2015 Sustainability Goals
4Q 2012 Update

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Dow concluded its fourth annual Sustainability Innovation Student Challenge Award (SISCA) program. Students from 17 universities were honored by Dow with prizes of up to $10,000 for innovative approaches to some of the world’s most pressing sustainability challenges.

In 2012, 89 students from around the world were honored, either as individuals or as part of a team. Their projects addressed sustainability issues such as drinking water and sanitation in African slums, wastewater treatment and biomass production, techniques to change waste heat into electricity and ways to increase energy efficiency in buildings. The honorees came from an unprecedented variety of academic disciplines, including business, engineering, nutrition science, media arts, policy and materials science.

“For four consecutive years, the SISCA program has provided an opportunity for the next generation of leaders to apply creativity and innovation to sustainability challenges,” said Neil Hawkins, Dow’s vice president of global EH&S and Sustainability. “By increasing the number of universities and regions participating, we have enabled more students with diverse perspectives and approaches to tackle some of the most complex challenges of our time.”

Each university selects one grand prize winner and one runner-up utilizing a peer-review selection process, with judges from both the university and Dow. Grand prize winners receive $10,000 and runners-up receive $2,500. Judging follows broad criteria set by the SISCA program, evaluating project potential for solving world challenges in the spirit of Dow’s 2015 Sustainability Goals, interdisciplinary collaboration, and demonstrated innovative thinking and excellence in research. The program will launch its fifth year in Q1 2013.

The 2012 SISCA winners were congratulated through video remarks available on Dow’s Youtube channel. For more information about the Sustainability Innovation Student Challenge and the 2012 honorees, please visit our website.

Participating Universities:
- California Institute of Technology (U.S.)
- Delft University of Technology (The Netherlands)
- Fudan University (China)
- King Abdullah University of Science and Technology (Saudi Arabia)
- Monterrey Institute of Technology and Higher Education (Mexico)
- Massachusetts Institute of Technology (U.S.)
- Northwestern University (U.S.)
- Peking University (China)
- Penn State University (U.S.)
- Shanghai Jiao Tong University (China)
- Tsinghua University (China)
- Tufts University (U.S.)
- University of California, Berkeley (U.S.)
- University of Cambridge (United Kingdom)
- University of Michigan (U.S.)
- University of Minnesota (U.S.)
- University of São Paulo (Brazil)
Innovations for Tomorrow

We contribute to the sustainability of society and our planet by developing innovative technologies for current and future markets.

Top 100 Global Innovator
Dow was named to the Thomson Reuters Top 100 Global Innovators list for the second consecutive year in recognition of the Company’s Research & Development and patent leadership. The list recognizes the most innovative companies in the world selected using a proprietary series of patent-focused metrics. Selection is based on four principal criteria: patent approval success rate, global reach of patent portfolio, patent influence in literature citations and overall patent volume. The peer-reviewed methodology utilized comparative financial analysis along with tools that assess information from 47 different patent authorities around the world. This distinction recognizes the unique role that Dow’s technology and science-based solutions play in addressing world challenges and everyday needs such as food, water, energy, health and housing. Read more.

America’s First Green Building Theme Park
Dow Building Solutions has teamed up with MainStreet America new home and home product theme park to help create the nation’s first comprehensive green building demonstration site. The Houston complex showcases state-of-the art building products and services with 12 homes that demonstrate best practices from several major green building programs. High performance insulation and air sealing products from Dow were used to create a tight building envelope and help optimize the energy efficiency and long-term performance of the 2,622 square foot Wakefield Home. The innovative home was graded according to Residential Energy Services Network standards. With a score of 70 or less required to qualify, the Wakefield achieved an impressive score of 39. Read more.

Enlist E3™ Soybeans Unveiled
Dow AgroSciences and M.S. Technologies have unveiled Enlist E3™ soybeans, the industry’s first-ever three-gene herbicide tolerant soybean. Enlist E3 soybeans will set the new standard for weed control and yield performance in soybeans. This three-gene stack event has been packaged in high-yielding elite germplasm from M.S. Technologies to enable growers to maximize per acre profits. These genes provide tolerance to Dow AgroSciences’ new 2,4-D product, glyphosate, and glufosinate. This advanced technology was submitted for U.S. regulatory approval in August 2011 and is anticipated to be launched in 2015 pending U.S. and import country approvals. Enlist E3 soybeans will be brought to market in high-yielding varieties, widely available in multiple brands for farmers who want improved weed control and yields. Read more.

