



2013  
*Sustainability*  
Summary



*Breakthrough* to World Challenges

# FILMTEC™ ECO Reverse Osmosis Elements

A Dow Breakthrough Reverse Osmosis Technology For One Of  
The World's Greatest Challenges: Water Scarcity





## Dow Names Breakthrough to Global Water Challenge

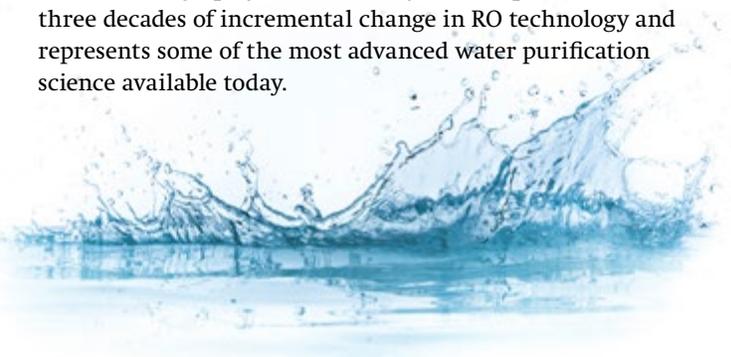
Water covers two-thirds of the earth's surface, yet fresh water is a scarce and limited resource. With just one planet and a growing population, Dow is committed to minimizing its own footprint and to delivering solutions that help customers and society do the same. As part of the Company's 2015 Sustainability Goals, Dow has set targets to introduce three "breakthroughs to world challenges."

Global water demand is expected to continue to grow exponentially by 2030, greatly outpacing supply. While consumers might experience limitations to household water consumption as a result of drought conditions, they may have less visibility to significant opportunities for water efficiency in the production of the goods and services they use every day. For example, it takes 2,867 gallons of water to make just one pair of jeans, or 39,090 gallons of water to manufacture a new car.

With large-scale, positive sustainability impact, the Company named DOW FILMTEC™ ECO Reverse Osmosis (RO) Elements as its second breakthrough technology. Fighting global water scarcity by helping to deliver 40 percent better purification with 30 percent less energy, this innovative solution has the potential to impact millions of lives by revolutionizing water treatment.

"As this new Dow technology is fully adopted, we anticipate it will deliver trillions of metric tons of clean water, billions of kilowatt-hours (kWh) of energy savings, and reduce carbon dioxide (CO<sub>2</sub>) emissions by more than a million metric tons in its first 10 years of use alone," said Neil Hawkins, corporate vice president of Sustainability at Dow. "This innovation will help deliver a more sustainable water supply to the world, addressing global water scarcity in a very tangible way."

Dow is uniquely positioned to help solve this global challenge, as its solutions are already processing more than 15 million gallons of water per minute around the world. With this market understanding, Dow scientists developed a breakthrough polymer chemistry that surpasses the last three decades of incremental change in RO technology and represents some of the most advanced water purification science available today.



# Letter from the CEO

Today, more than 7 billion people walk the planet. By 2050, that number is predicted to rise to 9 billion. So in today's – and tomorrow's – crowded world, the companies best positioned to succeed are the ones, like Dow, that recognize the Human Element at work in all we do.

What is the Human Element? It is that part of our work that meets the most basic human needs – needs as fundamental as the water we drink, the food we eat, the homes we live in and the energy we require.

Nearly a decade ago, Dow established our 2015 Sustainability Goals to help provide these essentials by working to solve some of the world's most pressing challenges. In the time since, we have made substantial progress, both by innovating at the intersections of all the sciences, and by collaborating at the intersection of business, government and society.

In market after market, Dow is applying our science, our technology, and our scale to create truly exciting, game-changing solutions – and making a positive impact on the world.

Take water, for example. Today, about one in seven people cannot access safe drinking water, but that is changing. After decades of incremental progress in reverse osmosis water purification technology, Dow's scientists have delivered a breakthrough innovation in efficiency and performance. DOW FILMTEC™ ECO Reverse Osmosis Elements yield 40 percent better water purification using 30 percent less energy. By helping to solve both sides of the energy-water equation, Dow is delivering clean and affordable water to the world.

Innovative approaches at Dow are also helping to drive a more sustainable society. In 2013, Dow received the U.S. EPA Presidential Green Chemistry Challenge Award for the development of EVOQUE™ Pre-Composite Polymer Technology, which helps reduce the environmental impact of paints – marking the ninth time that Dow and its affiliates have received this recognition. We recognized the forward-thinking engineer who, instead of building a new plant, helped design a constructed wetland to treat waste water at a Dow-owned site. We even deployed some of our most promising leaders to work with non-governmental organizations (NGOs) in Ghana on projects that address pressing community development needs.

As a Company, we have made substantial progress. But we also know that sustainability cannot be achieved in a vacuum.

In pursuit of global sustainable development, we must boldly unite to drive real change.

By coming together as businesses, we can enhance sustainability throughout the value chain. Dow participates in organizations like The Sustainability Consortium, which engages technology suppliers, brand owners and retailers – as well as NGOs, academia and industry organizations – in an effort to deliver more sustainable options to consumers.

By teaming up with governments, we can catalyze more rapid sustainable development. Dow actively works with government officials to identify the most pressing challenges facing the areas where we do business. For example, Dow collaborates with schools and educators to encourage STEM (science, technology, engineering and math) education to help ensure a sustainable workforce for both our Company and the communities we serve.

