



INNOVATIONS FOR LIVING™



OWENS CORNING GHG REDUCTION STRATEGIES

Barry Hornbacher & Dave Palochko

Climate Leaders Meeting

October 2008

Greening our Operations: Our Commitment and our Progress

- 2002 Base Year
- 2007
- 2012 Goal



Intensity Goals OC Global Goals 2002-2012

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

Climate Leaders

OC US Goal

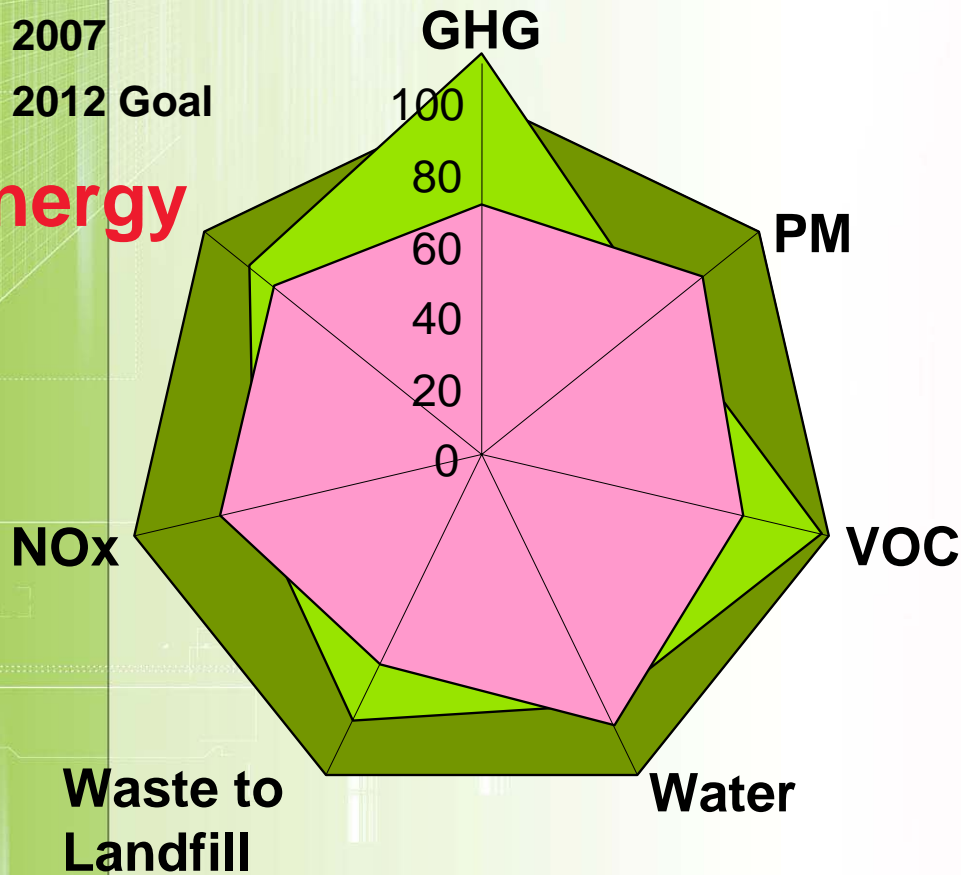
