



# Redefining the Role of Business in Society.

Sustainability is our commitment. This is how our employees make it happen.

**#DOW2025**

# Dow's Sustainability Journey

## Blueprint

Dow's Thought, Leadership and Action

## Handprint

Product Solutions to World Challenges

## Footprint

World-leading Operations Performance



Dow's Sustainability Journey



# 2005 EH&S Goals Delivered Significant Results

## EH&S Improvements



Reduced solid waste by **1.6 billion** pounds



Waste savings could have filled **415** football fields 1 meter deep



Saved **900 trillion** Btu of energy



Energy savings could have powered **8 million** single-family homes for a year



Reduced water use by **183 billion** pounds



Water savings could have served **170,000** homes for a year



Injury & illness rate reduced **84%**



**>10,000** fewer injuries due to enhanced focus on safety

## Economic Savings

From energy efficiency (>\$4B) and avoided costs



Invested **\$1 billion**



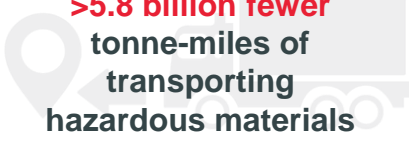


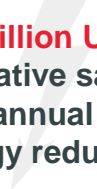





Saved **\$5 billion**



# The 2015 Sustainability Goals Also Delivered Tremendous Value to Dow

- 25% of 2015 sales (\$12B) from products highly advantaged by sustainable chemistry
- Four “Breakthroughs to World Challenges”

 <p><b>&gt;8,000 fewer spills</b></p>	 <p><b>400 fewer process safety incidents</b></p>	 <p><b>&gt;5.8 billion fewer tonne-miles of transporting hazardous materials</b></p>
 <p><b>&gt;234 fewer hazardous materials transportation spills</b></p>	 <p><b>&gt; 1,500 fewer injuries due to enhanced focus on safety</b></p>	 <p><b>472 million USD in cumulative savings through annual absolute energy reduction</b></p>
 <p><b>Published 510 product safety assessments covering 99% of Dow’s annual revenue</b></p>	 <p><b>25% increase in average Community Acceptance Ratings for all Dow sites surveyed</b></p>	 <p><b>Named 16 times to Dow Jones Sustainability Word Index</b></p>

# ■ Together, the 2005 and 2015 Goals Are Responsible for Significant Returns

Combined Economic Savings

**\$6 Billion**

# 2025 Sustainability Goals



## Leading the Blueprint

Dow leads in developing societal blueprints that integrate public policy solutions, science and technology and value chain innovation to facilitate the transition to a sustainable planet and society.



## Delivering Breakthrough Innovations

Dow delivers breakthrough sustainable chemistry innovations that advance the well-being of humanity.



## Advancing a Circular Economy

Dow advances a circular economy by delivering solutions to close the resource loops in key markets.



## Valuing Nature

Dow applies a business decision process that values nature, which will deliver business value and natural capital value through projects that are good for the company and better for ecosystems.



## Safe Materials for a Sustainable Planet

We envision a future where every material we bring to market is sustainable for our people and our planet.



## Engaging for Impact: Communities, Employees, Customers

Dow people worldwide directly apply their passion and expertise to advance the well being of people and the planet.



## World-Leading Operations Performance








Dow maintains world-leading operations performance in natural resource efficiency, environment, health and safety.



# Dow's 2025 Sustainability Goals Mapped Against United Nations Sustainable Development Goals

## SUSTAINABLE DEVELOPMENT GOALS



	 Leading the Blueprint	 Delivering Breakthrough Innovations	 Advancing a Circular Economy	 Valuing Nature	 Safe Materials for a Sustainable Planet	 Engaging for Impact: Communities, Employees, Customers	 World-Leading Operations Performance
1		●			●	●	
2		●			●		
3		●		●	●		●
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# World-Leading Operations Performance in EH&S and Efficiency

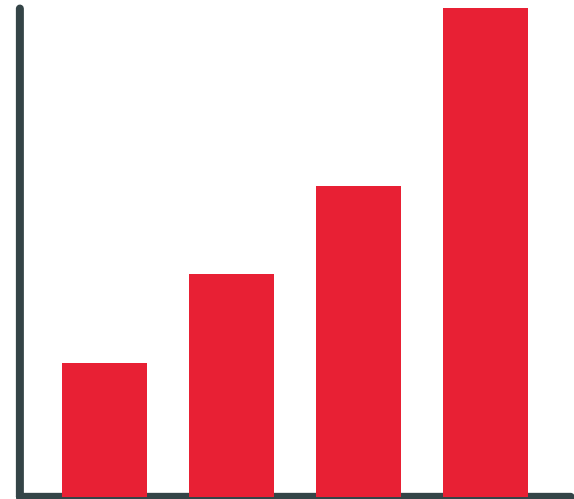
Dow maintains world-leading operations performance in natural resource efficiency, environment, health and safety.