By collaborating with society at large, we can make progress in ways that benefit people around the planet. We are working with The Nature Conservancy to incorporate the value of nature into business decisions, and with 18 universities around the world to foster a sustainability mindset and interdisciplinary collaboration.

In this report, you will discover Dow's vision for a more sustainable future and a renewed commitment to the 10 principles of the United Nations Global Compact. You will also find the steps we are taking – within our own operations and through our solutions – and highlights of our progress along the way.

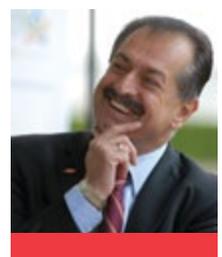
Operating at the intersections of all the sciences and society – between business and the Human Element – Dow is bringing solutions to the world.

Very few companies – of any kind – have a shot at helping solve great global challenges. We are proud to be one of them. And that means a strong future and more sustainable growth... for Dow and for the planet.

Sincerely,



**Andrew N. Liveris**  
Chairman and Chief Executive Officer  
The Dow Chemical Company



# 2013 Sustainability Overview



The year 2013 marked best-ever performance on many of Dow's 2015 Sustainability Goals, some consistently achieving results better than the 2015 target itself. We are discovering new opportunities through increased awareness of how the sustainability megatrends impact the economy. While we continued to experience macroeconomic headwinds in 2013, the Company continued to make significant improvement in almost all sustainability metrics. We remain focused on developing solutions to make the planet a good place to live for future generations while being responsible for economic, environmental and social dimensions of our pursuits.

## Highlights

- Best-ever performance on multiple Environment, Health and Safety (EH&S) Metrics: A comprehensive set of safety metrics is tracked and performance carefully scrutinized to help make Dow as safe a place to work as possible. We are nearing the ambitious 2015 performance targets on many metrics and two in particular continue to beat 2015 targets, several years early.
  - 7 Process Safety Incidents, a significant improvement over an excellent performance of 16 in 2012; beating the goal for the year 2015 (20)
  - 0.14 Severe Motor Vehicle Accident rate; beating the goal for the year 2015 (0.28)
- Dow was honored for its leadership in the chemical process industry and received a 2013 Chemical Engineering & ChemInnovations Award for the Dow Lab Safety Academy, an online learning environment that leverages Dow's best-in-class safety practices.
- 100+ University of Michigan scholars engaged in the Dow Sustainability Fellows Program, which launched in 2012 and fosters interdisciplinary collaboration on sustainability.
- Dow received its 9th EPA Recognition for Green Chemistry Innovation for the development of EVOQUE™ Pre-Composite Polymer Technology.
- At the halfway point in the six-year Collaboration, Dow and The Nature Conservancy (TNC) have made significant progress, and we are proud to highlight the 2013 [Dow/TNC Annual Progress Report](#).

## Challenges

- During 2013, Dow continued to face a challenging business environment with ongoing, persistent headwinds in Western Europe and hesitant growth in other geographic areas. In this uncertain economic environment, the Company remained committed to its strategy – implementing cost and cash flow actions, which gained momentum as the year progressed; liberating and deploying cash to enhance the Company's capital structure and reward shareholders; and investing in strategic projects focused on long-term sustainable growth. The Company also paid down debt, continued to maintain a strong liquidity position and rewarded shareholders through dividends and share repurchases.
- The Energy Intensity performance of the company has lagged behind our 2015 goal due to the profile of Dow's operations. It is clear that the 2015 Energy Intensity goal will not be achievable.
- Strong, coherent energy policy sets the foundation for helping countries overcome some of the world's most pressing challenges. Too often, one side of the debate focuses solely on fossil fuels, while the other focuses on renewables and alternatives. This is a false choice – we need both. Meeting the world's need for clean, sustainable, affordable and abundant energy will require getting beyond partisanship and self-interest.

## Strong Environmental, Health and Safety Progress:

Safety dimension	Improved vs 2012	
Personal injury rate	<b>10% less frequent</b>	
Injury severity	<b>4% less severe</b>	
Process Safety	<b>56% less, 7 in total, significantly better than 2015 target</b>	
Severe motor vehicle accident rate	<b>36% less, significantly better than 2015 target</b>	
Leaks at manufacturing sites (Loss of Primary Containment)	<b>17% fewer</b>	