Treated Water Mist Keeps Cows Cool
Dow Water & Process Solutions received a Responsible Care® Award for its model project with Al Ain Dairy in the United Arab Emirates, improving sustainable water use at the nation’s leading dairy and juice provider. By using DOW™ Ultrafiltration and DOW™ FILMTEC™ reverse osmosis elements at the farm, owners are able to reuse approximately 80,000 gallons of waste water on a daily basis, over half of which goes into automated fans that spray a cooled mist of treated water on the 2,500 resident cows and calves. The cool mist is essential to help the cows produce a high quality and quantity of milk in a cool and comfortable environment. Read more.

MainStreet America Theme Park in Houston.
Transatlantic Award 2012
The American Chamber of Commerce in Italy awarded the Transatlantic Award to Dow for its 2011 investments in the new Copolymer Uniform Particle Size Plant in Fombio and the Global Polyurethanes Research & Development Center in Correggio. This year’s award centered on sustainability, while recognizing innovation as a central driver of economic growth and development. With more than 50 years in Italy, Dow has invested in these important projects that contribute to national growth and competitiveness – while recognizing the value of progress and technology to address needs of its customers and society as a whole.

Products Enable Zero Energy Luxury Home
Dow recently teamed up with Marc Rutenberg Homes on the Castaway III, the first of the homebuilder’s Zero Energy America luxury homes in the Tampa, Florida, area. The home is 4,552 square feet, approximately 3,100 square feet larger than the average national zero energy home size, and has achieved the U.S. Green Building Council’s Leadership in Energy and Environmental Design Platinum certification recognition. The home combines the latest building science knowledge with Dow’s next-generation insulation and air sealing products to create a tight building envelope that helps optimize energy efficiency and long-term performance. The innovative home surpasses ENERGY STAR energy efficiency standards without sacrificing luxury and size. Read more.

ChemInnovations Early Adopter Award
Dow has been honored as the recipient of Chemical Engineering and ChemInnovations 2012 Early Adopter Award. The award is presented to a company that has successfully implemented technology that has not been widely adopted across the chemical processing industry, but achieves improvements in energy efficiency, safety, cost or environmental performance. This year’s award was given in recognition of Dow’s pioneering use of Fundamental Kinetic Modeling in the design of chemical processes. Dow used the new approach to simulate the detailed chemistry of five different chemical processes, used in nine different Dow manufacturing plants, and to design a successful commercial reactor. Dow has been able to both increase production from its assets and reduce its research and development expenses by predicting reaction outcomes without having to pursue costly and time-intensive pilot studies. A Dow engineer was also presented with a merit award for Personal Achievement during the ceremony.
Partners for Change

We are leaders in advancing all aspects of sustainability, openly collaborating with customers, suppliers, communities, civil society and governments.

Helping to Rebuild After Hurricane Sandy
In the wake of the largest Atlantic hurricane on record, Dow provided $150,000 in community grants supporting nine humanitarian organizations for relief and revitalization efforts in devastated communities in New York and along the New Jersey coastline. This donation is one component of Dow’s $500,000 multi-faceted Hurricane Sandy response plan announced in November. The organizations selected for support have mobilized volunteers, built partnerships and provided shelter, meals and essential supplies to meet immediate and long-term needs. Other components of Dow’s response include a financial pledge to the American Red Cross National Disaster Fund, an employee matching gift program totaling nearly $80,000, and support for humanitarian, technical and product donations for long-term rebuilding needs. Read more.

Veterans Gain Sustainable Building Skills
With many veterans struggling to find work in the U.S., Dow and the non-profit St. Bernard Project teamed up on a Dow Sustainability Corps effort to teach new skills to veterans. The project exists to help communities and citizens recover from disasters in a prompt and efficient way. On Veterans Day, Dow technical experts trained veterans on how to install energy efficient Dow Building Solutions’ FROTH-PAK Foam Insulation. Veterans who are part of the “Good Work Good Pay” program put their skills to the test at the home of Sande Grantz after Hurricane Katrina wreaked havoc on her home. Participants were provided with a unique opportunity to learn marketable skills while giving the St. Bernard Project a consistent, trained workforce to rebuild homes for people affected by Hurricanes Katrina and Isaac.

Inspiring Solutionism Down Under
A global business forum in Melbourne, Victoria, set the stage for the 2012 Igniting Solutionism Down Under program. The program brought together Dow business experts and university partners from Australia and other countries, including representation from Australia’s leading research and development institutes, Dow businesses and functions. The forum inspired discussion and identification of new opportunities with global relevance. Attendees were challenged to identify new business opportunities in three major areas: resources, energy, environment and climate; water, food and nutrition; and quality of life.

