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Dow Implements Sustainable Agriculture Project in Brazil as Part of Carbon Mitigation Program for the Rio 2016

Dow, the “Official Chemistry Company” of the Olympic Games and Official Carbon Partner of the Rio 2016 Organizing Committee, recently announced that Dow AgroSciences Brazil is working with Brazilian farmers from the state of Mato Grosso to implement more sustainable agricultural practices that will generate climate benefits for the mitigation of Rio 2016’s direct carbon footprint.

The Sustainable Agriculture project is a key element of Dow’s innovative “Sustainable Future” program being implemented across Brazil and Latin America, which utilizes energy-efficient technologies and low-carbon solutions to minimize greenhouse gas (GHG) emissions. Through the Sustainable Agriculture project, Dow, in collaboration with Farmers Edge, a world leader in precision agronomy, and Irriger, a Brazilian group specializing in irrigation management, will provide variable rate technology and expertise to farmers in Mato Grosso, one of Brazil’s main ‘breadbaskets’.

The project is designed to minimize environmental impact and optimize productivity in corn and soybean crops through higher yields, better varieties and more targeted pest control management. Implementation of the precision and variable rate technologies, along with seeds and crop protection solutions from Dow, is expected to result in lower rates of synthetic fertilizer application, leading to a reduction in emissions of nitrous oxide. Nitrous oxide is a greenhouse gas (GHG) and is produced as fertilizer decomposes. The reduced GHG emissions from this project will be applied towards Dow’s commitment to mitigate 500,000 tons of carbon dioxide equivalents (CO2eq) for the Rio 2016 Olympic Games.

Farmers participating in the project have access to services and technologies such as satellite imagery, precision harvest and profit maps, intensive soil sampling and laboratory analysis, weather monitoring, and detailed review of cropping plans and goals with variable rate technology experts. Seeds and crop protection solutions from Dow are also available to help optimize production and increase yields.

The climate benefits of the Sustainable Agriculture project will be realized over the next five years – far beyond the Olympic Games, creating a lasting legacy for farmers participating in the program. Work with farmers started during preparation for the 2015 Brazilian soybean season, and will continue through the end of the 2016 corn harvest. Carbon emissions reductions will be tracked based on productivity increase and reductions in the use of fertilizers and fuel. The climate benefits generated by the Brazilian farms participating in the project will be measured, reviewed and verified by the third party Environmental Resource Management.

Following the successful execution of a similar “Sustainable Future” program in Sochi for the 2014 Olympic Games, Dow became the Official Carbon Partner of Rio 2016 in September 2014. Dow designed a tailor-made program to address the technology needs for Brazil focused on farming, industrial processes and civil infrastructure to generate climate benefits for the mitigation of the direct carbon footprint of the Rio 2016 Organizing Committee. In addition to Dow’s commitment to mitigate 500,000 tons of CO2eq from the organizing and hosting of the Games, Dow and Rio 2016 will also work to generate an additional 1.5 million tons of CO2eq in climate benefits by 2026, to address other Games-related emissions. Read more.
Dow recently announced that six of its latest innovations have been named to R&D Magazine's prestigious 2015 R&D 100 Awards. Additionally, one new product, PURINZE™ UltraFiltration Module, received special recognition in the Green Technology category.

Often referred to as the “Oscars of Innovation,” the annual R&D 100 Awards event held at Caesar’s Palace in Las Vegas celebrates the most significant technology inventions of the past year. With 21 total finalists, Dow was once again highlighted as a leading innovator, having the greatest number of finalists and winners of any single developer. A wide range of solutions were recognized, from more sustainable electronics and innovative packaging, to water-efficient appliances and infrastructure solutions that help improve safety and fuel efficiency in motor vehicles.

“Dow’s research teams continue to partner with our customers and fuel our innovation pipeline,” said A. N. Sreeram, Dow senior vice president of Research & Development and chief technology officer. “High-throughput research capabilities, combined with high-performance computer modeling, accelerate the development of products that meet and exceed customer needs, allowing us to consistently deliver differentiated solutions year after year.” In 2014, five of Dow’s products were named R&D 100 award winners, two more than the previous year.

Each of the seven Dow innovations recognized this year by R&D 100 was commercialized in the last 12 months and developed as a market-focused solution, addressing key customer challenges in a more sustainable way.

2015 Dow R&D 100 Award Winners
- ACRYSOL™ RM-725 Rheology Modifier offers excellent applied hiding, enhanced surface appearance and better touch-up in a broad range of paint formulations.
- BETAMATE™ Structural Adhesives for lightweight aluminum enable automotive engineers to design vehicles for maximum weight-saving and reduction of fuel consumption and emissions.
- ENDURANCE™ C4202 Insulation Compound contains patented formulation technology and is used in the construction of medium-voltage power cables, enabling utilities’ improved performance through extended cable life and enhanced reliability all while reducing total life-cycle cost.
- PacXpert™ Packaging Technology is a flexible, lightweight alternative to rigid packaging, requires less material to manufacture and allows for more efficient shipping.
- Polyethylene (PE) Stand-Up Pouch is packaging for frozen and dried foods that is suitable to be recycled in communities with existing PE film recycling streams and eligible to use the How2Recycle label.
- PURINZE™ UltraFiltration Module enables eco-washing machines to recycle water, reducing water consumption by 30%, while removing 99% of common bacteria.
- SOLDERON™ BP TS6000 Tin-Silver helps electronics manufacturers take the lead out of solder used in chip packaging, while doubling productivity and maintaining reliability.

