

# CITIZENSHIP REPORT 2010







For more than 40 years, Applied Materials has been a company based on values and integrity. Our approximately 13,000 employees around the globe provide the drive and ingenuity to create new technologies and quality products that embody our values, and help improve the way people live. It is the company's continuing responsibility to our stakeholders and communities to grow profitably in an environmentally and socially responsible manner.

#### **DUR VISION AND VALUE STATEMENTS**

Applied's vision statement reflects our business and commitment to customers and communities: At Applied Materials, we apply nanomanufacturing technology to improve the way people live.

Our values, including close to the customer, mutual trust and respect, and world-class performance, are the cornerstone of our success. It is the responsibility of each employee to embrace the high standards we set for ourselves and to be a role model of our values. Our reputation and success are measured by what we do as well as by what we say.

#### HIGH ETHICAL STANDARDS

Applied is committed to the highest ethical standards in the conduct of its business and in interactions with its customers, suppliers, competitors, and society. Our Standards of Business Conduct, available on Applied's website, set forth policies reflecting Applied's values and provide information and resources available to assist employees globally. All employees are required to certify annually that they have read, understood, and are abiding by the Standards of Business Conduct.

# About Applied Materials' 2010 Citizenship Report

#### REPORT PROFILE

The reporting period for this report is the company's fiscal year 2010 (FY2010), which covers the period from October 26, 2009 through October 31, 2010, unless otherwise noted.

This is Applied Materials' third annual Citizenship Report. The two prior reports on sustainability and social responsibility — the 2009 Citizenship Report and the 2008 Citizenship Report — were released in March 2009 and 2008, respectively. Earlier reports covered environmental responsibility. All of these reports may be found on our Corporate Responsibility website.

This report was written and produced by the Applied Materials Community Affairs and Sustainability groups. It includes commentary, data points and photos related to our business offices and manufacturing sites around the world

#### REPORT SCOPE

Like previous reports, this one follows the Reporting Framework and Sustainability Reporting Guidelines set forth by the Global Reporting Initiative (GRI). It includes descriptions, historic data and perspectives on the company's significant economic, environmental, and social impacts and contributions for FY2010 and provides highlights and data about the global operations of Applied Materials, Inc. and its subsidiaries (collectively referred to as Applied or the company).

As a multi-billion dollar global equipment manufacturer and service provider, Applied has business relationships with hundreds of upstream suppliers and hundreds of downstream customers. Although many of our partners

and customers are also committed to reducing their carbon footprint and increasing their social responsibility, this report covers only topics and data over which Applied has control and accountability. Unless otherwise noted, this report does not discuss operational or financial performance of joint ventures, leased facilities or outsourced operations.

## STANDARD DISCLOSURES **CROSS INDEX TABLE**

A cross-reference table identifying the location of the standard disclosures in the report is located in the Appendix. The table lists the reporting indicator and the location of discussion or data — either within the body of the 2010 Citizenship Report or on our corporate website — which addresses the guideline requirement and/or provides additional information.

#### **EXTERNAL ASSURANCE**

The goal for this year's report was to expand worldwide data collection and deliver a more comprehensive report than in prior years. Although no external assurance was sought on the report in its entirety, third-party external audits are regularly performed upon certain reporting elements including financial, energy usage, emissions, human resources, supply chain, management systems registration, and philanthropic contributions.

We have confidence in the quality and accuracy of this report and invite you to provide comments on our progress at corporate\_responsibility@amat.com.

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# Welcome to Applied Materials' 2010 Citizenship Report

This is an exciting period for our company. Our markets are alive with innovation and opportunities, and in 2010 Applied delivered one of the strongest performances in the company's history. In addition, we reinforced our commitment to sustainable business practices, environmental stewardship and community investments.

At Applied, we recognize our responsibility to make a positive contribution to the industries we serve and to the communities where we operate. In 2006, we carried out a detailed examination of our operations, looking for ways to lower our environmental footprint. We set out a number of goals spanning energy conservation to greenhouse gas mitigation and we are well on our way to reaching our targets. This year we achieved several of our 2012 goals ahead of schedule. At a time when our business is growing, we have reduced our electricity consumption by 11 percent and our water usage by 19 percent compared to 2006 levels.

In parallel, we have taken a comprehensive look at the performance of our products. We have implemented a number of changes to our product development process that increase our focus on designing systems that operate more sustainably. We have made excellent progress, decreasing the overall energy consumption of our new tools while also reducing the natural resources needed in the manufacturing cycle. These changes conserve resources and reduce costs for Applied and our customers.

As our customers use Applied equipment to make their products, the positive environmental impact that our technology has on the world grows exponentially. Our technology is enabling our customers to produce the next generation of chips and displays that provide consumers with superior performance while consuming less power. Applied Materials products are also enabling the rapid scale-up of production in solar PV. The solar industry exhibited strong growth in 2010 with nearly 20 Gigawatts of panels deployed worldwide.

At Applied, we value innovation, quality and continuous improvement. The results outlined in this report demonstrate how we are transforming these values into action. As we plan for the future, we must continue to hold ourselves accountable to our customers, suppliers, stockholders, and the communities where we work. In 2011, we will be carrying out an extensive cross-organizational review of our sustainability practices and updating our goals and approach for the next three years.

In addition to our achievements in the area of environmental responsibility, I am equally proud of the contributions our employees made to their local communities. From our support of nearly 30 food banks in North America to our global environmental improvement projects — including our annual Mt. Fuji cleanup in Japan, tree planting in India and solar panel installations in the US — Applied's employees are having a positive impact on communities around the globe.

At Applied, we help our customers turn the innovations of today into the industries of tomorrow. However, it's paramount that we do this in a sustainable and environmentally-responsible manner. It is our employees' ideas, actions and ingenuity that shape the future and enable Applied to serve as a model of global corporate citizenship.

Sincerely,

Chairman and CEO Applied Materials, Inc.



"At Applied, we recognize our responsibility to contribute positively to the industries we serve and to the communities where we operate."

## CORPORATE PERFORMANCE

- Reported \$9.5 billion in net sales; up 90 percent yearover-year.
- Invested more than \$11 billion in research and development to help position the company for future market inflections.
- Acquired Semitool, Inc., extending our presence in the fast-growing wafer level packaging market.
- Expanded display and solar equipment manufacturing capability by building a 15,000 square meter facility in Taiwan.
- Opened an operations center in Singapore; our first facility for semiconductor manufacturing in Asia.

#### TECHNOLOGY INNOVATION

- Introduced 12 Silicon System Group (SSG) products.
- Secured 442 US patents Wall Street Journal cited Applied among California's top firms granted the most patents.
- Awarded \$2 million grant from US Department of Energy (DOE) to make more affordable electrochromic glass used to control the amount of light and heat that passes through.
- Awarded \$4.3 million by DOE's Advanced Research Projects Agency-Energy (ARPA-E) to develop low-cost, ultra-high energy, lithium ion batteries.

#### **ENVIRONMENTAL RESPONSIBILITY**

- Since 2006, reduced the company's worldwide water usage by approximately 19 percent, far exceeding 2012 goal of 10 percent.
- Reduced hazardous waste by more than 50 percent over 2009.
- Green Rankings Top 10 Newsweek Magazine.
- 2010 Environmental Business Award Acterra.

#### WORLD-CLASS WORKPLACE

- Laid the groundwork for establishing an Applied Talent Council to focus on hiring, technical career development and establishing formal Distinguished Fellows program.
- · Endorsed major initiative to increase hiring of new college graduates (NCGs) to 25 percent of annual hires
- Designed an intensive leadership development program that focuses on five key leadership traits required to implement our growth plans.

#### COMMUNITY INVESTMENT

- Generated \$1 million to support 28 food banks across North America as the result of employee engagement in the annual Holiday Food Drive.
- Presented the 2010 James C. Morgan Global Humanitarian Award to Oueen Rania Al Abdullah of Jordan
- Annual Environmental Leadership Award California League of Conservation Voters.
- Listed among 100 Best Corporate Citizens Corporate Responsibility Magazine.





#### COMPANY PROFILE

Founded in 1967, Applied Materials, Inc. (Applied) (NASDAQ: AMAT) today is the world leader in Nanomanufacturing Technology solutions for the global electronics industry. Applied provides innovative equipment, services and software to enable the manufacture of advanced semiconductor, flat panel display and solar photovoltaic (PV) products. Our technologies help make innovations like smartphones, flat screen TVs and solar panels more affordable and accessible to consumers and businesses around the world.

Applied is headquartered in Santa Clara, California, and has business operations in 92 locations in 22 countries worldwide. Our main manufacturing facilities are California, Montana and Texas in the US, as well as Germany, Israel, Italy, Singapore, Switzerland, and Taiwan.

Consolidated financial statements for the company and a complete list of subsidiaries are set forth in the company's fiscal 2010 Form 10-K, available on our Investor Relations web page.

At fiscal year-end 2010, Applied had 4,407 registered holders of Applied common stock. The identity and percentage of ownership of Applied's stockholders known by Applied to own five percent or more of the company's common stock are set forth in our proxy statement, available on our Investor Relations web page.