Improving Chemical Safety in China
Dow partnered with China’s State Administration of Work Safety beginning in 2006 to help Chinese companies improve performance in the safe handling of hazardous chemicals. The first phase of the program spanned three years, providing safety training and seminars to more than 50 enterprises and 4,000 hazardous chemical safety regulators and managers. The second phase focused on process safety, leak detection management and safety standardization. In late 2012, a conference was held in Hangzhou to review program achievements, share best practices and discuss draft rules and guidelines on process management and leak detection. The conference was attended by more than 100 representatives at the State level and 18 Provincial level administrators of work safety, research institutions and Chinese chemical companies. The participants also visited a local Chlor-Alkali company to learn how it benefited from the improvement initiative.

GLAD Hosts Events Supporting Diversity and Inclusion
In October, the Gays, Lesbians and Allies at Dow (GLAD) network hosted a high impact event in Midland to increase awareness of issues faced by colleagues who are lesbian, gay, bisexual or transgender and to create a more supportive, respectful workplace. Four-time Olympic gold medal diver Greg Louganis shared his perspectives about the value of diversity and inclusion in the workplace and his experiences as an American Olympian. More than 250 employees joined in person, with more than 400 others participating via webcast from other Dow locations. Watch opening remarks from Dow’s vice president of global EH&S and Sustainability on our Youtube channel.
Kuwait Blood Drive
Many Dow employees participated in Kuwait’s largest blood drive in 2012. Organized by Dow Kuwait, the drive was themed “I am a Donor, I am a Hero” and was a collaboration with the Kuwait Blood Bank, Ministry of Interior and the BMW Motorcycle Club. The blood drive kicked off with a procession that began in Kuwait City and ended at the blood bank location. Representatives of the ministry and traffic department assisted in the 150-vehicle motorcade that brought attention and interest to the successful community program.

Dow Colombia Receives Simón Bolívar Award
Dow Colombia recently received the prestigious Simón Bolívar Award for Business Merit in the category of Corporate Social Responsibility. Given by Simón Bolívar University in Colombia, the award recognizes collaborative efforts between Colombia and Dow’s Barranquilla and Cartagena sites that contribute to progress and growth in the region. The award acknowledges Dow’s long-term commitment to local communities, the environment, employees and suppliers.

Habitat for Humanity Builds in Poland
Eleven employees from Dow’s Warsaw offices volunteered to support the finishing work of a four-story house in Bielany, a northwestern district of Warsaw. The Dow sponsored Habitat for Humanity project will provide sustainable housing for people with mental and physical disabilities. The building is approximately 2,000 square meters and consists of 23 residential housing units, as well as non-residential space in the basement and the ground floor, for a canteen, laundry, kitchen, rehabilitation and staff facilities. In addition to benefiting residents, the building will provide a place for rehabilitation services for at least 200 people with disabilities from the local community. Read more.

Latin America Conservation Council Generating Sustainable Solutions
Dow recently participated in a two-day meeting of the Latin America Conservation Council in Foz do Iguacu, Brazil. The event was coordinated by The Nature Conservancy and focused discussions on generating innovative, entrepreneurial solutions to challenges facing Latin America’s natural environment. Since 2011, the Council has focused on the areas of food security, water security and smart infrastructure development. Solutions from Dow will contribute significantly in areas such as food security and water use. Related activities, such as the Brazilian sustainable livestock initiative and land use initiatives, will promote biodiversity and resource sustainability in the context of agricultural production.

New Conservation Program is for the Birds
Dow is pleased to announce a newly expanded collaboration with the Royal Society for the Protection of Birds at the Saltholme Nature Reserve in Hartlepool, England, in support of the Society’s critical conservation and important educational work. Saltholme is one of the most significant wildlife and plant reserves in the U.K. and has a unique position at the heart of the Teesside industrial complex where Dow operates. The program will focus on improving the local environment and support educational programs with local schools and community groups. Dow employees will volunteer time, providing unique expertise and perspective for programs and taking part in specific conservation projects.

Educating on Olympic Games in Russia
Much more than a sporting event, the Olympic Games serve as a platform to promote equality, inclusion, sportsmanship and a healthier way of life through sport. Dow, a Worldwide Olympic Partner and the Official Chemistry Company of the Olympic Movement, joined the Sochi 2014 Olympic and Paralympic Education project. The project is focused on supporting education and awareness for students of secondary schools throughout the country. Ten Dow Russia employees visited six schools in the Krasnodar and Moscow region to share information on the history of the Olympic and Paralympic Games, achievements of great Olympic athletes, and lessons about the Russian participation in the Games, including updates on the preparation for the Sochi 2014 Olympic Winter Games. Read more.

