

# Commitment to Sustainability



"We are proud of our sustainability achievements in 2010. And, as we transition to our 2020 sustainability goals, we are more committed than ever to continuous improvement in this vital area. Together, I believe that we can – and will – make a substantial impact in effectively advancing economic growth along with social progress and environmental stewardship."

*Michael H. Thaman*

Michael H. Thaman  
Chairman and Chief Executive Officer

## Our Environmental Footprint

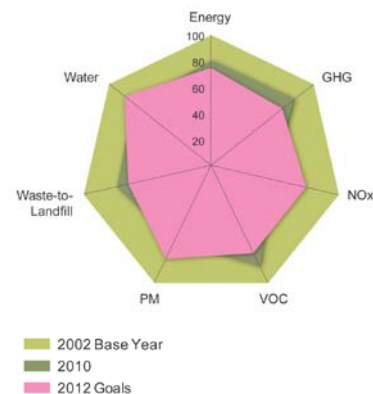
Owens Corning is committed to continuous reduction of resource use and environmental emissions from its operations. We focus on seven key areas:

- Energy
- Greenhouse Gases (GHG)
- Nitrogen Oxides (NOx)
- Volatile Organic Compounds (VOC)
- Particulate Matter (PM)
- Waste-to-Landfill
- Water Usage

These key areas of focus are represented in the adjacent footprint graphic. The 2002 baseline year is shown as the light green outside border of the spider chart, representing 100 percent of each area. The pink center footprint indicates the company's 10-year goals based on intensity, the amount for a specific quantity of output. The dark green footprint represents our status at the end of 2010.

Owens Corning's 2010 results clearly show the company has reduced its environmental intensity footprint since the base year of 2002, exceeding three of its reduction goals.

### Emissions and Resource Footprint



	2012 Goals	2010 Results
Energy	25%	19%
GHG	30%	19%
NOx	25%	52%
VOC	25%	14%
PM	20%	35%
Waste-to-Landfill	35%	25%
Water	15%	23%

## 2010 Business Metrics

Economic (in millions)	2010	2009	2008
<b>Sales</b>			
United States	\$3,231	\$3,261	\$3,728
Europe	573	523	914
Asia Pacific	678	604	674
Other	515	415	531
<b>Cost of sales</b>	<b>4,041</b>	<b>3,954</b>	<b>4,925</b>
<b>Science and Technology (R&amp;D) expenses</b>	<b>76</b>	<b>61</b>	<b>69</b>
<b>Selected Cash Distribution</b>			
Cash paid for taxes	16	18	33
Purchases of treasury stock	125	3	100
Cash paid for interest	115	120	120
Additions to plant and equipment	314	243	434
Cash Giving	1.26	1.50	1.46
<b>Total Assets</b>	<b>7,158</b>	<b>7,167</b>	<b>7,222</b>
<b>Long-term debt</b>	<b>1,629</b>	<b>2,177</b>	<b>2,172</b>
<b>Total Equity</b>	<b>3,686</b>	<b>2,853</b>	<b>2,780</b>

Social	2010	2009	2008
<b>Employees (no of permanent personnel in thousands)</b>			
Asia Pacific	3	2.6	3
Europe	2.5	2.6	3
Latin America	1.8	1.7	2
North America	8.7	9	10
<b>Turnover Rate (Note 1)</b>	<b>15 %</b>	<b>19 %</b>	<b>19 %</b>
<b>Female Employees</b>			
Officers	8.6 %	7.5 %	8.9 %
Managers	18.4 %	18.4 %	17.8 %
Staff	32.7 %	52.5 %	35.5 %
Primary	12.8 %	15.1 %	13.9 %
<b>Health &amp; Safety</b>			
Recordable Injury & Illness Rate (RIR)	0.66	0.83	0.88
Lost and Restricted Workday Injury Rate (LWIR)	0.33	0.52	0.57
Fatalities	0	0	0

Environmental	2010	2009	2008
<b>Air Emissions</b>			
Greenhouse Gases (millions of metric tons per year)	4.5	5.2	6.9
NOx (thousands of metric tons per year)	3.3	3.6	5.0
VOC (thousands of metric tons per year)	2.1	1.8	2.6
Particulate Matter (thousands of metric tons per year)	2.1	2.1	2.6
<b>Consumption of Natural Resources</b>			
Energy (millions of MWh)	8.1	7.5	9.4
Water (millions of cubic meters)	11.5	9.7	14.0
<b>Non-Hazardous Waste</b>			
Waste to Landfill (thousands of metric tons per year)	227	173	309
<b>Environmental Compliance</b>			
Significant Environmental Actions (Note 2)	0	0	0
Cost of Significant Environmental Actions (\$,000)	0	0	0

Note 1: In 2008, 6% of the turnover is attributed to plant closings, restructuring and divestitures.  
Note 2: Significant Environmental Actions are defined by the total cost of fines, capital expenditures, etc. equal to \$100M or greater



INNOVATIONS FOR LIVING®







## Energy-Saving Products

Our commitment to sustainability starts with energy-saving and durable products. Below are just a few of our many products that conserve energy and reduce greenhouse gas emissions.