## APPLIED MATERIALS

(as of fiscal year-end 2010)

Employees:	13,045 worldwide
Global Presence:	92 locations in 22 countries
Net Sales:	\$ 9,548.7 M
Total Assets:	\$ 10,943.3 M
Investments in R&D:	\$ 1,143.5 M
Reportable Segments:	Silicon Systems Group, Display, Energy and Environmental Solutions, Applied Global Services
Manufacturing Centers:	California, Montana, Texas, Germany, Israel, Italy, Singapore Switzerland, Taiwan
Fortune 500 Ranking:	No. 421
Registered Stockholders:	4,407 (as of 11/19/10)

#### PRIMARY BRANDS AND SERVICES

We report our business in four segments: Silicon Systems Group, Display, Energy and Environmental Solutions, and Applied Global Services. Each has a deep research and development pipeline of innovations designed to build on the company's core competencies and open new markets for our technology.

Primary brands and services fall under semiconductor, display, solar, and global support.

#### Semiconductor

Applied sells most of its single-wafer, multi-chamber semiconductor manufacturing systems on four basic platforms: the Centura® the Endura® the Producer® and the Vantage® These platforms support atomic layer deposition (ALD), chemical-mechanical planarization (CMP), chemical vapor deposition (CVD), physical vapor deposition (PVD), etch and rapid thermal processing (RTP) technologies. The Applied Global Services (AGS) segment encompasses products and services designed to improve the performance and productivity, and reduce the environmental impact of our customers' manufacturing of semiconductor, liquid crystal display (LCD) and solar PV products.

#### Display

The manufacturing process for thin film transistor liquid crystal displays (TFT-LCDs), commonly used in notebook computers, desktop monitors and televisions, is similar to that employed for integrated circuits for semiconductors. Applied employs ten major processing platforms to provide customers with unmatched performance in uniform, large-size substrate deposition for manufacturing transistors.

#### Solar

As the world's largest manufacturer of equipment to make solar PV panels, Applied is focused on delivering equipment that helps our customers dramatically reduce the cost of solar module manufacturing. Our solar products address two areas of technology: wafer sawing and cropping, and metallization. For the fabrication of crystalline silicon (c-Si) based modules, we offer precision wafering systems and Baccini cell systems.

#### Global Support

The in-depth expertise and best known methods of Applied's extensive global support infrastructure enable the company to continuously support customers' production requirements. Field engineers service over 34,000 installed Applied systems, as well as non-Applied systems.

#### CHANGES IN OPERATIONS

During FY2010, Applied made two acquisitions. We purchased Semitool, Inc. and substantially all the assets of Advent Solar, Inc.

On December 21, 2009, Applied acquired Semitool, Inc., a public company based in the state of Montana. The acquired business is a leading supplier of electrochemical plating and wafer surface preparation equipment used by semiconductor packaging and manufacturing companies globally. This acquisition complements Applied's existing product offerings and provides opportunities for future growth.

In November 2009, Applied acquired substantially all the assets of Advent Solar, Inc., a developer of advanced technology for crystalline silicon (c-Si) solar PV cells and modules. This acquisition complemented Applied's portfolio of solar PV technologies and enhanced the company's opportunities in the c-Si equipment market.

# GEOGRAPHIC BREAKDOWN OF FY2010 SALES

Net sales by geographic regions representing five percent or more of total sales, which are attributed according to the location of customers' facilities.

	\$M	%
Taiwan	2,750	29
Korea	1,768	19
China	1,557	16
North America*	1,147	12
Europe	981	10
Japan	768	8
Southeast Asia	578	6
Total	9,549	100

<sup>\*</sup>Primarily the US

#### **AWARDS**

In recognition of our commitment to diversity, corporate citizenship and environmental stewardship, Applied received awards and earned top rankings on numerous prestigious lists.

Following is a sampling of corporate awards received during FY2010. For a complete list of awards, please visit our website.

- 100 Best Corporate Citizens List Corporate Responsibility Magazine
- 100 Best Places to Work in IT Computerworld Magazine
- Best Places to Work for LGBT Equality Human Rights Campaign, 2010
- Business Environmental Award Acterra (environmental nonprofit)
- Environmental Leadership Award for Building a Greener California California League of Conservation Voters
- Green Rankings Top 10 Newsweek Magazine
- Livable Vision Award for exemplifying sustainability through esthetics Liveable City
- Outstanding Contribution World Purchasing Award of the year Trina Solar Limited
- Special Contribution Award Yingli Green Energy
- Top supplier to the PV manufacturing industry VLSI
- TR50 Award: World's 50 Most Innovative Companies MIT's Technology Review
- World's Most Admired Companies 2010 Fortune Magazine



Applied was one of three Silicon Valley companies to receive Acterra's top honor, the 2010 Business Environmental Award.

The Acterra Award for Sustainability is the group's highest award. It recognizes businesses with programs that demonstrate leadership in many or all other award categories and encompass all three tenants of sustainability: economics, environment and social equity.

Acterra's Business Environmental Awards comprise one of the San Francisco Bay Area's oldest and most prestigious environmental recognition programs. Initiated in 1990, it is considered a heavyweight among award programs due to its rigorous application and judging process.



# Applied Leadership Guides Clean Energy Initiatives

Technology leadership, senior executive engagement and strong policy advocacy define Applied's approach to growing the global supply of clean energy.

Applied Materials and the US Department of Energy (DOE) have collaborated on several projects focused on renewable energy and the clean tech economy. At a DOE Energy Innovation Summit in Washington, D.C. in early 2010, Applied's Chairman and CEO Michael Splinter emphasized the need for a strong national renewable energy standard; a "Green Bank" to provide low-cost financing; and industry incentives like a manufacturing tax credit to spur investment in the renewable energy sector and create the jobs that will put us back on the road to economic recovery.



#### GOVERNANCE STRUCTURE - BOARD OF DIRECTORS

Applied Materials is a publicly-held company and is governed by a board of directors. The Board is elected by the stockholders to oversee management and to assure that the long-term interests of the stockholders are being served. Our Corporate Governance Guidelines (available on the Investor Relations page on our website) assist the Board in the exercise of its responsibilities and are a key element of the framework for the governance of Applied.

Various committees of the Board are responsible for managing specific tasks, such as setting strategy and organizational oversight. These include: the Audit, Corporate Governance and Nominating, Human Resources and Compensation, Investment, Stockholder Rights, and Strategy Committees.

Michael R. Splinter, president and chief executive officer of Applied Materials, is Chairman of the Board of Directors. James C. Morgan, prior CEO of Applied, is Chairman Emeritus. As of October 31, 2010, Applied's Board of Directors was comprised of 11 members. Ten of the directors are "independent directors" as defined by Securities and Exchange Commission (SEC) rules and NASDAQ listing standards. One board member is a woman.

Complete details regarding board and executive compensation may be found in the company's Proxy Statement. Details regarding our conflict of interest resolution process are set forth in the company's Standards of Business Conduct. Both of these resources can be found on our website.

#### COMMITTEES AND MEMBERSHIPS

As a leader in the semiconductor, solar and display industries, Applied has key representatives of the company hold positions in governance bodies or participate in projects or committees in an advisory capacity with a goal of influencing favorable public policy outcomes. Following is a sampling of government involvements in the US.

Regulation and Procedures Technical Advisory Committee

US Department of Commerce-Information Systems Technical Advisory Committee

US-India CEO Forum

Applied also holds memberships in trade associations, and national and international advocacy organizations, which are strategic to its business. In addition to membership and affiliation with national organizations, we also participate in regional chapters of technical and industry associations around the globe. Memberships include:

Boston College Center for Corporate Citizenship Committee for Encouraging Corporate Philanthropy Electronic Industry Citizenship Coalition (EICC)

EMC-3D Equipment & Materials Consortium

European-American Business Council

European Photovoltaic Industry Association (EPIA)

Flextech Alliance

Information Technology Industry Council

Joint Venture Silicon Valley Network

Maala, Business for Social Responsibility, Israel

National Association of Manufacturers

National Center for Asia-Pacific Economic Cooperation (NC-APEC)

San Jose/Silicon Valley Chamber of Commerce

Semiconductor Equipment and Materials International (SEMI)

Semiconductor Research Corporation

Silicon Valley Leadership Group

Solar Alliance

Solar Energy Industries Association (SEIA)

SolarTech

TechNet

Technology CEO Council

TransAtlantic Business Dialogue (TABD)

**US-ASEAN Business Council** 

**US-Taiwan Business Council** 

World Economic Forum - Industry Partner

#### POLITICAL CONTRIBUTIONS

Consistent with US law, Applied does not use corporate funds to make political contributions to federal candidates or political committees. However, contributions are allowed through the Applied Materials Political Action Committee (AMPAC), which enables eligible employees and stockholders to join together for the purpose of participating in the US federal election process and in certain states. Participation in AMPAC is strictly voluntary. Applied also makes corporate contributions to candidates in states where it is legal and advances the company's business objectives.

Contribution reports for Applied Materials and AMPAC are a matter of public record. For example, Applied Materials' California reports may be found on the web at www.sos.ca.gov/prd/. AMPAC reports may be found at fec.gov/.

## STAKEHOLDER ENGAGEMENT AND COMMUNICATIONS

Digital and online information exchange have enhanced our ability to inform, engage and promote dialog with our stakeholders around the globe. Together, we have embraced the digital age of communications and we are experiencing more sharing of ideas than ever before.

#### Social Media

Using today's popular social media tools and applications, Applied offers stakeholders an added dimension of news feeds and communications options. The Applied Materials Blog — blog.appliedmaterials.com — has proven to be a tremendous asset for us in attracting thousands of interested readers from around the world, and it provides an immediate venue for stakeholder comments and online discussion.

The Applied Materials Blog is dedicated to a global discussion about the ideas, actions and products that are changing the world as we know it.