This recognition comes on the heels of Dow being named for the fifth consecutive year to Thomson Reuters’ Top 100 Global Innovator list. An R&D powerhouse and sustainability leader, Dow invents approximately 5,000 new products each year, with a focus on delivering breakthrough innovations to address society’s most challenging problems.

21 Dow R&D 100 Award Finalists

**Consumer Solutions**
- BETAMATE™ Structural Adhesives
- VORAFORCE™ 5300 Epoxy
- METHOCEL™ DC2 Premium Excipients
- IKONIC™ Polishing Pads
- MICROFILL™ THF-100 Electrolytic Copper
- SOLDERON™ BP TS6000 Tin-Silver

**Infrastructure Solutions**
- ACRYSOL™ RM-725 Rheology Modifier
- DustPRO™ Coated Proppant Sand
- LIQUIDARMOR™ Flashing and Sealant
- MAINCOTE™ AEH Resin
- NORKOOL DESITHERM™ HS Fluid
- PURINZE™ UltraFiltration Module

**Performance Plastics**
- DIAMANTO™ Polyethylene Film
- ENDURANCE™ C4202 Insulation
- HYPERTHERM™ Resins
- INTUNE™ Olefin Block Copolymers
- PacXpert™ Packaging Technology
- Polyethylene (PE) Stand-Up Pouch

**Performance Materials & Chemicals**
- HYPERLAST™ FJ760 PU Field Joint
- PASCAL™ Pro Polyurethane Systems
- VORASTAR™ 7000 Spray Elastomer System

[ dow.com/sustainability ](dow.com/sustainability)
Businesses Play Key Role in Achieving UN Sustainable Development Goals

The United Nations (UN) recently launched its new Sustainable Development Goals (SDGs). Dow believes that business is uniquely equipped to deliver innovative changes on a large scale, develop best practices that others can adopt, and build momentum toward sweeping progress. In order to do so, companies – particularly those with global reach – will need to take greater responsibility for areas traditionally outside their missions and balance sheets. Dow understands that business can make a positive difference for the world’s 7 billion people. Earlier this year, the Company launched its ambitious 2025 Sustainability Goals, which address each of the UN SDGs and incorporate the value of nature and society into our business decisions. Learn more about the UN SDGs. View the infographic on how #Dow2025 aligns to the SDGs.

Hangout Participants Discuss Circular Economy Progress

Recently, Dow hosted a live Google Hangout on Air to examine how businesses can help advance a circular economy. Presented in collaboration with GreenBiz, the panel discussion explored Dow’s 2025 Sustainability Goal on the subject and introduced the innovative energy-to-waste Energy Bag Pilot Program, which involved some 7,800 households during the course of the program and converted nearly 8,000 bags of non-recycled plastic into more than 500 gallons of synthetic crude oil. Participants examined what businesses in general can do to embrace circular economy principles and discussed what Dow in particular is doing through programs like the #EnergyBag Visit the Energy Bag website to view the Hangout and learn more about the program.

Three Projects Named Finalists for ICIS Innovation Awards

Dow recently announced that three of its innovations have been shortlisted for the 2015 ICIS Innovation Awards in three of the six award categories. ICIS, the world’s largest petrochemical market information provider, issues the awards annually to recognize significant steps forward in technological and business innovation that have produced tangible results over the past year. TERAFORCE™ Technology was named in the Best Product Innovation category for enabling new Preferred RCS™ Resin Coated Sand, which helps improve the cost-effectiveness and environmental profile of the hydraulic fracturing process. Dow’s Pack Studios was named in the Best Business Innovation category for helping customers develop the packaging solutions of tomorrow through a global network of packaging experts, equipment and testing capabilities. PURINZE™ Ultrafiltration Module was named in the Innovation with Best Benefit for Environment and Sustainability category for enabling new eco-friendly washing machines that reduce water consumption by 30% while improving water quality by removing as much as 99% of common bacteria. Read more.