# Year-end Update on 2015 Sustainability Goals

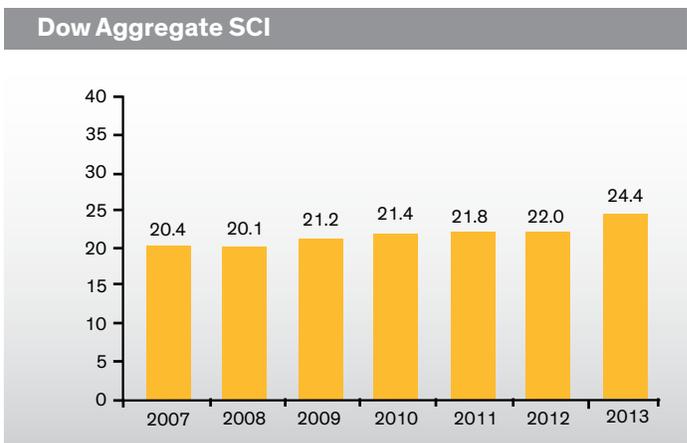
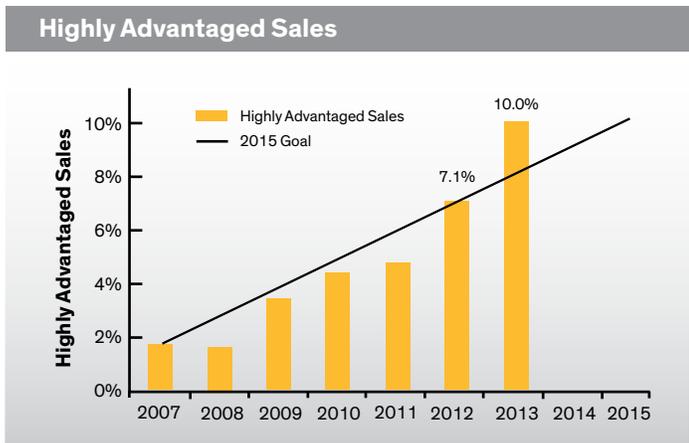
## Sustainable Chemistry

The 2015 Goal for Sustainable Chemistry is to increase the percentage of total Company sales to 10% for products that are Highly Advantaged by Sustainable Chemistry, as measured by Dow's Sustainable Chemistry Index (SCI). Sustainable Chemistry is Dow's "cradle-to-cradle" concept that drives the Company to use resources more efficiently, to minimize its footprint, provide value to its customers and stakeholders, deliver solutions for customer needs and enhance the quality of life of current and future generations. The SCI is an internal index based on Dow's analysis of eight sustainability factors of the Company portfolio at a detailed level and is updated annually. In 2013, the percentage of sales from Dow products that are Highly Advantaged by Sustainable Chemistry increased from 7.1% to 10.0%. Most of the 2012 Highly Advantaged sales remained highly advantaged for 2013, and as a group their sales grew faster than the Company. New Highly Advantaged sales were achieved due to improved manufacturing efficiency and opportunities realized in areas of agriculture, water, automotive, infrastructure, energy, and consumer products.

In 2013, the Company's aggregated SCI increased from 22.0 to 24.4. All index factors were improved from 2012 performance, except resource management which remained the same. The SCI continues to be an important point of discussion during business strategy reviews, as business interest and engagement around sustainability continues to increase and deepen across Dow's portfolio.

*2015 Goal*

- Increase the percentage of sales to 10% for products that are Highly Advantaged by sustainable chemistry



## Breakthroughs to World Challenges

Each individual's global water-energy "splashprint" is much higher than most people think. Consider that it takes 2,867 gallons of water to make one pair of jeans or 1,500 gallons to make a desktop computer. The 2030 Water Resources Group reports that by 2030, global water requirements are expected to grow by 50 percent, and analysts are predicting that available water supplies will satisfy only 60 percent of demand.

Dow recognized that two critical needs – clean water and on-demand energy – are intimately intertwined and developed breakthrough polymer chemistry that is the most advanced water purification science available today.

*2015 Goal*

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

Recently, Dow named DOW FILMTEC™ ECO Reverse Osmosis (RO) Elements as its second breakthrough technology. Why is it a Breakthrough? To significantly impact water security, any solution needs to address both water purification and the energy required to treat the water – and the product helps to deliver manufacturers 40 percent better water purification while using 30 percent less energy.

The announcement marked another milestone in delivering three Breakthrough to a World Challenge solutions as part of the Company's 2015 Sustainability Goals. The technology was also recently recognized with a Bronze Edison Award in the Energy/Sustainability and Commercial Resource Management category. The first breakthrough technology, Omega-9 healthy oils, was announced in 2012.

We have a robust pipeline of candidates for further Breakthroughs to meet our goal, and look forward to announcing more Breakthroughs as they meet the criteria.



## Addressing Climate Change

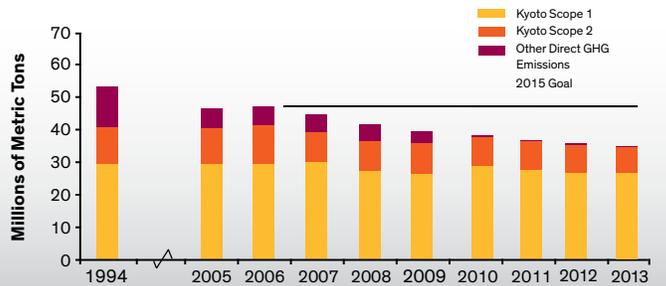
Dow's goal is to maintain greenhouse gas (GHG) emissions below 2006 levels on an absolute basis for all GHGs, thereby growing the Company without increasing our carbon footprint. Dow will continue to focus on managing Dow's footprint and providing solutions to reduce GHG emissions and save energy. For example, Dow's insulation products contribute to greater energy efficiency, helping avoid millions of metric tons of GHG emissions per year.

