A Successful Decade-Long Vision, the Beginning of a New Journey #Dow2025

Innovations for Tomorrow
Partners for Change
Smart Solutions for Today
Responsible Operations
Goal Updates
2015 Sustainability Goals
4Q 2015 Update – Contents

A Successful Decade-Long Vision, the Beginning of a New Journey #Dow2025

Innovations for Tomorrow
- Middle East R&D Center to be Built at KAUST
- AgroLAC2025 for Sustainable Agriculture in Latin America
- Sustainability Innovation Student Challenge Award
- Changing Perceptions of India's Chemical Industry
- Collaborating on Energy Efficiency in Brazil

Partners for Change
- How Sports Can Address Climate Change
- Third Consecutive National Corporate Citizenship Award in China
- Supporting European Refugee Relief with Habitat for Humanity
- Climate Train Hits the Rails in France
- Rio 2016: Education and Engagement
- Jaipur Foot Camp Transforms 150+ Lives
- New Zealand Prime Minister Dedicates "Dow Gardens" Habitat Build
- Giving Tree Gives Hope to China’s Children
- Dare to Discover STEM in Mexico
- Building Better Lives for Families in Brazil
- Launching Process Safety Education Initiative

Smart Solutions for Today
- New INNATE™ Precision Packaging Resins
- New Water & Energy Sustainable Technology Center
- Tiny House Features Energy Efficient Solutions
- Society of German Chemists Honors Dow for New Adhesives
- Ultrafiltration Technology Honored by R&D Magazine
- Powerplay Revitalizing Ice at Yost Arena
- PacXpert™ Packaging Technology License Agreement
- Bloomberg Businessweek Reports on Dow Water Technology
- Kirkpatrick Chemical Engineering Achievement Award
- New Recyclable Dishwasher Pods Packaging

Responsible Operations
- CDP Recognizes Dow Climate Change Transparency
- Chauny Site Works with Water Agency to Protect River
- Recognized Among Best Places to Work for LGBT Employees
- Dow Korea Honored for Advancing Gender Equality in R&D
- Thailand Sites Receive Eco-Factory Certificates
- Demolition Team Neutralizes Danger with Zero Record
- Hydrocarbons Command Center Earns Award
- Workplace Culture Supports Good Health Globally
- Sophia Antipolis Site Earns Responsible Care® Award
- Certification as a Top Employer in China

Goal Updates
- Sustainable Chemistry
- Addressing Climate Change, Energy Efficiency and Conservation
- Greenhouse Gas Reduction
- Energy Intensity
- Product Safety Leadership
- Breakthroughs to World Challenges
- Contributing to Community Success
- Local Protection of Human Health and the Environment

dow.com/sustainability
Our approach to sustainability is to set clear and ambitious goals, measure rigorously and report regularly. In 1995, we established our first set of 10-year goals to improve the Company’s environmental, health and safety (EH&S) performance. We were recognized for several achievements stemming from those goals, including the number of lives saved and injuries prevented, as well as the amount of waste eliminated.

In 2006, we decided to go beyond the company’s fence lines to include the value of sustainable solutions provided to customers that allow us to have a larger positive impact on the world. These 2015 Sustainability Goals expanded beyond EH&S to include strengthening community relationships, improving product stewardship, innovating to solve global challenges and reducing the Company's global footprint.

As we reach the end of a successful decade-long vision, we are working on compiling and analyzing the data to report the final results. A final summary on Dow’s 2015 Sustainability Goals will be released during the second half of 2016, once all internal reporting is finalized. But in the meantime, let’s take a look at how the 2015 Sustainability Goals drove the way we approached business and sustainability. There were seven ambitious and measurable goals:

- **Sustainable Chemistry.** By 2015, we will increase the percentage of sales to 10 percent for products that are highly advantaged by sustainable chemistry.
- **Breakthroughs to World Challenges.** We are actively working toward, and committed to achieving, at least three breakthroughs by 2015 that will significantly help solve world challenges in the areas of food, water, health, energy and climate change.
- **Addressing Climate Change.** We are working to maintain all greenhouse gas emissions below 2006 levels.
- **Energy Efficiency and Conservation.** We aim to reduce our energy intensity 25 percent by 2015, using our 2006 levels as a baseline.
- **Product Safety Leadership.** We will publish product safety assessments for all products by 2015.
- **Contributing to Community Success.** By 2015, we will achieve individual community acceptance ratings at all Dow sites where the company has a major presence.
- **Local Protection of Human Health and the Environment.** By 2015, we will achieve on average 75 percent improvement of key indicators for EH&S operating excellence from our 2005 baseline.

These goals represent our journey for the past 10 years. During that time, we overcame many challenges and learned better ways to do things that helped us become what we are today: a leader in sustainability with established best practices, a continuous improvement process and a clear vision of our path forward. Our third generation sustainability goals, Dow’s 2025 Sustainability Goals, are our next adventure.

**Sustainability as a Value Driver**

Integrating the 2015 Sustainability Goals into our market-driven strategy and Corporate processes contributed significantly to the Company’s top- and bottom-line growth, as well as to society.

**Contributing to Top-line Growth**

Our commitment to sustainability means making every decision with the future in mind. We combine chemistry, biology and physics to create what is essential to human progress, and we collaborate at the intersection of business, government and society to provide solutions such as clean water, energy efficiency, and optimized agricultural production.

As part of our 2015 Sustainable Chemistry goal, we developed the Sustainable Chemistry Index (SCI). SCI is a metric used to assess the relative sustainability performance of our products based on their sustainability attributes. In 2013, we reached our 2015 Sustainable Chemistry target of 10 percent of sales from products highly advantaged by sustainable chemistry, marking a significant improvement from the baseline of 1.7 percent in 2007. And in 2014, we achieved 22.4 percent of our sales from highly advantaged products! This accomplishment reflects the shift in our product portfolio toward products that deliver value to society by addressing sustainability challenges such as energy efficiency, food production, and water scarcity.
The increase in SCI performance during the 2015 goal timeframe reflects enhanced sustainability awareness within the Dow culture. This awareness has enabled Dow employees to better understand how to integrate sustainability into their roles, from informing business strategies to developing and communicating solutions that capture sustainability opportunities.

Together, highly advantaged sales by Sustainable Chemistry and sales from Breakthroughs to World Challenges account for more than $13 billion of Dow’s revenue, and these sales continue to grow significantly faster than the chemical industry average.

