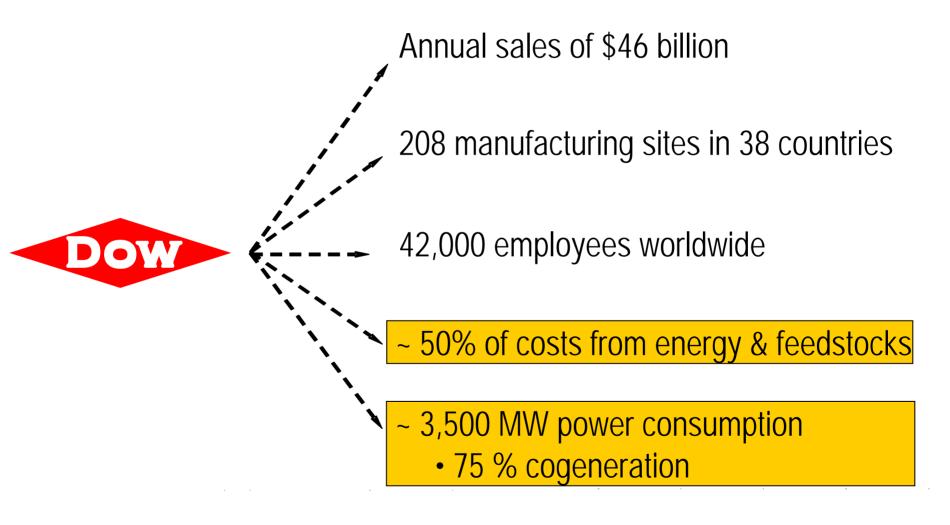


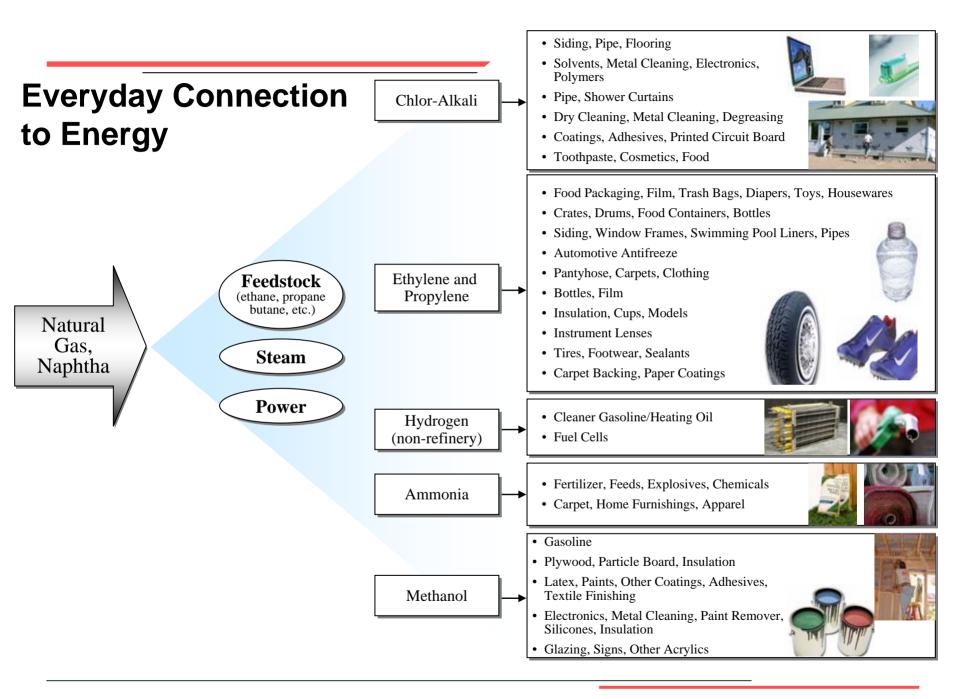
Driving Energy Efficiency Improvements & Greenhouse Gas Reductions at a Company Level

Gordon Slack Director, Energy & Climate Change Dow Chemical Company February 14, 2006