Dow is now regularly reporting on a target to grow the use of clean power to exceed 400 megawatts equivalents by 2025. At the end of 2013, Dow has approximately 245 megawatts that are either low carbon or from renewable sources. Additionally, Dow has identified future prospects that could yield as much as more than 240 megawatts of clean power. This goal is helping the Company pursue opportunities to incorporate economically-viable, clean-technology energy alternatives into its operations. Examples of projects that help increase Dow's clean power portfolio include:

- Dow's Pittsburg, California, facility utilizes solar energy to supply a portion of the facility's power
- Electricity from recaptured landfill gas being used as a partial source of power to Dow's Midland, Michigan, headquarters
- Dow's Candeias, Brazil, facility uses eucalyptus biomass as a fuel source for steam generation

We will continue to quantify the impact of our products both in the supply chain, before Dow operations, and during the use phase by our customers and ultimate end users. This

### Absolute Greenhouse Gas Emissions as CO<sub>2</sub> Equivalent

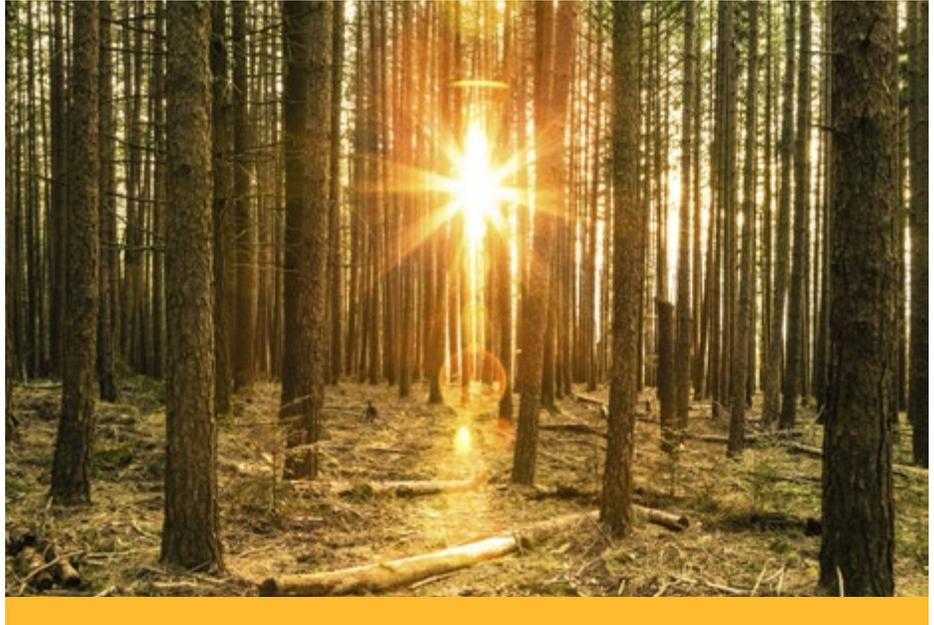


assessment is being accomplished with an Impact Tool that quantifies the energy and GHG profile of products and helps convey the benefits by communicating a ratio of burden compared to benefit. For example, we report in EN17 in [Dow's 2013 Sustainability Report](#) that the ratio of benefit throughout the life of the line of STYROFOAM™ Insulation is seven times the GHG emissions involved in the manufacturing and construction phases of making a homes and other applications more energy efficient.

Dow has reported to the Carbon Disclosure Project (CDP) since 2003. The CDP is a not-for-profit organization working to understand the risks and to drive GHG emissions reduction from business. In 2013, Dow reported on its 2012 Greenhouse Gas (GHG) performance and commitment to providing solutions for the climate change challenge. The report scored 90 out of a possible 100 points. This excellent result highlighted Dow's commitment to strong governance and complete disclosure through transparent emissions reporting.

Dow's energy efficiency and chemicals management efforts have significantly reduced the Company's GHG emissions footprint. As a result, Dow has prevented over 308 million metric tons of GHG emissions from entering the atmosphere since 1990. The energy savings and avoided GHG emissions are equivalent to the average footprint of more than 48 million single-family homes.

More information about addressing climate change is found in [Dow's 2013 Sustainability Report](#).



## 2015 Goal

- **Maintain absolute greenhouse gas emissions below 2006 levels**
- **Use 400 MW of clean energy by 2025**

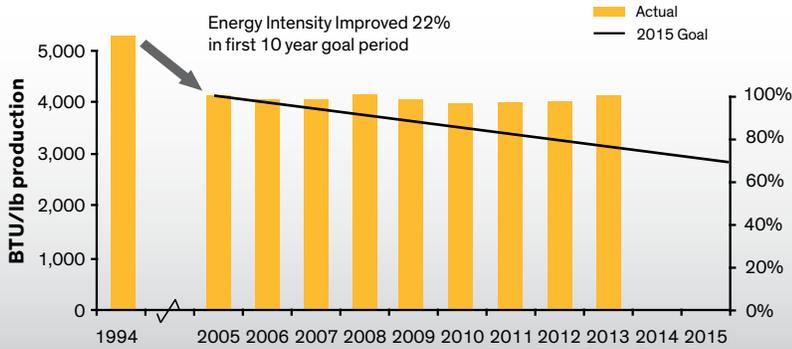
### Energy Efficiency and Conservation

Related to Dow's absolute GHG metric added in the first quarter of 2012, Dow is developing a Net Impact Tracking Tool.

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

The Company's manufacturing energy intensity, measured in BTU per pound of product, has improved about 40 percent since 1990, saving the Company 5,829 trillion BTUs. The energy savings and avoided GHG emissions are equivalent to the average footprint of more than 48 million single-family homes. Since 2005, annual absolute energy use has been reduced by 112 trillion BTUs. The Company's cumulative savings since 2005 is about \$400 million. Dow's portfolio transformation, coupled with global economic conditions, has impacted the scale and speed of anticipated energy intensity reductions. Dow expects additional energy efficiency progress from in-flight projects that will see results after 2015.