2006-2012

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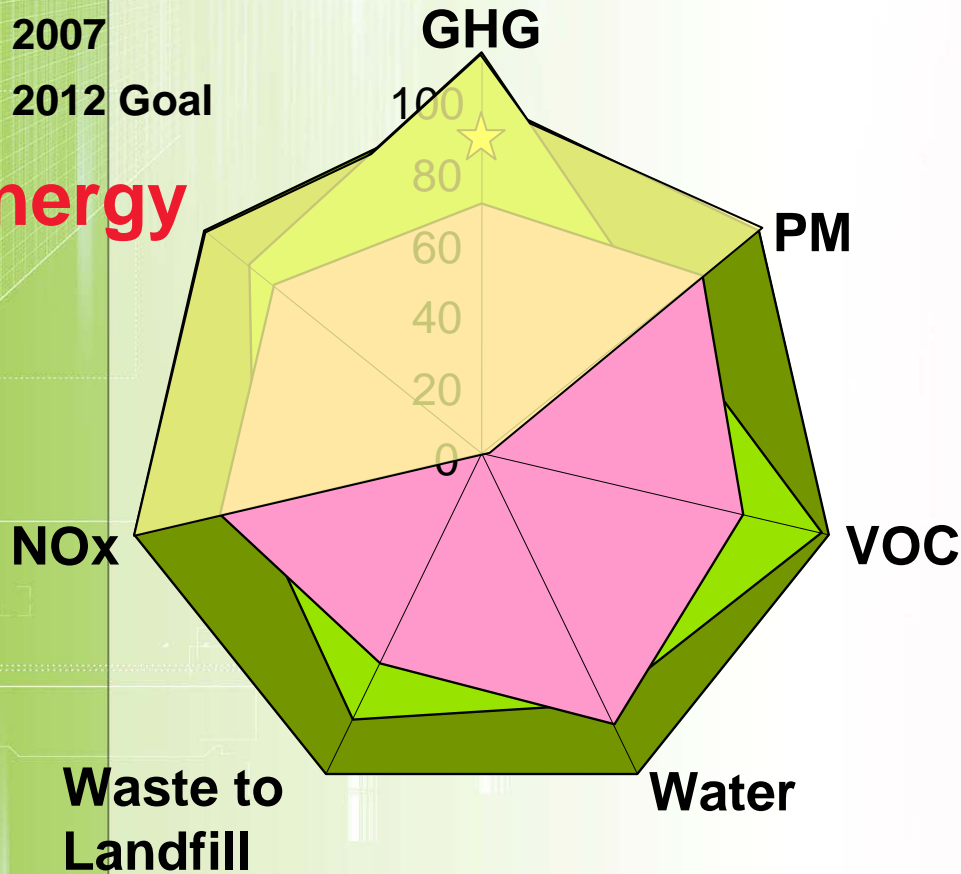
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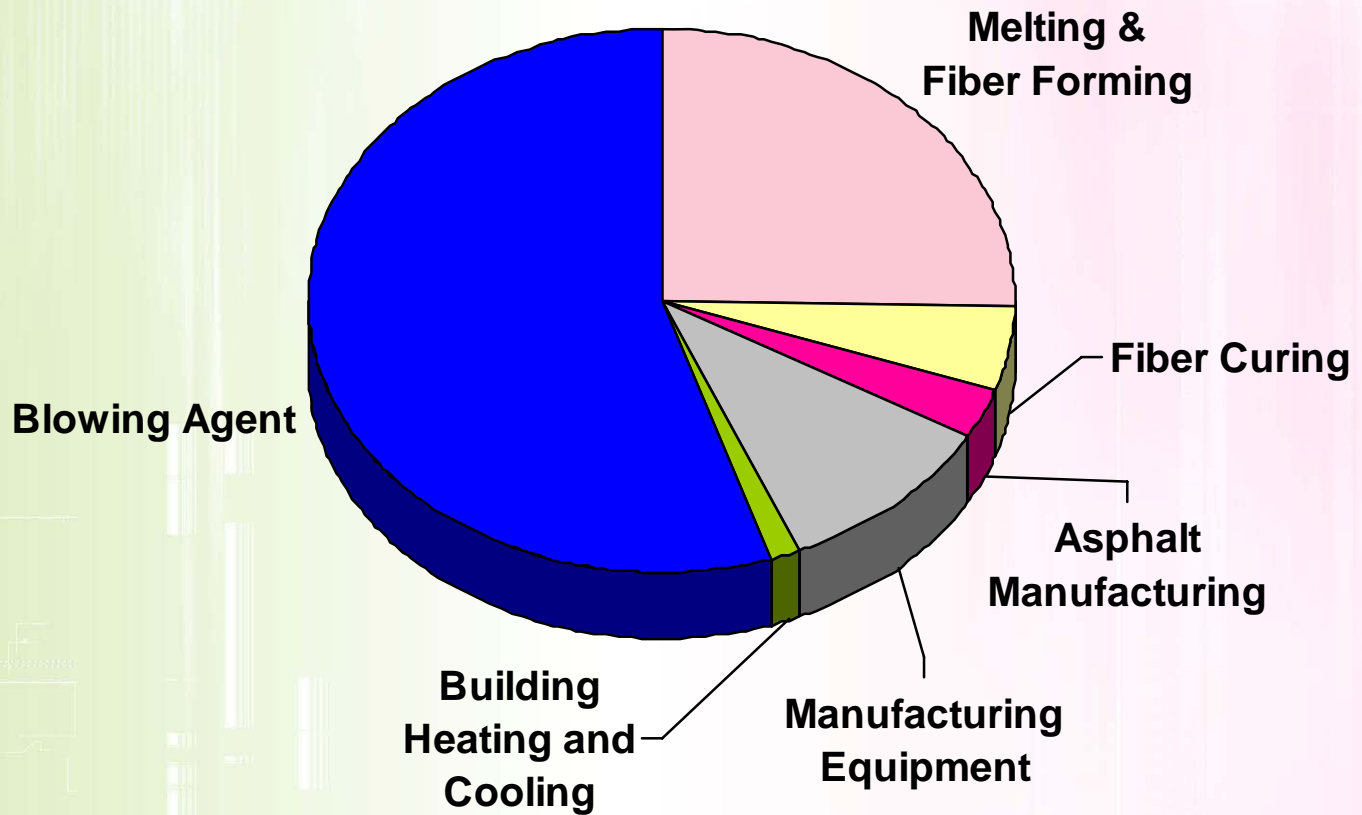
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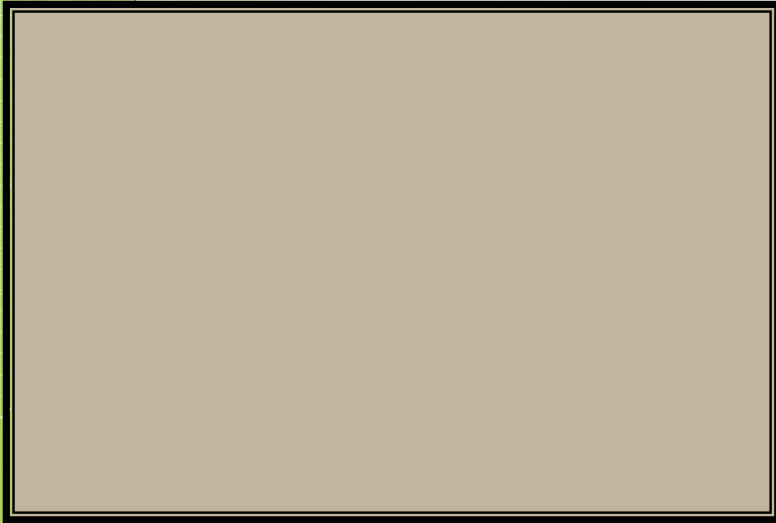
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Greenhouse Gas by Process