**Contributing to Bottom-line Growth**
We continue to build value through a disciplined focus on operational excellence as part of our sustainability priorities. Collectively, these efforts have a positive impact on Dow’s bottom-line growth. Our focus on EH&S as represented on our vision “Drive to Zero” – zero accidents, zero injuries and zero excuses – is embraced by leadership and reflected by our people in what is today a safety culture. Built upon the success of the 2005 Sustainability Goals, the **Local Protection of Human Health & the Environment** goal has achieved on average a 75 percent improvement of key indicators for EH&S operating excellence since 2005.

**Contributing to Society**
Unlocking the potential of people and science delivers many benefits to society. Our Breakthroughs to World Challenges goal is about improving global society’s ability to solve the challenges of affordable and adequate food and water supply, housing, energy and climate change, and improved personal health and safety. We exceeded this goal by achieving four breakthroughs:

- **Omega-9 Oils** address an important societal need to improve the fat profile of popular foods and decrease instances of type 2 diabetes, cardiovascular and coronary disease.
- **FILMTEC™** ECO Membrane Modules filter out 40 percent more salt from water than current best-in-class water purification membranes, while consuming 30 percent less energy than industry standard reverse osmosis elements, resulting in an ecologic and economic win.
- **BETAMATE™ Structural Adhesives** are an enabling technology for dissimilar material assembly, representing a breakthrough solution addressing energy and climate change, as well as safety and health.
- **POLYOX™** Water-Soluble Polymers enable Lifebuoy™ Soap from Unilever to be longer lasting, more affordable, and easier to lather. Dow was recognized by Unilever for its role in helping to develop the accessible soap product, which encourages handwashing behaviors to promote better hygiene and health.

For more than 75 years, Dow has had a program to assure that our products are safe for their intended use. All products must be managed in a responsible way to minimize the potential for adverse effects on human life and the environment. Dow takes this responsibility very seriously. That is why hundreds of highly trained scientists and engineers work to assure that our products are developed, manufactured, stored, transported, used and recovered in a manner that shows high regard for human health, safety and the planet’s resources.

The purpose of the **Product Safety Leadership** goal established in 2006 was to further differentiate Dow as a product stewardship leader in our industry and increase public confidence in our products. Dow was the first chemical company to make non-technical language summaries of our product safety assessments (PSAs) accessible to the public. The assessments cover topics such as basic hazards, use, risk and risk management. As of today, 99 percent of Dow’s annual revenue and all of our High-Priority chemicals are covered by PSAs, which are accessible to the public at [www.dowproductsafety.com](http://www.dowproductsafety.com).

Strong community relations have been an essential element of Dow’s business practices since the founding of the Company in 1897. Understanding the needs of each community where we have a presence and recognizing our role and impact as a respected community partner is an ongoing and iterative process. Our **Contributing to Community Success** goal identified ways to raise the quality of life in the communities where Dow has a presence. We gathered input and feedback from these communities. Then we created local Community Success Plans to prioritize environmental, social and economic issues and drive the appropriate allocation of Dow resources – people, know-how, donations – to address those issues and support meaningful change. This work not only ensures that Dow is a good neighbor and partner, but also strategically positions our Company in areas where we seek to have a future presence.

**Evolution – Continuing the Integration of Sustainability into Corporate Strategy**
As Dow evolves as a Company, sustainability increasingly becomes a catalyst of our success. Both Dow’s 2005 EH&S goals and 2015 Sustainability Goals have produced significant financial and non-financial benefits. These benefits are ongoing, as they represent changes in how we operate our plants, encourage new behaviors and identify new business opportunities.

Our goals have resulted in significant, quantifiable improvements in personal safety, environmental performance and economic value creation – generating tens of billions of dollars in benefits for Dow’s top-line growth, bottom-line growth and global society since 2005. As we strive to continuously set the standard for sustainability, we are ready for the next stage in our journey to redefine the role of business in society.

dow.com/sustainability
Innovations for Tomorrow

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

Middle East R&D Center to be Built at KAUST

Dow recently signed an agreement with King Abdullah University of Science and Technology (KAUST) to expand its facilities at the KAUST Research and Technology Park with the construction of a new Dow Middle East Research and Development (R&D) Center. Construction of the 13,500-square-meter R&D facility, designed to meet LEED silver certification requirements, will be led by KAUST. Dow’s R&D facilities currently on the KAUST campus will relocate to the new building, which will have capacity for up to 75 Dow R&D employees. The facilities will include advanced laboratories for water treatment research and expanded capabilities in oil and gas, building and construction, and coatings – all driven by growth opportunities in the Middle East and other emerging geographies. Dow is a founding member of the KAUST Industrial Collaboration Program, which aims to commercialize research into practical applications. Read more.

AgroLAC2025 for Sustainable Agriculture in Latin America

Dow recently became a partner of AgroLAC 2025, which is a new platform for financial donations to sustainable agricultural practices, created by the Inter-American Development Bank. The objectives are to increase knowledge of national and international audiences about the issues, promote associations of farmers, integrate solutions into the public and private sectors, and facilitate access to financial resources. Through this partnership, Dow contributes to the development of technologies that help boost agricultural production, reduce post-harvest waste, and promote stakeholder engagement. The platform’s mission is to help Latin American agriculture reach its potential as a key solutions provider for global food security. AgroLAC 2025 is focused on expanding commitments to agricultural research to help farmers use new skills and technologies and to encourage investment in rural infrastructure to facilitate more profitable and sustainable agriculture. Watch a video about AgroLAC 2025, or visit the initiative’s website to learn more.

Sustainability Innovation Student Challenge Award

The Dow Sustainability Innovation Student Challenge Award (SISCA) program began the transition to alignment with the new Dow 2025 Sustainability Goals in 4Q15. It was a robust season for the SISCA award, with winners from the University of Queensland, University of Minnesota, University of California Berkeley and The California Institute of Technology. The 2015 Grand Prize Winner from Caltech is Katya Cherukumilli for her innovative submission on “Developing an Ultra Low-cost Bauxite-based technology for Fluoride Removal”. The individuals and teams selected as SISCA winners are exceptional scientists, engineers and leaders who value an interdisciplinary and collaborative approach to addressing the world’s challenges. The 2015 winners developed innovative solutions related to water purification, wastewater treatment, clean air, green textile dying, sustainable agriculture, circular economy and affordable housing – creating positive change and impacting sustainability.

