SUSTAINABILITY @ Dow

COLLABORATING ACROSS THE VALUE CHAIN

Eunice Heath
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Seek Together
SEEK TOGETHER: SUSTAINABILITY COLLABORATION ALONG VALUE CHAIN

The “new” Dow’s tagline – “Seek Together” – embodies our desire to collaborate to solve our most pressing challenges. In sustainability, this means:

- Collaborating with partners and customers to innovate
- Educating on material handling and safety
- Committing to transparency and global standards
- Enabling the increase in sustainability literacy and representation
Dow’s 2025 Sustainability Goals
Advancing the Well-Being of Humanity Through Science, Innovation and Collaboration

- 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
COLLABORATING WITH PARTNERS AND CUSTOMERS TO INNOVATE
VALUING NATURE THROUGH PARTNERSHIP WITH NATURE CONSERVANCY
ALLIANCE TO END PLASTIC WASTE AND #PULLINGOURWEIGHT

~44,000 VOLUNTEERS
~380,000 HOURS
since 2015

71% OF OUR EMPLOYEES
volunteered their time and talent
outside of work in 2018
Innovations Enabling Renewable Energy

- Alternative energy generation is the future for a sustainable planet and society
- Dow provides solutions that help enable renewable energy solutions
  - Solar, Geothermal, Concentrated solar power and wind
- Two examples in solar energy alone:
  1. Heat transfer fluids
  2. Silicones
EDUCATING ON PRODUCT AND PROCESS SAFETY
Dow’s Product Stewardship Academy
Dow is part of the AIChE Undergraduate Process Safety Learning Initiative, which educates chemical engineering students on process safety

- Helps provide tools and information to incorporate process safety training into undergraduate curriculum
- Dow, along with other people in this room, are part of this effort
COMMITTING TO TRANSPARENCY AND GLOBAL STANDARDS
MEMORANDUM OF UNDERSTANDING WITH CHINA
Dow believes transparency is critical in building trust and confidence through the value chain.

We commit to...

- Communicating across the value chain the information necessary to establishing safe use of our products.

What could transparency look like?

- Advance transparency beyond Safety Data Sheets
- Share how we evaluate chemicals and products from a health and environmental perspective.
The companies involved in this dialogue support the overarching goal of exploring and, whenever possible, accelerating the development and use of more sustainable products through innovation in and sourcing of green chemistry solutions...All share a commitment to having an open dialogue around five key areas to promote green chemistry research, development, and adoption:

1. Goal setting and continuous improvement
2. Communication
3. Transparency
4. Information on new chemicals and safer alternatives
5. Support for green chemistry education
INCREASING SUSTAINABILITY LITERACY & REPRESENTATION
Dow’s Elements of Sustainability Series

- Series of free online lectures from sustainability academics, available to anyone with a computer
- Topics from life cycle assessments to circular economy
- Check out the series anytime: consumer.dow.com/sustainability-series-2019
**Dow Sustainability Academy**

Employee development program that provides participants with the tools needed to bring sustainability business insights into their jobs as well as hands-on experience on a sustainability-related project.

- **4 days**
  - Sustainability business acumen training
- **1 day**
  - Final presentation
- **6 month project**
  - On a #Dow2025 goal
  - Several teams

Dow is partnering with the University of Michigan and the University of Cambridge to provide participants with an externally validated certification upon program completion. Each team will have a project customer and a sustainability SME.
DIMENSIONS OF DIVERSITY

@Dow, We're All IN!
Impact at the Intersection
Making a difference at the intersection of sustainability, citizenship and innovation
Workforce Solutions

From classroom to career, we’re inspiring the next generation of science and technology workers.
Committed to Building the Workforce of Tomorrow

• In the next decade …

80% of professions will require a deep understanding of science, technology, engineering and math (STEM) skills

Nearly 3.5 Million manufacturing jobs will likely need to be filled

2 Million of those jobs may go unfilled due to the STEM skills gap

Source: White House, Manufacturing Institute
Our STEM Strategy: From Classroom to Career

Teach
Through professional development, curriculum support and project-based learning.

Learn
Through hands-on experiments, STEM career exploration and reaching out to underrepresented students.

Work
Through university partnerships; R&D funding; curriculum development at community colleges and non-profits; and offering certifications, internships, co-ops, apprenticeships and full-time employment.

Advocate
To advocate for STEM policies, drive STEM education and engage federal, state and local governments.
STEM Ambassadors: Motivating Student Achievement

- Launched in 2014.
- Dow STEM Ambassadors are trained employees who inspire students and support teachers in our strategic communities.
- School-day activities include career talks, guest lecturing, science experiments, mentoring, Dow site tours, being a teacher partner, and science research.
- After-school activities include coaching FIRST Robotics teams, conducting You Be The Chemist competitions, or participating in science fairs.
Building the PhD Diversity Pipeline

- Dow R&D sponsors 15 students from 4 other HBCUs to Florida A&M University College of Engineering

- Purpose - to gain exposure to Industrial Manufacturing, Industrial R&D and Sustainability

- Supporting the build of undergraduate and graduate diversity pipeline into engineering and chemistry
Global Citizenship: Our Purpose

Together, science and humanity can change the world.
QUESTION:

What is the best way for the value chain to come together to increase sustainability education – from elementary to highest level?

A sustainability mindset must start EARLY.

We need to embed sustainability in our culture and our every day lives.