Driving Energy Efficiency

Proven/Low/No Cost Solutions



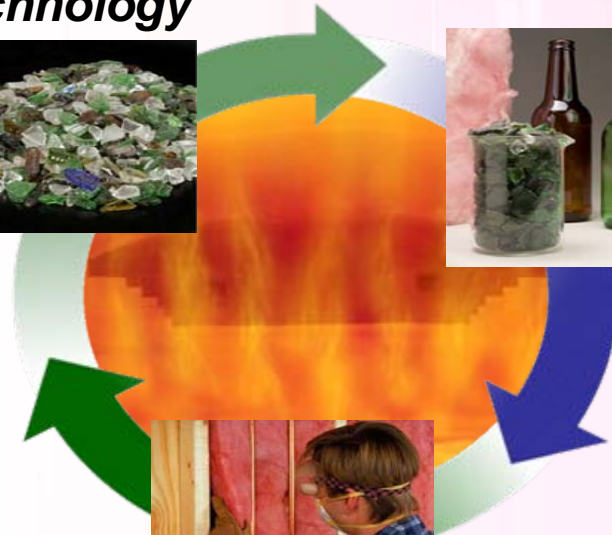
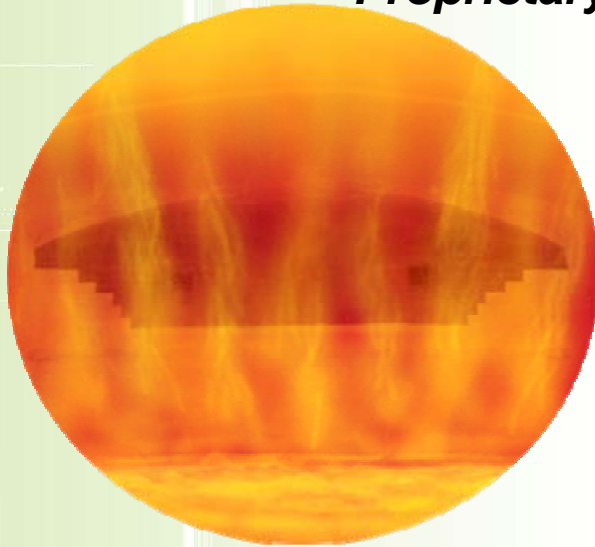
Other examples include
Relamping projects
Efficient Motors for Fans, Blowers, etc
Employee Engagement