“Chemistry Everywhere” – Addressing the Challenges of Modern India

Dow’s Sudhir Shenoy, chief executive officer, Dow India, recently addressed the inaugural session of the Chemistry Everywhere conference, which was attended by more than 200 representatives from a variety of public and private institutions and companies. The Confederation of Indian Industry and the Ministry of Chemicals and Fertilizers organized the conference, themed ‘Addressing the Challenges of Modern India.’ Shenoy spoke of the positive impact of chemistry in everyday life and urged industrial leaders to work together to create a progressive and sustainable environment that will enable the Indian chemical industry to play a key role in solving India’s challenges. He stressed the industry’s essential contributions to life and sustenance, and he advocated joining forces to address such challenges, thereby providing locally sourced solutions through a strong chemical industry in India.

Collaborating on Energy Efficiency in Brazil

With the support of the Green Building Council (GBC), Dow recently hosted the 2015 Building Better Forum in Brazil. The strategic event brought together more than 35 construction companies and 80 industry executives, including engineers, architects, construction companies and manufacturers, to discuss energy efficiency innovations. Attendees learned more about cool roofs and waterproof coatings, exterior insulation and finish systems (EIFS), thermal insulation panels, and raw materials for PVC windows that add value to the final products available in the market. In addition to the solutions introduced by Dow, partner companies, including Construtora Método, Instituto do PVC and GBC, presented an overview of the construction sector, sharing information about regulations, certifications, innovative solutions and sustainable building success stories.
Partners for Change

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

How Sports Can Address Climate Change

Dow showcased its unique position as an industry leader in low-carbon innovations for a more sustainable future – through sports – at COP 21 in Paris, France. Dow Olympic & Sports Solutions participated as the headline partner of the Sustainable Innovation in Sports forum. The forum convened sports bodies, government representatives, UN agencies and corporate partners to discuss the unique opportunity that the realm of sports offers the climate change effort all over the world. Dr. Neil Hawkins, Dow chief Sustainability officer and corporate vice president, opened the event with a speech about the unmatched power that sports and events like the Olympic Games have to engage people, businesses and governments. Dr. Nicoletta Piccolrovazzi, global technology and sustainability director for Dow Olympic & Sports Solutions, joined a panel discussion under the theme “The Crucial Role of Sustainability in Sporting Events to Combat Climate Change.”

Climate Train Hits the Rails in France

Dow recently launched the “Climate Train” to spur dialogue on new solutions to combat climate change. The train exhibits educational and scientific material in various galleries to explain the climate change challenge to the general public and discuss what we can do together to fight global warming. An innovative STEM initiative sponsored by the French Government, the Climate Train crossed 19 French cities during three weeks. In the French Chemical Industry coach, Dow unveiled two of its latest innovations: the FILMTEC™ ECO reverse osmosis filtration membrane, delivering 40 percent better water purification using 30 percent less energy and BETAMATE™ automotive structural adhesives, enabling lightweight vehicles to help the automotive sector avoid 23 billion tons of CO2 emissions since 1999. The 23,000 visitors and 3,500 schoolchildren who visited the train learned that the innovations of chemistry are essential in the transition toward a low-carbon economy.

Third Consecutive National Corporate Citizenship Award in China

In 2015, Dow China received its third consecutive China Outstanding Corporate Citizenship Award, a premier recognition from China’s central government for organizations who make outstanding and dedicated contributions as responsible corporate citizens. Highly aligned with Dow’s Global Citizenship strategy, Dow efforts in China seek to address regional societal and environmental challenges and focus primarily on science education and sustainability programs among youth. The award was issued by the China Committee of Corporate Citizenship, an NGO registered at the Chinese Ministry of Civil Affairs dedicated to promoting nationwide corporate social responsibility. Selection criteria include comprehensive disciplines: governance, employee welfare, human rights, environment protection, community relationship, products and finance. Only 46 international and local companies received the 2015 award.

Supporting European Refugee Relief with Habitat for Humanity

Dow recently announced a $250,000 donation to Habitat for Humanity International to support European refugee relief efforts. Refugees continue to arrive in Europe, fleeing from war and destruction. For the people concerned – those who have left their homelands to escape war and violence – the situation is becoming more and more desperate, especially in the colder weather season. Charitable contributions from Dow and employees provide support to provide for basic human needs: food, shelter and medical care, particularly in South East Europe. With Dow support, Habitat for Humanity will be able to continue their work in several countries along the ‘migration route,’ including Macedonia, Serbia and Hungary. Financial support includes a $200,000 donation to Habitat for Humanity International to support immediate shelter needs and relief efforts in 2016, with $50,000 earmarked for an employee matching grant program. Read more.

Rio 2016: Education and Engagement

The carbon footprint mitigation program of the Rio 2016 Olympic Games goes beyond the implementation of technologies and integrates an important engagement and awareness component – fully in line with Dow 2025 Sustainability Goals and also with the Rio 2016 legacy commitment. An important aspect of Dow’s partnership with the Rio 2016 Organizing Committee is related to the goal of engaging and educating 500,000 Brazilians, primarily young people, on scientific and sustainability concepts. To achieve this important objective, the Company is delivering on its commitment to share Science, Technology, Engineering, and Mathematics (STEM) education opportunities for teachers and students across Brazil.
Jaipur Foot Camp Transforms 150+ Lives
In what has become an annual event known to the residents of Airoli-Kalwa, the three-day ‘Jaipur Foot’ camp took place late last year. The ‘Jaipur Foot’ is a prosthetic foot for people who have lost a limb. In 2006, Dow India partnered with NGO BMVSS, Pinnacle Industries and Indian Space Research Organisation to develop an enhanced version of the Jaipur foot – the Polyurethane Jaipur Foot. The new foot allows users greater flexibility, enabling them to not only walk comfortably but also to squat, kneel, crouch and even sit cross-legged; it is recommended by leading Orthopedics in the country. Over 150 beneficiaries from across the country received prosthetic limbs and calipers with more than thirty Dow India employees volunteering to help.