Greek School Project Furthers Cool Roof Research

Dow recently embarked on an exciting, new research project aimed at investigating the potential benefits of elastomeric Cool Reflective Roof Coatings for buildings without extensive air conditioning. An elementary school in the Egaleo municipality of Athens, Greece, has been covered with Cool Barrier Roof Coating using PRIMAL™ EC 1791 Acrylic Emulsion Binder. The project has been designed to monitor the impact under climatic conditions typical in southern Europe. It is expected the coating will reduce roof temperature (which will be measured by sensors built into the roof) as well as the air temperature inside the classroom. The project will explore the potential to improve comfort for inhabitants without investing in electrically run fans or air conditioning – all while responding to the challenges of Europe’s Vision 2020 with nearly zero-energy building targets.

dow.com/sustainability
Partners for Change

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

Climate Change Education Kit Launched in Korea
Dow recently launched an exciting education initiative in Korea featuring an innovative climate change education kit developed in cooperation with Korea Green Foundation. “Mission! Light up Our Eco-Town” was developed with input from school teachers participating as researchers. It is a scientific and creative educational tool that allows students to think and take independent action based on a board game combined with hands-on activities. The climate change education kit will be introduced through a school visiting education program beginning in the second half of this year. Schools can apply for the program targeting students in Grades 3 to 5. Visit the Korea Green Foundation website to learn more.

Ultra-durable Soccer Balls Presented to Kids in Kibera
Dow staff in East Africa spent their World Environment Day with the children of Kibera, the largest informal settlement in Africa. After employees saw them playing soccer using plastic bottles, Dow donated ultra-durable soccer balls made with Dow technology to children of the Kibera slums. The soccer balls are puncture resistant, require no pumping or needles, and do not go flat even if they are punctured. During a recent meeting in Nairobi, Dow employees were humbled to see children of Kibera slums playing football using plastic bottles. The soccer balls were received by the Meri McCoy-Thompson, the Executive Director of Human Needs Centre.

Public-Private Partnership to Drive Green Building Practices in China
The Chinese government and the Paulson Institute, an independent and non-partisan center, recently announced the intent to launch the U.S.-China Building Energy Efficiency Fund. The institute’s work is grounded in the principle that today’s most pressing economic and environmental challenges can be solved only if the United States and China work in complementary ways. The fund is a bilateral initiative led by the Institute with the support of U.S. and Chinese companies, including Dow. The mission of the U.S.-China Building Energy Efficiency Fund is to enable and accelerate the deployment of U.S. technology and expertise in the Chinese market to help substantially reduce CO2 and other climate-related emissions. The initial focus is on improving energy use and the sustainability of buildings, which are the source of 40% of global GHG emissions. Through collaboration with partners in the U.S. and in China, Dow will offer its state-of-the-art technologies and solutions to a number of green building projects to improve energy efficiency and reduce carbon emissions.

Plastianguis Program Educates About Recycling in Mexico City
Dow was recently invited by the National Association of Chemical Industry and the Plastic Industry, Responsibility and Sustainable Development Commission to help lead the annual PLASTIANGUIS event in Mexico City. PLASTIANGUIS is a one-day event to increase public awareness about the proper handling and recycling of plastic packaging waste. This year’s event gathered around 2,000 people who participated in a barter exchange activity where plastic waste was exchanged for food and home care products. People learned about the food waste problem, the role of plastic packaging in preserving food and minimizing waste, and the importance of choosing the proper food amounts for their lifestyle, saving leftovers and recycling plastic packaging. All of the collected plastics were taken to recycling centers to be transformed into new materials.
Industry Partners Promote Sustainable Plastics and Recycling

Collaboration and sustainability go hand-in-hand, as demonstrated by Dow's efforts to work with industry organizations such as GreenBlue's Sustainable Packaging Coalition (SPC) and the American Chemistry Council's Flexible Film Recycling Group to promote sustainable packaging and recycling. GreenBlue is a nonprofit organization that equips businesses with the science and resources to make products more sustainable. SPC is now the leading voice on packaging sustainability and developed the How2Recycle label program. The coalition is committed to closing the consumer knowledge gap of what can and cannot be recycled. Through the collaboration, sustainable packaging practices and recycling streams are gaining momentum. Today in the U.S., the How2Recycle label is helping consumers learn to recycle plastic film at more than 18,000 drop-off locations nationwide. As of June, there were 42 U.S. companies participating in the program. Dow's new recyclable polyethylene stand-up pouch is eligible to use the How2Recycle grocery store drop-off label, and it is marketed that way to promote adoption. Dow has already worked with Seventh Generation to adopt the label on the Company's dishwasher detergent pod packaging.

Frequencies Murals Represent the Intersection of Science and Art

Courageous collaborations can revitalize communities and inspire future generations. Dow recently joined The City of Philadelphia Mural Arts Program in the unveiling of Frequencies in the city's Hunting Park neighborhood. Dow's partnership with Mural Arts first focused on increasing the longevity of the world's largest collection of outdoor public art. Dow Coating Materials led a technical exchange that provided an opportunity for the Company to share nearly 60 years of paint and coatings know-how. Staff from Mural Arts visited experts from Dow Coating Materials at the Paint Quality Institute in Spring House, Penn., to experience the science behind the mural-making materials. Dow expanded its partnership with Mural Arts through a year-long art education program designed to engage and inspire the workforce of tomorrow for years to come. Since last December, 10 students participating in Mural Arts’ After-School Education Program met weekly at the Lenfest Center in Hunting Park, exploring the generative power of art and science with renowned artist Ben Volta. The resulting mural displays the interpretative workings of the brain as seen by the students, drawing from a trial-and-error exploration in pattern-making and pattern recognition. The finished mural includes nearly 150 panels and displays the painting talents of Philadelphia Science Festival attendees and Dow employees who painted alongside the students.