Dow will strive for zero unplanned safety and process safety events

100% health rating

10% improvement in resource efficiency

20% reduction in water intake



## Alignment to UN SDGs





# World-Leading Operations Performance



The passion and creativity of people drives innovation at the intersection of the sciences, generating value for business, humanity and the environment.

Our Goal is to maintain world-leading operations performance in natural resource efficiency, environment, health and safety.

1. Dow will strive to eliminate fatalities, significantly reduce severe injury and illness incidents, and maintain the total recordable injury and illness rate at industry-leading levels.
2. Dow will strive to eliminate all process safety events that impact our people, our communities and the environment.
3. Dow will strive to eliminate all preventable MVA fatalities.
4. Dow will have a Total Worker Health (TWH) implementation that comprehensively controls workplace health risks, protects workers and improves the health of Dow people (Healthy Culture, Healthy Workplace, Healthy People).
5. Dow will demonstrate a 50 percent improvement in a Transportation Stewardship Index through progress in incident-free performance, leading-edge programs to influence logistics and raw material suppliers, and risk reduction across the value chain.
6. Dow will strive to eliminate severe transportation incidents that impact people, property and the environment in the communities through which our products, raw materials and intermediates flow.
7. Dow will improve raw material efficiency utilization index by 10 percent relative to the 2015 baseline.
8. Dow will achieve 1 percent per year average increase in production index from our most-utilized facilities from the 2015 baseline.
9. Dow will reduce the freshwater intake intensity at key water-stressed sites by 20 percent.
10. Dow will reduce its waste intensity footprint by 20 percent.
11. Dow will grow, but offset emissions of priority compounds, volatile organic compounds (VOCs), and nitrogen oxides (NOx).
12. Though we will grow globally over the next 10 years, Dow's absolute greenhouse gas emissions will not exceed our 2006 baseline.
13. Dow will obtain 750 MW of its power demand from renewable sources by 2025.



# Engaging for Impact: Communities, Employees, Customers

Dow people worldwide directly apply their passion and expertise to advance the well-being of people and the planet.

10% of our workforce will participate in STEM education programs and positively impact 100,000 teachers and 500,000 students

Employee volunteers will complete 750 sustainability projects globally

Positively impact more than 1 billion people worldwide



## Alignment to UN SDGs



# Engaging for Impact: Communities, Employees, Customers



The passion and creativity of people drives innovation at the intersection of the sciences, generating value for business, humanity and the environment.

By 2025, Dow employees worldwide will apply their talents to positively impact the lives of 1 billion people.

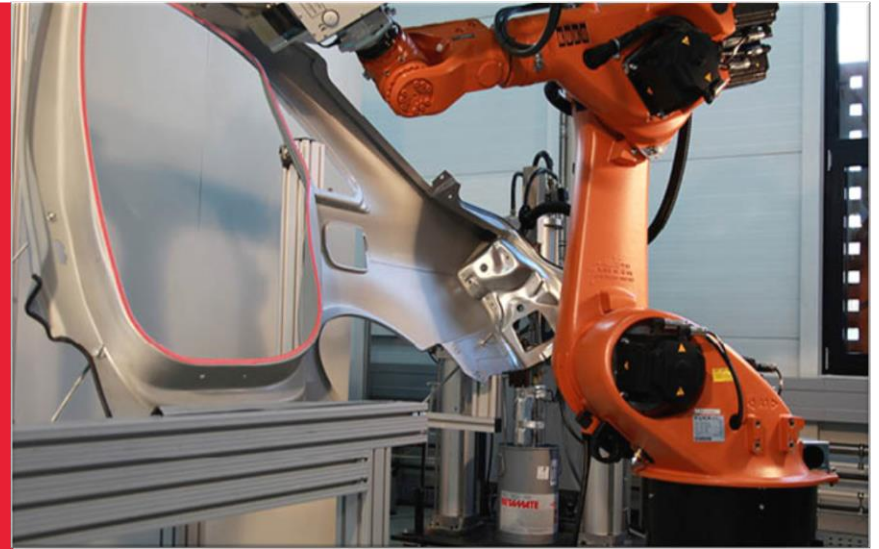
1. Dow will positively impact people's lives through DowCorps, delivering 750 skill-based projects and achieving 50% global work force engagement and 1MM volunteer hours.
2. Dow will positively impact students & teachers through programs in support of STEM education, achieving 10% of workforce participation with 100,000 teachers and 500,000 students impacted.
3. 100% of sites with more than 50 employees will participate in community engagement activities through DowCorps, contributing to safe, healthy and economically viable communities.
4. The Citizenship Impact Fund will invest \$10MM targeting business opportunities that lead to innovative, sustainable solutions to social problems.
5. Dow will uncover customer and business collaborations and develop external partnerships that deliver shared value and generate \$25MM NPV.
6. Engaging for Impact activities will support Dow's overall strategy to achieve top quartile scores for Employee Engagement, and 100% of core leadership development programs will include sustainability impact exposure and opportunity to help build a culture of volunteering.

