



SCIENCE FOR A SUSTAINABLE WORLD SCIENCE FOR SUSTAINABLE BUSINESS

**NEIL C. HAWKINS, Sc.D.
VP, SUSTAINABILITY & EH&S**



ABOUT Dow



A science and technology leader with annual sales of \$60 billion

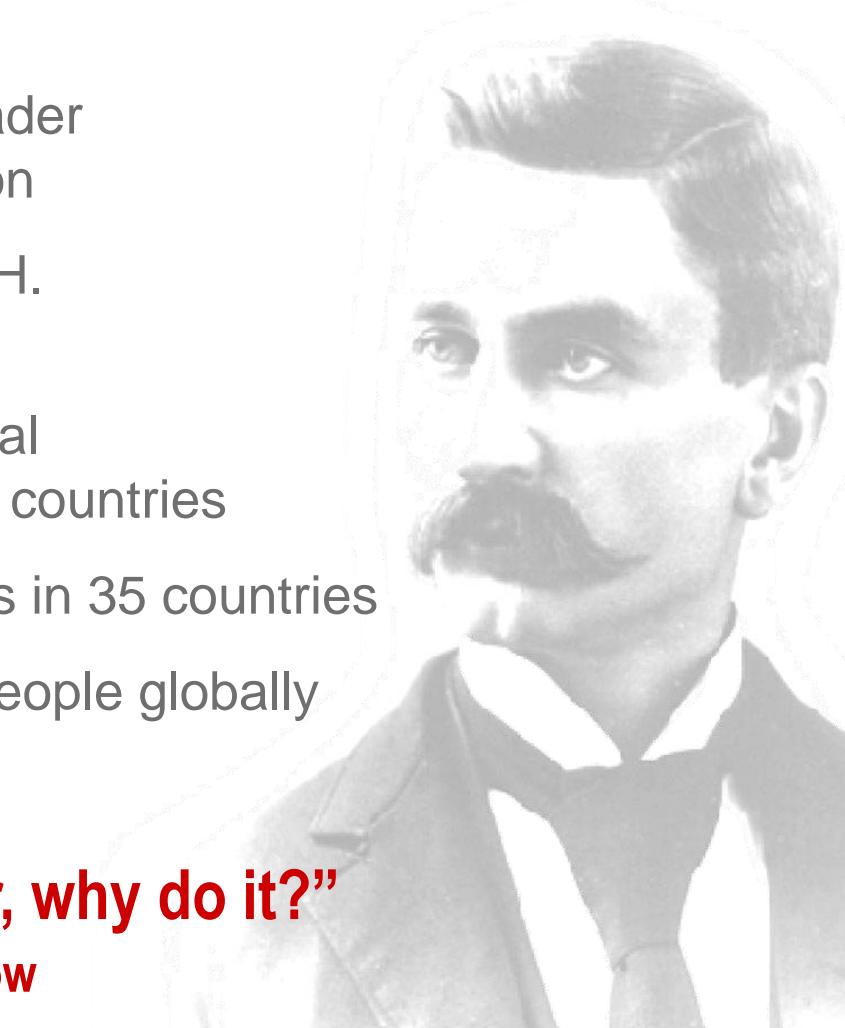
Founded in 1897 by Herbert H. Dow in Midland, Michigan