Habitat for Humanity Build Brings Hope for Families in Romania

Habitat for Humanity supports families in need of proper housing around the world, and recently in Romania. Currently, around 5 million people live in poverty in the country. Deteriorated and improper houses endanger their health and limit their access to education. Dow recently donated STYROFOAM™ Extruded Polystyrene Foam Insulation for use in thermal insulation of houses and is actively partnering with Habitat for Humanity in Romania to revitalize existing houses and build new homes for people in need. The insulation donated by Dow was used to insulate a shared building being constructed for four families in Ploiești. In Ploiești alone, the organization has been active for three years and has helped 12 families to start a new life in their own houses. The donation and recent build projects mark the first steps in a growing collaboration with Habitat for Humanity in Romania, with a number of other projects being planned.

Protecting Bird Habitat in Shanghai

Dow and The Nature Conservancy (TNC), a leading conservation organization, joined forces with local government to protect bird habitat in Chongming Dongtan National Nature Reserve, in Shanghai. This program is part of the landmark, six-year Dow-TNC collaboration, which seeks to help incorporate the value of nature into business around the world. It is also the first in a series of Dow-TNC programs in China seek to protect bird habitat, wetlands, and water resources. The Chongming Dongtan National Nature Reserve has a total area of over 24,000 hectares and almost 300 types of birds which have been observed and recorded there over the years. Millions of swans, geese, and shorebirds traveling along Asia's north-south migration route from as far away as Alaska and New Zealand also use Chongming as a destination for staging and wintering.

STEM Ambassadors Lead the Way at Chemistry Teachers Summit

A new era of community engagement was launched recently when 25 Dow Science, Technology, Engineering and Math (STEM) Ambassadors pooled their knowledge with 26 educators at the first teacher summit hosted by the American Association of Chemistry Teachers (AACT). As part of its STEM Education strategy, Dow joined forces with the American Chemical Society last year to launch AACT, which is dedicated to providing resources that foster top-notch chemistry instruction grounded in everyday life. Dow and AACT are working together to convene a series of teacher summits and create more than 750 lesson plans, multimedia resources, demonstrations and other chemistry teaching materials for use in K-12 classrooms. The first teacher summit was held this summer in Midland, Michigan, with team building activities, a Dow site tour, safety presentations and teacher resource creation. The next day, the group headed to East Lansing, Michigan, for four days in and around Michigan State University. Participants took part in research, discussion, competition and presentations, all geared toward expanding understanding of effective chemistry teaching. For more information, visit the STEM Education section of Dow.com. Learn more.
STYROFOAM™ Insulation Products Achieve New Sustainability Milestone

STYROFOAM™ Extruded Polystyrene Foam Insulation Products in North America! have received validation from Underwriters Laboratories (UL) Environment that they contain 20% pre-consumer recycled content on average. This verification marks the latest sustainability milestone for Dow insulation products, which also hold Cradle to Cradle™ certification. Dow’s pursuit of third-party substantiation demonstrates a commitment to scientifically backed, credible communication about this sustainability attribute. For more than 70 years, Dow has been a recognized leader in the building industry, delivering energy-efficient solutions that conserve energy and reduce greenhouse gas (GHG) emissions, including the flagship STYROFOAM™ brand from Dow. The UL Environment validation underscores the Company’s drive to constantly improve, innovate and perfect building envelope science to deliver more sustainable, safer solutions.

Heroes of Chemistry Recognized for Catalyst Technology

Several scientists from Dow who led the development of INSITE™ Catalyst, a revolutionary technology that made possible highly tailored materials bridging the properties of plastics and rubber, have been named among the 2015 “Heroes of Chemistry,” a prestigious award presented by the American Chemical Society. Heroes of Chemistry are nominated by their respective companies to recognize their innovative work in chemistry and chemical engineering leading to commercial products that benefit the world. Polymer brands ENGAGE™ Polyolefin Elastomers, NORDEL™ EPDM and AFFINITY™ Polyolefin Elastomers from Dow, used in many of today’s growing consumer markets, including automotive, building and construction and consumer packaging, have been made possible by the breakthrough of INSITE Catalyst Technology. These and other new-to-the-world polymer families derived from INSITE continue to revolutionize the plastics industry. Read more.