New Zealand Prime Minister Dedicates “Dow Gardens” Habitat Build
Dow was recently recognized for its efforts to help Habitat for Humanity build new homes for seven families in Christchurch, New Zealand. New Zealand Prime Minister John Key, along with Tony Frencham, Dow managing director for Australia and New Zealand, officiated at a dedication ceremony for the build, unveiling the name of “Dow Gardens” for onlookers. Dow representatives took part in the event, along with Key, the homeowner families, Habitat officials and community dignitaries. More than four years ago, a devastating 6.3 magnitude earthquake hit Christchurch, the largest city on New Zealand’s South Island. The area’s inhabitants are still trying to rebuild their lives today, with many living in cold, damp and cramped rental units. Dow Gardens will include newly constructed homes, kit-built homes, and houses moved from the dangerous earthquake “red zone” to be restored on new foundations. Dow made a significant financial contribution to the effort in recognition of 50 Years of Dow in New Zealand, and a number of employee volunteers took part in the build.

Giving Tree Gives Hope to China’s Children
Recently, Dow volunteers from Shanghai, Huzhou and Ningbo visited Qingpu Huazhen Elementary School in Shanghai, presenting gift bags to the students from migrant families. This is the eighth consecutive year for Dow China to sponsor the Giving Tree charity program, which has distributed more than 100,000 bags to children in need in Shanghai and neighboring provinces. Initiated by Community Center Shanghai, the Giving Tree provides children with gift bags containing winter clothes and school supplies. Dow finances the cost of 10,000 gift bags each year, which are manufactured in a local workshop that employs people with special needs. Dow volunteers fill gifts bag for the school with items on each child’s wish list and present the bags to the children they support.

Dare to Discover STEM in Mexico
From September to November of 2015, 75 volunteers from Dow worked to promote Science, Technology, Engineering and Mathematics (STEM) education in Mexico City and Guadalajara; more than 300 children were engaged, educated and motivated through a five-week program called “Dare to Discover.” The unique program was developed by Dow employees, SolidariDow and Fondo Unido Mexico (United Way), in alliance with science content developer, Profesor Chilfado. The objective of this effort was to introduce elementary school students and their teachers to science through demystification of science concepts. Each week was divided into three classes focused on the basic steps of the scientific method (research, hypothesis and experiment). A science fair was hosted at the end, where children presented their projects and were awarded medals that qualified them as “Certified Scientists.” More than 9,600 volunteer hours were invested – a new record for a single community initiative in Mexico.

Building Better Lives for Families in Brazil
Residences of Vila Esperança in Candeias, Brazil, will be renovated to provide healthier, safer family environments with better sustainability profiles. The program, called “The Future Starts at Home,” is being conducted by Habitat for Humanity Brazil, to make improvements to the homes of 30 families. With support from Dow, the program will benefit families with school-age children in households led by women, or with a family member suffering from disease caused by environmental factors. The families selected to participate go through an evaluation process to identify necessary home improvements. Habitat will create a fund to purchase the material and labor. The project will reduce energy and water consumption by a minimum of 30 percent. Homes will receive simple structural repairs and improvements to electrical and water systems, as well as functional and aesthetic improvements. Plans include rainwater reuse systems and solar power generation capabilities.

Launching Process Safety Education Initiative
In support of Dow’s unwavering emphasis on chemical and process safety, the Company will help develop new curriculum for undergraduate chemical engineering students in the U.S., thanks to collaboration with the American Institute of Chemical Engineers (AIChE). In October, Dow and AIChE announced a program to better prepare chemical engineering graduates for the workforce. The global Undergraduate Process Safety Learning Initiative will concentrate on upgrading curriculum materials, increasing faculty competence in process safety, and conducting process safety “boot camps” for undergraduates at universities. The initiative will be run by AIChE’s Center for Chemical Process Safety (CCPS). The CCPS program will improve the safety training of undergraduate chemical engineering students worldwide and is a great example of Dow’s commitment to advancing the safety of the chemical enterprise and the expertise of chemical engineers.

dow.com/sustainability
Smart Solutions for Today
Our technologies enable our customers, and their customers, to develop more sustainable products and services.

New INNATE™ Precision Packaging Resins
Dow recently announced the launch of INNATE™ Precision Packaging Resins, a new family of resins that offers unprecedented performance levels to help customers address some of today’s most challenging packaging performance gaps. Created from a patented molecular catalyst coupled with advanced process technology, INNATE will empower customers to unlock new packaging opportunities through unmatched stiffness-toughness balance, processing ease and improved sustainability profiles. INNATE resins were developed as a result of many discussions with converters and brand owners and careful analysis of market trends. INNATE will help define new market spaces and create new categories for everything from flexible food packaging to heavy-duty industrial shipping sacks. INNATE resins offer excellent sustainability profiles due to light-weighting potential, new packaging efficiencies through material substitution and up to twice the durability of tested standard polyethylene resins in co-extruded films. Read more.

Tiny House Features Energy Efficient Solutions
The Department of Energy estimates that U.S. houses and buildings consume 41 percent of the nation’s energy. One way to make homes and buildings more energy efficient is by sealing the building envelope. Plastics Make It Possible® and Zack Giffin, co-host of FYI Network’s “Tiny House Nation,” teamed up to build an energy efficient tiny house incorporating DOW solutions to improve energy efficiency. The 170-square-foot home features FROTH-PAK™ Foam Insulation, STYROFOAM™ Brand Extruded Polystyrene Insulation and DOW POWERHOUSE™ Solar Shingles. The tiny house exhibit – “A Tiny House That’s Big on Energy Efficiency” – opened to the public at the California Science Center in Los Angeles in November. View a video about how Dow insulation solutions are helping to make homes, both big and small, more sustainable.

New Water & Energy Sustainable Technology Center
Dow recently celebrated the opening of The University of Arizona’s Water and Energy Sustainable Technology Center (WEST). Dow is a founding member and sponsor of the Center, which will focus on bringing together industry, government, and academia to address the nation’s growing water and energy needs through research and technology. The new, state-of-the-art $5.5 million facility will help enable researchers, public officials, and industry leaders to work together in developing new technologies and more energy sustainable solutions to address water scarcity. Co-located with the Pima County Water Reclamation Facility (Agua Nueva) and adjacent to reclaimed water recharge basins and constructed wetlands, the WEST Center will develop, evaluate, and demonstrate technologies that advance sustainable solutions for water and energy while also facilitating technology transfer between public utilities and the private sector. The center will educate and train technicians, utility personnel and students along with the community in the intricacies of water treatment solutions. To learn more, visit the WEST Center website. Read more.