Dow to Provide Trail Clean-Up in Korean National Park
Dow Korea has agreed to provide environmental cleanup work, weed control and other volunteer activities along the 2.3 km trail of Bukhansan National Park in Gyeonggi-do and Seoul, South Korea for one year. The trail is visited by about 3 million climbers annually. Dow Korea will also provide volunteers for Bukhansan’s National Park Volunteer Center, helping the park’s volunteer coordination and operational programs.
Canada Regulatory Approval for Enlist™ Corn and Soybeans
Dow AgroSciences has received the first-ever cultivation approval from Canadian regulatory authorities for its Enlist corn and Enlist soybeans. The advanced seeds possess traits that provide tolerance to 2,4-D herbicide, giving Canadian farmers new options and advanced technology for dealing with hard-to-control and resistant weeds. Farmers worldwide have an urgent need to address weed control challenges. The science behind Enlist is novel, very robust and provides the foundation for new agricultural innovation to increase productivity. Enlist is a next generation system that combines innovative traits, herbicides, and stewardship to deliver weed control that farmers need now while sustaining beneficial farming practices. Read more.

Photovoltaics Films Application Lab Opens in Shanghai
Dow recently opened a Photovoltaics Films Application Laboratory in Shanghai to help customers in the Asia-Pacific region improve how they harness the power of the sun with ENLIGHT™ Polyolefin Films technologies and solutions. Dow has commercialized polyolefin-based encapsulant films and launched the back encapsulant composite films that are enabling photovoltaic panel manufacturers to make efficient, long-lasting and innovative products for the global market. Earlier this year, Dow opened a manufacturing facility in Map Ta Phut, Thailand, to make these innovative ENLIGHT™ products. Dow is focused on delivering sustainable solutions to help address many of the world’s most crucial challenges – including the need for clean energy – and continues to invest in products and manufacturing capabilities to help manufacturers improve efficiency and lower their total system costs. For more information about Dow’s presence in this growing market, please visit the Dow Solar and Photovoltaics website. Read more.

Rain Screen Solutions Receives Innovation Award
The DOW™ KNIGHT CI-System has been selected as a winner of the second annual Architectural Products Product Innovation Award. The award recognizes product, material and system innovations that lead commercial and institutional design to new heights. The award recognizes Dow’s ongoing commitment and success in innovative product development to offer contractors and architects the solutions they need to maximize air, moisture and energy management within the building envelope. DOW™ KNIGHT CI-SYSTEM provides a complete rain screen solution that offers maximum energy efficiency and excellent moisture management while simplifying the wall assembly and meeting or exceeding today’s energy standards. Read more.
CFT Introduces TEQUATIC™ PLUS Fine Particle Filter
Dow Water & Process Solutions has added an exciting new product to its line-up: the TEQUATIC™ PLUS fine particle filter. The filter is engineered to handle a wide range of difficult-to-treat water having very high and variable levels of total suspended solids – in other words, dirty and troublesome water. The filter is produced by Clean Filtration Technologies, which became a wholly owned subsidiary of The Dow Chemical Company in April 2012. The TEQUATIC™ PLUS filter is a breakthrough in the difficult-to-treat water space that can help customers solve problems, save money and simplify their operations, increase uptime, and enhance the sustainability of their operations.

Insulation Earns Top Honors in Ontario
The Ontario Building Envelope Council named STYROFOAM™ Brand Extruded Polystyrene Foam Insulation the recipient of its 2012 Distinction for Materials Award. Dow Building Solutions was selected for this award in recognition of its superior product and ongoing commitment to providing the building industry with innovative solutions that enable more energy-efficient and sustainable structures. The panel of judges evaluated numerous competitive product entries against criteria that included ease of use, cost-efficiency, improved performance and durability. Dow’s insulation product portfolio helps architects, contractors and builders maximize insulation performance while reducing greenhouse gas emissions. Read more.

Advancing Corn Seed Performance in the Americas
Fueled by robust investments in global plant breeding programs, Dow AgroSciences has captured a greater share of the North and South American corn seed market. Substantial investments in corn research and development are delivering strong germplasm and trait innovations that corn growers demand with powerful performance and yield-enhancing technology. Hybrids with SmartStax® trait technology outperformed competitor hybrids by nearly four bushels per acre in U.S. trials, which translates to a significant boost in potential income and productivity. Water utilization also is top of mind with many growers, particularly after the record-setting drought in the central United States last summer. Corn hybrids from Dow AgroSciences either matched or exceeded yields of competitive drought-tolerant products in 2012 U.S. trials. Read more.