The blog provides insight into the innovations being created by our employees, technologists and global workforce and drives online conversations about the role clean technology can play in saving our planet, while also creating jobs and other economic benefits by helping promote energy independence. Throughout the blog, Applied discusses — and demonstrates — the importance of being a leading global citizen and operating in an environmentally and socially responsible manner.

In addition to the blog, Applied offers commentary, photos and video clips on other popular online social networks and can be found at appliedmaterials.com/news/connect.







Join us on Facebook, Twitter and YouTube.

#### SUSTAINABILITY INDICES

Several environmental, social, and governance (ESG) indices recognize Applied for demonstrating good programs and performance.

#### Calvert

Dow Jones Sustainability Index

**ECPI Ethical Index Global** 

**Ethibel Sustainability Index** 

FTSE4Good

KLD 400 Social Index

Maplecroft Climate Innovation Index

Nasdaq OMX CRD Global Sustainability 50 Index

# Stakeholder Engagement and Communications Table

Our stakeholders include customers, employees, suppliers, stockholders, and people in our communities all the people we engage with both directly and indirectly as a function of doing business. The following table identifies Applied's primary stakeholders and describes various means for engagement.

STAKEHOLDER	PROFILE	ENGAGEMENT AND COMMUNICATIONS
Investors	Registered and beneficial stockholders of record	Annual Meeting of Stockholders  Annual Report and Proxy Statement  blog.appliedmaterials.com  Corporate website and Investor page  Investor/Analyst events  Quarterly earnings and other conference calls  Press releases  SEC filings on Forms 10-K, 10-Q and 8-K  Responses to socially responsible investment (SRI) questionnaires  www.appliedmaterials.com
Employees	13,045 employees (as of 10/31/10)	Applied Leadership Group programs blog.appliedmaterials.com Company-wide employee communications Employee Intranet Ethics hotline and Office of the Ombudsman Global Employee Opinion Survey Quarterly video and Talk Box programs Quarterly business update Staff meetings Town Hall meetings Training and development programs Welcome to Applied new hire orientation www.appliedmaterials.com
Customers	Manufacturers of semiconductor chips, LCD flat panel displays, solar PVs, flexible electronics, and energy efficient glass	blog.appliedmaterials.com     Customer Portal (password-protected)     Global and US customer sales and service support offices in 22 countries     Industry tradeshows     www.appliedmaterials.com

STAKEHOLDER	PROFILE	ENGAGEMENT AND COMMUNICATIONS
Suppliers and other Business Partners	Global supplier network that ranges from multinational companies to small, independently-owned businesses.	blog.appliedmaterials.com     Green Procurement Guidelines     Supplier development and safety programs     Supplier Forums     Supplier Portal (password-protected)     US and non-US small business, supplier diversity and local programs     www.appliedmaterials.com
Communities	Active participation in the numerous communities around the world, particularly where we do business.	blog.appliedmaterials.com     Community investments and outreach programs     Employee volunteerism and gifts programs     Sponsorship of signature events (i.e., Tech Awards, Turkey Trot)     The Applied Materials Foundation     www.appliedmaterials.com
Non-governmental Organizations	Numerous business forums, philanthropic foundations, academic institutions and development organizations.	blog.appliedmaterials.com     Conferences and meetings attendance     Education Initiative Report     Engagement in direct dialogues     Hosting meetings and conferences     Participation in multi-stakeholder forums and initiatives     www.appliedmaterials.com
Governments, Regulators and Industry	Government engagements in the US and other countries where we conduct business.	blog.appliedmaterials.com     Host visits by government delegations and dignitaries     Local, state and federal industry associations, governors' councils, economic forums, advisory boards, leadership groups, consortiums, and ad hoc committees     www.appliedmaterials.com
Media	Business, industry, technology publications and online magazines, newspapers, technical journals, blogs, TV, tradeshows, and advertising.	blog.appliedmaterials.com     Press releases, press conferences, TV interviews, social media, and blog postings     www.appliedmaterials.com



As a responsible corporate citizen, Applied Materials works to improve the way people live — from the health and well-being of our employees and their communities to our sustainable business practices — every aspect of our business supports the goal of building a brighter future for all.

This overarching philosophy is embodied in our Sustainability Policy and Guiding Principles, which state in part: "Applied Materials is committed to growing profitably and sustaining our business in an environmentally and socially responsible manner. We use our resources and technology leadership to enable the creation of products that improve the way people live." Applied's Environmental, Health and Safety (EHS) policy, as well as the "guiding principles" developed around sustainability, can be viewed on the Corporate Responsibility page of our website.

Applied is committed to undertaking all of its business activities in a manner that avoids threats of serious or irreversible damage to the environment and to the safety of our employees and others. The hierarchy employed calls for risk assessment and avoidance, the use of cost-effective engineering measures where complete avoidance is infeasible and lastly by the use of personal protective equipment if there is residual personal risk. Applied's EHS and Sustainability policies are one means of implementing this approach. (Refer to www.appliedmaterials.com/about/cr/sustainability for details.) Some of the other approaches include: all design engineers are required to take Design for Environment training where this philosophy is taught and relevant resources are described; all new chemicals proposed for use that have unknown properties are deemed "restricted" per Company procedure and the highest level of controls are required for their use; new operations are evaluated as part of a "Job Hazards Assessment" process and the EHS hierarchy described above is explicitly required in order to mitigate any identified risks.

#### **GOVERNANCE**

As described within this report, the company's business activities are governed not only by the Board of Directors and a multiplicity of laws and regulations, but also by the company's Standards of Business Conduct and the Electronic Industry Code of Conduct (EICC).

Sustainability is overseen by the managing director of Corporate Responsibility and Sustainability. This is a function that was newly created in 2010 and reports directly to a member of the CEO's executive staff. There is close coordination between the dedicated Sustainability team and various departments, including the EHS department (where sustainability was previously housed), the Law Department, Investor Relations, Corporate Communications, Community Affairs, Government Affairs, and the Global Sourcing Organization. Regulatory developments (e.g., greenhouse gas reporting) are tracked with the assistance of EHS, the Law Department and

Government Affairs. Broader, cross-functional corporate responsibility issues are managed in close concert with all of the above groups. Non-regulatory developments (e.g., reporting protocols and trends) are monitored using a variety of information sources.

Sustainability and corporate responsibility issues and highlights are included in regular reports to executives, a quarterly update provided to the Board of Directors and an annual EHS and Sustainability presentation provided to the Audit Committee of the Board. Plans are also being developed to launch a senior executive steering council with a charter to provide high-level guidance related to the company's sustainability vision and strategy.

#### 2010 FNVIRONMENT AWARDS

- 100 Best Corporate Citizens List -Corporate Responsibility Magazine
- Business Environmental Award -Acterra (environmental nonprofit)
- Environmental Leadership Award for Building a Greener California - California League of Conservation Voters
- Green Rankings Top 10 -Newsweek Magazine
- Livable Vision Award for **Exemplifying Sustainability Through** Esthetics - Liveable City
- Special Contribution Award Yingli Green Energy

#### **ENERGY**

In 2007, we announced our first set of goals for energy conservation, greenhouse gas mitigation and for conservation of other resources based on a 2006 baseline. As our most recent set of performance data (located in the Appendix) illustrates, we continue to work diligently towards achievement of those goals. Since the publication of those goals, we have placed the highest priority on finding opportunities for, and driving energy efficiency in, our facilities and operations.

As a result of completing several energy savings projects at our main campuses (our largest energy users) in Santa Clara and Sunnyvale, California; Austin, Texas; and Rehovot, Israel, we continued to reduce our overall energy use in 2010 compared to our 2006 baseline. Applied was able to save energy in facilities through a variety of projects: optimizing lighting, installing variable speed drives in ventilation systems, continuous performance monitoring, and building controls.

Although some of the projects are still being validated, it is estimated the FY2010 projects conserved roughly 3 million KWh, representing over \$250,000 in annual energy costs and nearly 1.25 million pounds of CO<sub>2</sub> emissions avoided. Among FY2012 priorities will be collecting additional data on facility systems and loads and identifying conservation opportunities outside of North America.

In 2010, we subscribed to an energy and environmental management software service, which resulted in an improved process for capturing and analyzing sustainability metrics, including energy data. Previously, spreadsheets were used for tracking data.

Also in 2010, we hired a Corporate Energy Conservation Manager, with the objective of consolidating our understanding of gains from energy savings projects already implemented and for the purpose of conducting a more detailed and comprehensive energy assessment across all of our locations. Our year-end objective for FY2011 is to refresh our energy and environmental management plans and goals for the years beyond 2012.

#### WATER

Water is among the most important natural resources on earth and has emerged as a critical consideration for corporate sustainability plans. Applied aims to maximize efficiency in all of our operations and is implementing water reduction initiatives in offices, R&D laboratories, manufacturing plants, and landscaping. With approximately 13,000 employees worldwide, it is important to find multiple ways to reduce operational and facility water usage. In addition to reducing operational water consumption, Applied engineers innovate product efficiencies to enable customers to reduce their use of natural resources.

Since 2006, we have reduced our worldwide water usage by approximately 19 percent, exceeding our 2012 goal of 10 percent. In 2010, a year of considerable business growth, our water usage remained basically flat compared to 2009. We attribute our performance to closure or consolidation of some operations as well as water efficiency projects. At our main campuses, we continue to minimize water use through water efficiency projects, tool software changes (that reduce water flows during idle processing time), lab consolidation, and drought tolerant landscaping. Having achieved our 2012 goal earlier than expected, we have set a new interim goal of 2 percent reduction year-over-year.