Fiat Chrysler Automobiles Recognizes Dow Automotive for BETAFOAM™ Renue

Fiat Chrysler Automobiles (FCA) recently recognized Dow Automotive and FCA’s Systems and Components Engineering groups with a Finalist Award at its 2015 Environmental, Health and Safety Leadership Awards Ceremony. Dow and FCA Engineering were selected for their collaborative development and subsequent launch of BETAFOAM™ Renue at three different plants, with the Sterling Heights Assembly Plant leading the adoption. Key benefits of the product include mass reduction and improved processing characteristics.
ACCUTRACE™ S10 Fuel Marker Tackles Fraud Across Europe

This past quarter, Dow collaborated closely with governments and agencies across Europe, including the EU Fiscalis Committee on Fuel Fraud, to deliver the most secure technology to date for authenticating fuels in an economically efficient and environmentally sound manner. The governments of the United Kingdom and Ireland have selected the ACCUTRACE™ S10 fuel marker for identification of petroleum products, and recently completed its roll-out by implementing nation-wide road testing. This innovative solution from Dow offers unique resistance to removal methods utilized by criminals to launder low-taxation fuels. This performance empowers governments to protect tax exemption for certain uses of fuel, such as agriculture and home heating, to keep food and heat affordable for individuals and families. In addition to deterring fuel laundering, which can result in significant hazardous dumping, the ACCUTRACE S10 Fuel Marker also presents a clean and safe alternative to other options that can increase pollution and cause expensive equipment damage. The ACCUTRACE S10 Fuel Marker is better for the environment and prevents economic loss beyond tax revenue.

Two Sustainability Awards for PacXpert and REFLEX

Packaging Europe, one of Europe’s leading industry magazines, has named PacXpert™ Packaging Technology as the winner in the best weight-reducing solution category in its recent Sustainability Awards. The publication also named project REFLEX as a runner-up in the best brand category. The Packaging Europe Sustainability Awards celebrate the best, most innovative and most significant work being done to improve the environmental impact of packaging and packaged goods. PacXpert Technology from Dow took the prize for best weight-reducing solution, in recognition of the significant material/weight savings on a unit-by-unit basis that can be facilitated by switching from a rigid container. The REFLEX project was recognized for addressing the question of how to develop technologies that boost recycling of flexible packaging. The project exemplifies what can be done when brand owners can join forces with leading materials suppliers, converters and end-of-life specialists to solve common problems faster.

New Convenient Skid Design of Breakthrough Filter Benefits Wastewater Customers

Dow’s wastewater treatment customers are now able to enjoy all the benefits of breakthrough TEQUATIC™ PLUS F-75 and F-150 Filters in a convenient skid design that enables fast, “out-of-the-box” installation and startup with easy serviceability. Dow created this smart solution to meet growing industry demand, simplifying the customer experience by providing a skid solution that offers drop-in integration into existing water treatment systems. TEQUATIC PLUS Filters B-Series Skids offer a reliable, self-cleaning solution for removing extremely high and variable solids from fluid streams, even in the presence of fats, oils and grease. Operating where traditional filters typically fail, TEQUATIC PLUS Filters reduce maintenance and consumables costs and facilitate high uptime in a compact footprint with less waste, space and chemical use. The technology is an excellent choice for industrial wastewater treatment and reuse applications, including food and beverage and oilfield water. For more information about TEQUATIC PLUS Filters and B-Series Skids, including case studies. Read more.

Santa Vitória Ethanol Mill Begins Operation in Brazil

A significant milestone was recently reached in Santa Vitória, Brazil, with the start-up of an ethanol mill producing both fuel and electricity from renewable resources. The Santa Vitória Açúcar e Álcool Ltda. (SVAA) project is a joint venture between Dow and Mitsui Co., Ltd. The integrated alcohol-chemical complex uses sugarcane as a renewable feedstock for the production of ethanol. The mill has the capacity to convert 2.7 million tons of sugarcane into 240,000 cubic meters of hydrous fuel ethanol per harvest year. All procedures for cultivating sugarcane plantations are conducted in a sustainable manner and in compliance with environmental regulatory requirements. The harvest is 100% mechanized, eliminating the need to burn sugarcane fields and improving air quality by reducing GHG emissions. All water intended for supplying the industrial park is treated and reused for irrigation. SVAA collaborated with The Nature Conservancy in a pilot program to identify priority land bank areas for conservation, enabling the protection and restoration of vital forests. The mill’s reforestation program, which helps offset emissions, operates a large nursery that grows indigenous plants to facilitate local reforestation and promote the proliferation of healthier sugarcane species. More than 1 million native tree seedlings have been planted to date, and the program is on target to plant a total of 2 million trees by 2019.
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.

Dow Named to Dow Jones Sustainability World Index for 15th Time
Dow was once again named to the Dow Jones Sustainability World Index (DJSI) as one of the top performers in the global chemical industry, marking the 15th time Dow has received this recognition since its launch. Dow is one of two of the longest-standing representatives in the chemical category since the list’s inception in 1999. With only 10 chemical companies named to the DJSI in 2015, Dow is proud to be recognized for sustainability performance in the top 10 percent of the chemical industry. Dow received a perfect score on the Climate Strategy and Customer Relationship Management sections. Dow’s recognition in the index reflects the Company’s science and technology leadership through an ongoing commitment to addressing pressing global challenges while driving profitable growth for investors. Read more.

