<td>1,953</td>
<td>2,070</td>
<td>2,126</td>
</tr>
<tr>
<td>Non-Hazardous Waste Recycled (metric tons)</td>
<td>783</td>
<td>1,050</td>
<td>1,209</td>
</tr>
<tr>
<td>Non-Hazardous Waste Landfilled (metric tons)</td>
<td>1,171</td>
<td>1,020</td>
<td>917</td>
</tr>
<tr>
<td>Non-Hazardous Waste Diversion Rate (%)</td>
<td>40%</td>
<td>51%</td>
<td>57%</td>
</tr>
<tr>
<td>Diversion Goal Rate (%)</td>
<td>70%</td>
<td>70%</td>
<td>70%</td>
</tr>
<tr>
<td>ATMP (Metric Tons)</td>
<td>840</td>
<td>753</td>
<td>744</td>
</tr>
<tr>
<td>Penang</td>
<td>263</td>
<td>226</td>
<td>227</td>
</tr>
<tr>
<td>Singapore</td>
<td>210</td>
<td>263</td>
<td>216</td>
</tr>
<tr>
<td>Suzhou</td>
<td>367</td>
<td>263</td>
<td>301</td>
</tr>
<tr>
<td>Non-Hazardous Waste Recycled</td>
<td>269</td>
<td>318</td>
<td>367</td>
</tr>
<tr>
<td>Non-Hazardous Waste Landfilled</td>
<td>571</td>
<td>434</td>
<td>377</td>
</tr>
<tr>
<td>Non-Manufacturing (Metric Tons)</td>
<td>1,114</td>
<td>1,317</td>
<td>1,382</td>
</tr>
<tr>
<td>Austin</td>
<td>349</td>
<td>588</td>
<td>375</td>
</tr>
<tr>
<td>Markham</td>
<td>382</td>
<td>244</td>
<td>363</td>
</tr>
<tr>
<td>Sunnyvale</td>
<td>383</td>
<td>485</td>
<td>644</td>
</tr>
<tr>
<td>Non-Hazardous Waste Recycled</td>
<td>514</td>
<td>732</td>
<td>841</td>
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<tr>
<td>Non-Hazardous Waste Landfilled</td>
<td>600</td>
<td>585</td>
<td>540</td>
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<tr>
<td>Contract Manufacturing Non-Hazardous Waste</td>
<td>na</td>
<td>na</td>
<td>7,156</td>
</tr>
<tr>
<td>Hazardous Waste Generated (Metric Tons)</td>
<td>48</td>
<td>49</td>
<td>96</td>
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<tr>
<td>Hazardous Waste Recycled/Reused (Metric Tons)</td>
<td>44</td>
<td>46</td>
<td>93</td>
</tr>
<tr>
<td>Hazardous Waste Treated Off-site (Metric Tons)</td>
<td>4</td>
<td>3</td>
<td>2</td>
</tr>
<tr>
<td>Hazardous Waste Landfilled (Metric Tons)</td>
<td>0.20</td>
<td>0.13</td>
<td>0.10</td>
</tr>
<tr>
<td>ATMP (Metric Tons)</td>
<td>47</td>
<td>49</td>
<td>95</td>
</tr>
<tr>
<td>Penang</td>
<td>44</td>
<td>47</td>
<td>93</td>
</tr>
<tr>
<td>Singapore</td>
<td>3</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>Suzhou</td>
<td>0.5</td>
<td>0.6</td>
<td>0.5</td>
</tr>
<tr>
<td>Hazardous Waste Recycled</td>
<td>44</td>
<td>46</td>
<td>93</td>
</tr>
<tr>
<td>Hazardous Waste Treated Off-Site</td>
<td>3</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Hazardous Waste Landfilled</td>
<td>0.20</td>
<td>0.13</td>
<td>0.10</td>
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<tr>
<td>Non-Manufacturing (Metric Tons)</td>
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<td>1</td>
<td>0.89</td>
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<tr>
<td>Hazardous Waste Recycled</td>
<td>0.35</td>
<td>0.09</td>
<td>0.672</td>
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<tr>
<td>Hazardous Waste Treated Off-Site</td>
<td>0.5</td>
<td>0.6</td>
<td>0.2</td>
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<tr>
<td>Hazardous Waste Landfilled</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Contract Manufacturing Hazardous Waste Generated (Metric Tons)</td>
<td>na</td>
<td>na</td>
<td>15,049</td>
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<tr>
<td>Product Scrap for Precious Metal Reclaim (Metric Tons)</td>
<td>240</td>
<td>122</td>
<td>157</td>
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<tr>
<td>Trays Reused (Metric Tons)</td>
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<tr>
<td>Trays Recycled (metric Tons)</td>
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<td>29</td>
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<tr>
<td>Total Waste Generated per Revenue (kg/$)</td>
<td>0.0004</td>
<td>0.0003</td>
<td>0.0003</td>
</tr>
<tr>
<td>Wastewater Discharge(\text{b}) (Million Liters)</td>
<td>2009</td>
<td>2010</td>
<td>2011</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------</td>
<td>------</td>
<td>------</td>
</tr>
<tr>
<td>Austin</td>
<td>84</td>
<td>61</td>
<td>41</td>
</tr>
<tr>
<td>Penang</td>
<td>52</td>
<td>122</td>
<td>139</td>
</tr>
<tr>
<td>Singapore</td>
<td>60</td>
<td>56</td>
<td>49</td>
</tr>
<tr>
<td>Suzhou</td>
<td>89</td>
<td>81</td>
<td>136</td>
</tr>
</tbody>
</table>