A 108 year old company committed to Sustainable Development



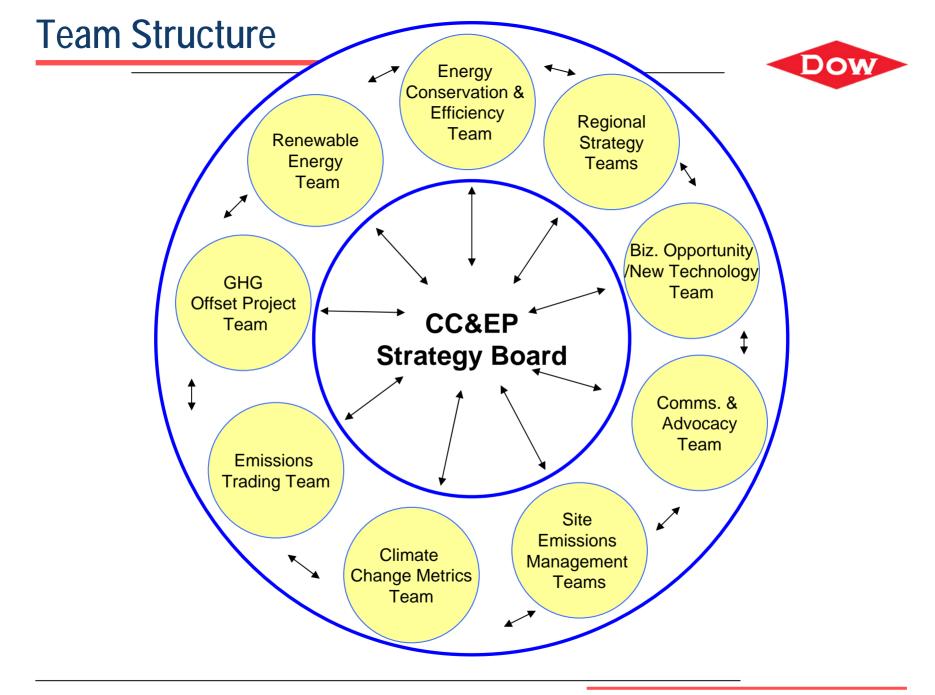


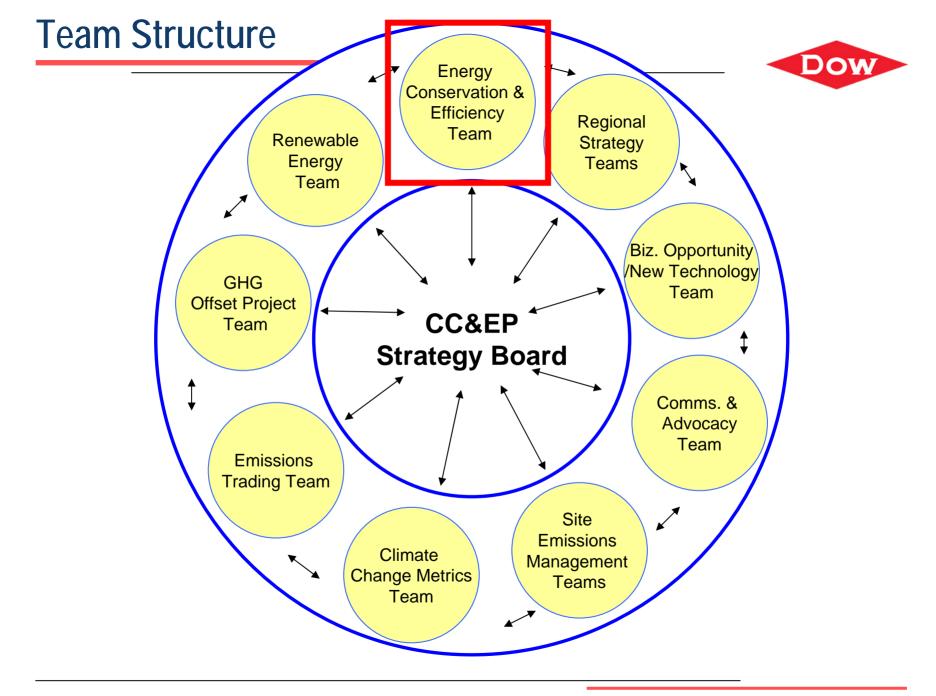
Addressing Energy & Climate Change

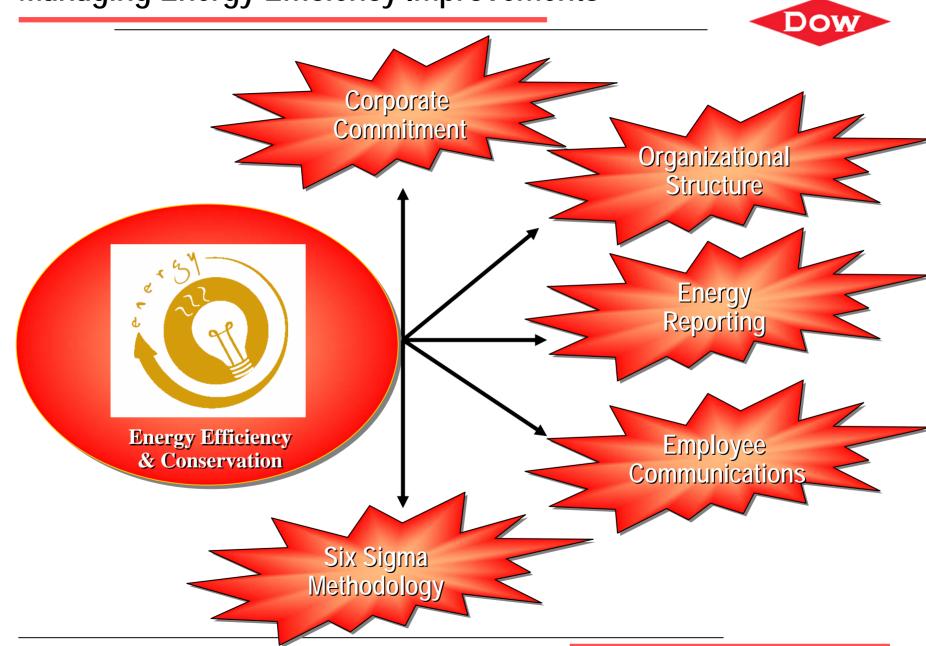