# Delivering Breakthrough Innovation

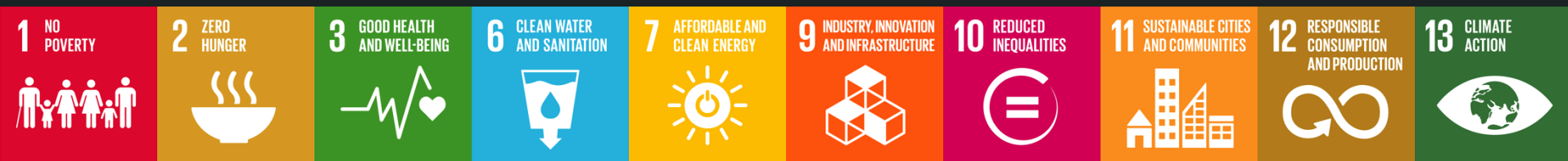


Dow delivers breakthrough sustainable chemistry innovations that advance the well-being of humanity.

Innovation portfolio delivers 4x net positive impact on sustainable development



## Alignment to UN SDGs



# Delivering Breakthrough Innovation



Collaborations of passionate and creative people at the intersections of the sciences will solve world challenges.

Our Goal is to deliver breakthrough sustainable chemistry innovations that advance the well-being of humanity.

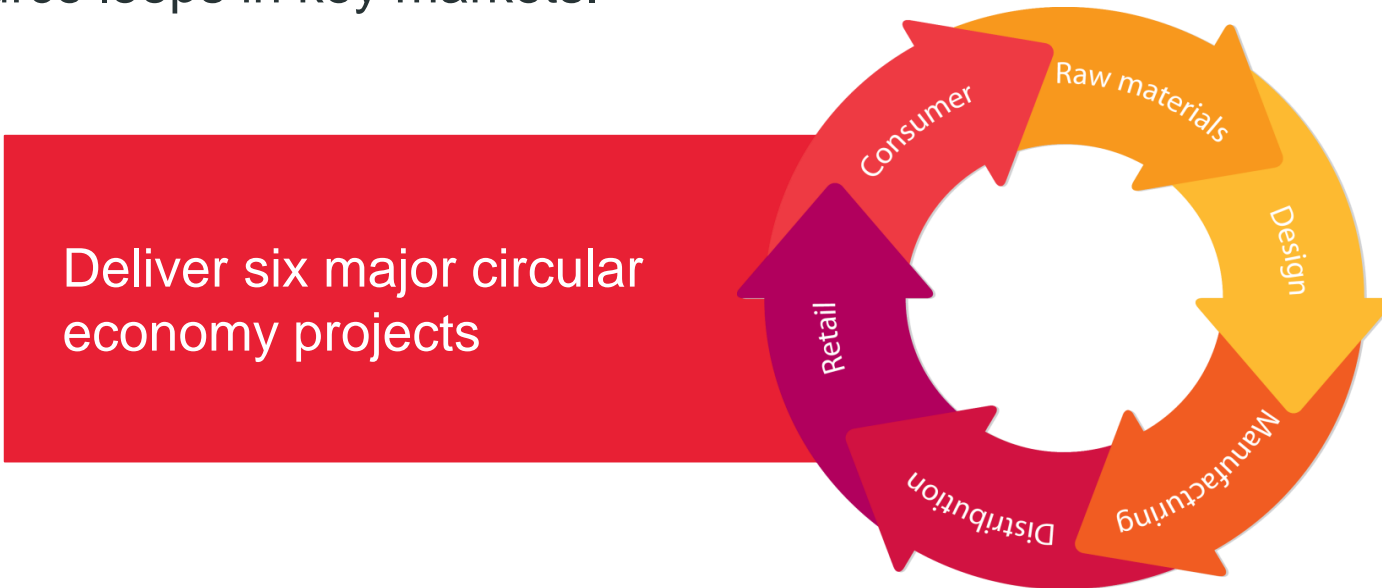
1. Dow will innovate to increase the positive net impact of products across all markets such that the benefit to global sustainable development exceeds burdens by 4X.
2. Dow will be a leader in energy and greenhouse gas life cycle management by ensuring the ratio of benefits of our product portfolio to burdens is at 3:1.
3. Dow will continue to improve its sustainable chemistry performance and report progress externally.
4. Dow businesses will set and achieve their own business-specific sustainability goals.
5. Dow will increase use of life cycle assessment (LCA) to guide decision-making while meeting business and customer needs.