At all operations, Applied obtains water from municipal water company providers and does not directly withdraw from sources such as wells, lakes or rivers. No native water sources are affected by withdrawal of water reclamation processes or drainage. We recycle and reuse process water, blowdown from chillers and other water used in our manufacturing and laboratory operations wherever possible. Water can often be reused in semiconductor and solar operations for chilling or removing waste heat from various processes.

#### EMISSIONS, EFFLUENTS AND WASTE

Applied's overall carbon footprint increased by 7.6 percent over 2009 due to a nearly 2x increase in business activity that resulted in greater direct (scope 1) and indirect (scope 2) emissions from operations and increased air travel (scope 3) from sales and customer support. We are still under our 2006 baseline on operational carbon (scopes 1 and 2) by 14 percent (9 percent including air travel).

Since 2008, we estimate our sustainability initiatives have resulted in a savings of 54 GWh of electricity resulting in a cumulative cost savings of approximately \$4.2 million. Direct and indirect carbon emissions (scopes 1 and 2) increased by 6 percent. We continue to identify energy savings opportunities through 'continuous commissioning' projects at our manufacturing and research and development facilities, and we believe we will continue the downward trend until our 20 percent goal is achieved. We also expect to expand our inventory of scope 3 (indirect) emissions and to identify opportunities to reduce those emissions.

Volumes of hazardous waste that required offsite treatment declined significantly, and we will continue to monitor this sustainability metric as new facilities come online in 2011.

Generation of non-hazardous waste increased by 17 percent due to identification of additional waste streams and increased composting at cafeterias, which also resulted in a slightly higher diversion rate. Our goal is to achieve an annual diversion rate of at least 80 percent.

#### **EMPLOYEE ENGAGEMENT**

We continued to engage employees through Green Teams, EarthWorks activities and community volunteering with notable success as measured by our annual all-employee survey. When prompted to rate the level of accomplishment (1 - unsuccessful to 5 very successful) to the statement, "Applied Materials is environmentally responsible in the community," employees overwhelmingly gave the company high marks, resulting in this performance indicator receiving one of the highest marks on the survey.

We attribute the high rating to our continuation of Green Teams, the most active of which is in Austin, Texas, although California and Israel also provide opportunities for employees throughout the year. India and Singapore and other locations have teams that provide an opportunity for employees to participate in green activities and we aspire to grow this effort modeled on the success of Austin.

Earth Day, which takes place every April, is a natural catalyst for employee involvement in environmental projects. Several volunteer activities were well attended such as Full Circle Farms Earth Day preparation in Silicon Valley; solar panel installations on homes for low income families in Austin, Texas and San Jose, California; San Francisco Bay and Austin City clean-up teams; a hospital garden renovation in Israel; as well as a host of other clean-up events in India, Korea, Singapore, and Taiwan. During April, we carried out more than 30 engagement activities worldwide with thousands of employees choosing to be involved at varying levels of participation.

# **FMPI DYFFS WARM UP TO** HOME SOLAR PROGRAM

Applied partnered with SunPower Corp. to educate more than 400 employees on the benefits of going solar including a free evaluation to determine if solar powered energy would make sense for their homes.

For employees who opt to go solar, SunPower offers a discount on solar panels.

In 2010, 13 employee families in North America had solar panels installed on their rooftops, which combined generate approximately 56 KW of electricity.

Based on the success of this pilot program, plans are currently underway to expand the program to Germany.





For more than 40 years, Applied's corporate values of mutual trust and respect have been the basis for cultivating a dynamic and supportive workplace for our employees; one where they feel comfortable, empowered and inspired to perform at peak performance, grow their careers and contribute to the success of the company.

#### Key Areas of Focus

The Applied Global Human Resources (HR) team works closely with senior leadership to enable the success of our employees through a variety of programs and initiatives. Key focus areas include:

- Employees Attracting and retaining all levels of employees for more than 90 locations worldwide.
- Workplace We strive to cultivate an environment of collaboration, open communication, inclusion, respect, and freedom to innovate. Our annual employee survey, pulse surveys and focus groups provide feedback for improvements.
- Diversity With operations in 22 countries and about 50 percent of employees outside the US, our workforce is rich with diversity. Employee Resource Groups provide a professional network and year-round diversity events and programs to continue to further Applied's focus on inclusion.
- Career Development Applied Global University (AGU) offers hundreds of online and live training and education classes where, in 2010, employees, contractors, interns, and temporary workers completed an average of 24 hours of training. Tuition reimbursement, new college graduate programs and technical development tracks are also available.
- Occupational Health, Safety and Wellbeing These are key priorities for all employees. Wellness fairs and fitness centers, ergonomic evaluations, onsite medical emergency centers and emergency response teams, and email news alerts and reminders all help to promote a safe workplace.
- Management and Leadership Development Applied offers our leaders a comprehensive curriculum designed to prepare them to meet the future needs of the organization.

#### 2010 HIGHLIGHTS

- Laid the groundwork for establishing an Applied Talent Council to focus on hiring, technical career development and establishing formal Distinguished Fellows program.
- Implemented initiative to increase hiring of new college graduates (NCGs) to 25 percent of annual hires: joint project between executive committee through office of the CTO and NCG program office.
- Migrated entire global workforce to unified workday staffing management platform.
- Finalized a peer-to-peer informal recognition program for all employees, with rewards and recognition aligned to our strategic priorities.
- Designed an intensive leadership development program that focused on five key leadership traits required to implement our growth plans.

#### **EMPLOYMENT**

Applied's continuing business success depends on our ability to attract, develop and retain a world-class global workforce, one that reflects our core values and shares our passion for achieving our goals. Applied creates value and enriches the communities where we do business by creating jobs, hiring local talent, offering employee training and leadership development programs, and providing health benefits and wellness programs to our workers and their families

At the end of our fiscal year, Applied had a global workforce of approximately 13,000 regular fulltime employees at 92 locations in 22 countries. Approximately 50 percent of employees are located in the US and the remainder in Europe and Asia.

#### **Hiring Practices**

In addition to hiring a diverse workforce of accomplished and highly skilled employees, Applied regularly recruits new employees and student interns from local communities and universities. In 2010, Applied participated in more than 70 recruiting events and job fairs around the globe. Recruitment occurs through many activities, including professional associations, employee referrals, community outreach, and career fairs.

At Applied, we offer a wide range of internship positions that provide qualified students with hands-on experience in a corporate environment as an opportunity to grow and develop tomorrow's leaders. Our interns receive a comprehensive benefits package as well as access to many student activities.

The New College Graduate (NCG) program is a full-time, paid opportunity for recent college grads designed to train and engage emerging technology professionals in a variety of disciplines. An Exiting Military Recruitment program provides training and transition assistance to qualified military professionals.

Applied's HR manual includes a policy against child and forced labor. We do not endorse, nor practice, child labor. or forced or compulsory labor. All employees are fairly compensated for their work time.

More information on employment can be found on our website under About/Careers.

#### DIVERSITY AND INCLUSION

Diversity is a fundamental value at Applied. Our continued business success, product innovation and industry leadership positions are fueled by our ability to attract and motivate the best and the brightest individuals from around the world. Applied embraces diversity and promotes inclusion in all areas of the business.

Incorporated into Applied's core values are two concepts that have helped shape our corporate culture and value of diversity as a competitive advantage:

- · Respect for the individual Mutual trust and respect for all.
- Global awareness Embracing different perspectives leads to a wealth of opportunities.

It is our goal to actively promote a work environment where differences are valued and respected, capabilities are leveraged and employees are fully engaged. More information on our global diversity programs can be found on our website under About/Careers.

#### **BENEFITS**

Applied offers employees a wide range of comprehensive benefit and reward programs. In most locations, employees may choose from a variety of financial, health and family care, learning and development, defined benefit plans for retirement, and wellness programs. More information on Applied's benefit programs can be found on our website under About/Careers/Benefits.

In addition to providing competitive levels of compensation, in most locations, Applied offers retirement savings and investment programs to help employees save and invest for the future. Details on these financial programs may be found on our website under About/Careers/Benefits.

In 2010, we launched the Applied Achievement Award program which enables our employees to give — and receive — peer or group recognition for accomplishment in any one or more of the company's strategic focus areas: innovation, operational excellence, customer experience, and employee excellence.

#### **HEALTH AND SAFETY**

Applied's objective is to conduct its business operations in a manner that preserves the environment and protects the health and safety of our employees, temporary workers, customers, suppliers, and neighboring communities.

The global Environmental Health and Safety (EHS) group oversees the protection of employee health, industrial hygiene and product safety. EHS manages a wide array of programs and services, and provides EHS-related resources. Information on Applied's EHS Management program is on our website under About/Corporate Responsibility/Sustainability.

In 2010, Applied's EHS and Sustainability team was awarded the President's Quality Award for its programs to reduce energy use and improve safety. The team demonstrated a strong use of quality tools to improve company-wide EHS metrics. The results were a 21 percent reduction of carbon footprint over a 2006 baseline (50k tons CO<sub>2</sub>), an OSHA Recordable Total Case Injury/Illness Rate (TCIR) 17 percent below industry average, and a 17.5 percent energy efficiency improvement for projects exiting Product Life Cycle (based on actual measurements of new products compared to prior versions).

#### TRAINING AND FOUCATION

Applied's success depends on its employees being innovative, flexible and responsive in meeting the demands of our various businesses. Ongoing personal and career development is essential to the success of our organization. It enables us to attract and retain top quality employees, provide career advancement opportunities, develop future leaders and stay on the cutting edge of technology.