Society of German Chemists Honors Dow for New Adhesives
Andreas Lutz, Research and Development (R&D) manager, and Stefan Schmatloch, functional R&D leader, were recently honored with the Meyer-Galow Award for business chemistry. This award honors scientists in German-speaking countries who have a decisive role in a recent chemical innovation. Lutz and Schmatloch received the award, along with 10,000 Euros, for the development of the BETAFORCE™ Adhesive. The innovative product from Dow enables the efficient and permanent adhesion of fiber composite materials, such as those used in lightweight vehicle construction, leading to reduced energy consumption. Carbon- and fiberglass-reinforced plastics, also known as fiber composites, are particularly promising. Lutz and Schmatloch developed a dual component polyurethane structural adhesive capable of curing either rapidly or at variable speed. The new Dow adhesive is perfectly suited for both the assembly process in large-scale production as well as repairs.

dow.com/sustainability
Ultrafiltration Technology Honored by R&D Magazine

R&D Magazine honored Dow with a Silver Special Recognition Award for bringing a sustainable innovation to the home appliance industry. PURINZETM Ultrafiltration (UF) Technology won Silver in the Special Recognition Green Tech category for its excellent filtration performance, addressing water scarcity issues. Used in the Haier Group's Casarte eco-friendly washing machine, the PURINZETM UF module facilitates more than a 30 percent reduction in water consumption, while improving water quality by removing as much as 99 percent of common bacteria. The Green Tech Special Recognition Award is a separate award established by R&D Magazine to particularly recognize innovations that help society reduce its footprint by increasing efficiency and reducing energy consumption. Read more.

Powerplay Revitalizing Ice at Yost Arena

Designing a foundation that would support their ice rink for generations to come, the team behind the renovations of the iconic Yost Ice Arena in Ann Arbor reached out to Dow for the right technology. Having enabled the construction of best-in-class ice rinks and sports stadiums around the world, Dow was ready to meet the need, especially for the University of Michigan, a sustainability innovation partner of Dow and educator of future leaders in science. Dow donated more than 35,000 square feet of STYROFOAM™ Brand XPS Insulation and more than 750 gallons of DOWFROST HD™ Heat Transfer Fluid to provide: protection against subsoil freezing and heaving of the slab beneath the ice sheet; efficient transfer of heat to where it needs to be and reduced loss of heat to other layers; prevention of crumbling and waterlogging of the insulation, mold and decay beneath the slab, or corrosion and bursting of the pipes; and consistent temperature control that enables the creation of good ice in less time. Read more.

PacXpert™ Packaging Technology License Agreement

Dow Packaging and Specialty Plastics announced the second PacXpert™ Flexible Packaging Technology collaboration in Japan with Takigawa Corporation late last year. This license agreement comes a year after the first partnership with Kyodo Printing in 2014, and will allow Takigawa Corporation to produce packaging for a wide range of applications to their customer base across Asia Pacific through its manufacturing sites in Japan and Vietnam. This marks the 11th licensee agreement for PacXpert™ packaging technology globally, and the third in Asia Pacific. Takigawa Corporation is a leading flexible packaging converter in Japan, and provides high-end packaging for a wide range of applications for both liquid and granule content for food and non-food related products. With the agreement, Takigawa Corporation will advance the reach of the award-winning PacXpert™ packaging technology across Asia Pacific to their distribution markets in Australia, Indonesia, Japan, Thailand and Vietnam.

Bloomberg Businessweek Reports on Dow Water Technology

The accessibility of usable water is one of the biggest challenges facing the world today. A recent Good Business issue of Bloomberg Businessweek, with circulation of nearly a million business leaders, featured how Dow’s advanced reverse osmosis and filtration technologies are transforming waste water into drinking water. Dow leaders shared the science and innovation that is enabling a viable solution to an urban population's water scarcity. As the quality of feed water to industrial plants is diminishing, the requirements for outgoing water/discharge are becoming more stringent. Advanced technology plays a critical role in both preserving and restoring global water supplies, and also in managing the cost of water. The article is also posted on Bloomberg Businessweek’s web site.

Kirkpatrick Chemical Engineering Achievement Award

Dow’s INTUNE™ Olefin Block Copolymers, a breakthrough compatibilization technology, was recently honored with the Kirkpatrick Chemical Engineering Achievement Award, a prestigious biennial recognition that honors the most noteworthy chemical engineering technology commercialized in the world. INTUNE is the second disruptive innovation made using Dow’s proprietary olefin block copolymer platform, an advance in catalytic science and reaction engineering. INTUNE makes it possible to combine polyethylene (PE) and polypropylene (PP) and provide the best benefits of each material, while minimizing trade-off of properties. It provides new flexibility for blending and bonding the polymers, allowing designers and fabricators to engineer materials with blends or multi-layer structures of PE and PP that take advantage of their common attributes, such as low cost, low density and environmental resistance. It also facilitates a desirable property retention even with the addition of PE or PP recycled content. Read more.

New Recyclable Dishwasher Pods Packaging

Dow recently collaborated with the Sustainable Packaging Coalition (SPC) and Accredo Packaging to produce Seventh Generation’s First recyclable flexible packaging for Dishwasher Pods. Dow developed the resins for the recyclable polyethylene stand-up pouch to help ensure the package’s stiffness, toughness and sealability. Accredo Packaging converts these materials into pouches and their award-winning printing capabilities gives the package the aesthetics it needs to stand out on store shelves. Seventh Generation’s new Dishwasher Pods packaging carries the How2Recycle “Store Drop-Off” label, which encourages consumers to take flexible plastic bags, films and wraps back to local grocery or retail stores for recycling. The pouches can be recycled at more than 18,000 store drop-off locations throughout North America. As a founding member of the SPC, Dow focuses on collaborating throughout the value chain to create more sustainable packaging and improve consumer knowledge and adoption of recycling streams. 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.

CDP Recognizes Dow Climate Change Transparency
Dow was recently recognized for the third time as a leader in climate change reporting and disclosure by CDP, an international not-for-profit working to transform how the world does business to prevent climate change and protect natural resources. Dow earned the highest possible disclosure score of 100 percent. In 2015, Dow was selected to the S&P 500 Climate Disclosure Leadership Index, which recognizes the top 10 percent of companies reporting for disclosure of high-quality carbon emissions and energy data. Top scores indicate a high level of transparency in the disclosure of climate change-related information, providing investors with a level of comfort to assess corporate accountability and preparedness for changing market demands and emissions regulation. CDP’s annual global climate change report, along with the climate scores of all companies publicly taking part in CDP’s climate change program, is available on CDP’s website. Read more.