## Energy Intensity Performance 1994–2015



Between 1990 and 2005, the Energy Intensity (BTU/lb) of global operations was improved by 38%. By 2015, Dow has a goal to achieve an additional 25% improvement. The average Energy Intensity of year 2005, adjusted for mergers and acquisitions, is the basis for calculating performance against this target. Dow's goal for Energy Intensity for the full year of 2013 is 3,323 BTU/lb, or 80% of the value in 2005. Dow's actual performance in 2013 was 4,153 BTU/lb, which is 99.96% of the 2005 baseline.

For more information on this and other Dow Energy initiatives visit: [www.dow.com/energy](http://www.dow.com/energy)

### 2015 Goal

- Reduce our energy intensity 25% by 2015 – from a 2005 baseline

## Product Safety Leadership

At the end of 2013, 526 Product Safety Assessments (PSAs) had been posted to Dow's product safety website.

Dow's published Product Safety Assessments now cover products accounting for over 89% of Dow's annual revenue.

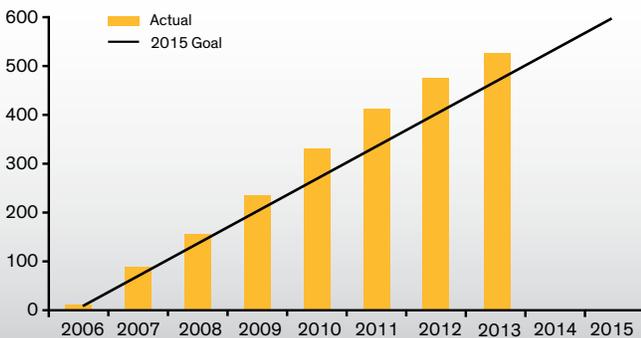
Additionally 100% of Dow's 216 High Priority chemicals are now covered by a PSA. We are on track to meet our 2015 Goal to have a Product Safety Assessment publically available for applicable Dow products.

PSAs are written for the lay public and cover topics such as basic hazards, exposure potential and risk management measures. They complement other product safety, handling and stewardship documents, which are part of the product responsibility package offered by Dow to strengthen relationships with communities and customers. Dow is dedicated to providing the public with accurate information and building trust as it uses 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.

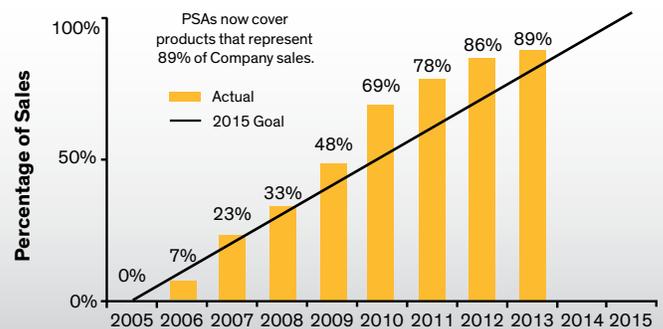
### 2015 Goal

- Publish Product Safety Assessments for all products by 2015

## Cumulative Product Safety Assessments



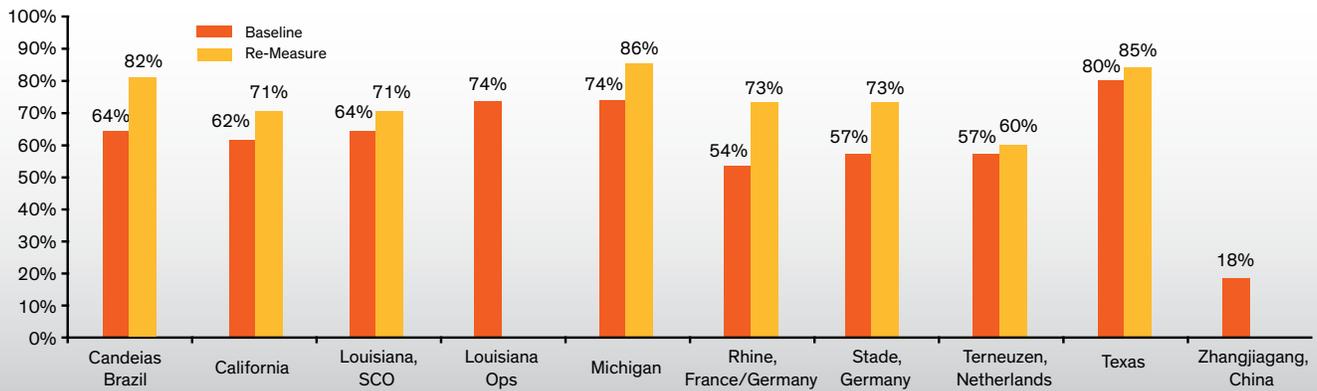
## Sales Covered by Assessments



## Community Success

2014 will be an important year for the Contributing to Community Success process, as Dow engages three sites in remeasures of community awareness of Dow's programs and formally launches the Community Success Process Guide. This and other activity will lead us strongly into the culminating year for our 2015 Sustainability Goals. Since the last report, a remeasure has taken place in Candeias, Brazil, and Plaquemine, Louisiana, both showing positive progress toward their goals. Plans are currently underway to remeasure Zhangjiagang, China, by the third quarter, 2014. To date, nine of 10 major Dow sites have completed their remeasures, all showing positive improvement on the important "Quality of Life" aspect. An internal launch of the Community Success Process Guide also took place in early 2014 in an effort to engage more Dow sites in implementing this successful method of collaborating with our communities for positive results. The table shows global site progress to date.