Supplies plastics and chemical products to customers in 160 countries

From 188 manufacturing sites in 35 countries

Employs more than 50,000 people globally

“If you can’t do it better, why do it?”
-- Herbert H. Dow



THE CHEMICAL INDUSTRY

Turning Feedstocks into Essential Products



Salt



Gas



Oil



Coal

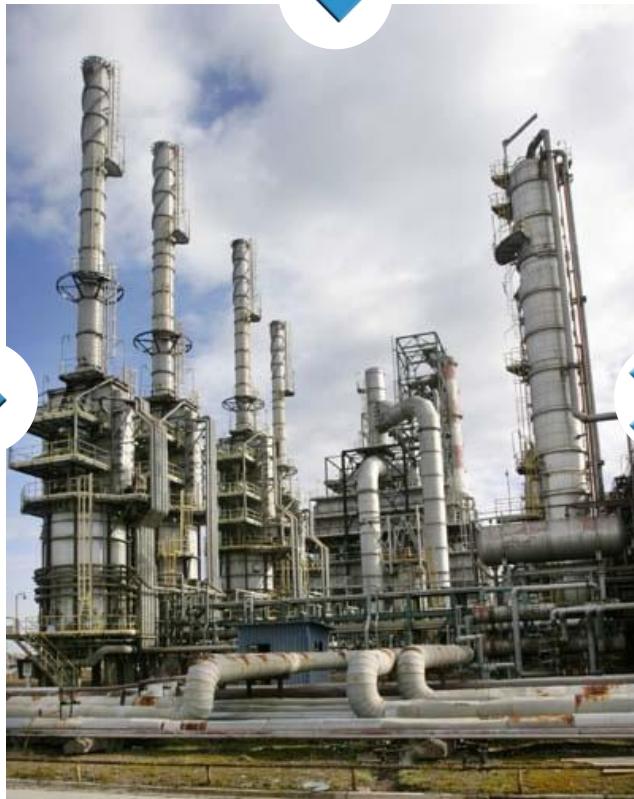


Biomass



Recycle

Energy



Building & Construction



Electronics



Agriculture



Wire & Cable



Coatings



Automotive



INTEGRATING SUSTAINABILITY INTO OUR **CORPORATE STRATEGY**



Strategic Themes:

Financial Discipline
Strategic Growth

Sustainability
Performance Culture

DRIVING THE NEXT GENERATION OF CHANGE

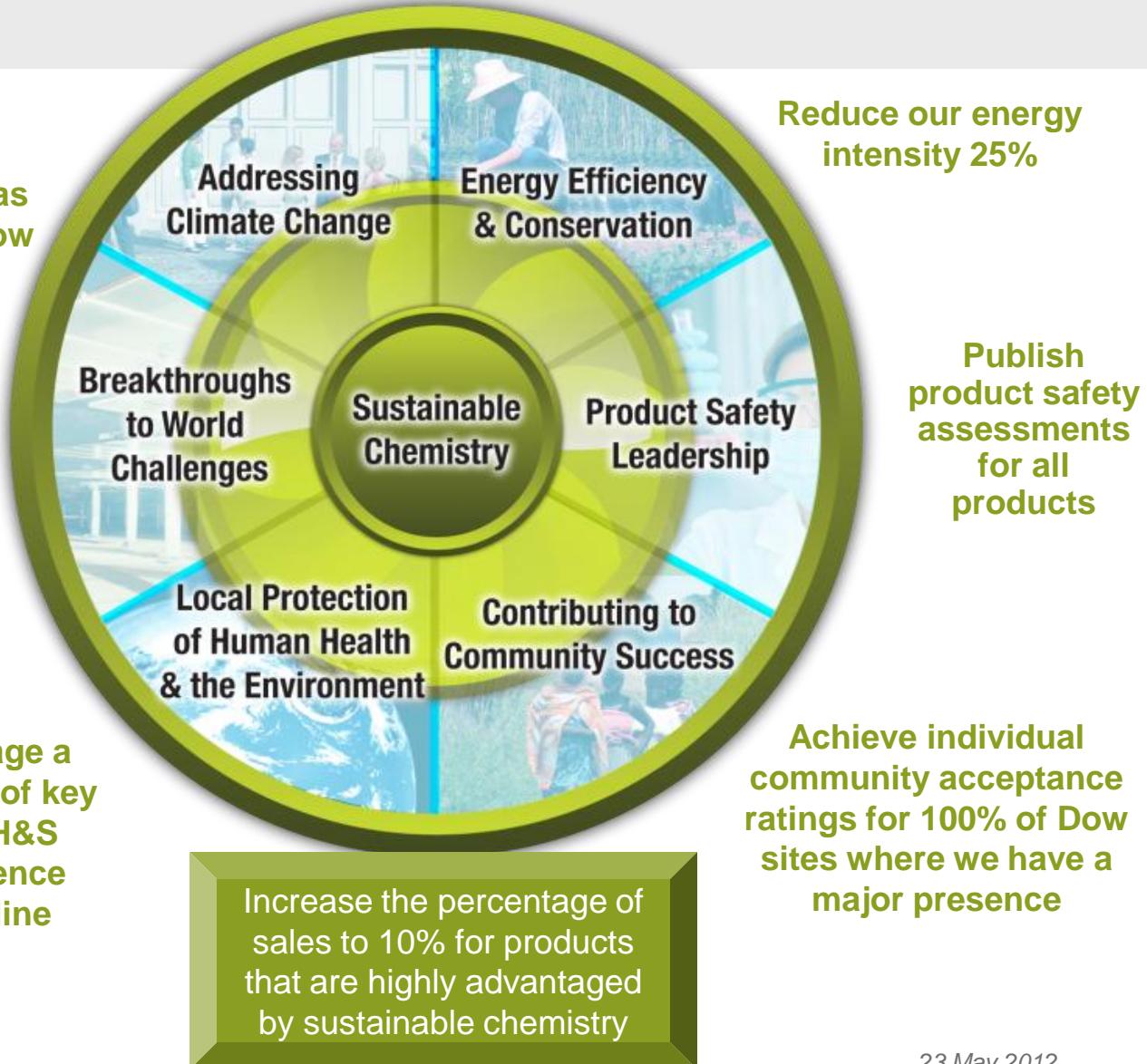
Dow's 2015 Sustainability Goals



Maintain all absolute greenhouse gas emissions below 2006 levels

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

Achieve on average a 75% improvement of key indicators for EH&S operating excellence from 2005 baseline



Reduce our energy intensity 25%

Publish product safety assessments for all products

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

SOLVING SUSTAINABILITY CHALLENGES



Dow people include some of the **world's best scientists and engineers** dedicated to solving global challenges. We focus our **innovation engine** on delivering new technologies that are **good for business and good for the world**.



Energy



**Climate
Change**



Water



**Health
&
Nutrition**



**Transportation
&
Infrastructure**



R&D – OUR INNOVATION ENGINE



Sustainability gives Dow's world-class scientists and engineers a target for innovation.

- \$1.6 billion in R&D spending annually – more than the combined budget of all U.S. university chemistry departments (\$1.4 billion)
- Over 500 research projects in our innovation pipeline
- Over 6,000 R&D professionals with specialized skills
- Deep expertise in:
 - Material science
 - Polymer science
 - Separation science
 - Analytical science
 - Biotechnology
 - Ceramics
 - Catalysis

Research	Application Development	Technical Service
Invent new molecules, materials, products and processes	Create new product and solution offerings	Service customer requests and requirements