Chauny Site Works with Water Agency to Protect River
The Dow site in Chauny, France is located on the banks of the Oise River and has been engaged in long-term efforts to reduce and eliminate emissions into the river. Its water treatment facility is capable of treating effluents equivalent to that of the city of Toulouse, which has more than 450,000 inhabitants. Dow recently welcomed 30 representatives of the French government’s Water Agency to the site, along with customers, utility companies, local farmers, elected officials, and local water system users, to mark the progress that has been made in protecting the aquatic environment. Since 1993, the site has invested 20 million Euros for improving its water effluent quality. The Water Agency is an essential partner, as it has supported 22 projects at the site and invested of 9.2 million Euros in subsidies. The public-private partnership is paying dividends for Dow, the local community and downstream communities. Plans are currently underway for an ambitious wastewater recycling project that will further reduce the ecological footprint of the facility.

Recognized Among Best Places to Work for LGBT Employees
Recognizing Dow’s continued commitment to lesbian, gay, bisexual and transgender (LGBT) rights in the workplace, the Human Rights Campaign has honored the company for the eleventh consecutive year for achieving a 100 percent rating on its corporate equality index (CEI). The CEI is a global benchmarking tool for corporate policies and practices related to LGBT employees and the first measure to rank global businesses on the worldwide consistency of their non-discrimination policies and codes of conduct. In 2015, more than 390 businesses worldwide earned a 100 percent ranking – the highest number since the inception of the index in 2002. In 2005, Dow became the first in its industry to receive a 100 percent score on the CEI. Read more.

Dow Korea Honored for Advancing Gender Equality in R&D
Dow Korea received a ministerial award from the Ministry of Trade, Industry and Energy for advancing gender equality in R&D, in recognition of its efforts to encourage more women into leadership positions in research areas. The award ceremony, hosted by the Association of Korean Woman Scientists & Engineers (KWSE), was held at Seoul National University’s Global Education Center for Engineers. To improve and increase female employment in R&D, Dow Korea has a compulsory guideline to include female candidates during job interviews. The company is also active in supporting the career development of female employees through mentoring and other programs through its Women’s Innovation Network.

Thailand Sites Receive Eco-Factory Certificates
Dow Thailand received Eco-Factory Certificates at the Eco Innovation and Solution seminar hosted by The Industrial Environmental Institute and The Federation of Thai Industries. The certificates were presented by Thailand’s Ministry of Industry to all five Dow Thailand sites. The Eco Factory Certification is granted to plants that display a strong commitment to responsible operations for sustainable development with a focus on continuous improvement and responsible environmental management practices. This certification underlines Dow Thailand’s ongoing commitment to the 2025 Sustainability Goals and responsible operations in protecting our planet.
Demolition Team Neutralizes Danger with Zero Record
Dow's Global Demolition team of employees and contractors has recorded zero injuries, spills, process safety events and business interruptions since 2010. Each year, the Global Demolition team manages about 200 projects around the world, with all demolition work performed by contractors. Since demolition involves the dismantling, razing, destroying or wrecking of any building, structure or any part of it, the team's achievement is particularly significant. The screening and selection of demolition contract companies consists of a three-step evaluation process. It starts with a meticulous review of each company's expertise and safety culture. Contract companies who advance beyond this initial step are then carefully examined for the quality of work and employee experience levels. The last step of the process is a review and validation of each company's safety program and standards. Very few companies are able to meet Dow's strict standards, but those who do typically share the same passion for safety as Dow.

Workplace Culture Supports Good Health Globally
Dow’s Healthy Workplace Index (HWI) successfully fostered site support to employee health, over its eight year lifespan. All Dow sites around the world were invited to measure, track and make progress in nine different areas impacting employee health: tobacco cessation, access to physical activity, access to healthy food, case management, workplace exposure, participation in periodic exams, company exams, stress/resiliency management and healthy environment. Scoring is performed based on the areas listed; once totaled, a bronze, silver, gold or platinum standing is awarded. Today, 61 percent of Dow’s total population works at sites ranked at the silver level or higher, marking significant improvements over the program’s eight years. A healthier workplace culture is a key contributor to positive employee health, which has a direct impact on productivity, decreased health-related absenteeism, and reduced health care costs.

Sophia Antipolis Site Earns Responsible Care® Award
Dow’s Sophia Antipolis site was recently awarded the Responsible Care® Environmental Award by the French Chemical Industry Federation (UIC Méditerranée) for a significant project to reduce energy consumption and greenhouse gas emissions. The Responsible Care® Awards, which are organized every two years by the regional chemical federations within the framework of the National UIC Project, recognize companies that have introduced improvement solutions in four key areas: Safety, Health, Environment and Community. Site leaders applied for the award to showcase progress in the areas of energy reduction and environmental impact.

Hydrocarbons Command Center Earns Award
ABB, a leading power and automation technology group, awarded “Control Room of the Year” honors to Dow for the new Oyster Creek Hydrocarbons Command Center. The global award recognizes installations that best exemplify the modernized control room environment to actively promote operator effectiveness, safety, and production efficiency through the innovative use of 800xA control technologies. The Hydrocarbons Command Center, part of Dow’s ongoing investment in the U.S. Gulf Coast, uses ABB’s System 800xA Process Automation System to control all facets of production at the plant. The control room was designed to provide site operators with the latest ergonomic working environment, where they can ensure that site production processes run effectively and safely, and have all needed functions readily available at their fingertips. System 800xA integrates information from all systems in the plant and presents that information to the operators in easy-to-access formats for better decision making and improved overall performance. It also integrates and controls other plant systems and equipment, including electrical systems, variable speed drives, instrumentation and analyzers.

Certification as a Top Employer in China
Dow China was recently certified as one of “China’s Top Employers” for the eighth consecutive year by the Top Employers Institute. Headquartered in the Netherlands, and previously known as the CRF Institute, the Top Employers Institute has recognized top employers around the world since 1991 using a proprietary methodology to maintain certification objectivity, independence and selectivity. The certification recognizes Dow’s success in meeting the highest standards in human resource policies, practices and employee offerings. Dow is one of just six firms in China to be honored for eight years running. In the past two years, Dow tapped into China’s vast inland areas to open new offices in Chengdu, Harbin, Wuhan and Urumqi. This provides further opportunities for employees to sharpen their career skills and professionalism. Dow China investments in talent have included programs such as: Fighter Academy, Greater China Leadership Forum, Leadership Boot Camp and Hall of Fame. Dow China employees are also actively engaged in volunteer activities in the themes of science education, sustainability and community success. Since 2007, Dow China volunteers have contributed more than 51,000 service hours.