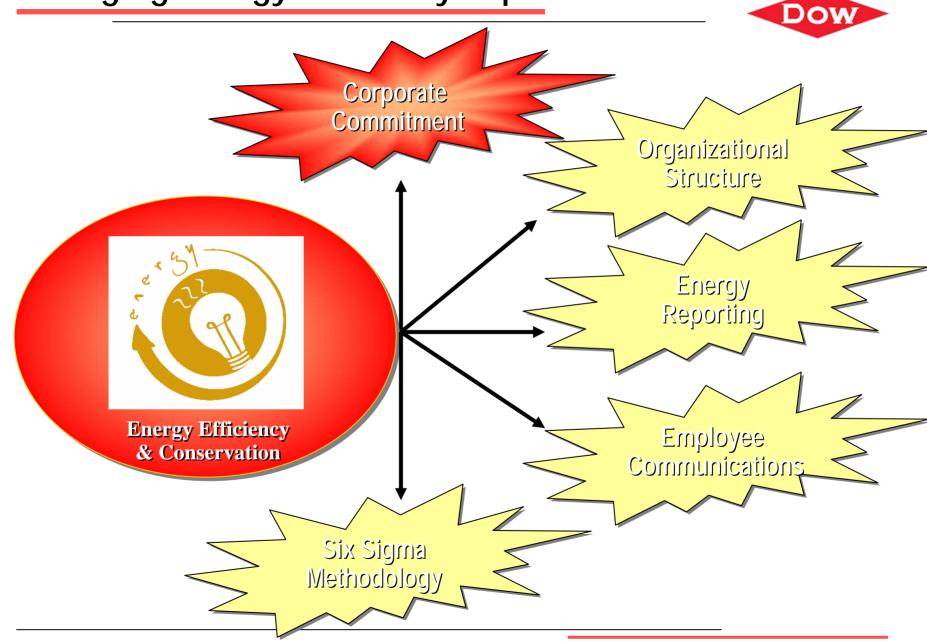
Part of the Solution

- Energy Efficiency & Conservation
- Optimized Fossil Fuels
- Renewable & Alternative Energy
- Science & Technology Solutions