Applied Global University (AGU), the delivery arm of the Learning and Development organization, offers more than 1.500 online courses and 2.500 classroombased programs to employees, contractors, interns, and temporary workers. In 2010, the company's workforce logged nearly 520,000 hours of training and employees completed an average of 34 hours of training through AGU

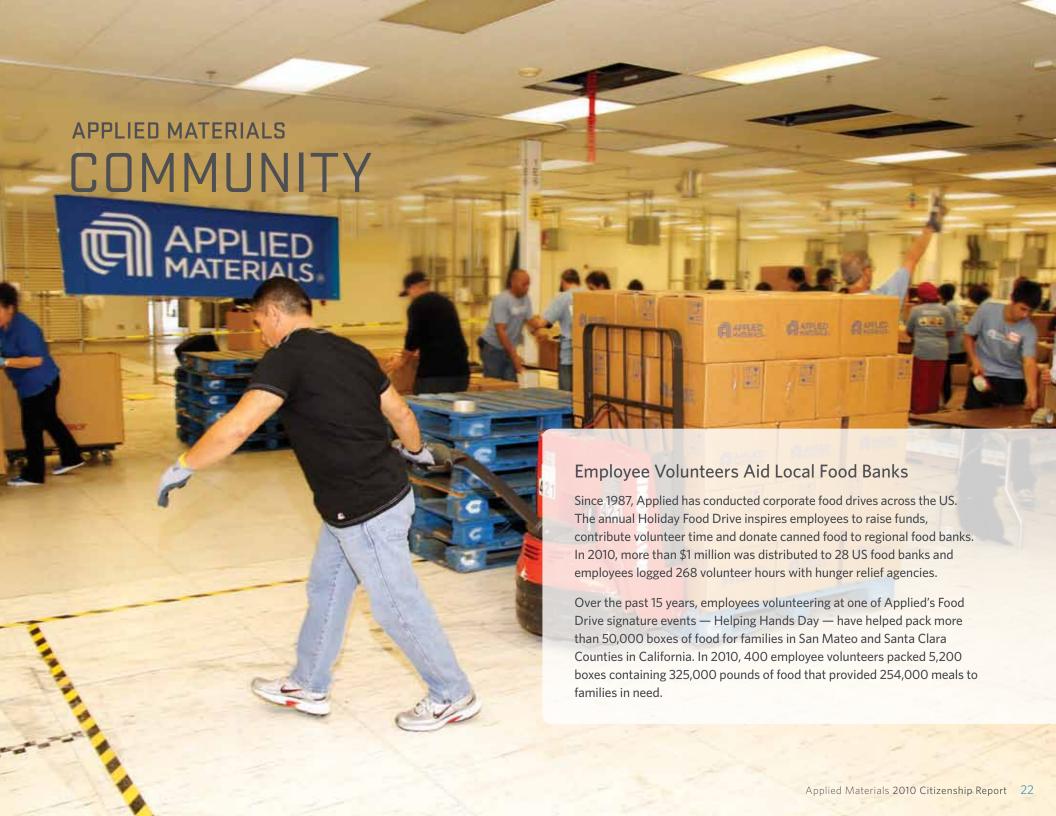
#### Communications

Open communication is a fundamental philosophy at Applied and our Open Door Policy gives employees access to all levels of management to address workrelated concerns. Employee surveys indicate that this two-way communication contributes to organizational health and helps to improve productivity. A listing of examples of types of employee communications may be found in the Governance section of this report.

# Applied Anywhere

Nearly 20 percent of Applied's employees work remotely — at least one day a week — because of their customer-site job assignment, roving iob responsibilities or preference to work from home. Mutual benefits include increased productivity, ability to select most qualified employees for virtual teams, flexible scheduling to support customers, the ability to attract and retain the best talent worldwide, work-life balance, and a reduction in the company's carbon footprint.

Since the launch of the Applied Anywhere (A2) program in 2006, A2 has expanded to 13 countries worldwide and has enrolled more than 500 employees working from home either part-time or full-time. More than 1,500 employees work remotely from other locations (e.g., customer sites).



Applied Materials is committed to being an actively engaged corporate citizen in regions around the world where our employees work and live. Applied believes that by focusing resources — both financial and human — on issues of importance to our communities' sustainability, neighborhoods are changed and lives are improved.

In 2010, cash contributions from Applied and The Applied Materials Foundation (The Foundation) — the philanthropic arm of the company — totaled \$11.5 million, including \$1.43 million to match employee donations. This represents a 7 percent increase over 2009 results. Considering the challenging economic times in 2009, this level of funding underscores Applied's continued commitment to social responsibility.

#### INVESTMENTS IN OUR COMMUNITIES

By focusing financial resources from Applied and The Foundation in the areas of education, civic development, the environment, and arts and culture, we can influence positive change by supporting the work of partner organizations focused on making significant impacts around the world

Applied values its strategic, long-term relationships with many non-governmental organizations, but it also welcomes the chance to explore new collaborative ventures — an opportunity that was provided when Semitool in Kalispell, Montana, became part of Applied in December, 2009.

#### Education

Education has traditionally been the largest recipient of Applied's philanthropic efforts. In 2010, over \$4.3 million of our community investments were directed to programs and partnerships focused on education. Our Education Initiative, launched in 2001, is anchored by an average annual investment of \$1.5 million from The Foundation specifically to support programs aimed at improving the test scores and graduation rates of underserved school

districts in Silicon Valley, California, and Austin, Texas, where we have major operations. The ultimate goal of the Education Initiative is to prepare students living in the targeted neighborhoods to succeed in life.

In 2010, Applied expanded our partnerships with select education program providers bringing resources to more regions and students. Highlights include:

- Support for the New Teacher Center in providing professional development to teachers and districts in San Jose, California; Kalispell, Montana; Austin, Texas; and Portland, Oregon.
- Seed money for Teach for America's inaugural program in Europe — Teach for All — used to recruit and train recent college graduates to work in underserved schools. Applied also supported the launch of Teach for Deutschland in Berlin, Germany.
- Funding for the American India Foundation to help open new Digital Equalizer Centers located in low income areas and government-supported schools in the Karnataka region of India.

# SOLAR 'SUN FLOWERS' WIN ENVIRONMENTAL AWARD

Liveable City, a leading Austin organization dedicated to addressing the long-term social, environmental and economic needs of Austin, Texas, announced in March that the "Sun Flowers — Electric Garden" solar project, co-sponsored by Applied Materials, won a 2010 Liveable Vision Award.

The Sun Flowers stand along a walking path collecting energy on solar panels that help power nearby buildings and also charge internal batteries during the day. The battery power lights up the Sun Flowers at night.

For more photos and information, see our blog: Solar Sunflowers Bloom In Austin.



Photo by David Newsom, http://davidnewsomphoto.blogspot.com/

• Partnership with local NGO Ofanim in Israel to facilitate economic and social advancement for children living in disadvantaged neighborhoods, provided after school classes in mobile laboratories equipped with state-of-the-art technology.

#### Civic Development

Providing basic necessities of daily living for those in need and helping develop leaders of the non-governmental sector are at the core of Applied's commitment to improving the way people live — both immediately and well into the future. In 2010, Applied and The Foundation contributed nearly \$3.2 million around the globe in a number of civic initiatives, including:

- More than \$138,000 in emergency relief funds donated to victims of the 2010 earthquake in Haiti, thanks to the generosity of employees and a matching Foundation grant.
- Sponsorship of the Global Leadership Institute, which brought Korean college students to Silicon Valley to learn about corporate responsibility, the nonprofit sector and community volunteerism.
- Made second (final) installments of two Foundation grants first awarded in FY2009. In total, the Urgent Community Response Fund at United Way Silicon Valley received \$1 million and the Austin (Texas) Community Foundation's Basic Needs Emergency Assistance Fund received \$500,000

#### Environment

Rooted in our interest in sustainability, Applied and The Foundation provided more than \$1.3 million to organizations dedicated to protecting the environment, promoting alternative energy, and educating youth on becoming good stewards of the earth. This represents a 160 percent increase over the previous year and is a testament to Applied's commitment to investing in projects that offer employees volunteer opportunities,

enhance access to environmental education and raise awareness of the importance of widespread adoption of renewable energy. Highlights included:

- Mt. Fuji annual "clean-ups," a tradition for employees and their families in Japan, which resulted in removal of 1,100 pounds (500kg) of debris from the famous landmark.
- Support for the "Heroes of the United Arab Emirates" program to conduct energy audits of facilities. The results will be used as the basis for promoting conservation of natural resources and raising awareness among community members about the advantages of renewable energy.
- Educated participants about environmental stewardship through gardening projects in China, Israel, Taiwan, and the US, planting trees in India and developing a sensory garden in Singapore.

#### Arts

The arts add vitality to a community and afford its residents the opportunity to explore innovative ideas, study cultures, and share creative inspirations. The experiences can build bridges between people, provide entertainment and enlightenment, and spark discussion, debate, and even action. In 2010, Applied and The Foundation donated \$1.2 million to organizations focused on arts and culture — both mainstream anchor organizations and cutting edge projects. Examples included:

- Expanded support of an acclaimed Hsinchu, Taiwan Art History program in Tainan, Taiwan where thousands of people participate in the four session series in two locations.
- Enabled the Munich Youth Orchestra Bayerische Philharmonie — to perform at multiple sites in Korea accompanied by talented young Korean musicians.