# Advancing a Circular Economy

Dow advances a circular economy by delivering solutions to close the resource loops in key markets.



## Alignment to UN SDGs



# Advancing a Circular Economy

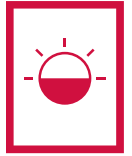


Through innovation and collaboration, Dow will help facilitate the world's transition to a circular economy, where waste is designed into new products and services.

Our Goal is to advance a circular economy by delivering solutions to close the resource loops in key markets.

1. Dow will partner with other industry leaders, NGOs and governments to deliver three major projects that deliver solutions and provide a blueprint for the implementation of principles of the circular economy by 2020.
2. By 2025 Dow, working with partners, will implement three additional projects located at Dow manufacturing sites or directly impacting Dow businesses.

# Safe Materials for a Sustainable Planet



We envision a future where every material we bring to market is sustainable for our people and our planet.

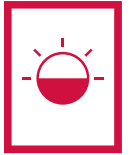
Deliver sustainable solutions while collaborating to promote product safety and transparency.



## Alignment to UN SDGs



# Safe Materials for a Sustainable Planet



We envision a future where every material we bring to market is sustainable for our people and our planet.

We will deliver the sustainable innovations of tomorrow while collaborating to promote product safety and transparency.

## **Sustainable Materials of Tomorrow**

1. Implement 10 innovative alternatives.
2. Promote participation by all Dow businesses, track awards and recognition, and report externally.
3. Implement a priority chemicals policy; eliminate 10 priority compounds.
4. Develop advanced risk-based safety assessments and contribute to external regulatory paradigms.

## **Leading a Candid Conversation**

1. Define and maintain Dow's product safety story.
2. Develop 10 courageous collaborations to advance the conversation on product safety.
3. Develop and implement Product Stewardship Academies in emerging regions.

## **Providing Unprecedented Transparency**

1. Define and communicate the base data set for product manufacture and use.
2. Advance transparency beyond regulatory-driven Safety Data Sheets for all Dow products.
3. Share 10 examples of products/applications not pursued.



# Valuing Nature

Dow applies a business-decision process that values nature, which will deliver business value and natural capital value through projects that are good for the Company and better for ecosystems.

Deliver \$1 billion in value through projects that are good for business and better for nature



## Alignment to UN SDGs





# Valuing Nature



Too frequently taken for granted, nature provides valuable services – such as clean air and water – to us all. Dow considers nature in strategic decisions because it is the right thing to do for people, planet and business.

Our Goal is to apply a business-decision process that values nature. Dow will deliver business value and natural capital value through projects that are better for the Company and for ecosystems.

1. By 2025, Dow will deliver \$1 billion in value through projects that are good for business and better for ecosystems.
2. By 2020, all capital, real estate, new business development and new product development projects at Dow will be screened for nature value, using tools we developed with The Nature Conservancy to measure the value of ecosystem services.



# Leading the Blueprint

Dow leads in developing societal blueprints that integrate public policy solutions, science and technology, and value chain innovation to facilitate the transition to a sustainable planet and society.

Dow's blueprints will align to the United Nations Sustainable Development Goals to ensure significance and relevance to solving societal challenges.



## Alignment to UN SDGs



# Leading the Blueprint



The health of people, planet and business are intrinsically linked. Collaboration in new and deeper ways across the public and private sector is essential for the transition to a sustainable planet and society.

Dow's blueprints will align to the UN SDGs to ensure significance and relevance to solving societal challenges and transitioning to a sustainable planet and society. The blueprint topics will draw on the best practices of existing collaborations. In partnership with the other Dow 2025 Goals teams and our businesses, we will forge new collaborations to activate the blueprints for greater impact.

1. Dow will develop a framework, based on established criteria, to assess projects that are material to the blueprints by the end of 2017.
2. Dow will publish an initial blueprint on watershed management by Q1 2018 and continue developing blueprints on energy and climate, resource efficiency, infrastructure and sustainable cities, quality education, and productive employment and economic growth.
3. Dow will publish and update all blueprints throughout the goal time frame, considering world progress toward sustainability and emerging challenges.





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