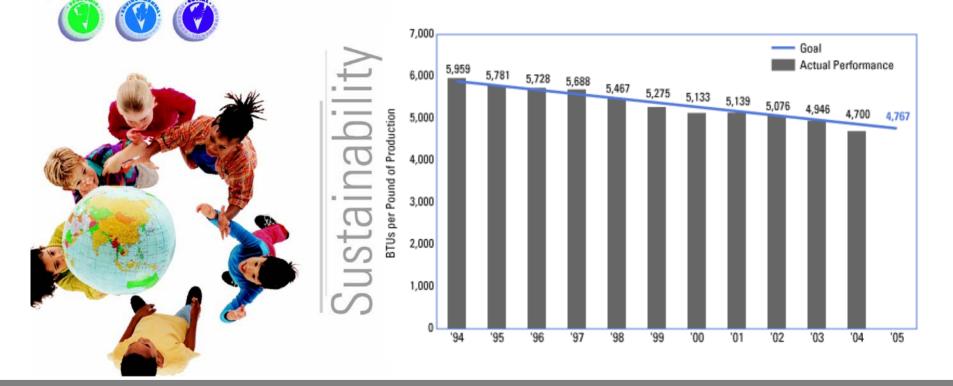
Enhanced Public Reporting

The Dow Global Public Report 2003



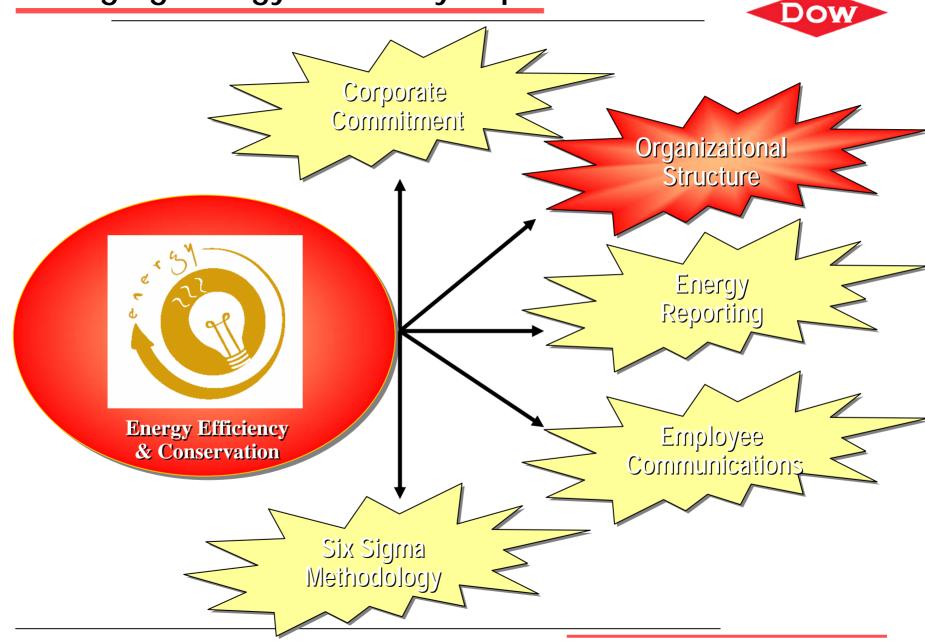
Dow

1995 Goal: Reduce energy intensity 20% by 2005



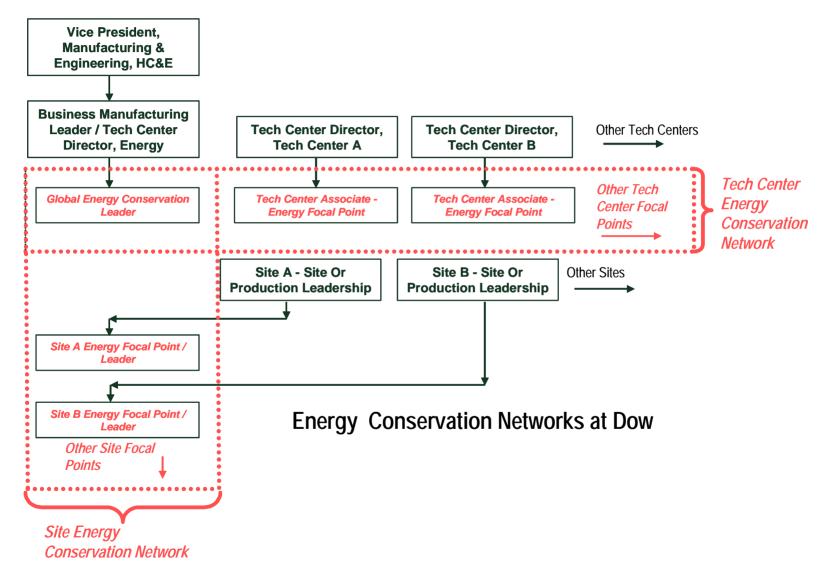
The Dow Public Report

www.dowpublicreport.com



Driving Energy Conservation







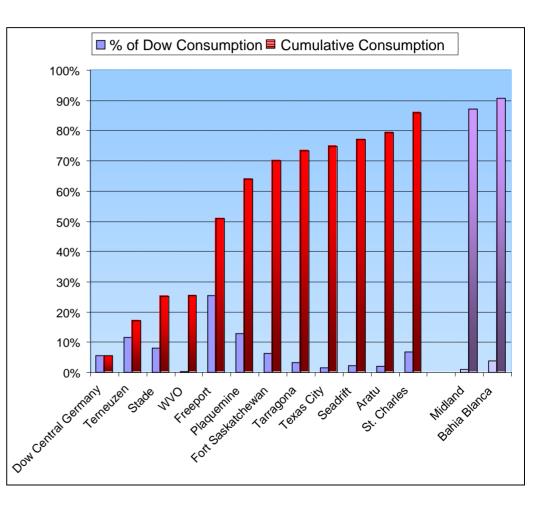
- ✓ <u>26 Tech Centers</u>: Each have Energy Focal Points leading the business effort