### Community Acceptance Ratings



Dow's Community Success Process Guide and instructional video will be formally launched in 2014. These resources outline the steps needed for any Dow site to implement a robust Community Success process, regardless of its location, size or reach. The Guide is available now on the intranet to all Dow sites.

#### 2015 Goal

- Achieve individual community acceptance ratings for 100% of Dow sites where we have a major presence

## Local Protection of Human Health and the Environment

In our 10-year goal period from 2006 to 2015, we have challenged ourselves to achieve breakthrough improvements in traditional Environmental Health and Safety metrics. We are building upon the improvements accomplished in the 1995-2005 Dow goal period. For three improvement goals, we have already achieved a performance superior to our target for the end of the goal (2015).

Additional Local Protection of Human Health and the Environment metrics are reported starting on page 64 in [Dow's 2013 Sustainability Report](#).

2015 Goal

- Achieve on average a 75% improvement in key indicators for Environmental, Health & Safety operating excellence from a 2005 baseline

Key Performance Metric	2013 Actual	2012 Actual	Reduction over 2012	Comment
Process Safety Incidents	7	16	56%	Best-ever year and outperformed the 2015 Goal target of 20.
Severe MVA Rate (accidents per million miles)	0.14	0.22	36%	Best-ever year and outperform the 2015 Goal target of 0.28.
By-product Synergy	322	312	NA	Outperformed the 2015 Goal target to exceed 300 million lbs. The 2015 goal was met in 2011 (four years early) and continues to increase.
Injury/Illness Rate All Reportable Incidents (per 200,000 hours of work)	0.19	0.21	10%	There were 187 people hurt (Dow Employees and Contractors) in 2013, 18 fewer than the year before. The non-fatal Injury/Illness rate for U.S. Manufacturing in 2012 was 4.3, which is 36 times higher than Dow's 2015 Goal of 0.12.
DAWC Days Away from Work Cases (per 200,000 hours of work)	0.042	0.047	11%	We reduced more serious incidents where the injury caused the employee to miss work by 11%
Leaks at manufacturing plants (Leaks, Breaks, Spills)	185	223	17%	We are on track towards the 2015 Goal of 130 or fewer incidents, which is a 90% reduction from 2005.
Leaks of Hazardous Material (During Transportation)	25	25	0%	When we started reporting on this goal in 2005, there were 56 annual events. Reduction improves safety and reduces the risk to the environment.

Find information about our ongoing implementation of the 2015 Sustainability Goals each quarter at our [Reporting Center](#).

Dow's 2015 Sustainability Goals are managed by the Sustainability Program Management Office (PMO), providing annual updates on progress to the Sustainability Team and the Environment, Health, Safety and Technology (EHS&T) Committee of the Board of Directors. The Sustainability PMO reports to Neil Hawkins, Corporate Vice President, Sustainability.

# Sochi 2014's Direct Carbon Footprint Mitigated before Opening Ceremony



The Sochi 2014 Olympic Winter Games is the first Games in history to mitigate the entire direct carbon footprint of its Organizing Committee prior to the Opening Ceremony. Sochi 2014 announced on February 4th that over 520,000 metric tons (MT) of CO<sub>2</sub> equivalents had already been mitigated before the start of the Olympic Winter Games through the “Sustainable Future” program, implemented in Russia by Dow, Worldwide Olympic Partner and Official Carbon Partner of Sochi 2014.

Since March 2013, Dow has been working with its customers in Russia to implement energy efficient and low-carbon technologies in the areas of infrastructure, industry and agriculture within different regions of the country. The greenhouse gas (GHG) emissions reductions delivered to date by the groundbreaking “Sustainable Future” program have been verified to have far exceeded the estimated direct carbon footprint of 360,000 MT of CO<sub>2</sub> equivalents of the Sochi 2014 Organizing Committee. This includes emissions associated with the travel and accommodation of athletes, staff, and volunteers, the operation of the sports venues during Games time, and the Organizing Committee’s activities from 2007 through the Paralympic Games’ Closing Ceremony.

Sochi 2014 is also the first Olympic and Paralympic Winter Games with a neutral carbon footprint associated with the travel of spectators and media attending the event. This footprint was estimated to be 160,000 MT of CO<sub>2</sub> equivalents. Dow worked with

international experts Offsetters to offset the travel footprint by retiring carbon credits from a portfolio of high-quality projects from Russia, Brazil and South Korea – Host Territories of the next three Olympic Games – and a project implemented by Dow at one of its manufacturing facilities in the United States.