Developing Sustainable Olympic Infrastructure in Russia
As the “Official Chemistry Company” of the Olympic Games, Dow provides solutions that improve the Olympic experience for host countries and cities, athletes and fans everywhere. A number of projects are already underway to help develop a reliable and modern infrastructure in the city of Sochi, Russia, and the greater Krasnodar region in preparation for the Sochi 2014 Olympic Winter Games. Insulation materials, including polyurethane systems produced at the Dow Izolan manufacturing facility in Vladimir, have been used to replace old pipes and build pipelines for a central heating system for sport and Olympic venues in Sochi, as well as a series of infrastructure projects throughout the region. Read more.
Responsible Operations

Our infrastructure has a positive impact on our Company, our communities and ourselves. Our operations are a model for others, wherever we operate.

Renewable Energy to Power Three Midland Manufacturing Plants
Dow Automotive Systems is advancing their commitment to sustainability by securing renewable energy, under agreement with Midland Cogeneration Venture, to power three primary manufacturing plants located in Midland, Michigan. Beginning in 2013, Dow will source up to 1.5 megawatts of clean power, which coupled with the energy improvements will reduce carbon dioxide emissions from the manufacturing units by nearly 8,000 metric tons per year, or the equivalent annual greenhouse gas emissions from approximately 1,600 passenger vehicles. Read more.

2012 Responsible Care Awards
Responsible Care® is a voluntary initiative of the global chemical industry to safely handle our products from inception in the research laboratory, through manufacturing and distribution, to ultimate reuse, recycle and disposal – and to involve the public in our decision-making processes. Dow's performance on that commitment is evident in the 2012 Responsible Care® Awards that recognize Dow projects, and that are consistent with Dow's 2015 Sustainability Goals. Nearly 190 projects were nominated for consideration, resulting in 11 global winners, including:

- Toxicology and Environmental Research Center – Predictive Toxicology Center
- Polymer Cake Recycling at Min Hsiung
- Dow-Soma Apartment for The Elderly Victims
- Global Product Strategy and Product Stewardship Workshops
- Europe, Middle East and Africa Contractor Safety Improvement Project
- Rehoboth Children's Village – Thokomala Orphan Care Organisation
- Aratu Solid Waste Reuse
- Rio Sustainable City
- Platform Development for Low Odor Paint Technology
- Polymeric Flame Retardant
- Rohm & Haas 4-year Integration Plan

Perfect LGBT Equality Score from Human Rights Campaign
Dow has again received a 100-percent rating from the Human Rights Campaign Foundation for policies and practices that support the fair treatment of lesbian, gay, bisexual and transgender (LGBT) employees. Dow's perfect score in the 2013 Corporate Equality Index marks nine consecutive years of recognition for best-in-class practices of inclusion in the workplace. Dow has participated in the index since its inception in 2002, and in 2005 was the first in the chemical industry to receive a 100-percent rating. For more information, go to the Human Rights Campaign website.

United Way 2012 Campaign Success
From the annual “Dow employee campaign” for the United Way of Midland County, the Dow Employee Contribution Drive in Freeport, Texas, or the campaign that begins with a United Way Jambalaya Cook Off in Louisiana, Dow employees support the United Way. Once again, Dow employees have embraced the true meaning of LIVE UNITED by donating more than $4,800,000 to United Way organizations across North America. Employee donations in 2012 achieved a 0.5% increase from 2011. The average gift also increased by 4.4%. Dow celebrates the commitments of Dow people who stepped up to create and manage the successful campaign and provide local support to serve local needs across the U.S. Read more.

Exame Magazine’s Sustainability Role Models in Brazil
Dow was recognized again as one of the top 21 companies with the best sustainable practices selected by Guia Exame de Sustentabilidade 2012 (Sustainability Guide). The awards event took place in São Paulo. Dow was recognized for promoting sustainability principles and developing innovative solutions for reducing carbon emissions, generating alternative sources of energy, water purification, and efficient agricultural and construction practices. Dow initiatives that were highlighted included the Biomass Project, a pioneering initiative developed to supply steam for Dow’s manufacturing plant in Aratu. This new process eliminates 169 thousand tons of carbon dioxide from being released into the atmosphere annually, representing a 33% reduction from 2011 levels. Dow's Sustainable Livestock initiative was also featured for bringing new levels of production while reducing resource intensity and environmental impact.
**Strong Scores for Employee Health Management**
In 2012, Dow assessed how it compares to peer organizations in the use of best practices in employee health management. A Best Practice Scorecard, developed by the Health Enhancement Research Organization, was used to evaluate six foundational elements of employee health management: strategic planning, leadership engagement, program-level management, programs, engagement methods and measurement, and evaluation. Dow scored in the 90th percentile of the 814 participating employers and 35 percent above the average score of employers with 5,000 or more employees.