- ✓ <u>Focus</u>: Active engagement through the Tech Center energy focal points, plants and business networks.
- ✓ <u>Engagement:</u> Creative communication activities to engage teams.
- ✓ <u>Results:</u> Projects identified and implemented
- ✓ <u>Strategies:</u> For long term gains

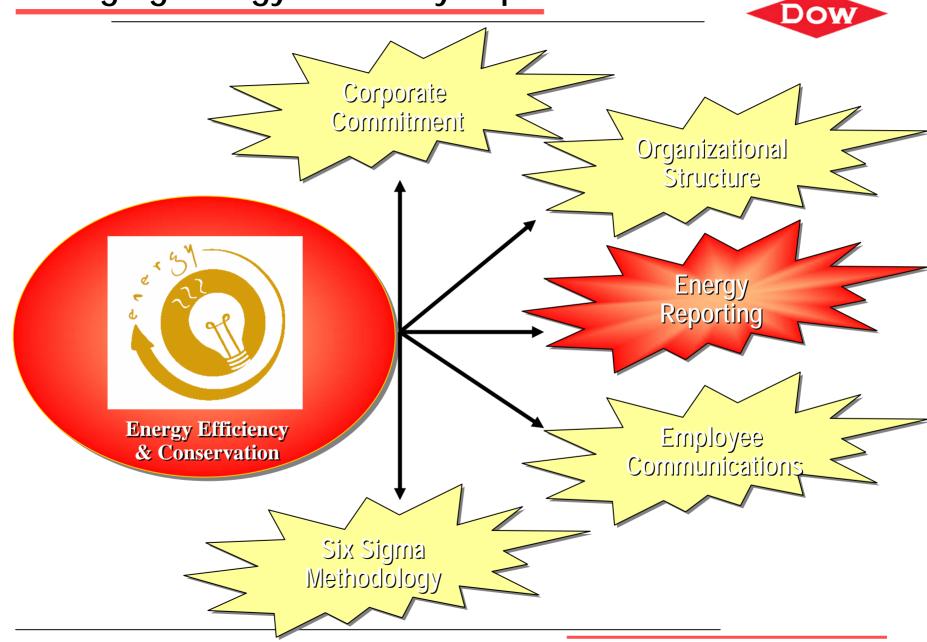


Site Wide Energy Initiative Leaders



- ✓ Site Wide Energy Initiative Leaders and teams in-place at the 13 largest consuming sites:
- ✓ Represents almost 90%
 of our total energy
 consumption