Wastewater/$ Revenue

Air Emissions\(^{10}\)

<table>
<thead>
<tr>
<th>Ozone Depleting Substances (MTCO(_2)e)</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>33,105</td>
<td>19,820</td>
<td>38,802</td>
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Compliance

<table>
<thead>
<tr>
<th>Number of Environmental Non-Compliances</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>2</td>
<td>0</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Number of Health or Safety Non-Compliances(^{11})</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td>0</td>
<td>1</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Fines (USD)</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>0</td>
<td>0</td>
<td>360</td>
</tr>
</tbody>
</table>

Notes:

na = not available.

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. There was no renewable direct energy used in 2011.
4. In 2009 and 2010, all of Austin’s indirect energy came from a renewable energy source. In 2011, AMD Lone Star campus was 100% powered by wind energy; however, a small amount of non-renewable energy (<1 GWh) was purchased for other Austin locations.
5. Data provided by Contract Manufactures and proportioned based on AMD product manufactured. TSMC scope 1 emissions only include those from perfluorocarbon (PFC) emissions.
6. AMD is not a significant user of water at any site, and no water sources are significantly affected by withdrawal of water.
7. 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.
8. Non-manufacturing normalized water data (liters/employee) is normalized using the number of employees at those sites for which water data is collected.
9. All wastewater from sites are discharged into municipal wastewater treatment plants. All discharges were within permitted water quality limits except for minor exceedance in chemical oxygen demand (COD) and total suspended solids (TSS) at the AMD Singapore site. No violations were issued.
10. Fugitive emissions of greenhouse gases are included as part of total carbon equivalent emissions.
11. Notice of Violation issued to Markham facility for failing to chock the tires of a parked vehicle in loading area. Fine paid and corrective measures implemented.
<table>
<thead>
<tr>
<th>GRI TABLES</th>
</tr>
</thead>
<tbody>
<tr>
<td>STANDARD DISCLOSURES PART I: Profile Disclosures</td>
</tr>
<tr>
<td><strong>1. Strategy and Analysis</strong></td>
</tr>
<tr>
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<tr>
<td>1.1</td>
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<td>1.2</td>
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<tr>
<td><strong>2. Organizational Profile</strong></td>
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<td>2.9</td>
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<td>2.10</td>
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<tr>
<td><strong>3. Report Parameters</strong></td>
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<tr>
<td>3.1</td>
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<td>3.2</td>
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<td>3.4</td>
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<td>3.5</td>
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<tr>
<td>3.6</td>
</tr>
<tr>
<td>3.7</td>
</tr>
</tbody>
</table>
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.

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.

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).

3.11 Significant changes from previous reporting periods in the scope, boundary or measurement methods applied in the report.

