





## Owens Corning At A Glance





















- Founded in 1938, an industry leader in glass fiber insulation, roofing and asphalt and glass fiber reinforcements
- 2008 sales: \$5.8 billion
- 16,500 employees in 30 countries
- FORTUNE 500 company for 55 consecutive years

Leading North American Market Positions	Global Leader
<ul><li>Residential Insulation</li></ul>	<ul><li>Composites</li></ul>
<ul> <li>Commercial &amp; Industrial Insulation</li> </ul>	
<ul><li>Manufactured Stone Veneer</li></ul>	
<ul><li>Residential Shingles</li></ul>	
<ul><li>Roofing Asphalts</li></ul>	



## Sustainability...context setting



#### Strong global macro trends

- Energy use & availability
- Climate change
- Population / consumption

#### Presenting a massive opportunity in our markets

- Soaring interest in Energy Efficiency...public and private
- Personal desire to achieve sustainability
- Green building & renewables demand

#### Winning with green...today!

Pink-is-Green™...business and communication strategy

**Customer-inspired solutions addressing global challenges** 



## Owens Corning's Sustainability Business Strategy

- 1. Greening our Operations
- 2. Greening our Products
- 3. Accelerating energy efficiency improvements in the built environment





## Leveraging the knowledge of the world...





CLIMATE ?



Business Roundtable<sup>a</sup>





**ENVIRONMENTS FOR** 





**GEMI** 

Energiedienstleistungen Global Environmental Management Initiative Business helping business improve environmental, health and safety





U.S. Environmental Protection Agency















































































## Owens Corning's Sustainability Business Strategy

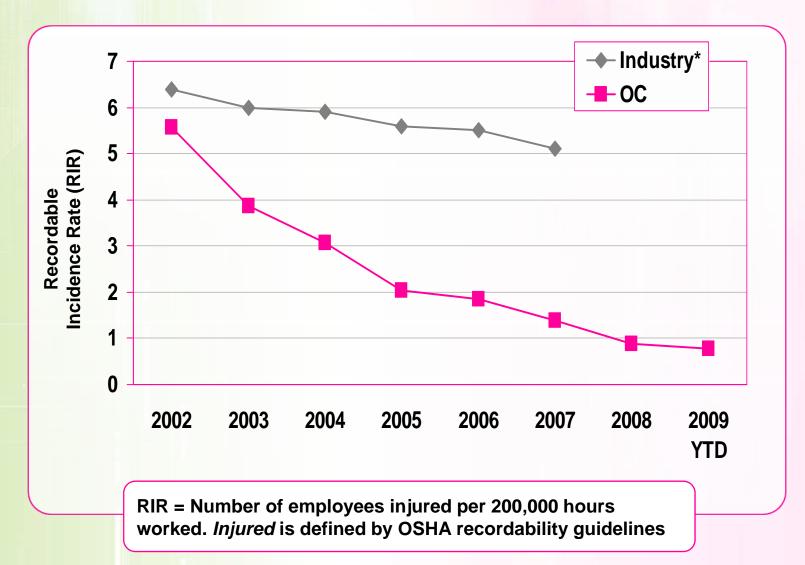
- 1. Greening our Operations
- 2. Greening our Products
- 3. Accelerating energy efficiency improvements in the built environment





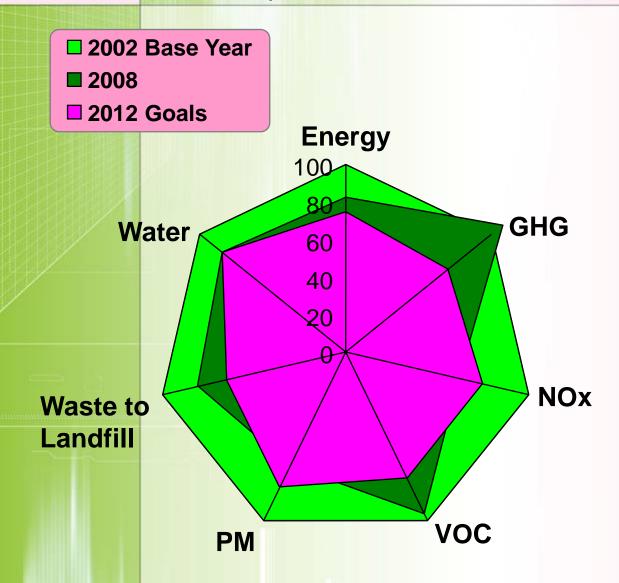
## It All Starts With Safety...