Dow products and innovation also played key roles to improve sustainability and performance in competition venues, infrastructure and re-engineered team equipment including:

- The Bolshoy Ice Dome which relied upon on DOWCAL™ Heat Transfer Fluids, WALOCEL™ Products, industrial coatings, ENDURANCE™ Semiconductive and Insulation Materials and SPECFLEX™ Polyurethane Systems.
- The Sanki Sliding Center which relied upon POLYOX™ Water-Soluble Resins, PRIMAL™ Acrylic Resin, epoxy resins, and ENDURANCE Semiconductive and Insulation Materials.
- Dow solutions enabled infrastructure improvements in Sochi and around the region, with products and technologies used in the Coastal and Mountain Clusters, city hotels, power plants and railways.
- Dow applied its products and world-class engineering capabilities to improve equipment and develop a new and improved sled for the USA Luge Team.



# Sustainable Future

To mitigate the emissions of the Sochi 2014 Olympic Winter Games, Dow, in partnership with Sochi 2014 Organizing Committee and its customers, has undertaken an ambitious program that has offset these emissions, and more importantly will leave an enduring legacy of low carbon solutions in Russia.



**sochi.ru 2014**  
WORLDWIDE PARTNER

**MINIMAL CLIMATE IMPACT**

**ORGANIZING COMMITTEE FOOTPRINT**  
of 360,000 tons of CO<sub>2</sub> equivalent



**SPECTATORS AND MEDIA TRAVEL FOOTPRINT**  
of 160,000 tons of CO<sub>2</sub> equivalent

## Promote Growth and Sustainability

### MITIGATION OF TRAVEL EMISSIONS

THIS IS THE FIRST GAMES TO OFFSET CLIMATE IMPACT BY SPECTATOR & MEDIA TRAVEL.



This partnership has mitigated emissions of the Games, totaling

**520,000**  
tons of CO<sub>2</sub> equivalent

Multyear Commitment

### WEATHERIZATION OF HOMES

Construction

WITH COLD TEMPERATURES IN THE RUSSIAN WINTER, POOR INSULATION RESULTS IN A GREATER CONSUMER NEED FOR HEAT, RESULTING IN HIGHER EMISSIONS.



Through a partnership between Dow and Profflex, a new tailor-made foam insulation solution helps Russian homes improve efficiency by maintaining heat and reducing emissions.



In turn, this also creates awareness with the public on how to save energy and emissions.

### SUSTAINABLE FARMING

Agriculture

WITH A MASSIVELY GROWING OIL & SEEDS MARKET IN RUSSIA, MORE SUSTAINABLE FARMING TECHNIQUES PROMOTE FUTURE SELF-RELIANCE.



Dow provides training and consultation services to local farmers.



Dow also provides seeds that enable more sustainable farming practices and healthier oils for consumers.



Farmers produce sunflower and canola oils that can be used in local retail and food service. Reduced impact on the environment, producing healthier foods and sparking local business.

### IMPROVING STRUCTURAL INTEGRITY

Infrastructure

OLDER STRUCTURES REQUIRE MORE SERVICE AND CONTRIBUTE TO HIGHER EMISSIONS

Integrating carbon fiber composites into infrastructure solutions result in longer service lives, less construction, maintenance and demolition waste, plus improved operations-related emissions.



Through this program, Dow is aiming to stimulate wider use of carbon fiber across Russia to enhance infrastructure with low carbon solutions.

# Awards and Recognitions during 2013

Dow consistently receives recognition from customers, industry trade groups, non-governmental organizations, government regulatory agencies and the news media for the Company's best practices and performance in sustainability and environmental, health and safety. The following awards are a sampling of the recognition earned by Dow in 2013.

## 1Q 2013

- Dow India's Jaipur Foot initiative won the ET Now World CSR Awards 2013 for the Best Innovation in corporate social responsibility (CSR)
- Dow's Riverside site in Pevely, MO, received the World Bird Sanctuary's Marlin Perkins Conservation Organization of the Year award in recognition of Dow's strong commitment to fostering programs and educational initiatives that instill the importance of environmental preservation and water conservation

## 2Q 2013

- The collaboration on valuing ecosystem services between Dow and The Nature Conservancy (TNC) won the 2013 Roy Family Award for Environmental Partnership, presented by the John F. Kennedy School of Government at Harvard University
- Dr. Jerzy Klosin was awarded the 10th annual SCI Gordon E. Moore Medal by the Society of Chemical Industry
- Kaustav Sinha was awarded the 2013 Stefan Pischinger Young Industry Leadership Award by the Society of Automotive Engineers
- Dow was honored with the 20th Anniversary Partnership Award from Junior Achievement China for its ongoing dedication and support for sustainability education
- Dow received the membrane products award for FILMTEC™ ECO Reverse Osmosis Elements at the opening ceremony of Aquatech China 2013
- PRIMAL™ Stain-Resistant Acrylic Emulsion recently received the 2013 Ringier Technology Innovation Award for the Coatings Industry
- For the 5th consecutive year, Dow was the recipient of the 2012 TRANSCAER® National Achievement Award as a result of the Company's commitment to safety and security
- Dow's efforts to bring employees, community and government stakeholders together to collaborate on more holistic approaches to water management were recognized with a 2013 Texas Environmental Excellence Award

- Dow received the first-ever Responsible Care® Chairman's Award in China presented by the Association of International Chemical Manufacturers
- The annual Chemical Industry Association Awards recognized Dow Formulated Systems' mercury replacement program with finalist status in two of its most competitive categories – Environmental Leadership and Innovation