3.12 Table identifying the location of the Standard Disclosures in the report.

3.13 Policy and current practice with regard to seeking external assurance for the report.

4. Governance, Commitments and Engagement Profile Disclosure

<table>
<thead>
<tr>
<th>Description</th>
<th>Reported</th>
<th>Cross-reference/Direct answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>●</td>
<td>Board of Directors</td>
</tr>
<tr>
<td>4.2 Indicate whether the Chair of the highest governance body is also an executive officer.</td>
<td>●</td>
<td>Board of Directors</td>
</tr>
<tr>
<td>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.</td>
<td>●</td>
<td>All members of AMD’s Board of Directors other than Mr. Rory Read and Mr. Waleed Al Mahairi are independent in accordance with SEC and NYSE rules. (1 woman and 7 men). Please see Principles of Corporate Governance.</td>
</tr>
<tr>
<td>4.4 Mechanisms for shareholders and employees to provide recommendations or direction to the highest governance body.</td>
<td>●</td>
<td>Board of Directors and AMD AlertLine</td>
</tr>
<tr>
<td>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).</td>
<td>●</td>
<td>Board of Directors</td>
</tr>
<tr>
<td>4.6 Processes in place for the highest governance body to ensure conflicts of interest are avoided.</td>
<td>●</td>
<td>Principles of Corporate Governance</td>
</tr>
<tr>
<td>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.</td>
<td>●</td>
<td>Board of Directors</td>
</tr>
<tr>
<td>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.</td>
<td>●</td>
<td>AMD’s WWSBC</td>
</tr>
</tbody>
</table>
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 survey our employees on the effectiveness of our corporate responsibility programs in an annual survey. 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

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**STANDARD DISCLOSURES PART III: Performance Indicators**

<table>
<thead>
<tr>
<th>Economic Performance Indicator</th>
<th>Description</th>
<th>Reported</th>
<th>Cross-reference/Direct answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC1</td>
<td>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.</td>
<td>●</td>
<td>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 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.</td>
</tr>
</tbody>
</table>

Public Policy
<table>
<thead>
<tr>
<th>EC2</th>
<th>Financial implications and other risks and opportunities for the organization’s activities due to climate change.</th>
<th>Risk and Opportunities Related to Climate Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC3</td>
<td>Coverage of the organization’s defined benefit plan obligations.</td>
<td>AMD does not offer defined benefit retirement plans. Please see Compensation and Benefits for a description of our programs.</td>
</tr>
<tr>
<td>EC4</td>
<td>Significant financial assistance received from government.</td>
<td>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 because our accounting practices do not separate out government-specific incentives. See Public Policy for more information on our interactions with governments.</td>
</tr>
</tbody>
</table>

**Market presence**

<table>
<thead>
<tr>
<th>EC5</th>
<th>Range of ratios of standard entry level wage by gender compared to local minimum wage at significant locations of operation.</th>
<th>AMD consistently pays more than the minimum wage in every country in which we operate. Please see Compensation and Benefits.</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC6</td>
<td>Policy, practices and proportion of spending on locally-based suppliers at significant locations of operation.</td>
<td>AMD has no specific policy related to spending on locally-based suppliers at significant locations.</td>
</tr>
<tr>
<td>EC7</td>
<td>Procedures for local hiring and proportion of senior management hired from the local community at significant locations of operation.</td>
<td>The majority of AMD’s senior management comes from the local communities where we operate. In 2011, over 76% 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.</td>
</tr>
</tbody>
</table>

**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. |

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Understanding and describing significant indirect economic impacts, including the extent of impacts. See AMD Changing the Game and AMD Technology - Enabling a Better World.

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.

Education: To evaluate the progress and effectiveness of AMD Changing the Game, 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 4. 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.