## Greening Our Operations: Our footprint commitment and our progress

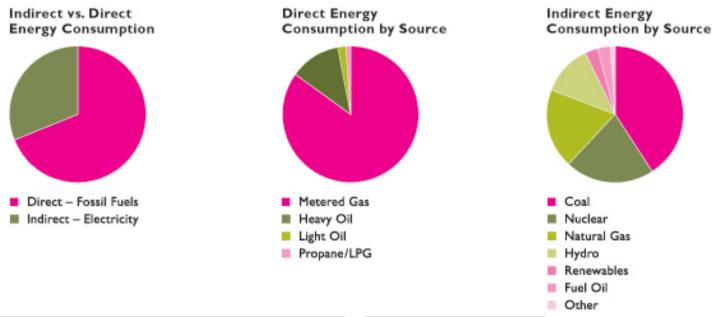


#### Global Intensity Goals 2002-2012

Energy -25%
GHG -30%
NOx -25%
VOC -25%
PM -20%
Waste -35%
Water -15%

Owens Corning 2008 Sustainability Report at http://sustainability.owenscorning.com/

# Energy Sourcing Demand Reduction

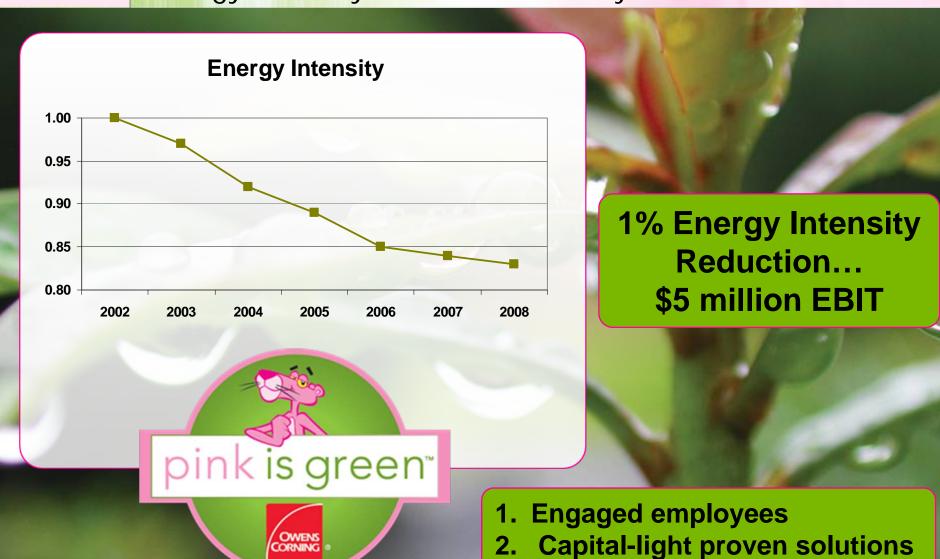


- Supply optimization
- Supply security
- Risk management
- Hedging
- Invoice accuracy

- Continuous improvement
- Capital investments
- Best practice networks
- Carbon SWOT
- Renewables / RECs
- Demand response



## Greening Our Operations: Energy Intensity Reduction is a Key Driver



**Proprietary innovations** 



## **Engaged Employees Teaming with our Partners**

- Energy Kaizen / Continuous Improvement Events
- Focused Plant Work Teams / Networks
- DOE "Save Energy Now" Assessments
  - 35 DOE Energy Savings Assessments Completed
  - \$9.0 million of identified savings opportunity
  - \$4.5 million of savings implemented
  - 290 Owens Corning Participants