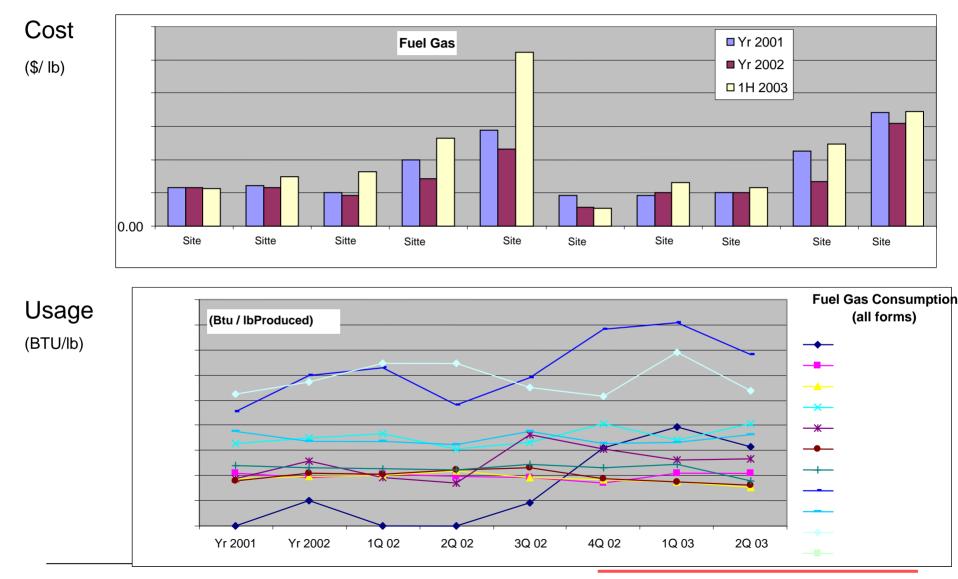


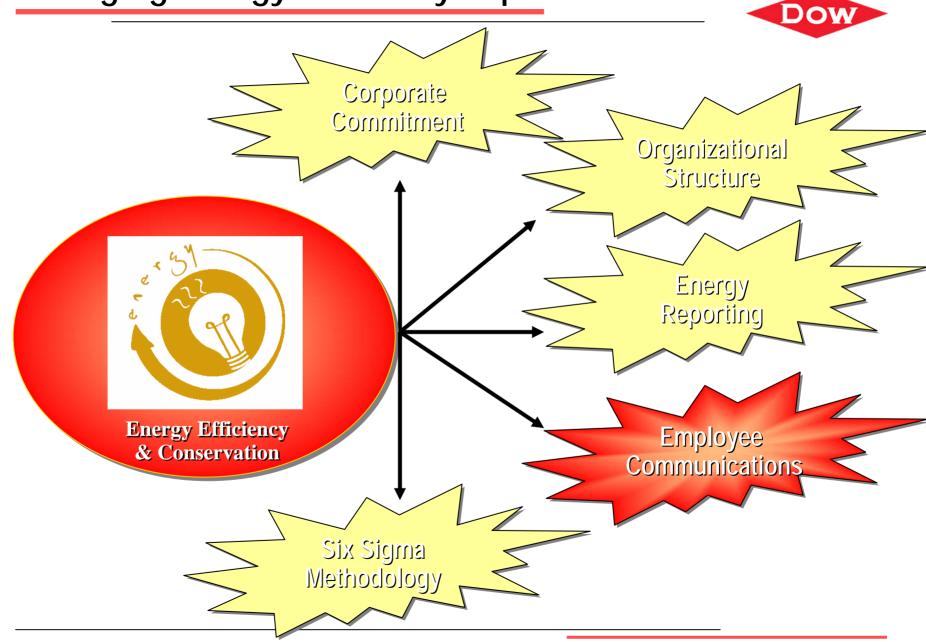


- ✓ Timely/comprehensive consumption monitoring
- ✓ Easy / automatic data entry
- ✓ Classified data for breakdown
- ✓ Visual graphics / tables
- ✓ Data available to all users/management