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Sustainable Chemistry

Building on the increasing sustainability momentum in our businesses since 2007, Dow delivered 22.4% ($13 billion) of sales from products that are “highly advantaged” by sustainable chemistry in 2014. This result surpasses the aggressive 10% target more than twofold, and represents the realization of sustainable chemistry efforts under Dow’s 2015 Sustainable Chemistry goal. The Company’s aggregate Sustainable Chemistry Index (SCI) increased from 20.4 to 25.0 since 2007. Comprised of a set of sustainability-related questions, the SCI spans the full cradle-to-grave product life cycle; addresses environmental, social and economic benefits; and highlights sustainability opportunities and risks associated with Dow products. Across the Company, these highly advantaged products have brought sustainable chemistry to life – from improving manufacturing efficiency, to applications that enable energy efficiency, waste reduction and healthier food options. Dow measures its percentage of sales of products highly advantaged by sustainable chemistry using the SCI, which the Company developed as a tool for tracking the relative sustainability performance of its global product portfolio, and for generating product sustainability awareness and life cycle insights.

Most of the 2013 highly advantaged products remained highly advantaged for 2014, and as a group their sales continue to grow. New highly advantaged sales were achieved due to improved manufacturing efficiency, including record EH&S performance, as well as from opportunities realized in agriculture, packaging, communication, infrastructure, energy and personal care. These accomplishments reflect Dow’s vision and strategy to drive value by solving world challenges through scientific expertise and collaborating with customers to develop new solutions.

The SCI is a powerful tool for catalyzing sustainability awareness, encouraging sustainability-driven innovation and highlighting sustainability risk, all of which inform business strategies. Applied annually to the entire Dow product portfolio since 2007, the SCI has enabled the generation of detailed sustainability insights and has provided a sustainability indicator that is helping to position the Company for success over the long term.

Dow presented its SCI work to an audience of sustainability professionals at an international conference; the abstract and presentation can be found here. A detailed white paper on the SCI and its impact can also be found here. At the recent American Center for Life Cycle Assessment (ACLCA) annual conference, Dow was presented with the 2015 Corporate LCA Leadership Award in recognition of the Company’s “exemplary leadership and skill in the application and advancement of LCA practice within the industry.”
Addressing Climate Change, Energy Efficiency and Conservation

In 1Q 2012, Dow added an absolute greenhouse gas (GHG) commitment to its own Climate Change goal: Maintain GHG emissions below 2006 levels on an absolute basis. Dow will find ways to grow without growing GHG emissions. Related to this additional metric to manage our footprint, Dow is developing a Net Impact Tracking Tool, a technique that will sharpen the Company’s focus on the full life-cycle benefits of our products. The tool will be used for tracking and reporting elements of Dow’s 2025 Sustainability Goals.

A sustainable energy future requires constant improvement in manufacturing efficiency, while maximizing the contributions of products to improve efficiency and expanding the availability of 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 the Company and our customers.

Greenhouse Gas Reduction

Dow’s goal is to maintain GHG emissions below 2006 levels on an absolute basis for all GHGs, thereby growing the Company without increasing its carbon footprint. While the revenue of the Company increased from $49 billion in 2006 to $58 billion in 2014, Dow reduced its GHG emissions from 47 million to 35 million metric tons per year, more than 12 million metric tons per year below 2006 levels. Dow’s energy-efficiency management efforts have significantly reduced the Company’s GHG emissions footprint. As a result, the Company has prevented more than 320 million metric tons of GHG emissions from entering the atmosphere since 1990. Dow will continue to focus on managing its footprint and delivering solutions to help customers do the same. For example, Dow’s insulation products contribute to greater energy efficiency, helping avoid millions of metric tons of GHG emissions per year.

Dow regularly reports on a target to grow the use of clean power to exceed 400 megawatt (MW) equivalents by 2025. At the end of 2014, Dow had approximately 266 MW that were either low-carbon or from renewable sources. Additionally, Dow has signed a long-term agreement with a new wind farm, currently under development in South Texas. The wind farm, to be complete in first quarter 2016, will span nearly 35,000 acres and will supply Dow’s Freeport, Texas manufacturing facility with 200 MW of wind power. As a direct result, Dow is the first company in the U.S. to power a manufacturing site with renewable energy at this scale, and will become the third largest corporate purchaser of wind energy in the United States. Read more. This goal is helping the Company pursue opportunities to incorporate economically viable, clean-technology energy alternatives in Dow operations.

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Since 2003, Dow has reported to the Carbon Disclosure Project (CDP), a not-for-profit organization working to understand the risks and to drive GHG emissions reduction from business. This year, Dow reported on its 2014 GHG performance and commitment to providing solutions for the climate change challenge. Dow earned a CDP disclosure score of 100% and leadership status, highlighting the Company’s commitment to strong governance and complete disclosure through transparent emissions reporting.

Avoided emissions resulting from the use of Dow products are important contributions to reduce the overall footprint of human activities. A Life Cycle Assessment documented that emissions saved by Dow insulation products are about seven times greater than total Company direct and indirect Kyoto and non-Kyoto GHG emissions. This calculation was made by quantifying the GHG emissions at all stages of the life cycle of the Dow insulation product and comparing these with the GHG emissions savings from the use of the insulation products in buildings and pipe systems. The estimated GHG avoided emissions for 2014 from the use of Dow’s insulation products is 292 million MT CO₂eq.

Dow has a goal to achieve an additional 25% improvement in Energy Intensity (BTUs/lb produced) by 2015, with average Energy Intensity for the year 2005, adjusted for mergers and acquisitions, used as the basis for calculating performance. Dow’s goal for Energy Intensity for the full year of 2015 is 3,113 BTU/lb, or 75% of the value in 2005. Dow’s actual performance through 3Q 2015 was 4,039 BTU/lb, which is 97.3% of the 2005 baseline.