# FUTURE SCIENCE STARS OF CHINA

High school students in Shanghai use creativity, innovation and persistence to win a coveted spot as a Future Science Star. The annual competition, which Applied has supported for six years, recognizes top students for science projects. This year, projects ranged from LED street lights to a massaging mouse intended to offer relief to computer users suffering from carpal tunnel syndrome.

The top four students won a trip to Silicon Valley. They presented their projects to company executives, toured Applied's Maydan Technology Center and visited San Jose's Tech Museum where they got hands-on experience at the "Green by Design" exhibit to learn more about renewable energy sources.

For information about the Future Science Stars projects and their California visit, see our blog: Shanghai Students Recognized as Future Science Stars.



• Financial support and sponsorship of the Glacier Symphony in Kalispell, Montana; the Zachary Scott Theatre Center in Austin, Texas; Movimiento de Arte y Cultura Latino in San Jose, California; and the Ecocinema Solar Film Tour presented by the Beautiful Israel Council.

## Signature Programs

In addition to in our core funding areas, the company also supported a number of key signature events in our headquarters community of Silicon Valley, including:

• The Tech Awards, an annual awards event presented by Applied Materials, honors innovators who use technology to benefit humanity. Notable Laureates in 2010 include the Akshaya Patra Foundation which addresses two critical challenges facing India's children, hunger and access to education, through its school lunch program which costs just \$28 a year per child, and the Alternative Energy Development Corporation of South Africa which has developed a line of environmentally friendly, inexpensive zinc-air fuel cells that generate energy 24/7, for non-grid electrification.

At the Tech Awards, Queen Rania Al Abdullah of Jordan was honored with the 2010 James C. Morgan Global Humanitarian Award. Oueen Rania is known as a passionate promoter of education and human rights. Her Jordan River Foundation gives skills and resources to families living in poverty and helps them to become self-sufficient.

 In 2009 Applied Materials Silicon Valley Turkey Trot, a record-breaking 9.500 walkers and runners raised more than \$322,000 for three local charities: Second Harvest Food Bank, The Housing Trust and the Children's Health Initiative

#### EMPLOYEE INVOLVEMENT

Applied employees typically respond enthusiastically when offered the opportunity to become personally involved in the local community. Whether it is through the contribution of financial resources or the gift of time, employees can follow their passion, participating with organizations that address causes of interest to them.

The company coordinated a number of projects to engage employees in 2010, including:

- Earth Day celebrations throughout April around the world with a variety of activities involving Applied employees including: "no-car day" in China; tree planting and gardening in Bangalore, India and Kalispell, Montana; installing solar panels on Habitat for Humanity homes in Silicon Valley; donating solar heaters to remote schools in Taiwan; and recycling computers in Austin, Texas.
- During April's EarthWorks activities, a "Green Quotient" quiz spurred 1,500 employees to test their "GQ" and participate in online guizzes on energy, water and resource conservation, with donation incentive raising more than \$10,000 for three environmental organizations: Blue Planet Run, Solar Electric Light Fund (SELF) and The Nature Conservancy.
- The Applied Materials Annual Holiday Food Drive inspired employees across North America to raise funds, contribute volunteer time or donate canned food to regional food banks. More than \$1 million was distributed to 28 US food banks and employees logged 268 volunteer hours with hunger relief agencies.

#### AFTERLIFF GOES GREEN

At the Institute of Contemporary Art in San Jose, California, the exhibit entitled Afterlife, funded in part by The Applied Materials Foundation, featured works created to breathe new life into repurposed materials and objects.

Artists transformed items collected from the street, garbage dumpsters, junkyards, and second-hand stores into creations that make us thoughtfully consider and often re-think how we use — and how we get rid of — everyday items like cardboard boxes, toothbrushes and old furniture.

Exciting things happen when art intersects with the greening of a community and "junk" is creatively repurposed in Afterlife rather than sent to a landfill. The exhibit showcased recycling in a novel way.



Courtesy of the artist, Elisabeth Higgins O'Connor

#### EMPLOYEE GIVING AND MATCHING

Through the Employee Giving Program, The Applied Materials Foundation matches donations (up to \$2,000 per employee per year) by US employees who contribute to eligible nonprofit organizations and schools. In 2010, employees donated approximately \$1.37 million dollars and The Foundation provided a matching gift of \$1.30 million, for a total of \$2.67 million in direct community benefit. In addition, employees in Israel and Japan made personal donations to selected regional organizations which were leveraged through matching funds.

For employees who volunteer 20 hours or more per year at a US nonprofit organization or school, Applied's Volunteer Time Grant program contributes \$250 to that organization. In 2010, US employees recorded 8,441 volunteer hours through the program resulting in Foundation donations totaling \$44,500. This was a 33 percent decrease in the number of hours reported as compared to 2009, but only a \$7,000 decrease in funds distributed to associated nonprofits.

#### Favorable Ratings with Employees

In the 2010 Employee Survey, 81 percent of respondents gave Applied highest marks for social responsibility in the community.

#### PI ANS

Based on the company's core value of making a positive social contribution in regions where we do business, Applied and The Foundation will continue to invest in communities of importance to us, our employees and customers. We remain committed to strategic support in the areas of education, civic development, the arts, and the environment.

In addition to focusing on successful community investments and encouraging employee engagement, during the next years, we plan to:

- Expand availability of employee giving and matching programs around the world.
- Increase employee involvement in culturally relevant ways in regions outside the US.
- Create and pilot a competition for high school students that will align with our interests in education, youth development and clean technology to help inspire the next generation of innovators.
- Advocate for, and offer support to, China's effort to host a Solar Decathlon program — currently managed by the United States Department of Energy — that promotes competition between university teams to design solar housing.

For progress on our plans and information about our ongoing efforts, please visit our Corporate Responsibility website.

# APPLIED MATERIALS PRODUCT RESPONSIBI

# Applied Centura® Tetra™ X Advanced **Reticle Etch System**

The Applied Tetra X system is the most advanced mask etcher for 22nm production and beyond. As the semiconductor industry continues to extend the limits of current lithography technologies, Tetra X plays a critical role by enabling resolution enhancement techniques, such as optical proximity correction (OPC), and by offering the capability to etch the entire spectrum of photomask materials. The Tetra X system enables chipmakers to optimize lithography process capability for their highest performing memory and logic chips. This state-of-the-art system demonstrates Applied's continued commitment to providing photomask customers with world-class etch technology.

#### CREATING FCONOMIC VALUE

Applied Materials' overarching business goal is to deliver positive value to our shareholders. This objective is a defining challenge that our employees embrace and work towards every day. Employees are designing improved products, driving operational efficiencies and delivering solutions to increase productivity and mitigate risk.

Forty-five years ago, visionary Gordon Moore predicted that the number of transistors on a chip would double approximately every two years. Moore's Law has since driven the chip-making industry by challenging the world's top scientists to push the boundaries of physics to create smaller and smaller chip dimensions with increasing functionality.

Applied's chemists, physicists, and mechanical and electrical engineers pool their ingenuity to develop semiconductor manufacturing equipment and processes that allow the industry to continue the roadmap set out by Moore's Law. With our products, Applied provides leading-edge technology to enable the fabrication of increasingly smarter, more functional chips, and the productivity and performance to enable higher yields with lower cost manufacturing.

#### PROCESS-DRIVEN PRODUCT DEVELOPMENT

In the interest of the company and customers, Applied is on a constant guest to increase the value of intellectual property (IP), while decreasing the cost of products, their development and lifecycles. It is a balancing act to encourage innovation in the lab while simultaneously monitoring each new process for compliance.

Through external collaboration and the use of standard metrics and design iteration. Applied streamlines the product development process and reduces costs.

- Adoption of an open innovation process broadens the available channels of new product ideas to resources outside the company.
- Collaboration with customers, academia and researchers in other industries broadens the knowledge base, both for Applied and the industries we serve. For example, Applied collaborated with

peer companies and international consortia for research and development on inspection, throughsilicon vias (TSVs), high-k metal gates, and Gallium Nitride (GaN) processes.

- Through measurement of performance with formal metrics, we seek to improve product development success rates, reduce costs and deliver innovation more predictably.
- Leveraging existing Applied IP and processes is especially valuable in reducing time to market for products since development times are often lengthy and the market window short

At every step of the product release process, Applied development groups follow exacting procedures, processes and best practices, as well as comply with industry standards, trade regulations, laws, and personal safety.

# SOLAR FEFICIENCIES DRIVE DOWN COSTS

Through Esatto™ Technology — a combination of hardware, software and processes — Applied Baccini enables PV cell manufacturers to improve the efficiency of the c-Si solar cells produced by their existing lines or future new installed lines. The first of several applications of the Esatto Technology is for double-printed metal line deposition where it has been shown to raise absolute cell efficiency by as much as 0.5 percent.

In May 2010, a leading low-cost, largescale cell and module manufacturer in Taiwan reported a > 0.43 percent efficiency improvement with the implementation of Esatto Technology.

A month later, a long-term customer in Germany presented data that showcased Esatto as a key driver to achieving >18.5 percent cell conversion.



#### CUSTOMER HEALTH AND SAFETY

The guiding principle at Applied is Safety First in our offices, labs and manufacturing sites. Every effort is made to eliminate the risk of injury or accident within the company.

To assure product safety, expert product safety engineers have primary responsibility for product safety. Each product business unit is responsible for making necessary changes to ensure the products they release — and any future modifications to them — are safe. The principal element of the management system is that product Environmental Health and Safety (EHS) standards, including safety and environmental performance, are built into Applied's product release process; a wide array of minimum standards must be satisfied before a product can be released into the marketplace. The standards are a combination of those drawn from international organizations (e.g., UL, ANSI, IEC, EN, SEMI, and others) as well as best known methods identified through our experience in the field.