**A Corporate Angel for Cancer Patients**
The Corporate Angel Network has recognized Dow with its “Angel of the Year” award for the Company’s outstanding service to cancer patients. Dow has provided more than 6,000 flights that have helped patients with catastrophic illness and costly medical bills reach the specific treatment center needed for their particular type of cancer. Dow employees and retirees also utilize the program. Dow was chosen for merging business activity with corporate citizenship, resulting in decidedly better prognosis for the thousands of patients who are now able to receive the best possible medical treatment. Read more.

**Business Services Center Building Wins 2012 ABBY Award**
Dow’s new Business Services Center Building was selected as a Merit Award recipient in the 2012 Buildings America’s Best Buildings of the Year (ABBY) Awards Program. The award program celebrates the latest advancements in building efficiency and design. The three-building, 205,000 square-foot Business Services campus is located in Midland, Michigan, and is part of Dow’s corporate headquarters. It is designed to consume 20 percent less energy than required by current building codes. Dow achieved a sustainable facility through multiple innovations, many of which feature Dow products and technologies. The facility successfully integrates sustainability with aesthetics and is on target to achieve Leadership in Energy and Environmental Design Silver certification.

**More Sustainable Packaging for Seeds**
Dow AgroSciences Seeds and Biotechnology will be the first Brazilian agriculture company to use large-scale kraft paper in its premium seed packaging. The innovative approach reduces water consumption and the organic load sent to wastewater treatment plants. The company decided to replace all of the corn seeds packages in order to reduce the impact of their activities. Anticipated improvements include a 30% reduction in the consumption of water and the total elimination of chlorine in the bleaching process. The new approach reduces solid waste since the Kraft paper is 100% recyclable and decays quickly after disposal.

**Sharing Progress and Best Practices to Improve EH&S Performance in China**
Dow recently hosted the 62nd Shanghai Multinational Companies EH&S Association meeting on September 27th at the Shanghai Dow Center. Three Dow leaders and one government official were invited to make the presentations on Dow’s Sustainability journey, EH&S management system, 2015 Sustainability Goals, best practices and Company efforts to promote workplace safety and health. Attendees toured the Customer Innovation Center, medical center and fitness center. A total of 65 EH&S professionals from 54 member companies and 4 local government officials attended the meeting.
Baase Receives 2012 Global Leadership in Corporate Health Award

Dr. Catherine Baase was recently selected as the recipient of the 2012 Global Leadership in Corporate Health Award. The annual award was created by the American College of Occupational and Environmental Medicine and the National Business Group on Health to honor the achievements of individuals who demonstrate excellence and leadership in implementing programs that improve the health and productivity of the workforce. Dr. Baase was recognized for her longstanding contributions to the field of health and productivity on a global basis. She has driven a global program at Dow that includes detailed metrics and continuous health improvement, and is regarded as one of the nation's top experts, paving the way and providing a model for others to follow.

Read more.

Wildlife Habitat Council Recertifies Pittsburg Wetlands

The Dow Wetlands Preserve in Pittsburg, California recently received the Wildlife Habitat Council Corporate Lands for Learning Recertification. Dow was also nominated for consideration for the organizations’ William W. Howard Conservation Education and Outreach Award. Recipients demonstrate outstanding leadership attributes and an innovative strategic vision to building conservation programs within economically viable, sustainable communities. Krist Jensen received the Community Partner of the Year Award. He was recognized for his 22-year contribution in organizing more than 100 volunteers and coordinating partnerships with universities and community service organizations, spearheading nearly every major project at The Dow Wetlands Preserve since 1989.

Solar System Installed at Thailand Manufacturing Site

Dow continues to take steps to harness the power of the sun by installing an advanced solar panel system to improve the energy efficiency of its manufacturing operations in Map Ta Phut, Thailand. A 100 kilowatt installation is expected to generate enough electricity during the next 25 years to offset about 4 million pounds of carbon dioxide (greenhouse gas) emissions, or the equivalent to burning about 5000 barrels of oil. Dow produces ENLIGHT™ Polyolefin Encapsulant Films used in crystalline silicon and thin-film solar module manufacturing at the site.

Read more.
Goal Updates

Sustainable Chemistry

The percentage of sales from Dow products that are Highly Advantaged by sustainable chemistry increased from 4.3% in 2010 to 4.8% in 2011. Most of the 2010 Highly Advantaged sales remained Highly Advantaged for 2011, and as a group their sales grew by an impressive 27% from 2010 to 2011. Highly Advantaged sales new for 2011 were achieved due to improved manufacturing efficiency and growth in sales with sustainable chemistry advantages. A series of business review meetings was conducted with businesses having sales that are close to becoming highly advantaged. This engagement with business leadership continues to help further integrate sustainability into business discussions.