Driving Energy Efficiency

Proven/Low/No Cost Solutions

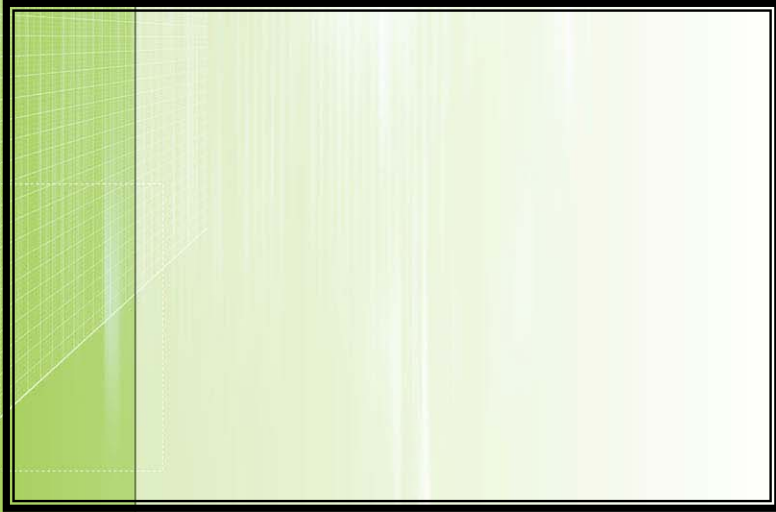


Proprietary Technology



Driving Energy Efficiency

Proven/Low/No Cost Solutions

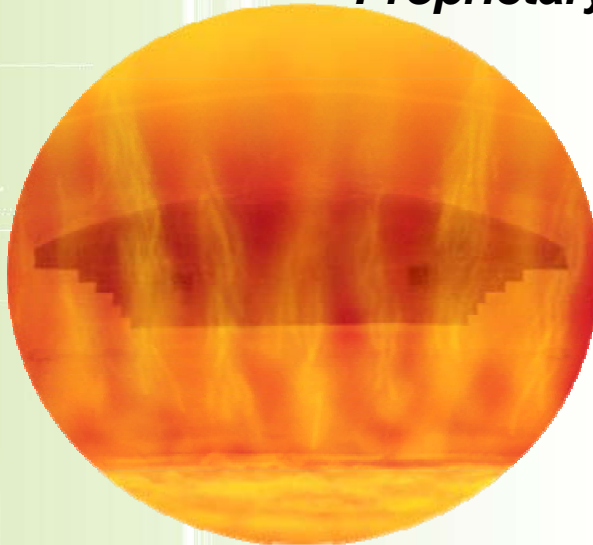


Emerging Technologies

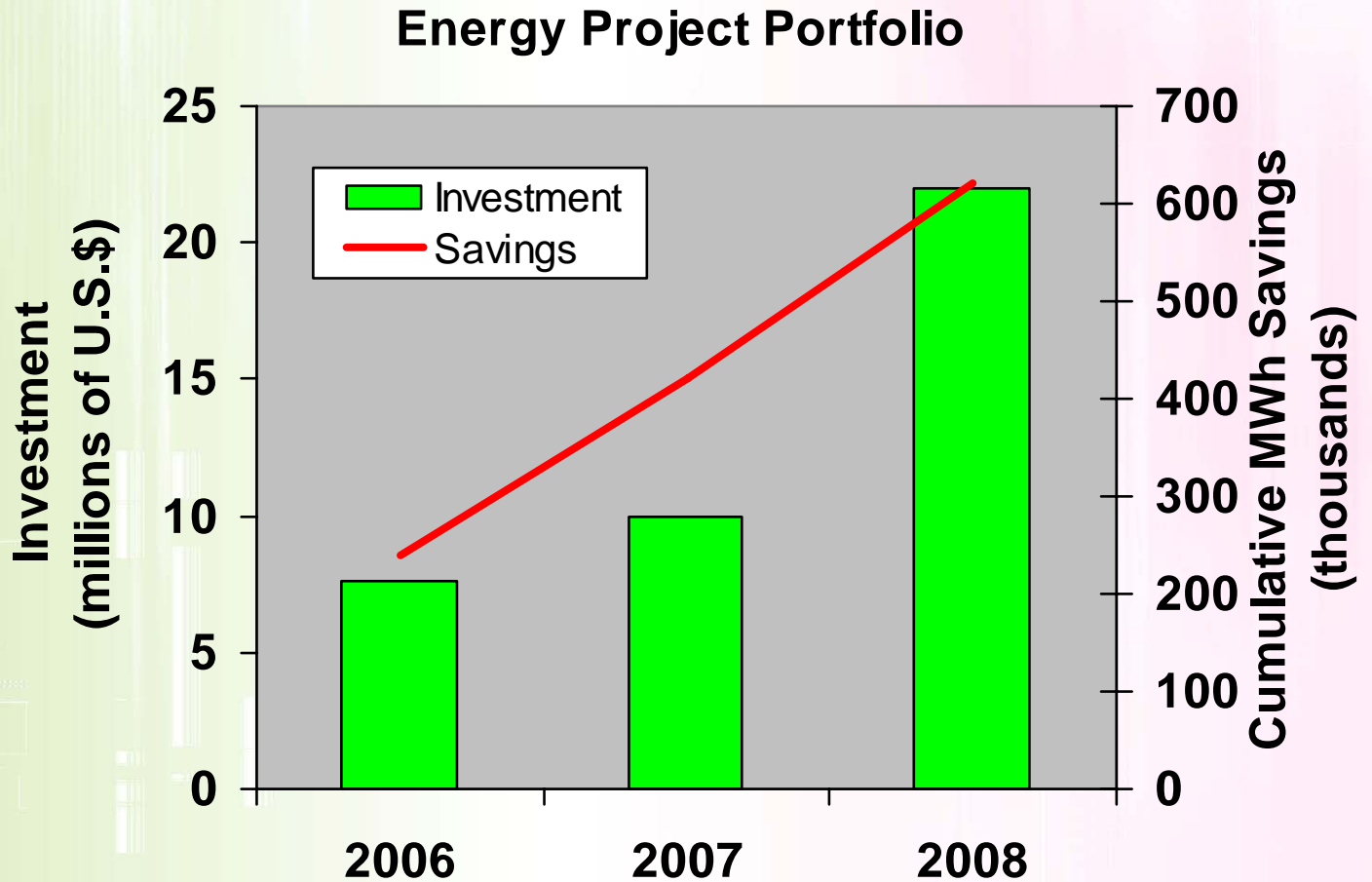


- *Waste Heat Recovery*
- *Blowing Agent Conversion*

Proprietary Technology



Energy Project Portfolio



Reduction Strategies Continued

- **Capital Expenses –Central Pool Allocated for Energy & Environmental Projects to Meet Sustainability Goals**
- **Business Units/Facilities ID Projects and Request Funds**
 - Good Financial Payback (< than 2.5 years)
 - The Right Thing To Do
 - Footprint Reductions Needed to Meet Goals
- **Renewable Energy Projects**
 - Photovoltaic at 2 Plants
 - RECs for Gresham,OR
 - Evaluating other possibilities

Lessons Learned

- **Best Practices: Provide Central Funding Pool Allocated to Business Units To Really Make Progress**
- **Low Cost/No Cost – Natural Gas Leak Detection**
 - Infra-Red Camera Analyzer
 - Footprint Reduction Culture
 - Contractor (Auburn Environmental) hired
 - Check all Significant Facilities Globally for Leaks by 12/2009

Lessons Learned

- **Need Significant Solution to Blowing Agent Issue**
 - Developed Solution in NA with an HFC blend
 - Must Convert Machinery
 - Innovating New Lower GWP Alternatives for Global Applications

HCFC 142b GWP 2400

HFC Blend GWP 600

CO2 GWP 1

GHG Emissions Intensity Reduction: Taking Action to Create Value

- ✓ **We understand our energy use, process emissions and how to reduce them**
- ✓ **Our actions are delivering results**
- ✓ **We have visibility to further significant reductions**
- ✓ **Q & A**