In addition to safety on our manufacturing floor and redundant safety mechanisms in our equipment, customers are provided with detailed operating manuals and product guides and are required to attend comprehensive training on products by our field engineers prior to tool/system use and after any upgrades. In many cases, Applied has field support engineers who work full time at customer sites to validate that proper operating procedures are followed, and ensure that product performance specs are met and safety precautions are adhered to, as well as ensure customer satisfaction.

The Design for Environment (DfE) program ensures that products meet applicable legal and customer requirements and enhances the products' environmental and energy performance. In 2007, Applied set a goal to improve the environmental performance of our products by at least 20 percent on average by 2012.

We are implementing this initiative by several means:

- Formally incorporating DfE into the release process, tasking business units to assess demand for more efficient products and then establishing targets for achieving improvements.
- Developing internal tools for engineers to assess the potential of product deviations resulting from component selections and substitutions.
- Creating product performance measurement standards in alignment with the "Guide for Conservation of Energy, Utilities and Materials Used by Semiconductor Manufacturing Equipment" metrics.

Applied engineers were instrumental in the development of the S-23 standard and we have been recognized with two leadership awards from the International Sematech Manufacturing Initiative (ISMI) for these contributions. Applied is one of only two suppliers that are members of the ISMI's ESH Technology Center, where we can collaborate closely with semiconductor customers on DfF advancements.

# REDUCING SOLAR PRODUCTION COSTS

In May 2010, Applied released SmartFactory MES software — an advanced factory automation solution to track and streamline the flow of materials throughout a manufacturing facility. Designed for emerging technologies in the solar, LED and chip packaging industries, SmartFactory software improves product quality, boosts productivity, reduces waste, and streamlines efficiencies.

Hareon Solar of China selected the SmartFactory system because of its ability to combine solar wafer and solar cell production lines into a single virtual factory, enabling the system to increase megawatt output and drive down costs by synchronizing production across different geographical locations in real time.



#### **CUSTOMER SATISFACTION**

The satisfaction of customers is critical to our success. Applied employees strive to build customer trust and respect to promote a mutually beneficial relationship.

Close proximity to customers helps to promote open communications, discussion and prompt addressing of customer concerns. Additionally, Applied uses a variety of regularly scheduled customer satisfaction surveys which focus on different areas of our products and services. For example, one survey conducted at the account level measures service quality, accessibility and responsiveness, and understanding and resolving customers' issues. Another corporate-level survey measures brand allegiance and awareness. The worldwide operations group performs yet another survey to garner customer perspective on Applied's product quality, reliability, lifecycle costs, and global service. By regularly measuring customer perceptions, Applied is able to make sound decisions and improvements in our business to meet the needs of customers and strengthen loyalties.

#### COMMUNICATIONS

Applied employees with expertise in advertising, promotions, tradeshows, collateral, corporate and strategic communications, public media and social media, create communications that are effective and protect the brand. In communications with other entities (i.e., advertising, sponsorships, trade shows, speaking events, and contest entries), Applied works with that organization to satisfy their requirements. The company also has disclosure controls and procedures to ensure legal compliance.

For a list of stakeholder engagement opportunities and communications forums, please see the Stakeholder Engagment table in the Governance section of this report.

#### KEY PERFORMANCE INDICATORS

The following tables identify key economic, environmental and social metrics for Applied for fiscal years 2008, 2009 and 2010. Note: Only indices and profile disclosures required for a level B are provided in the following tables. Data cited within this report has been provided by thirdparty vendors (gas and electric utilities, refuse/recycling services, and travel agencies), internal operations, financial reports, and auditors.

#### Economic

INDEX	DESCRIPTION OF INDICATOR	2010	2009	2008
EC1	Direct economic value generated and distributed, including revenues, operating costs, employee compensation, donations and other community investments, retained earnings, and payments to capital providers and governments.			
	Revenues (\$M)	\$ 9,549	\$ 5,014	\$ 8,129
	Total Operating Expenses (\$M)	\$ 2,331	\$ 1,824	\$ 2,131
	Total Applied Materials community investments and Foundation grants. (\$M)	11.6	10.7	12.0
	Total Employee Giving plus company match. (\$M)	2.6	2.4	3.0
	Total Volunteer Time Grant hours.	8,441	12,644	15,191



We reference Global Reporting Initiative (GRI) Sustainability Reporting Guidelines in this report and have provided the essential management discussion and analysis, profile disclosures and key performance indicators as stated in the Guidelines.

Applied self-declares this report to be at a GRI application level B as outlined in the indicator tables in this report.

# KEY PERFORMANCE INDICATORS (CONTINUED)

## Environmental

INDEX	DESCRIPTION OF INDICATOR	2010	2009	2008
EN3	Direct energy consumption by primary energy source. (Gas) (Therms)	3,722,328	3,510,425	4,127,727
EN4	Indirect energy consumption by primary source. (Electricity) (GWh)	309	272	318
	Worldwide total - Green Power Purchases. (GWh)	33	29	29
EN5	Energy saved due to conservation and efficiency improvements. (GWh)	15	26	13
EN8	Total water withdrawal by source. (CCF) 1	75,000	75,000	75,000
	Worldwide total – Water usage. (CCF) <sup>2</sup>	486,000	487,500	587,500
EN9	Water sources significantly affected by withdrawal of water.	none	none	none
EN16	Total direct and indirect greenhouse gas emissions by weight. (MTCE) <sup>3</sup>	178,406	167,988	198,064
EN17	Other relevant indirect greenhouse gas emissions by weight. (MTCE) (scope 3 air travel)	36,863	32,045	34,419
EN20	NOx, SOx, and other significant air emissions.	negligible	negligible	negligible
EN22	Total weight of waste by type and disposal method. (metric tons)			
	Hazardous waste treated off-site.	612	1,090	1,500
	Recycled/composted/diverted.	6,148	5,125	3,655
	Landfill.	723	690	970
	Diversion Rate. (%)	89.5	88.1	80.0
EN23	Total number and volume of significant spills.	none	none	none

<sup>(1)</sup> The only withdrawal is through a pump-and-treat system at the Arques campus (Sunnyvale, California) as a result of a legacy groundwater issue prior to Applied purchasing the land. Pump-and-treat operates at a generally consistent rate.

<sup>(2)</sup> Water footprint for owned facilities includes landscaping and process. Water footprint for leased facilities includes only process with a conversion: 1 m3 = .353 CCF. This figure does not include "office-only" facilities.

<sup>(3)</sup> Carbon from electricity and fuel consumption (from operations).

# KEY PERFORMANCE INDICATORS (CONTINUED)

# Social: Labor Practices and Decent Work

INDEX	DESCRIPTION OF INDICATOR	2010	2009	2008
LA1	Total workforce (by employment type, employment contract, and region)	13,045	12,619	14,824
	Workforce breakdown by region (RFT and interns).	NA: 6,444 EUR: 2,681 ASIA: 3,988	NA: 6,170 EUR: 2,909 ASIA: 3,562	not available
LA7	Rates of injury, occupational diseases, lost days, and absenteeism, and number of work-related fatalities by region.			
	Total case incidence rate. (TCIR)	1.0	1.13	1.13
	Injuries or illnesses resulting in days away from work, restricted work activity, or job transfer for every 100 employees. (DART)	0.56	0.17	0.27
	Total number of work-related fatalities worldwide.	0	0	0
	Number of office ergonomic evaluations performed worldwide.	1,777	1,156	963
LA8	Education, training, counseling, prevention, and risk- control programs in place to assist workforce members, their families, or community members regarding serious diseases. (total number of hours online training in pandemic preparedness.)	4,250	4,600	7,224
	Total hours training provided by Applied Global University (online and classroom).	519,974	434,000	754,133
	Total number of employees, contractors, interns, and temps who received training.	21,652	20,756	25,210

# KEY PERFORMANCE INDICATORS (CONTINUED)

## Social: Labor Practices and Decent Work

INDEX	DESCRIPTION OF INDICATOR	2010	2009	2008
LA10	Average hours of training per year per employee by employee category. Includes full-time employees, contractors, interns, and temps.	24	21	30
LA12	Percentage of employees receiving regular performance and career development reviews. <sup>1</sup>	90%	88%	78%
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. Standards of Business Conduct: Read & Review — all employees must review annually. (Estimated hours based on an employee base of approximately 13,000 with a read/review/submit time of 2 hours.)	Approx 26,000 hrs/100%	Approx 26,000 hrs/100%	Approx 26,000 hrs/100%
SO2	Percentage and total number of business units analyzed for risks related to corruption.	100%	100%	100%
SO3	Percentage of employees trained in organization's anti-corruption policies and procedures.	100%	100%	100%
SO6	Total value of financial and in-kind contributions to political parties, politicians, and related institutions. <sup>2</sup>	\$226,136	\$151,787	\$231,235
	Federal and Texas political contributions through AMPAC	\$77,000	\$90,893	\$60,100

<sup>(1)</sup> Annually, every employee is encouraged to complete an online Performance Appraisal which becomes part of their permanent record and can serve as a basis for career development planning. While nearly all eligible employees receive performance ratings from their manager, not all employees complete the Performance Appraisal.

<sup>(2)</sup> US only. California political contributions through Applied Materials. Data does not include Republican Governors Association and Democratic Governors Association.