DowGOL Fosters Best Practices Among Logistics Suppliers in Latin America
Dow recently held its 12th edition of the Dow Guiando, Observando, Liderando (DowGOL) supplier engagement initiative and awards in Brazil. The program began in 2001 to recognize the best logistics providers across the region and encourage the adoption of best practices. The criteria considered for recognition are safety, sustainability and operational performance. This year's event was attended by more than 200 participants from 50 logistics providers (transporters, warehouses, terminals and distributors). Of these suppliers, 28 were recognized for best practices. Future DowGOL events are scheduled in Mexico, Colombia, Chile and Argentina.

Dr. Robert Bellair Recognized as a 2015 NSC Rising Star of Safety
Dr. Robert Bellair, EH&S associate research scientist for Reactive Chemicals in the Analytical Technology Center in Freeport, Texas, was recognized as one of NSC’s 2015 “40 under 40” Rising Stars. The NSC presents these annual awards to individuals who demonstrate leadership and innovation through efforts to improve their organization’s safety culture. Bellair was recognized for his ability to lead a team of experts in a high-profile root-cause investigation of a serious incident. The results led every manufacturing and laboratory facility in the company to conduct a comprehensive evaluation of hazards and develop new solutions. Bellair assisted in developing guidelines and procedures to ensure each facility complied with these safety objectives. This is the third consecutive year that an individual from Dow has been recognized with this prestigious honor. Read more.

Energy-Saving Project Starts Up in Italy
Dow Italy announced the start-up of an energy-saving project to optimize consumption and reduce energy costs. The project was created through a partnership between Dow Italy and Bartucci SpA, a leader in the energy-efficiency field with environmental and sustainability expertise in industrial development. Energy evaluations were carried out at all Dow manufacturing plants in Italy, and 20 potential improvement projects were identified. The first project began at the Mozzanica site with the purchase and installation of an economizer to recover heat from the combustion fumes from the plant’s steam generator. Additional energy-saving projects are in progress at Correggio, Mozzate, Mozzanica, Fombio and Parona, which are expected to save more than $1 million Euros annually and generate energy-efficiency credits.

May Quan Ho Earns Distinguished Product Stewardship Leadership Award
May Quan Ho, product label compliance leader for Dow Asia Pacific, was recently presented with Dow’s Distinguished Product Stewardship Leader Award. This prestigious award is given to individuals who demonstrate sustained excellence in product stewardship. Ho became the 58th person to receive the award and only the second in Asia Pacific. Ho was nominated for the outstanding leadership and strong initiative she demonstrated during the implementation of the Globally Harmonized System in many countries across the region. The system unifies classification and labeling systems into one logical and comprehensive approach to defining the health, physical and environmental hazards of chemicals.

Texas Operations Named Clean Air Champion
Dow Texas Operations has been named a Clean Air Champion by the Houston-Galveston Area Council for its MetroSTAR shuttle program, which helps improve air quality in the Houston-Galveston area. Dow initiated the program earlier this year, providing a $130 subsidy to employees who use the vanpool service to commute to work. The program reduces the number of cars on the road, so there are both safety and environmental benefits. It supports Dow’s sustainability efforts by reducing air emissions from vehicles, while helping employees save time and money in the process.
Driving Solutions that Protect Energy Resources and Power Economic Growth

Dow’s innovation engine is driving energy solutions that meet society’s needs, enable global economic growth, and provide competitive advantage for the Company and our customers. As both a provider of energy solutions and technologies and a significant energy user, Dow is naturally invested in facilitating solutions for the overlapping issues of energy supply, feedstock security and climate protection. We have worked concertedly in this vital arena over the years – from our role as an early adopter of energy-efficiency programs in the 1990s, to our focus on reducing greenhouse gas (GHG) emissions in the 2000s, to our current work to expand the use of clean power.

Making Early Progress in Energy Efficiency
Dow was an early adopter of energy-efficiency programs. By engraining energy efficiency into the continuous optimization of our everyday processes, we were able to reduce Dow’s Energy Intensity (EI, measured in BTUs/lb) by 20% from 1990-1994, reaching 38% by 2005.

In 1995, we set out to minimize our own footprint as part of our 2005 Environment, Health & Safety (EH&S) Goals. Since 1990, we have saved over 6100 Trillion BTUs of energy.

Addressing Global Energy Challenges
In 2006, we built on our foundation of safety and efficiency to focus on providing more sustainable solutions for our customers. We understood that we needed to look beyond our fenceline to have a larger impact in addressing global challenges, including opportunities across climate change, energy efficiency and conservation.

As set forth in our 2015 Sustainability Goals, Dow’s goal is to maintain GHG emissions below 2006 levels on an absolute basis for all GHGs, thereby growing the Company without increasing our carbon footprint. In other words, we will find ways to grow our company but not grow our GHG emissions. We are making good progress: since 1990, Dow has prevented more than 200 million metric tons of GHG emissions from entering the atmosphere.