Our Innovations Are Aligned With Global Sustainability Megatrends

ENERGY



Photovoltaics

Wind Power
Systems

Energy
Storage

TRANSPORTATION & INFRASTRUCTURE



Building
Systems

Architectural
Coatings

Clean Water

CONSUMERISM



Electronics

Packaging

Home &
Personal Care

HEALTH & NUTRITION



Healthier
Diets

Rice

Incipients

ENERGY EFFICIENCY – THE NET ZERO HOME

POWERHOUSE™ Solar Shingles



WEATHERMATE™ SILL SEAL



Silicon Solar Array



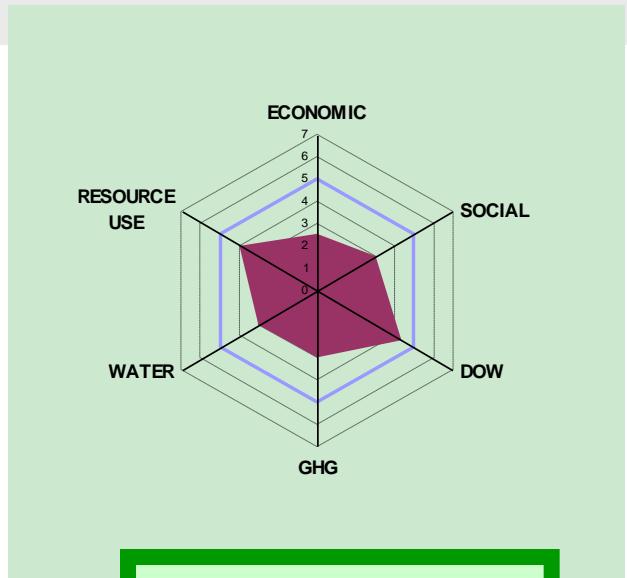
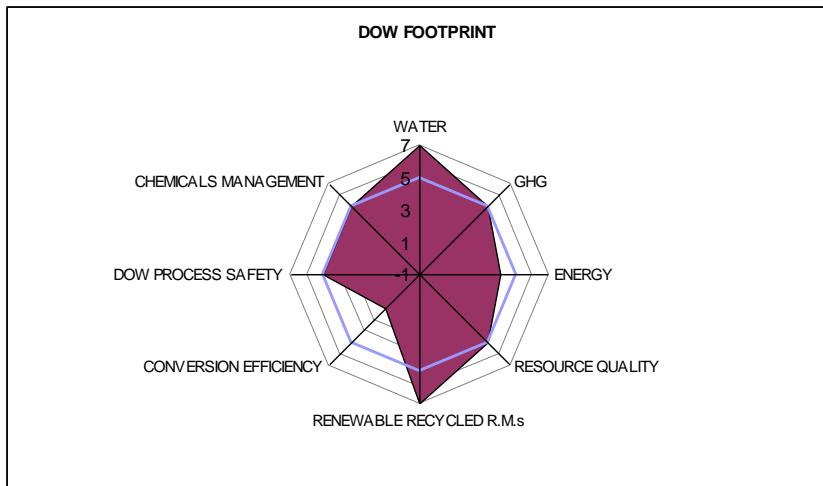
STYROFOAM™ Spr



GREAT STUFF™



Maximizing the Value of Dow's Innovation Pipeline



Holistic Design

BROAD RANGE OF **COLLABORATION**

Academic



Industry



NGOs



Government





“We use nature because it’s valuable, but we lose nature because it is free.”

– Pavan Sukhdev

Yale University Fellow and Study Leader for the TEEB and Green Economy Report to UNEP



WHY A **COLLABORATION** WITH THE NATURE CONSERVANCY?

Two leading global companies cutting new ground

Founded on the shared belief that business has a key role in preserving nature while growing its business