The Sustainable Chemistry Index (SCI) increased to 21.8 for 2011. The aggregate scores of sales with environmental and social benefits continued to increase from 2010 performance, and the manufacturing efficiency score recovered some of the ground lost in the previous year. The SCI continues to be an important point of discussion during business strategy reviews, as business interest and engagement around the SCI has reached unprecedented levels.

2015 Goal

- Increase the percentage of sales to 10% for products that are Highly Advantaged by sustainable chemistry
Addressing Climate Change, Energy Efficiency and Conservation

In the first quarter of 2012, Dow added an absolute Greenhouse Gas (GHG) commitment to Dow’s Climate Change goal – Dow will maintain GHG emissions below 2006 levels on an absolute basis for all GHGs. Dow will find ways to grow, but not grow GHG emissions. Related to this additional metric to manage our Dow’s footprint, Dow is investing in the development of a Net Impact Tracking Tool. This technique will sharpen Dow’s focus on the full life-cycle benefits of Dow products.

A sustainable energy future requires constant manufacturing efficiency improvement inside the Company, while maximizing the contributions of Dow products to improve efficiency and expand affordable alternatives. Energy is an enabler of global economic growth, and energy efficiency remains critical to meeting the world’s energy demands. Dow’s innovation engine is driving energy solutions that meet society’s needs and provide a competitive advantage to Dow and Dow’s customers.

Dow’s manufacturing energy intensity, measured in BTUs per pound of product, has improved more than 40% since 1990, saving the Company over $25 billion and about 5,500 trillion BTUs. This is roughly equivalent to the annual energy consumption of 48 million single-family homes. Dow estimates that 2015 Energy Intensity Goal efforts will yield a cumulative savings of more than $1 billion and 190 trillion BTUs. This is equivalent to the annual energy consumption of over 1.7 million single-family homes. Dow’s portfolio transformation, coupled with global economic conditions, has impacted the scale and speed of anticipated energy intensity reductions. Dow expects additional energy efficiency progress from in-flight projects that will see results after 2015.

Between 1990 and 2005, the Energy Intensity (BTU/lb) of global operations was improved by 38%. By 2015, Dow has a goal to achieve an additional 25% improvement. The average Energy Intensity of year 2005, adjusted for mergers and acquisitions, is the basis for calculating performance against this target. Dow’s goal for Energy Intensity for the full year of 2012 is 3,436 BTU/lb, or 82.5% of the value in 2005. Dow’s actual performance through Q4 2012 was 4,058 BTU/lb, which is 97.4% of the 2005 baseline.
Greenhouse Gas Reduction

Dow has reported to the Carbon Disclosure Project (CDP) since 2006. The CDP is a not-for-profit organization working to understand the risks and to drive greenhouse gas emissions reduction from business. In 2012, Dow reported on its 2011 Greenhouse Gas (GHG) performance and commitment to being a solution provider to the Climate Change challenge. The report scored 91 out of a possible 100 points. This excellent result highlighted Dow’s commitment to strong Governance and complete disclosure through transparent Emission Reporting.

Dow’s energy efficiency and chemicals management efforts have significantly reduced the Company’s GHG emissions footprint. As a result, Dow has prevented over 270 million metric tons of GHG emissions from entering the atmosphere since 1990. This is equivalent to the annual emissions of more than 16 million single-family homes. Dow’s goal is to maintain GHG emissions below 2006 levels on an absolute basis for all GHGs, thereby growing Dow not the carbon. Dow will continue to focus on managing Dow’s footprint and delivering solutions to help customers manage theirs. For example, Dow’s insulation products contribute to greater energy efficiency, helping avoid millions of metric tons of GHG emissions per year.

Product Safety Leadership

At the end of 2012, 470 Product Safety Assessments (PSAs) had been posted to Dow’s product safety website.

Dow’s published Product Safety Assessments now cover products accounting for over 86% of Dow’s annual revenue. Additionally 100% of Dow’s 224 High Priority chemicals are now covered by a PSA. We are on-track to meet our 2015 Goal to have a Product Safety Assessment publically available for applicable Dow products.

PSAs are written for the lay public and cover topics such as basic hazards, exposure potential and risk management measures. They complement other product safety, handling and stewardship documents, which are part of the product responsibility “package” Dow offers to strengthen relationships with communities and customers. This holistic approach enables Dow customers and the communities in which Dow does business to stay informed about the Company’s products and the plants that produce them. Dow is dedicated to providing the public with accurate information and building trust as it uses technology to develop better products.