Redefining our Metrics
Due to the continuous transformation of Dow’s product portfolio, the Energy Intensity metric no longer serves as a reliable indicator for managing business, site, or corporate energy performance improvement. Dow’s specialty products portfolio increased as a result of mergers and acquisitions, which led to higher energy intensity per pound of product. The intent of the Energy Intensity Reduction Goal was to improve the efficiency with which energy is consumed in Dow’s manufacturing operations and thereby reduce overall energy spend and GHG emissions.

It was determined that we could best manage our corporate GHG footprint by an absolute emissions goal moving forward, for which we decided to redefine the goal in 2011 to better reflect these new realities. We also shifted our focus to the positive impact of our solutions to help our customers improve their footprint as well, and we are developing a tool to quantify the broader measure of GHG-related benefits realized within the value chain of all Dow products. From 2005-2015, Dow’s overall energy consumption dropped by 20%.

Looking ahead to 2025
As we continue to evolve in our sustainability journey, Dow is developing the Net Impact Tracking Tool to better understand and assess the full life-cycle benefits of our products. This tool will be used for tracking and reporting elements of our 2025 Sustainability Goals. For the 2025 Goal period, we will be tracking and reporting energy performance on the basis of the weighted average % improvement by each plant or facility. We also report regularly on a target to reduce our own footprint by growing the use of clean power to exceed 400 megawatts (MW) by 2025.

Energy is an enabler of global economic growth, and energy efficiency remains critical to meeting the world’s energy demands, conserving vital resources and protecting our planet. At Dow, our commitment to driving solutions in this critical area remains steadfast and forward-leaning, and we will continue to share our progress with stakeholders along the journey.
Products and Partnerships that Reduce Energy Use

Dow is one of the largest producers of innovative products that reduce energy use. We have developed building insulation applications, solutions for fuel-efficient vehicles, technology to enable wind power, and solar-energy systems designed for integration into building materials.

For example, Dow’s insulation products contribute to greater energy efficiency, helping avoid millions of metric tons of GHG emissions per year. In fact, our insulation products in service avert more than seven times the CO₂ emissions for all our own operations on an annual basis. One of the best examples is STYROFOAM™ Brand Insulation, which has resulted in a GHG emissions reduction in use that is greater than Dow’s entire footprint.

We are also making a difference through Dow’s Climate Solutions Framework for Events, which was first implemented to mitigate the direct carbon footprint of the Sochi 2014 Olympic Winter Games Organizing Committee. Leveraging its unique capabilities as the Official Chemistry Company of the Olympic Movement, and building on the great success of the Sochi 2014 program, Dow was selected by the Rio 2016 Organizing Committee as the Official Carbon Partner of the first Olympic Games in South America. Since September of 2014, Dow has been working with customers in Brazil and across Latin America to generate climate benefits and address the Games’ direct emissions through mitigation projects in the areas of food packaging, agriculture, industrial processes, and building and construction. The Company will implement energy-efficient and low-carbon emitting technologies within the region with the commitment to deliver 3rd party-verified primary climate benefits of 500,000 tons of CO₂eq to address the primary emissions of the Organizing Committee.

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.
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. Across the Company, these solutions 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. 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.

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 recently 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 Q1 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.

dow.com/sustainability
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 2013 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 do not expect to achieve 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. However, 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

At the end of 3Q 2015, 536 Product Safety Assessments (PSAs) were posted to Dow’s product safety website, with PSAs completed now accounting for 96% of Dow’s annual revenue. Additionally, all of Dow’s 179 High-Priority Chemicals are now covered by a PSA. Since 2Q 2014, the number of 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:

- Omega-9 Oils
- DOW FILMTEC™ ECO Reverse Osmosis Elements
- BETAMATE™ Structural Adhesives
- Lifebuoy® Soap (featuring POLYOX™ Water-Soluble Polymers)

2015 Goal

- Publish Product Safety Assessments for all products

2015 Goal

- Achieve at least three breakthroughs that will significantly help solve world challenges

dow.com/sustainability
Contributing to Community Success

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**KEY**

- Environment
- Economy
- Education
- Community Development

**Community Engagement, Community Improvement**

Dow is continuing its 10-year journey to enhance quality of life in communities where we have a major presence, with the culmination of the Contributing to Community Success process.

Our goal is that, by 2015, 100% of Dow’s selected manufacturing sites will achieve their own 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 will be actively engaged in implementing the “Contributing to Community Success” best practices in their respective communities.

The table to the left shows where each community viewed Dow’s rightful role in improving quality of life. Note that the majority of the communities identified environment, education and economy.

Community Improvement in Action

Dow has many global examples that demonstrate the impact of the Contributing to Community Success approach. The four listed below provide a glimpse into corporate efforts.