<table>
<thead>
<tr>
<th>Environmental Performance Indicator</th>
<th>Description</th>
<th>Reported</th>
<th>Cross-reference/Direct answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Materials</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN1</td>
<td>Materials used by weight or volume.</td>
<td>●</td>
<td>In 2011, AMD used approximately 773 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.</td>
</tr>
<tr>
<td>EN2</td>
<td>Percentage of materials used that are recycled input materials.</td>
<td>●</td>
<td>In 2011, at least 7% of total packaging used was recycled content. We did not use recycled materials in our products in 2011.</td>
</tr>
<tr>
<td>Energy</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN3</td>
<td>Direct energy consumption by primary energy source.</td>
<td>●</td>
<td>See Environmental Data Tables</td>
</tr>
<tr>
<td>EN4</td>
<td>Indirect energy consumption by primary source.</td>
<td>●</td>
<td>See Environmental Data Tables</td>
</tr>
<tr>
<td>EN5</td>
<td>Energy saved due to conservation and efficiency improvements.</td>
<td>●</td>
<td>See Environmental Data Tables</td>
</tr>
<tr>
<td>EN6</td>
<td>Initiatives to provide energy-efficient or renewable energy-based products and services, and reductions in energy requirements as a result of these initiatives.</td>
<td>●</td>
<td>See Risks and Opportunity Related to Climate Change, AMD Site Specific Reports and Product Stewardship.</td>
</tr>
<tr>
<td>EN7</td>
<td>Initiatives to reduce indirect energy consumption and reductions achieved.</td>
<td>●</td>
<td>See Global Environmental Goals and Performance, Economic Data Tables and Environmental Data Tables.</td>
</tr>
<tr>
<td>Water</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EN8</td>
<td>Total water withdrawal by source.</td>
<td>●</td>
<td>See Environmental Data Tables</td>
</tr>
<tr>
<td>EN9</td>
<td>Water sources significantly affected by withdrawal of water.</td>
<td>●</td>
<td>See Environmental Data Tables</td>
</tr>
<tr>
<td>EN10</td>
<td>Percentage and total volume of water recycled and reused.</td>
<td>●</td>
<td>See Environmental Data Tables</td>
</tr>
<tr>
<td>Biodiversity</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>--------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EN11</strong> Location and size of land owned, leased, managed in or adjacent to protected areas and areas of high biodiversity value outside protected areas.</td>
<td>• 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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EN12</strong> Description of significant impacts of activities, products and services on biodiversity in protected areas and areas of high biodiversity value outside protected areas.</td>
<td>•</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EN13</strong> Habitats protected or restored.</td>
<td>• same as above</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EN14</strong> Strategies, current actions and future plans for managing impacts on biodiversity.</td>
<td>• same as above</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>EN15</strong> Number of IUCN Red List species and national conservation list species with habitats in areas affected by operations, by level of extinction risk.</td>
<td>• same as above</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Emissions, effluents and waste</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EN16</strong> Total direct and indirect greenhouse gas emissions by weight.</td>
</tr>
<tr>
<td><strong>EN17</strong> Other relevant indirect greenhouse gas emissions by weight.</td>
</tr>
<tr>
<td><strong>EN18</strong> Initiatives to reduce greenhouse gas emissions and reductions achieved.</td>
</tr>
<tr>
<td><strong>EN19</strong> Emissions of ozone-depleting substances by weight.</td>
</tr>
<tr>
<td><strong>EN20</strong> NOx, SOx and other significant air emissions by type and weight.</td>
</tr>
<tr>
<td><strong>EN21</strong> Total water discharge by quality and destination.</td>
</tr>
<tr>
<td><strong>EN22</strong> Total weight of waste by type and disposal method.</td>
</tr>
<tr>
<td><strong>EN23</strong> Total number and volume of significant spills.</td>
</tr>
<tr>
<td><strong>EN24</strong> 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.</td>
</tr>
<tr>
<td><strong>EN25</strong> 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.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Products and services</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EN26</strong> Initiatives to mitigate environmental impacts of products and services, and extent of impact mitigation.</td>
</tr>
<tr>
<td><strong>EN27</strong> Percentage of products sold and their packaging materials that are reclaimed by category.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Compliance</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EN28</strong> Monetary value of significant fines and total number of non-monetary sanctions for noncompliance with environmental laws and regulations.</td>
</tr>
</tbody>
</table>
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.

Overall

EN30 Total environmental protection expenditures and investments by type.

AMD does not currently track this information.

Social: Labor Practices and Decent Work

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>Description</th>
<th>Reported</th>
<th>Cross-reference/Direct answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Employment</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA1</td>
<td>Total workforce by employment type, employment contract and region, broken down by gender.</td>
<td>☒</td>
<td>See Labor Data Tables.</td>
</tr>
<tr>
<td>LA2</td>
<td>Total number and rate of new employee hires and employee turnover by age group, gender and region.</td>
<td>☒</td>
<td>See Labor Data Tables.</td>
</tr>
<tr>
<td>LA3</td>
<td>Benefits provided to full-time employees that are not provided to temporary or part-time employees, by major operations.</td>
<td>☒</td>
<td>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.</td>
</tr>
<tr>
<td>LA15</td>
<td>Return to work and retention rates after parental leave, by gender.</td>
<td>☒</td>
<td>See Labor Data Tables.</td>
</tr>
<tr>
<td><strong>Labor/management relations</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA4</td>
<td>Percentage of employees covered by collective bargaining agreements.</td>
<td>☒</td>
<td>AMD estimates that up to 4% of employees are covered by national or industry collective bargaining agreements.</td>
</tr>
<tr>
<td>LA5</td>
<td>Minimum notice period(s) regarding significant operational changes, including whether it is specified in collective agreements.</td>
<td>☒</td>
<td>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 U.S. all employees affected by a reduction in workforce receive at least 60 days prior notice or equivalent. See Stakeholder Engagement - Employees.</td>
</tr>
<tr>
<td><strong>Occupational health and safety</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LA6</td>
<td>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.</td>
<td>☒</td>
<td>See Employee Health, Safety and Wellness.</td>
</tr>
<tr>
<td>LA7</td>
<td>Rates of injury, occupational diseases, lost days and absenteeism, and number of work-related fatalities by region and by gender.</td>
<td>☒</td>
<td>See Labor Data Tables. AMD will report by gender in reporting year 2012.</td>
</tr>
<tr>
<td>LA8</td>
<td>Education, training, counseling, prevention and risk-control programs in place to assist workforce members, their families or community members regarding serious diseases.</td>
<td>☒</td>
<td>See Employee Health, Safety and Wellness.</td>
</tr>
<tr>
<td>LA9</td>
<td>Health and safety topics covered in formal agreements with trade unions.</td>
<td>•</td>
<td>We do not report on this issue because it is not applicable to AMD operations.</td>
</tr>
</tbody>
</table>