## G3 CONTENT CROSS INDEX

This table lists the Global Reporting Initiative (GRI) G3 indicators required for a B level report and the location of data — either within the body of the 2010 Report or on our corporate website — which addresses the guideline requirement and/or provides additional information.

## Standard Disclosures: Profile Disclosures

PROFILE DISCLOSURE	DESCRIPTION	CROSS REFERENCE
Strategy and Analysis		•
1.1	Statement from the most senior decision-maker of the organization.	CEO STATEMENT
1.2	Description of key impacts, risks and opportunities.	FORM 10-K
Organizational Profile		
2.1	Name of the organization.	CORPORATE
2.2	Primary brands, products, and/or services.	CORPORATE
2.3	Operational structure of the organization, including main divisions, operating companies, subsidiaries, and joint ventures.	CORPORATE
2.4	Location of organization's headquarters.	CORPORATE
2.5	Number of countries where the organization operates and names of countries with either major operations or that are specifically relevant to the sustainability issues covered in the report.	CORPORATE
2.6	Nature of ownership and legal form.	CORPORATE
2.7	Markets served (including geographic breakdown, sectors served, and types of customers/beneficiaries).	CORPORATE
2.8	Scale of the reporting organization.	CORPORATE
2.9	Significant changes during the reporting period regarding size, structure, or ownership.	CORPORATE
2.10	Awards received in the reporting period.	CORPORATE

PROFILE DISCLOSURE	DESCRIPTION	CROSS REFERENCE
Report Parameters		
3.1	Reporting period (e.g., fiscal/calendar year) for information provided.	INTRODUCTION
3.2	Date of most recent previous report (if any).	INTRODUCTION
3.3	Reporting cycle (annual, biennial, etc.)	INTRODUCTION
3.4	Contact point for questions regarding the report or its contents.	INTRODUCTION
3.5	Process for defining report content.	INTRODUCTION
3.6	Boundary of the report (e.g., countries, divisions, subsidiaries, leased facilities, joint ventures, suppliers).	INTRODUCTION
3.7	State any specific limitations on the scope or boundary of the report.	INTRODUCTION
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.	INTRODUCTION
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.	DATA TABLE
3.10	Explanation of the effect of any re-statements of information provided in earlier reports, and the reasons for such re-statement (e.g., mergers/acquisitions, change of base years/periods, nature of business, measurement methods).	INTRODUCTION
3.11	Significant changes from previous reporting periods in the scope, boundary, or measurement methods applied in the report.	INTRODUCTION
3.12	GRI Content IndexTable identifying the location of the Standard Disclosures in the report.	APPENDIX
3.13	Policy and current practice with regard to seeking external assurance for the report. If not included in the assurance report accompanying the sustainability report, explain the scope and basis of any external assurance provided. Also explain the relationship between the reporting organization and the assurance provider.	INTRODUCTION

PROFILE DISCLOSURE	DESCRIPTION	CROSS REFERENCE	
Governance, Commitments and Engagement			
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.	GOVERNANCE	
4.2	Indicate whether the Chair of the highest governance body is also an executive officer.	GOVERNANCE	
4.3	For organizations that have a unitary board structure, state the number of members of the highest governance body that are independent and/or non-executive members.	GOVERNANCE	
4.4	Mechanisms for shareholders and employees to provide recommendations or direction to the highest governance body.	GOVERNANCE, PROXY	
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).	PROXY	
4.6	Processes in place for the highest governance body to ensure conflicts of interest are avoided.	GOVERNANCE, STANDARDS OF BUSINESS CONDUCT	
4.7	Process for determining the qualifications and expertise of the members of the highest governance body for guiding the organization's strategy on economic, environmental and social topics.	PROXY	
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.	INTRODUCTION, ENVIRONMENT	
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.	GOVERNANCE, ENVIRONMENT, PROXY	
4.10	Processes for evaluating the highest governance body's own performance, particularly with respect to economic, environmental, and social performance.	PROXY	
4.11	Explanation of whether and how the precautionary approach or principle is addressed by the organization.	ENVIRONMENT	

PROFILE DISCLOSURE	DESCRIPTION	CROSS REFERENCE
4.12	Externally developed economic, environmental, and social charters, principles or other initiatives to which the organization subscribes or endorses.	GOVERNANCE
4.13	Memberships in 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.	GOVERNANCE
4.14	List of stakeholder groups engaged by the organization.	GOVERNANCE
4.15	Basis for identification and selection of stakeholders with whom to engage.	GOVERNANCE
4.16	Approaches to stakeholder engagement, including frequency of engagement by type and by stakeholder group.	GOVERNANCE
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.	BLOG, PROXY
Economic		
EC1	Direct economic value generated and distributed, including revenues, operating costs, employee compensation, donations, and other community investments, retained earnings, and payments to capital providers and governments.	DATA TABLE
EC3	Coverage of the organization's defined benefit plan obligations.	http://appliedmaterials.com/ about/careers/benefits
EC4	Significant financial assistance received from government.	FORM 10-K
EC8	Development and impact of infrastructure investments and services provided primarily for public benefit through commercial, in-kind, or pro-bono engagement.	FORM 10-K
EC9	Understanding and describing significant indirect economic impacts, including the extent of impacts.	FORM 10-K
Environment		<u>i</u>
EN3	Direct energy consumption by primary energy source.	DATA TABLE
EN4	Indirect energy consumption by primary source.	DATA TABLE

PROFILE DISCLOSURE	DESCRIPTION	CROSS REFERENCE
EN6	Initiatives to provide energy-efficient or renewable energy based products and services, and reductions in energy requirements as a result of these initiatives.	Environment, product responsibility
EN7	Initiatives to reduce indirect energy consumption and reductions achieved.	ENVIRONMENT, DATA TABLE
EN8	Total water withdrawal by source.	DATA TABLE
EN9	Water sources significantly affected by withdrawal of water.	ENVIRONMENT
EN10	Percentage and total water volume of water recycled and reused.	DATA TABLE
EN16	Total direct and indirect greenhouse gas emissions by weight.	DATA TABLE
EN17	Other relevant indirect greenhouse gas emissions by weight.	DATA TABLE
EN18	Initiatives to reduce greenhouse gas emissions and reductions achieved.	ENVIRONMENT
EN20	NOx, SOx, and other significant air emissions by type and weight.	DATA TABLE
EN22	Total weight of waste by type and disposal method.	DATA TABLE
EN23	Total number and volume of significant spills.	DATA TABLE
EN26	Initiatives to mitigate environmental impacts of products and services, and extent of impact mitigation.	ENVIRONMENT
Labor Practices	·	
LA1	Total workforce by employment type, employment contract and region.	DATA TABLE
LA3	Benefits provided to full-time employees that are not provided to temporary or part-time employees, by major operations.	WORKPLACE, website under Careers/Benefits
LA4	Percentage of employees covered by collective bargaining agreements.	DATA TABLE
LA7	Rates of injury, occupational diseases, lost days and absenteeism, and number of work-related fatalities by region.	DATA TABLE
LA8	Education, training, counseling, prevention, and risk-control programs in place to assist workforce members, their families, or community members regarding serious diseases.	DATA TABLE
LA10	Average hours of training per year per employee by employee category.	DATA TABLE

PROFILE DISCLOSURE	DESCRIPTION	CROSS REFERENCE	
LA12	Percentage of employees receiving regular performance and career development reviews.	data table	
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 that are trained.	DATA TABLE	
Social			
SO2	Percentage and total number of business units analyzed for risks related to corruption.	data table	
SO3	Percentage of employees trained in organization's anti-corruption policies and procedures.	data table	
SO5	Public policy positions and participation in public policy development and lobbying.	GOVERNANCE	
SO6	Total value of financial and in-kind contributions to political parties, politicians, and related institutions by country.	DATA TABLE	
Product Responsibility			
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.	PRODUCT RESPONSIBILITY	
PR5	Practices related to customer satisfaction, including results of surveys measuring customer satisfaction.	PRODUCT RESPONSIBILITY	
PR6	Programs for adherence to laws, standards and voluntary codes concerning marketing communications, including advertising, promotion and sponsorship.	PRODUCT RESPONSIBILITY	

#### Contact Us

If you would like more information on Applied Materials, please visit our website at www.appliedmaterials.com. If you have specific questions or comments on the content of this report, contact our corporate social responsibility team at: corporate\_responsibility@amat.com.

#### Legal Disclosure

This Report contains forward-looking statements, which are all statements other than those of historical fact, including those regarding Applied Materials' performance, strategies, products, operations, green initiatives, community activities, and growth opportunities. These statements are subject to known and unknown risks and uncertainties that could cause actual results to differ materially from those expressed or implied by such statements, including but not limited to: the level of demand for Applied's products, which is subject to many factors, including challenging global economic and industry conditions, end-use demand for electronic products and semiconductors, governmental renewable energy policies and incentives, and customers' utilization rates and capacity requirements; the technical, operational and financial feasibility of programs and initiatives; Applied's ability to timely (i) develop, deliver and support a broad range of products and expand its markets, (ii) align its cost structure with business conditions, (iii) plan and manage its resources and production capability, (iv) implement initiatives that enhance global operations and efficiencies, (v) obtain and protect IP rights in key technologies, (vi) execute its acquisition strategy and realize expected synergies, and (vii) attract, motivate and retain key employees; and other risks described in Applied's Securities and Exchange Commission filings. All forward-looking statements are based on management's estimates, projections and assumptions (as of October 31, 2010), and Applied undertakes no obligation to update any forward-looking statements.

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