Science and economics approach – developing new private sector methods

Rooted in mutual respect

Five years to deliver breakthrough – transparent process and published results



VALUING NATURE – A STRATEGIC FIT FOR DOW



Access to ecosystem services

Product alignment to fit growing need

Project planning and stakeholder buy-in

Expansion/Permitting Process

Green Infrastructure

Remediation

Conservation Activities

Recognition of offsets or payments from ecosystem services on lands Dow owns

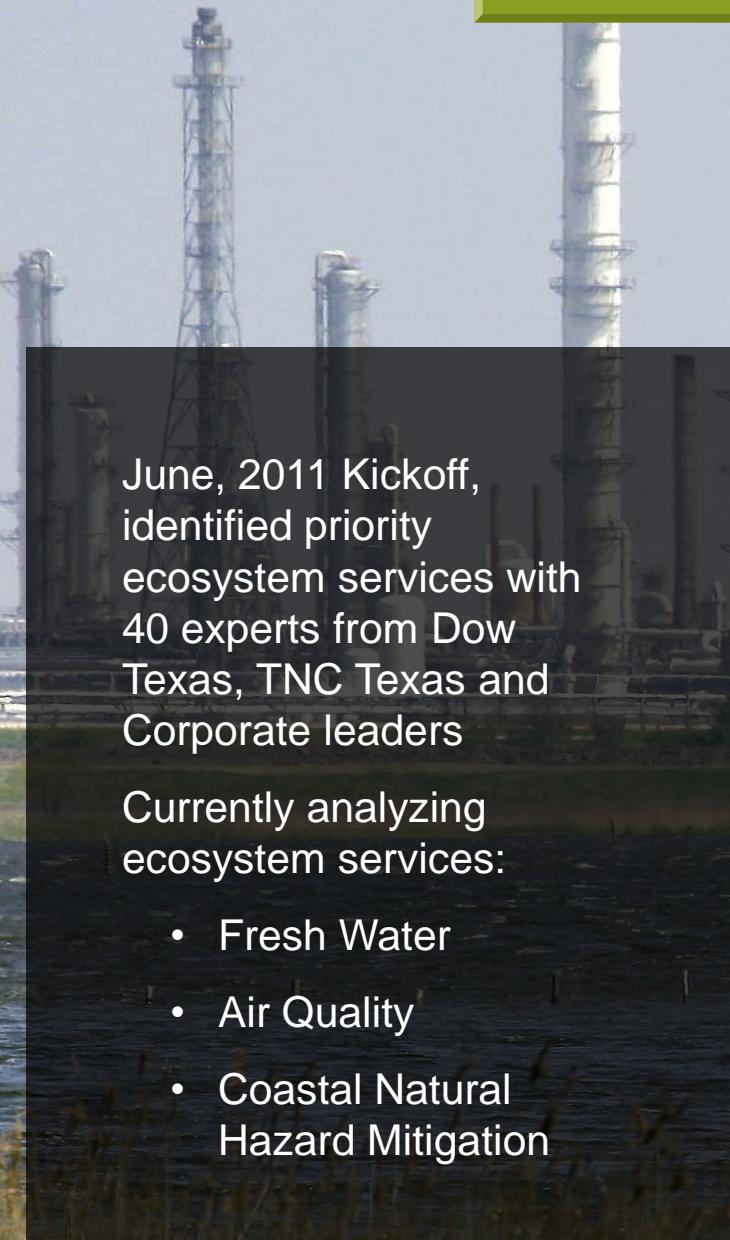


Pilot Site #1: Freeport, TX

June, 2011 Kickoff,
identified priority
ecosystem services with
40 experts from Dow
Texas, TNC Texas and
Corporate leaders

Currently analyzing
ecosystem services:

- Fresh Water
- Air Quality
- Coastal Natural
Hazard Mitigation



Pilot Site #2: Brazil



Kicked-off February 16, 2012

External Announcement,
ahead of Rio +20, June 2012



www.dow.com/sustainability

Partners for Change



Dow Sustainability Fellows Program

at The University of Michigan



A UNIQUE **COLLABORATION**



Launched in
March, 2012

\$10 million gift
over six years

Cultivating nearly
300 future
sustainability
leaders

A BOLD EXPERIMENT

A photograph of a wind turbine against a clear blue sky. A large, vertical, light-colored cylindrical structure with a blue "M" logo is positioned to the left of the windmill, partially obscuring the background.

Graduate and postdoctoral scholars engage in interdisciplinary learning

Natural/social sciences, engineering, business, law, public health, public policy, architecture, urban planning, and other disciplines

RESPONSIBILITY BEGINS HERE



“Sustainability begins at home, but its destiny is to engage the problems of the world. We will build on our company’s rich legacy of leadership in solving the world’s most pressing problems.”

- Andrew Liveris,
Chairman & CEO
The Dow Chemical Company