### Composites

We are a global producer of glass fiber reinforcements, technical fabrics and non-woven materials, which are more economical, durable and lighter weight than traditional materials. Our Ultrablade™ fabric solutions help enable wind turbines to increase energy output and operate effectively at lower wind speeds by reducing blade weight.

In addition, the 2010 FIFA World Cup Soccer City Stadium featured concrete panels reinforced with our Cem-FIL® alkali-resistant glass fibers, which reduce the weight and thickness of concrete by up to 10 times compared to conventional panels.

### Insulation

Using proper building insulation is a cost-effective greenhouse gas abatement measure. Our fiberglass and foam insulation products consume no additional resources as they continue to save energy year after year. Notably, fiberglass insulation saves 12 times the energy used to produce it – in its first year installed alone.

Through the innovation of EcoTouch™ insulation with PureFiber® Technology, Owens Corning customers can now enjoy high-performance residential and commercial insulation that is formaldehyde free and certified to have a minimum of 50 percent recycled glass content – the highest certified percent available in the industry.

### Roofing

Owens Corning developed and commercialized the fiberglass-reinforced asphalt shingle starting in the 1970s. This year, we introduced our Duration® Premium Cool shingles. They use a new, highly reflective granule technology that bounces back the sun's rays, helping to keep roofs cooler and reduce carbon dioxide emissions. They also meet ENERGY STAR® requirements for solar reflectance of .25, the fraction of solar energy reflected by the roof.

In addition, we are the first roofing manufacturer to establish a program for recycling shingles. We connect contractors with convenient recycling facilities through a national strategic alliance with Heritage Environmental Services, the largest privately held environmental services company in the U.S. As part of this groundbreaking program, contractors take the Preferred Contractor Shingle Recycling Pledge, committing to recycle their shingle tear-offs.

Since the program began in 2009, we have recycled 50,000 tons of shingles, the equivalent of approximately 16,000 roofs.



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## Our 2020 Goals

Given our progress, our current environmental footprint and the evolving global views on what matters most, we are announcing our 2020 goals, with 2010 as our new baseline year. They not only include aggressive targets for our environmental footprint, but also tackle new areas such as product life cycle and supplier sustainability.

**Energy** – 20% intensity reduction compared to 2010

**GHG** – 20% intensity reduction compared to 2010

**Toxic Air Emissions** – 50% combined intensity reduction compared to 2010 of the following five toxic air emissions, each with equal weighting: hexavalent chromium, formaldehyde, manganese, polycyclic aromatic compounds and ammonia

**PM** – 15% intensity reduction, compared to 2010, of fine particulate matter (PM<sub>2.5</sub>), which is the fraction of particulate matter that has a average diameter of less than or equal to 2.5 micrometers, compared to 2010

**Waste-to-Landfill** – Long-term goal of zero waste-to-landfill, with an interim goal of 70% intensity reduction by 2020 compared to 2010

**Water** – 35% intensity reduction compared to 2010

**Product Sustainability** – By 2015, we will make transparent the total life cycle assessment of all core products, implement continuous and measurable improvements on environmental impacts, as well as create the pipeline and increase value through sustainability in the innovation process

**Supplier Sustainability** – An active supply chain sustainability program will be in place with communication, audits and engagement with all top tier suppliers

## Recognition

In 2010, Owens Corning was added to the **Dow Jones Sustainability World Index** and now ranks among the top 10 percent of the biggest 2,500 companies worldwide based on long-term economic, environmental and social criteria.

Owens Corning ranked 57th in **Newsweek's Green Ranking** of the 500 largest publicly traded companies in America, based on our environmental performance, policies and reputation.



## Corporate Citizenship

Owens Corning is committed to responsible corporate citizenship, contributing our time, talent and resources towards building strong, cohesive communities.

We **donate products and supplies** for the building and rehabilitation of low-income housing and for other pressing needs such as disaster relief. For example, 250 Owens Corning employee volunteers built the company's seventh and largest Habitat for Humanity home in 2010. Volunteers spent approximately 1,100 hours over eight weeks building the home and Owens Corning donated 10 different products to provide a new home for a family of six in Toledo, Ohio.

Owens Corning employees **contributed more than 7,000 hours of service** during 2010 to a wide variety of community projects, including visits to the Ronald McDonald House in Granville, Ohio; food preparation for the

homeless at the Houston Food Bank; and a day of singing and drawing with special needs children at the Shanghai Yue Miao Caring Center.

We also proudly **support educational excellence**, and have given in excess of \$650 thousand since 2005 toward education initiatives such as Junior Achievement and Adopt-A-School programs.

For more than 30 years, the **Owens Corning Foundation** has been at work responding to the needs of our stakeholder communities. A generous matching gift program encourages employee giving, and the Foundation is a strong supporter of United Way campaigns in the U.S.

Owens Corning ranked 68th in **Corporate Responsibility Magazine's 12th annual "100 Best Corporate Citizens List"** based on more than 320 data points in seven categories: environment, climate change, human rights, philanthropy, employee relations, financial performance and governance.

This pamphlet is an abbreviated introduction to Owens Corning's commitment to sustainability. Visit <http://sustainability.owenscorning.com> for the full 2010 report.