2015 Goal

- Publish Product Safety Assessments for all products

Cumulative Product Safety Assessments

Sales Covered by Assessments
Dow continued to make strong progress on the 2015 Goal of Contributing to Community Success. Freeport, Texas, was re-measured in Fall 2012 and results exceeded expectations. The site’s general favorability scores increased 5%, from an already high 80% to 85% favorability. This measure is taken from respondents who are at least familiar with Dow.

The site also made important gains in the community’s perception of whether Dow plays an important role in impacting “quality of life.” Freeport saw a 10% increase in community favorability for that measure. This second measurement is derived from those that have a generally good impression of Dow and have firsthand knowledge, or at least awareness, that Dow has positively impacted their community in some way. Globally, all Dow sites to date that have been re-measured have improved on this indicator. The chart below indicates their progress.

These Community Success measures continue to serve as important data points as Dow sites determine the best way to engage with the community for success.

Survey results are being tabulated in first quarter 2013 for Dow’s St. Charles Operations, Louisiana and early indications are that the site will join its counterparts globally in posting strong progress toward its community success goals. Plans also are underway to re-measure Zhangjiagang, China as well as Aratu, Brazil.

Another important activity for 2013 is the development of a Community Success Process Guide. This Guide outlines the steps necessary for any Dow site to implement a robust Community Success Process, regardless of the site’s location, size or breadth.
Local Protection of Human Health and the Environment

Dow leads the way across virtually every facet of environment, security, health and safety performance. Dow was one of the first companies to introduce innovative protection equipment for workers in 1897 – and today Dow engages our neighbors through Community Advisory Panels and more. Dow's vision of zero is a leadership attitude and a corporate culture that is committed to zero accidents, zero injuries and zero excuses.

Dow announced 2015 goals to achieve on average a 75% improvement of key indicators for Environmental Health & Safety (EH&S) operating excellence from a 2005 baseline. These indicators include personal injury and illness of Dow employees and contractors, loss of primary containment incidents, process safety, severe motor vehicle accidents, emissions and transportation related incidents.

During the first 10-year goal period, the Company reduced the rate of injury and illnesses per 200,000 hours of work time by more than 80%. During the 2005 to 2015 timeframe, the goal is to achieve a similar reduction in the rate. Excellent progress is being made: Dow workers are now 15 times less likely to experience an injury or illness than the U.S. manufacturing rate reported for 2010.

At the end of 2012, the Injury and Illness rate was 0.20 per 200,000 hours of work. This is a 33% improvement compared to 2011. The 2015 Goal of 0.12 per 200,000 hours is a 75% improvement from 2005.
At the end of 2012, the Injury and Illness Severity rate was 0.71 per 200,000 hours of work. This is 36% better than our performance in 2011 and is below our target for 2015. The 2015 Goal of 0.67 per 200,000 hours is a 70% improvement from 2005.

At the end of 2012, the company had experienced 225 Loss of Primary Containment incidents, under the target for the year and on track towards the 2015 Goal of 130 or fewer incidents. The 2015 Goal is a 90% reduction from 2005.

At the end of 2012, the company had experienced 16 Process Safety Incidents (PSIs), similar to Dow’s excellent performance in 2011 and well below the 2015 goal. The goal in 2015 is to be experiencing less than 25 PSIs. PSIs are classified in terms of the new Center for Chemical Processing Safety and American Chemistry Council PSI definitions.
At the end of 2012, the Severe Motor Vehicle Accident (MVA) incident rate was 0.22 accidents per million miles driven. This has increased compared to last year, but remains better than our target for 2015. Severe MVA was not measured in the heritage Rohm and Haas Company. The 2007-2009 values represent the heritage Dow population.

At the end of 2012, Dow had experienced 25 Hazmat Transportation Loss of Primary Containment (LOPC) events, above our 2012 goal. Dow’s 2015 Goal to reduce all Hazmat transportation incidents to 14 or less is a 75% improvement from 2005.

By reducing the number of tonne-miles of Highly Hazardous materials, Dow reduces the chance of in-transit incidents that could impact communities and areas through which Dow’s products travel. Supply chain redesign is a long-term effort and changes in sourcing points sometimes take multiple years to implement. In 2012, 746 million tonne-miles were shipped via road and rail. The goal for 2015 is to reduce these shipments to less than 705 million tonne-miles, which would be a 50% reduction from the baseline in 2005.
Science for a Sustainable World

We only have one planet, with limited resources. So everything we do and how we do it matters. Dow is committed to minimizing our own footprint and to delivering solutions that help our customers and the rest of society do the same. The world needs solutions for big challenges like energy, climate change, water, food, housing and health. And Dow has some of the world’s best scientists and engineers dedicated to solving world challenges through innovation. When we do that, it’s not just good for the planet, it’s good for business.