## 3Q 2013

- Dow was honored for its leadership in the chemical process industry, receiving a 2013 Chemical Engineering & ChemInnovations Award for the Dow Lab Safety Academy, an online learning environment that leverages Dow's best-in-class safety practices
- Dr. Neil Hawkins, corporate vice president of Sustainability, was recognized as one of the "Top 30 Most Influential Sustainability Voices in America" on Twitter by The Guardian Sustainable Business
- Dow was recognized by Unilever at the annual "Partner to Win Supplier Summit" in Singapore with the 2013 "Winning through Innovation" Award for innovative performance ingredients from its Personal Care portfolio
- Dow was honored with the "20th Anniversary Partnership Award" from Junior Achievement China, the world's largest nonprofit educational organization
- R&D Magazine recognized EVOQUE™ Pre-Composite Polymer Technology from Dow Coating Materials as a Top 100 technology product of the year in the publication's annual R&D 100 Awards
- Dow was named China's top membrane component and module brand in the 2012–2013 User Satisfaction Award in the Sewage Treatment Plant Equipment Category
- Louisiana Economic Development honored St. Charles Operations with one of eight Lantern Awards for excellence in manufacturing and outstanding service to the community

- Dow Automotive Systems was named a Supplier of the Year by Renault for sustainability and corporate social responsibility
- The National Safety Council appointed David Kepler, Dow executive vice president of Business Services, chief sustainability officer, and chief information officer, to serve on its Board of Directors
- Jeff Kozub, EH&S Expertise manager of the Personal Safety Expertise Center, was selected as a National Safety Council 2013 Rising Star

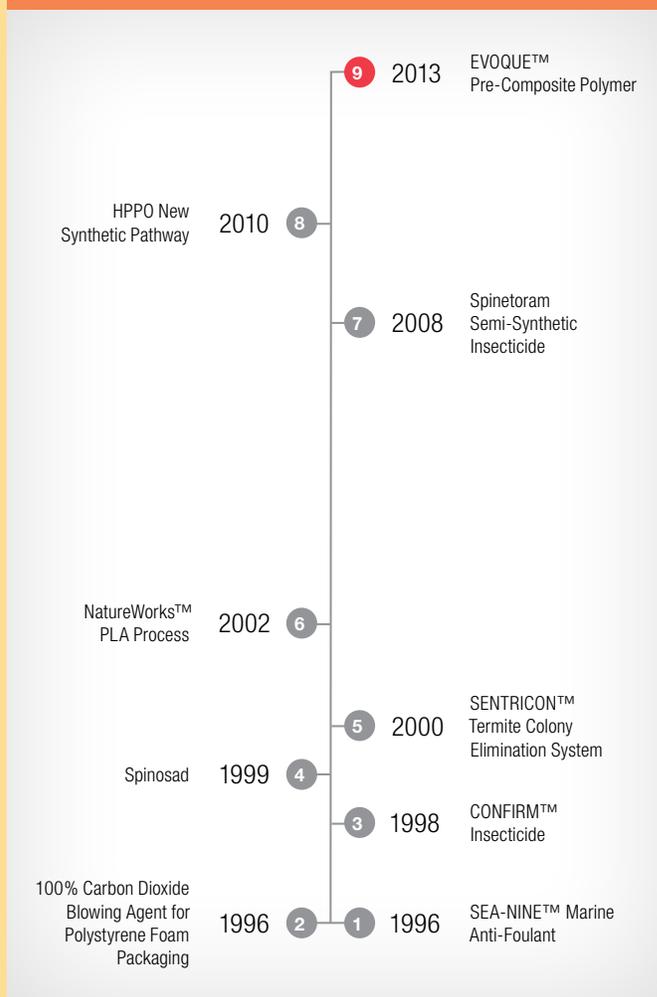
#### 4Q 2013

- Dow was named for 13th time to Dow Jones Sustainability World Index and received the Bronze Class distinction for its excellent sustainability performance
- Dow received its 9th U.S. Presidential Green Chemistry Challenge Award for the development of EVOQUE™ Pre-Composite Polymer Technology
- Dow was recently honored with the China Sustainable Package Technical Award for its winning product SARAN™ MA XUS 32019.10L
- Dow was recently honored by the Human Rights Campaign (HRC) for achieving a 100 percent rating on its corporate equality index
- Dow became the first enterprise whose parent company is headquartered outside of Taiwan to receive the Green Factory Label awarded by the Ministry of Economic Affairs for practicing sustainability at its Hsinchu facility, and for its commitment to green operations in Taiwan
- Dow was honored twice at the 4th Oil and Gas Middle East Awards, winning “Best International Collaboration” for Sadara Chemical Company (Sadara) and “Corporate Social Responsibility Project of the Year” for the Dow Marine Conservation Program (DMCP) in Kuwait
- Dr. Shawn Hunter, Sustainability and New Business Development leader, was honored with the University of Michigan Recent Engineering Graduate Award for his outstanding contributions for the integration of engineering, life cycle assessment (LCA) and sustainability into commercial business opportunities
- Dow was honored at California’s largest industry sponsored environmental conference as a winner of the 2013 Environmental Excellence Award

- The National Technical Institute for the Deaf (NTID) recognized Dow for consistently hiring students and graduates with its Outstanding Employer Partner Award
- Dow AgroSciences received the Demeter Award of Excellence in the category of Company of the Year from the organization Women in Agribusiness

More information is provided at Awards and Recognitions on [www.Dow.com](http://www.Dow.com)

#### Dow and its affiliates’ winning history of sustainable innovation



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