The Dow Chemical Company’s Commitment to Responsible Care®
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- About Dow Chemical
- Dow’s Agenda and Direction
- Questions
Responsible Care® is the world’s leading voluntary industry initiative - it is run in 53 countries whose combined chemical industries account for nearly 90% of global chemicals production.

http://www.responsiblecare.org/page.asp?n=whatwedo&i=1
Dow’s Commitment to EH&S Excellence
- Drive to Zero
- 2005 EH&S Goals
- 2015 Sustainability Goals
- Historical & Current Performance

Developing a Rigorous Safety Program
- Process Safety & Personal Safety
- Work Processes and Operating Discipline
- Metrics
- Culture
- Personalization
Dow Chemical: 22 National Responsible Care® Members Globally

Indicates that Dow has formally committed to the national Responsible Care.
Responsible Care® Value

EH&S Goals set in 1996 for 2005

- Injuries and Illnesses: Reduce 90%
- LOPCs: Reduce 90%
- Transportation incidents: Reduce 90%
- Process Safety incidents: Reduce 90%
- Motor vehicle incidents: Reduce 50%
LOPCs: **Down 72%**

Transportation incidents: **Down 65%**

Injury and Illnesses: **Down 84%**

Motor vehicle incidents: **Down 39%**
As a result of the 2005 Goals we have:

- Saved over **$5 billion** with a **$1 billion** investment
- Reduced solid waste by **1.6 billion pounds**
  - Enough to fill 415 football fields one meter deep
- Reduced water use by **183 billion pounds**
  - Equal to water usage for 170,000 U.S. homes for one year
- Saved **900 trillion BTUs** of energy
  - Enough to power 8 million U.S. homes for one year
- Reduced personal safety and health incidents by 84%

During the past 10 years...

- 13,000 employees did **not** suffer an injury or illness.
- 10,500 LOPCs did **not** occur.
- 150 motor vehicle accidents, with potential to cause injury or fatality did **not** occur.
- 1,100 Process Safety incidents did **not** occur.
By 2015, Dow will achieve, on average, a 75 percent improvement based on 2005 results.

- Injury rate of 0.12 for Dow and contractors combined.
  - 75 percent reduction in severity, and NO FATALITIES.
- All sites combined will have fewer than 130 LOPCs.
- All sites will reduce process safety incidents by 75 percent, reduced severity rate by 95 percent.
- All Dow employees combined will reduce the MVA rate to 1.5.
- Additional goals: security, waste and emission reduction or resource conservation.
- ....(other goals)
Responsible Care ® and The Dow Chemical Company

Driving the Next Generation of Change: Our 2015 Sustainability Goals

- Addressing Climate Change
- Energy Efficiency & Conservation
- Breakthroughs to World Challenges
- Sustainable Chemistry
- Product Safety Leadership
- Contributing to Community Success
- Local Protection of Human Health & the Environment
We will publish product safety assessments for all products by 2015.

- The assessments cover topics such as basic hazards, use, risk, and risk management.
- We further commit to the equivalent of REACH-like testing on all our products or product families whether they are sold directly in the European Union or not.
- Summary of product safety assessments are available to the public on www.dowproductsafety.com.
- Dow will seek third-party validation of the robustness of its product safety assessment processes, including its processes for making product stewardship decisions, and will be responsive to the feedback.
By 2015, Dow will achieve on average a 75% improvement of key indicators for EH&S operating excellence from 2005 baseline.

- We lead the way across virtually every facet of environment, security, health, and safety performance.
- Our *Vision of Zero* is a leadership attitude and a corporate culture that is committed to zero accidents, zero injuries, and zero excuses.
## Incident Comparisons for 1996 – 2009 results of Responsible Care

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<th>Year</th>
<th>RMTC</th>
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Loss of Primary Containment Data

2008 Data Restated for ROH acquisition
Target Recalibrated
2009 Data is YTD Annualized

2015 LOPC Target

Dow LOPC's
Process Safety Incident (PSI) Performance vs 2015 Goal Target
August 2009

- Annualized
- Actual
- Target - constant % improvement
- Account for 50% of Dow employee work related fatalities over the last 10 years.
- Recently implemented new metric to focus on severe, preventable incidents
- 1994-2005 90% reduction in Serious and Moderate Transportation incident rate.
- New metrics in 2005 focused on just transportation LOPCs
- Coupled with goal of reducing HHM ton-mileage by 50% by 2015.
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Corporate-wide work processes and guidelines for implementation of Operating Discipline, Management of Change, Mechanical Integrity programs, Training, Project reviews and more

Comprehensive “Loss Prevention Principles”: best practices, recommendations, and mandatory requirements for Dow facilities

- Dow corporate Operating Discipline Management System (ODMS).
- Web based. Accessible to all employees world-wide
- Responsible Care Certified.
Company and Business Leaders

- Set Performance Vision
- Provide the resources
- Hold organization accountable
- Hold themselves accountable
  - Annual ratings, bonuses, and career opportunities hinge on success
The entire organization must personalize process safety and what it means to them.

Communication is constant, timely, and personal.

Make safety performance data relevant—go beyond the numbers.

The consequences of an incident are internalized, individually...from the operator level to the corporate leader level.

Total ownership of performance across the entire organization.

Must be kept fresh; creativity is the key.
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