## **Engaged Employees Teaming with our Partners**

#### DOE

- "Save Energy Now" Energy Savings Assessments
- Industrial Technologies Program Superior Energy Performance for the development of an international standard for energy performance (ISO 5001)
- "Energy Matters" Publications...best practice sharing

#### **EPA**

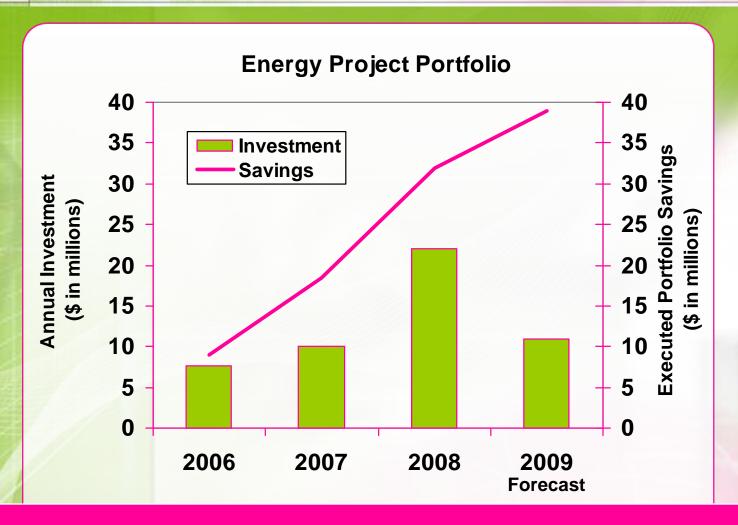
- Partner: Climate Leaders, SmartWay Transport, WasteWise and Green Power Partnership (OC among top 30 Fortune 500 companies for Green Power consumption)
- Energy Star Glass Industry Focus Group...best practice sharing, benchmarking, and metrics

#### <u>NIST</u>

Advanced Technology Program



## Capital-light Proven Solutions



A pipeline of rapid-return capital projects



## **Proven Solutions – Key Areas of Focus**

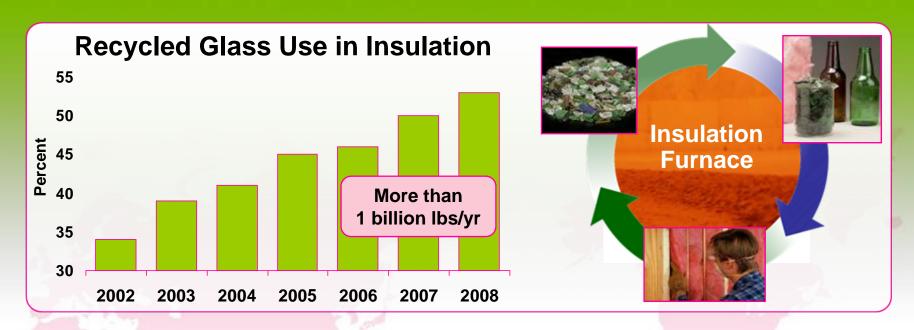
- Proven Solutions: Small Capital Investments
  - Insulation Steam Lines, Ovens, Pipes
  - Lighting Upgrades
  - Power Factor Correction
  - VFDs on Pumps, Motors, Fans
  - Compressed Air Upgrades
  - Burner Tuning, Boiler Control Upgrades
  - Leak Detection Natural Gas, Compressed Air, Water
- Heat Recovery
  - Waste Heat to Absorption Chillers
  - In-Line Stack Heat Exchangers for Space Heating / Product Curing
  - Preheating of Combustion Air







### **Proprietary Innovations**





#### **Leading Edge Technology**

- Energy and emissions reduction
- Manufacturing cost reduction
- Capacity increase
- Longer asset life



## Massive opportunity in our markets

1. Greening our Operations

2. Greening our Products

3. Accelerating energy efficiency in the built environment

Winning with green with our customers





## Greening our Products: Leading in green / sustainable building

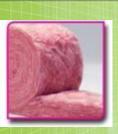
#### Common themes include products that...