Example : Fuel Gas Cost and Consumption









Push Communications

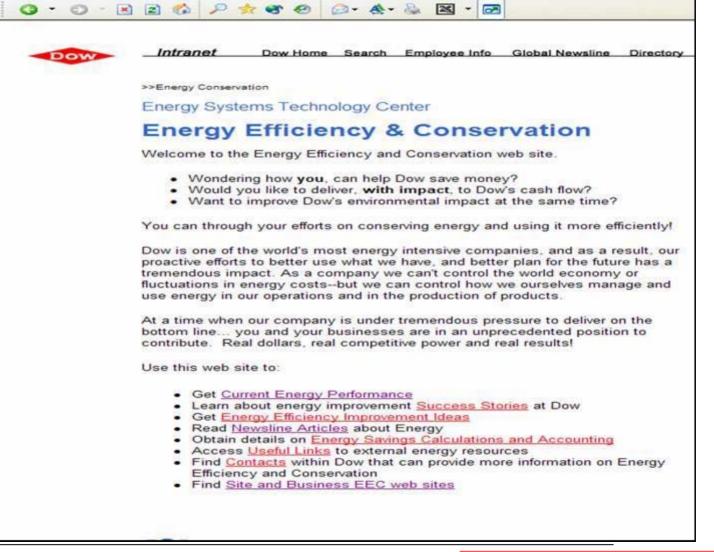
- Newsline (Intranet-based news service)
- Around Dow (Employee magazine)
- Bi-weekly Energy Efficiency Bulletin
- Dow World News (Global broadcast)
- Webcast Energy Efficiency training

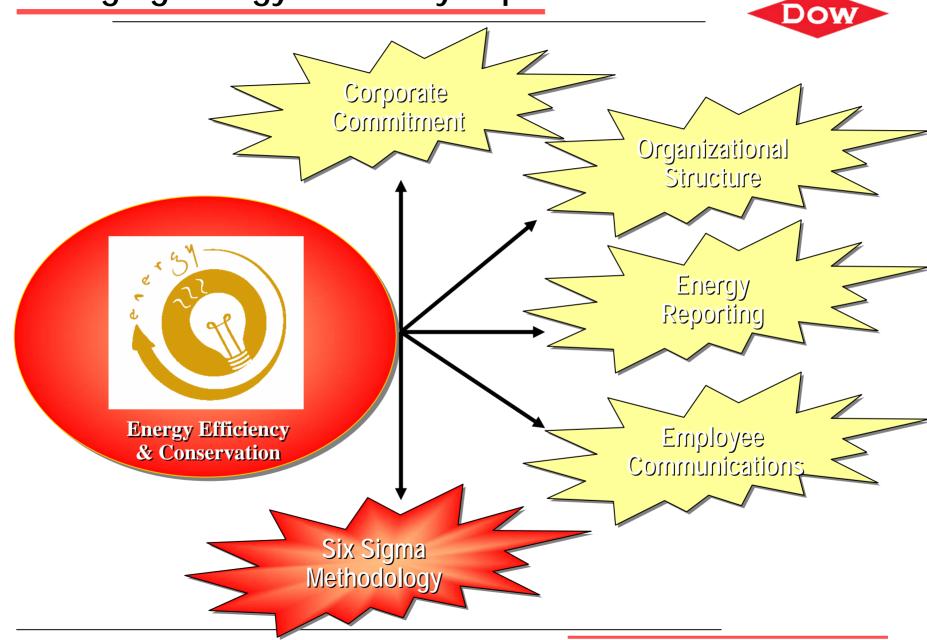
Pull Communications

- Energy Efficiency & Conservation Intranet website
- Electrical Energy Challenge
- WRAP Waste Reduction Always Pays



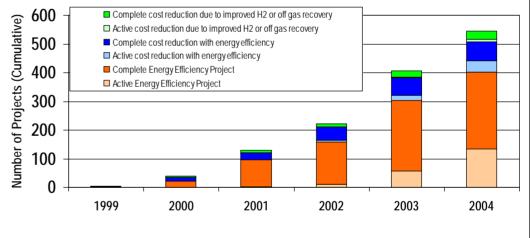
Energy Efficiency & Conservation website





- Data-based process improvement
- ✓ 3.4 defects per million opportunities
- ✓ Measure-Analyze-Improve-Control
- ✓ Small projects and large systems
- ✓ Web based leveraging results across company

