



Dow Safer materials for more sustainable products



THIS IS DOW



2022 NET SALES

~ \$57B



EMPLOYEES

~37,800



MANUFACTURING SITES

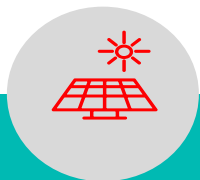
104



GLOBAL REACH

31 countries

in which Dow manufactures products



Among top 20 global corporations using renewable, clean energy; **expanded access to >900 MW** of renewable energy



Aligned comprehensive disclosures to GRI, GHG Protocol, TCFD, SASB and WEF in our annual Intersections Report



Advanced to #15 on the 2022 DiversityInc Top 50 Companies for Diversity list



Improved global Dow employee representation of women to **29.5%**

SUSTAINABILITY DRIVES OPPORTUNITY ACROSS ALL DOW SEGMENTS

To become the most innovative, customer-centric, inclusive and sustainable materials company in the world

Climate Protection

We are committed to protecting our planet by combating climate change, including contributing to a lower carbon future, both in our operations and value chains.

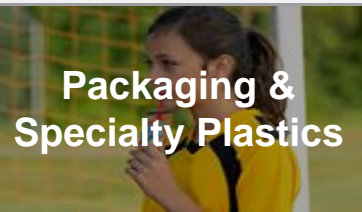
Circular Economy

We are taking a leading role in driving a more circular economy by designing for circularity, building new business models for circular materials and partnering to end plastic waste.

Safer Materials

We are innovating new materials that offer a more favorable health and environmental profile over their life cycles compared to incumbent solutions.

Dow Segments



New Value Pools

- Circularity 
- Lower-Carbon and Sustainable Materials 
- Green Building 
- Digitalization 
- Energy Transition 
- Resource Efficiency 

Dow Highlights



Packaging to enable freshness enroute and on the shelf



Elastomers, fluids, composites and silicones enabling wind and solar power



Recycling of end-of-life consumer products into raw materials for re-use



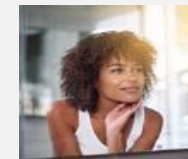
Silicones, urethanes, and acrylics enable weight reduction and improve fuel efficiency



Packaging solutions made with bio-based feedstocks



Materials that enhance the efficiency of high-perf. buildings



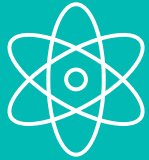
Bio-based home and personal care ingredients



Battery assembly materials for safe and reliable EV & AV designs

INNOVATING TOWARDS SAFER MATERIALS

With a portfolio of more than 14,000 products that support more than 10,000 customers, we know that how we make, distribute and enable the use and disposal of our products can have a meaningful positive impact on people and the environment. Our Safer Materials vision is a future where every new material we bring to market is sustainable for people and the planet.



Product Safety blueprint
created to demonstrate
our approach to
developing safer and
more sustainable
chemistry



**Definition of safer
materials as the
foundation of our actions
for improvement**

>50

**Business risk reviews for
products, materials and
applications as part of our
strong product safety risk
management approach**

SAFER MATERIALS: HIGHLIGHTS

Definitions matter

What is a safer material?

A safer material is one with a measurably lower health risk potential and more favorable environmental profile over its intended life cycle(s) as compared to the incumbent solution. We believe that creating safer materials is a continuous journey and is possible through innovation, design and more predictive, enabling technologies.

New blueprint for product safety

Creating safer, more sustainable materials

In 2021, we launched a blueprint for Product Safety to demonstrate how Dow brings materials safely to the market through innovation and collaboration. In addition to published studies and other content, the blueprint also includes “The Product Safety Story: The Birth of a Molecule.”

Safer Materials in practice



CANVERA™ Polyolefin Dispersions provides food and beverage brand owners with a replacement for epoxy coating systems, without use of BPA and other materials of concern.



SunSpheres™ BIO SPF Booster: a high performing bio-derived and readily biodegradable SPF booster. .



SILASTIC™ LCF 3600LV LSR: A two-part, solvent-free silicone adhesive elastomer designed to enable fabrication of seam sealed airbags from silicone-coated fabric.

PRODUCT SAFETY AT DOW TODAY

Toxicology

Evaluate the hazards and risks of products to meet compliance and to inform product development and safer applications

Hazard Communication

Responsible for providing Safety Data Sheets (SDS) and the EH&S content for labels



Product Regulatory Services

Provide support for ensuring regulatory compliance

Product Stewardship

Key interface with the businesses to ensure products are used safely throughout their lifecycle

TOXICOLOGY AND ENVIRONMENTAL RESEARCH AND CONSULTING

The Product Safety Assessment Center within Dow

Focused on the protection of human and environmental health of Dow's innovations and existing products by delivering:



Key facts

- Established in 1934
- Employees with a presence around the globe
- Testing, research, and consulting
- Expertise regarded highly internally and externally

To be the most respected and valued leader in the science and practice of chemical/product safety assessment

HOW THE SSBD FRAMEWORK CAN HELP

Provide
regulatory
certainty

Strengthen
market
acceptance

Offer a workable
framework to
support R&D

Consider safety
over the lifecycle

Prevent
unintended
consequences



Seek

Together™