**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 three hours per employee per year. In 2011, 18% of directors, 23% of managers and 7% of members of technical staff received 40 hours of leadership training. Members of AMD’s sales force receive an average of 45 hours/year of training. AMD will report training by gender in reporting year 2012. 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 men and woman for the entire AMD population is 93% (men) and 93% (women). |

**Social: Human Rights**

<table>
<thead>
<tr>
<th>Performance Indicator</th>
<th>Description</th>
<th>Reported</th>
<th>Cross-reference/Direct answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Investment and procurement practices</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HR1</td>
<td>Percentage and total number of significant investment agreements and contracts that include clauses incorporating human rights concerns, or that have undergone human rights screening.</td>
<td>•</td>
<td>AMD is not aware of any such significant investments during or related to 2011. Our Worldwide Standards of Business Conduct strictly forbids 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. See Human Rights.</td>
</tr>
</tbody>
</table>

| 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 2011 we communicated our expectations to our top-tier suppliers that they conform to the Code, ISM principles or equivalent standards. In 2011, 54% of our major supplier facilities completed the EICC SAQ and 26% underwent EICC VAP audits. 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 copies of 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. AMD has approximately 11,000 employees worldwide for a total of 11,000 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 WWSBC.

Non-discrimination

| HR4 | Total number of incidents of discrimination and corrective actions taken. | One discrimination lawsuit was filed against AMD in 2011 by a former employee who had resigned. The lawsuit, which was resolved, related to a complaint of discrimination filed with the EEOC in 2010 that was dismissed. 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, and AMD has responded to the remaining portion.

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 2011. 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 2011. 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 2011. 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 2011.

### 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 2011. AMD’s policy regarding reporting of concerns is publicized in our WWSSBC 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

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Description</th>
<th>Reported</th>
<th>Cross-reference/Direct answer</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SO1</strong></td>
<td>Percentage of operations with implemented local community engagement, impact assessments and development programs.</td>
<td>✔</td>
<td>All major AMD sites have organized community involvement. See <a href="#">AMD in the Community</a> and <a href="#">AMD Changing the Game</a>.</td>
</tr>
<tr>
<td><strong>SO9</strong></td>
<td>Operations with significant potential or actual negative impacts on local communities.</td>
<td>✔</td>
<td>AMD has processes and procedures in place to review environmental and social potential impacts on local communities including our <a href="#">Global EHS Standards</a>, <a href="#">AMD’s WWSSBC</a> and <a href="#">EICC Code of Conduct</a> commitment. There were no potential or actual negative impacts assessed in 2011.</td>
</tr>
</tbody>
</table>
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. See AMD’s WWSBC.

SO4  Actions taken in response to incidents of corruption.  ●  AMD is not aware of any incidents during or related to 2011.

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 in 2011. AMD stands for Competition and Market Access. 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 2011.

Social: Product Responsibility
Performance Indicator  Description  Reported  Cross-reference/Direct answer
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.

With the exception of the notice of violation reported in EN28, AMD is not aware of any such incidents during or related to 2011.

**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 2011 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 2011 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 2011 calendar year.
Statement
GRI Application Level Check

GRI hereby states that Advanced Micro Devices, Inc. has presented its report “2011 AMD 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.

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

Amsterdam, 27 April 2012

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 18 April 2012. GRI explicitly excludes the statement being applied to any later changes to such material.