- 1. Save Energy or Water
- 2. Use Salvaged, Recycled or Agricultural Waste Content
- 3. Conserve Natural Resources through
  - Reducing Material Usage
  - 2. Exceptional Durability or Low Maintenance
- 4. Avoid Toxic or Other Emissions
- 5. Contribute to Safe, Healthy Indoor Environment
- 6. Are Reusable or Recyclable at End of Life

**Compelling Products & Messaging that cuts through** 



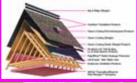
## **Building Materials**

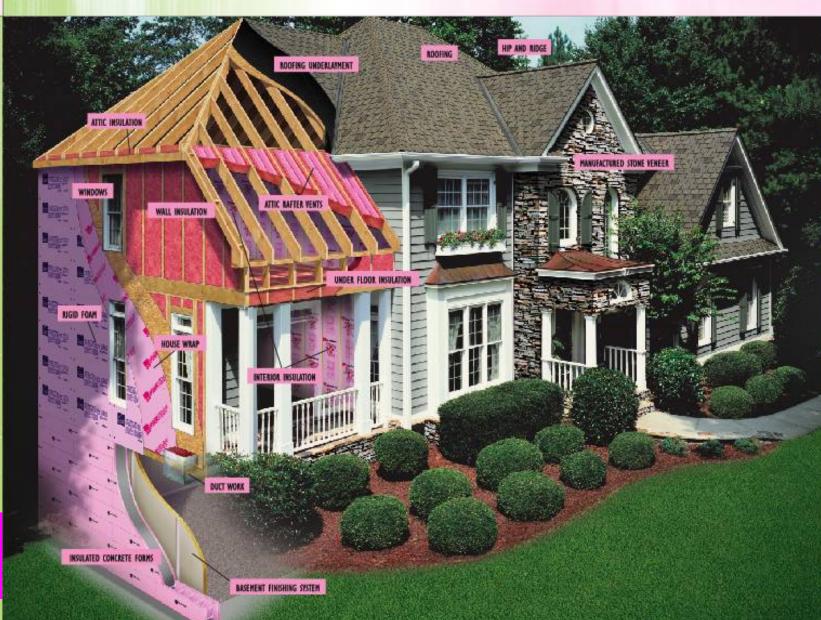








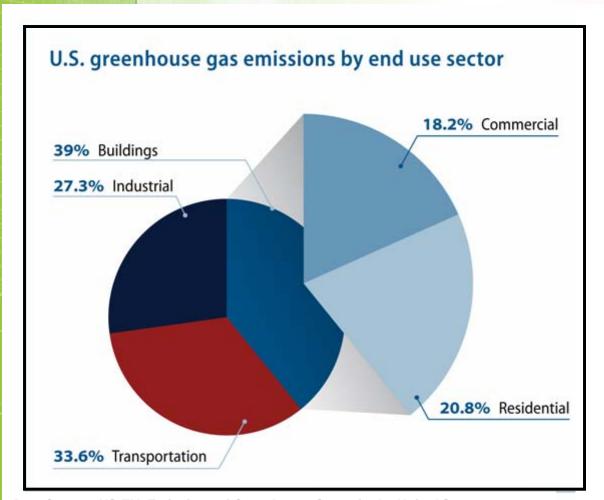






## **Buildings Dominate CO2 Emissions**

...more than industry and more than transportation



Data Source: US EIA Emissions of Greenhouse Gases in the United States 2007 Table 6. Chart by permission of the Center for American Progress

**Buildings Consume the most Energy** 







## **Innovations in Energy Efficiency**













- Heating/cooling energy up to 1/3
- Air leakage up to 70%
- Outside noise up to 40%
- Moisture, allergens, pollutants





## Composites – Innovations in Renewables



Owens Corning is the leading supplier of glass reinforcements for wind power today





## Owens Corning Global Energy Summary

- ✓ We understand energy consumption and how to reduce it...
- Our actions are delivering reductions in energy consumption and GHG emissions in our operations and in our markets
- ✓ We effectively team with our partners in government to learn, grow, and develop practical solutions – THANK YOU