**Dow Partners with Youth Connection Project in Brazil**

The Youth Connection Project was launched in 2007 as a strategic partnership between Dow and Serviço Social da Indústria (SESI), a Brazilian non-profit that promotes social welfare and cultural development, and aims to improve the lives of workers and their families. Since its inception, the Youth Connection Project has impacted 300 adolescents ages 12 to 19. The project focuses on mobilizing youth through social interventions to enable local development and sustainable entrepreneurial initiatives.

The most recent training sessions taught basic and intermediate computer skills to 40 youths. These sessions prepare young professionals for the workforce and cultivate their leadership and entrepreneurial skills. Through this initiative, Dow hopes to enhance development in the Candeias, Brazil, area and strengthen the future workforce.

**Bringing the “Wow!” of STEM to Life – Dow Great Lakes Bay STEM Festival**

For two days, the Delta College campus in Midland, Mich., was electric with excitement, laughter, learning. 3,600 enthusiastic middle school students and 3,000 interested community members. The third annual Dow Great Lakes Bay STEM Festival is what attracted the crowd. Visitors watched shows and demonstrations, participated in games and experiments, won prizes and experienced the “wow!” of science, technology, engineering and math (STEM).

Headlining the festival once again was MindTrekkers, a team of students from Michigan Technological University who travel the country with a high-energy brand of STEM showmanship. They invite visitors to see and do a number of engaging things, including walking on water, creating ice cream in 60 seconds and making a magnet float. As a major event sponsor, Dow engages employees to play an important part in the festival, manning several displays and helping students put a personal face on STEM careers.

**Dow Asia Pacific Collaborates to Deliver Clean Drinking Water**

In its first Dow Sustainability Corps project in Asia, Dow China launched “Safe Water for Kids,” a project to ensure safe drinking water in rural Chinese schools. In partnership with the China Women’s Development Foundation, Dow donated water purification systems to four schools in the West Shaanxi Province, giving 2,000 students access to clean, safe and pure drinking water at school.

**Dow AgroSciences Harvests Produce for Local Food Pantries**

Through its Harvest for Hunger Garden, Dow AgroSciences (DAS) recently donated 5,000 pounds of fresh fruit and vegetables to local food pantries in Indianapolis from its own community garden. The garden was developed in collaboration with two DAS employee-led groups, the Hunger Solutions Network and the Lawn and Landscape Club. Members of both groups are passionate about tackling food insecurity in the Indianapolis community. Employees volunteer evenings and weekends to maintain the garden and harvest the produce.

**2015 Goal**

- Achieve individual community acceptance ratings of 100% of Dow sites where we have a major presence
Local Protection of Human Health and the Environment

Dow continues its intense focus on workplace safety as evidenced by metrics for 3Q 2015. The 3Q Injury and Illness rate was 0.17 per 200,000 hours of work, which is a 10% improvement compared to 2014. Meanwhile, the Injury and Illness Severity rate was 0.58 per 200,000 hours of work. This is 8% better than last year and on track toward the 2015 Goal of 0.67 per 200,000 hours. In addition, Dow experienced 120 Loss of Primary Containment (LOPC) incidents, which when annualized, is fewer than 2014. Process Safety Incidents (PSIs) remain significantly below the 2015 goal, and the Severe Motor Vehicle Accident rate also remains better than the 2015 target.

At the end of 3Q 2015, the Injury and Illness rate was 0.17 per 200,000 hours of work. This is a 10% improvement compared to 2014. The 2015 goal of 0.12 per 200,000 hours is a 75% improvement from 2005.

At the end of 3Q 2015, the Injury and Illness Severity rate was 0.58 per 200,000 hours of work. This is 8% better than 2014 and is on track toward the 2015 Goal of 0.67 per 200,000 hours. The 2015 goal is a 70% improvement from 2005.
At the end of 3Q 2015, the Company experienced 120 Loss of Primary Containment (LOPC) incidents. When annualized, the implied total of 160 would be a decrease from the 178 incidents experienced in 2014. The 2015 goal of 130 or fewer incidents is a 90% reduction from 2005.

At the end of 3Q 2015, the Company experienced eight Process Safety Incidents (PSIs). When annualized, the implied total of 11 which would be significantly below the 2015 goal. The 2015 goal is 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 3Q 2015, Dow experienced 15 Hazmat Transportation LOPC events, and one was classified as highly hazardous. The 2015 goal to reduce all Hazmat Transportation incidents to 14 or fewer is a 75% improvement from 2005.

At the end of 3Q 2015, the Severe Motor Vehicle Accident incident rate was 0.15 accidents per million miles driven, which remains better than the target for 2015. Severe Motor Vehicle Accident rate was not measured in the heritage Rohm and Haas Company. The 2007–2009 values represent the heritage Dow population.

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.

At the end of 3Q 2015, 448 million tonne-miles were shipped via road and rail. Annualized figures indicate that Dow would experience about 597 million tonne-miles shipped via road and rail. The 2015 Goal is to reduce these shipments to less than 705 million tonne-miles, which would be 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.