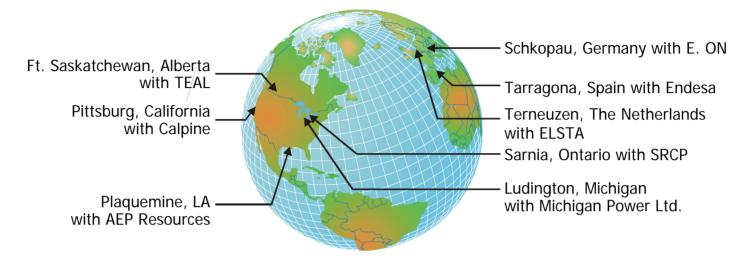
Six Sigma Energy Efficiency Projects Six Complete cost reduction due to improved H2 or off gas recovery Active cost reduction due to improved H2 or off gas recovery Active cost reduction with energy efficiency Complete cost reduction with energy efficiency





Results: Ideas, Projects, Savings



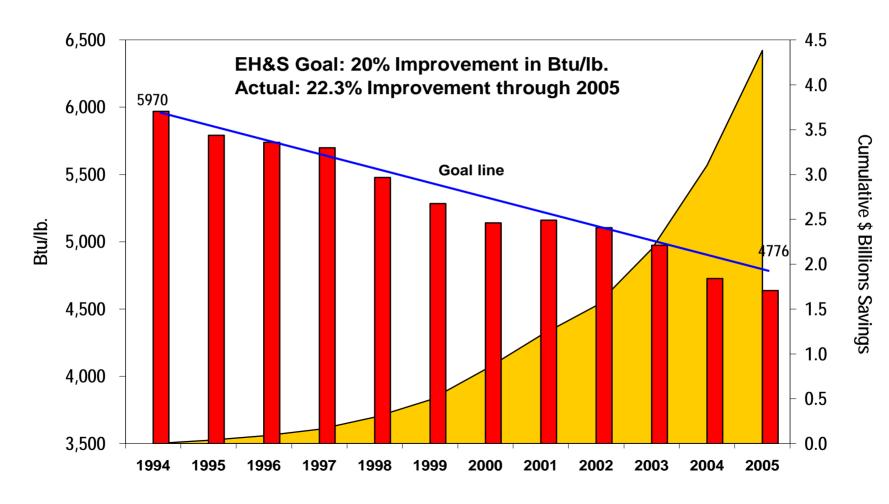


- Eleven New Cogeneration facilities since 1994
 - > 2004 savings an equivalent of 32.6 Trillion Btu/year
- System Optimizers
- By-Product Hydrogen Use
- Waste Elimination Idea Book

Results



Energy Intensity Performance

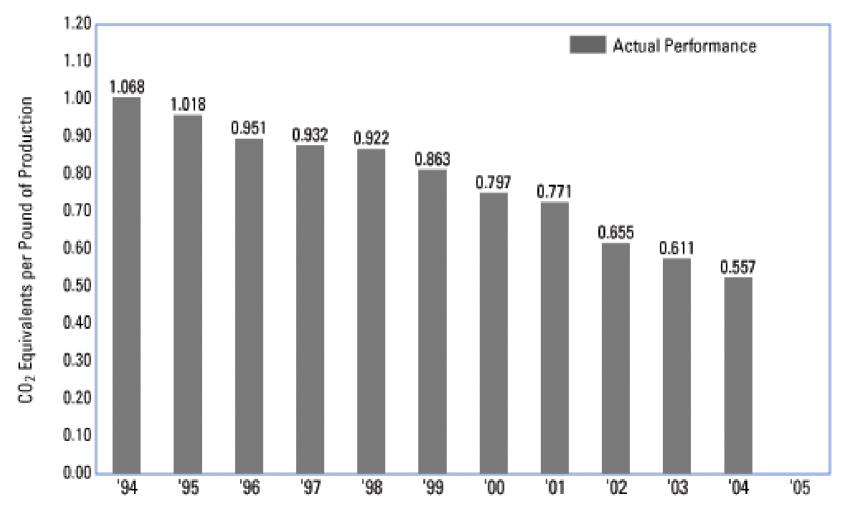


\$ 4.4 Billion Cumulative Savings (B\$) Total Actual Energy

Results



GHG Intensity





Thank you