Dow has reduced annual energy use by 20% since 2005; however, we have not achieved the level of performance we anticipated when our Energy Intensity goal was established. Dow’s products can lead to significant energy reductions for our customers, and virtually every industry becomes more efficient through what we make and do. The Company is shifting toward higher-value, more technology-driven specialty products that are by nature more energy-intensive, and operating rates have also been reduced to match demand, resulting in less efficient asset use.
Product Safety Leadership

We published 510 PSA covering 99% of Dow’s annual revenue, with several PSAs in the final stages of review. Additionally, all of Dow’s 149 High-Priority Chemicals are now covered by a PSA. Since 2Q 2014, the number of PSAs and High-Priority Chemicals has decreased due to divestitures and the discontinuation of several High-Priority Chemicals.

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 offered by Dow to strengthen relationships with communities and customers. Dow is dedicated to providing the public with accurate information and building trust as we use technology to develop better products, and 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.

Cumulative Product Safety Assessments

Sales Covered by Assessments

*The total number of assessments change over time due to divestiture, product discontinuation and PSA consolidation.

Breakthroughs to World Challenges

Dow’s Breakthrough to World Challenges commitment identifies products and technologies that deliver significant contributions to societal challenges over time. To be selected, breakthrough technologies are subjected to a rigorous evaluation process that measures many candidates in Dow’s business portfolio against a variety of criteria, from positive impact on millions of human lives, to minimal environmental impact throughout the product’s lifecycle. Dow has surpassed the target established in 2006 as part of its 2015 Sustainability Goals. Dow’s previously announced breakthroughs include:

2015 Goal

- Achieve at least three breakthroughs that will significantly help solve world challenges
Contributing to Community Success

Transforming the Essence of Community Engagement

In 2015, Dow completed its 10-year journey of implementing the “Contributing to Community Success” process at sites where the company has a presence.

The goal was that by 2015, 100 percent of Dow's selected manufacturing sites would have achieved their targeted individual community acceptance ratings, which measure community favorability with the role Dow plays in making the community a better place to live; and, by 2015, 100% of Dow sites would be actively engaged in implementing the “Contributing to Community Success” best practices in their respective communities.

Survey results demonstrate that Dow was in fact successful in improving quality of life in its communities. In the 10 locations that were surveyed, average Community Acceptance Ratings increased by 25 percent. (See table below.) This means Dow truly is playing a positive role in improving our communities.

A Strong Future

Dow believes the result of the Contributing to Community Success work in the 10 pilot communities is a best practice and a breakthrough model for all sites globally. This disciplined approach to data gathering, information sharing and strategic implementation is a reputational game-changer for the company and a life-changer for residents of our communities.

Each Dow site now is committed to maintaining the positive momentum by implementing the 2025 Sustainability Goals, which call for the company to take community involvement one step further by “Engaging Employees for Impact.” Over the next 10 years, Dow people all over the world will apply their talents to positively impact the lives of 1 billion people.

The future presents unlimited opportunity for Dow sites globally, as they continue to engage with communities to bring about sustainable change. For more stories of impact, go to http://www.dow.com/sustainability/goals/community.htm.
The Dow Chemical Company’s 2015 overall performance in environment, health and safety (EH&S) improved by almost 15 percent when compared against 2014 results. Key performance influencers include a record low injury and illness rate of 0.16, a 16-percent improvement from 2014. This rate continues to position Dow as a leader in the industry. Also driving 2015 success was improved performance in our environmental (leaks, breaks, spills) count.

Our successful 10-year journey in protecting human health and the environment was powered by highly aggressive goals that produced significant results. Dow’s injury and illness rate from 2005 through 2015 improved by 69 percent, while our injury severity rate showed a 75 percent improvement over the decade. Other significant gains occurred in loss of primary containment (LOPC), process safety incidents, severe motor vehicle accidents, hazmat transportation LOPC and highly hazardous material tonne-miles.

Dow’s continued commitment to safety and world-leading operations performance is key to our Company, our history and our “license to operate” in communities around the world. Our 2025 goals commit us to maintaining world-leading operations performance in natural resource efficiency, environment, health and safety. We’ll continue to pursue efficient operations that drive environmental benefits for our communities and help us lead the transition to a sustainable planet and society.

At the end of 4Q 2015, the Injury and Illness rate was 0.16 per 200,000 hours of work. This is 16% better than 2014 and a 69% improvement since 2005. We were close to meeting the 2015 goal of 0.12 per 200,000 hours, a 75% improvement from 2005.

At the end of 4Q 2015, the Injury and Illness Severity rate was 0.57 per 200,000 hours of work. This is 10% better than 2014 and is a 75% improvement since 2005, and significantly below our 2015 Goal of 0.67 per 200,000 hours equivalent to 70% improvement from 2005.
At the end of 4Q 2015, the Company experienced 154 Loss of Primary Containment (LOPC) incidents. This was a decrease from the 178 incidents experienced in 2014 and an overall 88% improvement since 2005. We were very close to meeting the very ambitious 2015 goal of 130 LOPC or a 90% reduction from 2005.

At the end of 4Q 2015, the Company experienced 12 Process Safety Incidents (PSIs). This is an overall 83% improvement since 2005 and significantly below the 2015 goal. The 2015 goal was to be experiencing less than 20 PSIs. PSIs are classified in terms of the Center for Chemical Process Safety and American Chemistry Council definitions.
At the end of 4Q 2015, Dow experienced 20 Hazmat Transportation LOPC events, a 64% improvement since 2005, and one was classified as highly hazardous. The 2015 goal to reduce all Hazmat Transportation incidents to 14 or fewer would have been a 75% improvement from 2005.

At the end of 4Q 2015, the Severe Motor Vehicle Accident incident rate was 0.09 accidents per million miles driven, which is well below the 2015 goal of 0.28. This is an improvement over the 2014 rate of 0.12 accidents per million miles driven, and an overall 79% improvement since 2007. Severe Motor Vehicle Accident rate was not measured in the heritage Rohm and Haas Company. The 2007–2009 values represent the heritage Dow population.

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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. But by the end of 4Q 2015, we achieved a 58% reduction since 2005. A total of 587 million tonne-miles, were shipped via road and rail. This is well below the 2015 Goal of reducing these shipments to less than 705 million tonne-miles or a 50% reduction from the 2005 baseline.
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 also good for business.

Dow remains committed to continuously improving its performance and publicly reporting its progress. Please visit dow.com for the latest Dow sustainability, business and performance news, and to share your comments or submit questions.