

# SUSTAINABILITY OVERVIEW

For MWV, sustainability is both a business strategy and an ethical imperative. It's the driving force behind our innovative products and environmentally responsible manufacturing processes. It's also the foundation of a company built on integrity, accountability and stewardship.

## Our Mission

MWV creates value for stakeholders by providing the packaging and business solutions people want and need to improve their lives while using sustainable business practices to fulfill our own environmental, social and economic responsibilities – and those of our customers.

### WHAT DOES SUSTAINABILITY MEAN TO MWV?

In a word, everything. It represents a focused, ongoing commitment to make responsible business decisions that benefit our people, our society and our environment. Each day, we integrate sustainability into our packaging solutions in the way we source raw materials, including the use of recovered materials; and design, manufacture and transport our products. Sustainability also influences our business practices—from the research behind our innovative and market-relevant products, to the ethical business conduct of our employees, to our many initiatives to help communities grow and prosper.

### HOW DOES MWV MEASURE AND DEMONSTRATE ITS CORPORATE STEWARDSHIP AND SUSTAINABILITY RESULTS?

Stakeholders care about our sustainability performance, and we're committed to rigorous measurement and transparent reporting of clear-cut business results and implementation timelines.

Our world-class results reflect detailed and responsible internal policies, effective management systems and clear benchmarks based on mandated and voluntary performance standards. MWV:

- Meets the carbon reduction targets of the Chicago Climate Exchange (CCX), the world's first and North America's only legally binding rules-based greenhouse gas emissions allowance trading system.
- Ensures compliance and drives best practices through environmental management systems developed on an ISO 14001 framework.
- Requires all international and domestic suppliers to comply with applicable laws and domestic suppliers to comply with regulations, and in many cases, meet higher performance standards.
- Holds leadership positions in—and actively supports—several key initiatives, including:



- Does not own or accept wood from old growth forests, rainforests or forests of exceptional conservation value. We also scrutinize our fiber supply carefully to ensure that our products contain only legally harvested and properly obtained wood and chips.

- Partners with leading conservation groups, including:



THE CONSERVATION FUND  
*America's Partner in Conservation*

- Manages industry-leading safety practices to support a safe and healthy work environment.
- Contributes positively to the communities in which we live and operate through a broad range of initiatives that include:
  - › **Employee Relief Fund**, which provides financial assistance to eligible employees who face significant hardships resulting from natural disasters or personal tragedies.
  - › **The MWV Foundation**, which makes financial and service contributions to health and human services; education; forestry and environment; civic; and arts and culture efforts. Our 2008 contributions totaled more than \$4.1 million. The Foundation also supports MWV employees' volunteer efforts.

# SUSTAINABILITY OVERVIEW

CONTINUED

SUSTAINABILITY

## WHAT EXTERNAL RECOGNITION HAS MWV RECEIVED FOR ITS SUSTAINABLE BUSINESS PERFORMANCE?



### Named to the Dow Jones Sustainability World Index – 2005, 2006, 2007, 2008, 2009

- › Launched in 1999, the Dow Jones Sustainability Indexes are the first global indexes tracking the financial performance of the leading sustainability-driven companies worldwide.
- › Ranked best-in-class for the fourth straight year in DJSI World's Containers & Packaging group.

### Ranked as one of the World's Most Ethical Companies in 2007

- › Published in Ethisphere Magazine, these rankings recognize commitment to community, innovation and best practices.

MWV attracts, develops and retains a diverse workforce and provides opportunities for career training and development at all of our locations.



# REDUCING OUR CARBON FOOTPRINT

MWV's commitment to sustainability extends from our corporate offices to our global manufacturing operations. We are meeting our responsibility by developing innovative new processes that make our operations more energy efficient and reduce our carbon footprint.

## WHAT IS A CARBON FOOTPRINT?

A carbon footprint measures the total impact of a company's operations on the climate. It consists of the greenhouse gases, measured in units of carbon dioxide (CO<sub>2</sub>), that are released into the atmosphere through the combustion of fossil fuels—chiefly coal, oil and natural gas. Carbon emissions enter the atmosphere either directly from the burning of fossil fuels, or indirectly from the generation of electricity.

## CALCULATING OUR CARBON FOOTPRINT

A carbon footprint is typically expressed as metric tons of carbon dioxide or tons of carbon emitted, usually on an annual basis. Customers also look for information on the carbon footprints of specific products and solutions. MWV currently measures its direct and indirect carbon dioxide emissions, and is evaluating different methodologies to identify the measuring system that best meets the needs of our customers.

## OUR COMMITMENT

### At MWV, we are fulfilling our responsibility

to lower emissions through our commitment to reduce direct carbon dioxide equivalents by 6 percent from a 1998-2001 baseline by the end of 2010 through our participation in the Chicago Climate Exchange (CCX). We share with investors our progress at our three U.S. mills and our Rigesa operation in Brazil through the Carbon Disclosure Project.

## A COMPREHENSIVE STRATEGY

From co-generation of electricity and steam to voluntary commitments to lower carbon dioxide emissions, MWV is working on many levels to reduce harmful greenhouse gases.

- [MWV self- or co-generates over 70% of the total electricity required by our U.S. integrated paper mills.](#) We use carbon neutral and renewable biomass fuels for approximately 70 percent of all the energy used for MWV pulp and paper operations. These fuels contribute energy without adding new sources of carbon dioxide to the atmosphere. As a result, they add no carbon dioxide to our carbon footprint.
- [We monitor and report carbon dioxide emissions from our facilities on a regular basis.](#) To date, we collect data from facilities with the greatest energy requirements. We are expanding data collection to all manufacturing facilities worldwide.
- [MWV is a founding member of the Chicago Climate Exchange,](#) the world's first and North America's only legally binding rules-based greenhouse gas emissions allowance trading system. It is also the world's only global system for emissions trading based on all six greenhouse gases.
- [MWV has made voluntary legally binding commitments to reduce our carbon dioxide emissions.](#)
  - › We report our direct carbon dioxide emissions from our pulp and paper mills, specialty paper mills and specialty chemical plants to CCX.
  - › Our U.S. mills are pursuing a voluntary carbon dioxide reductions goal set for the

American Forest & Paper Association's Climate VISION Commitment.

- [We develop and utilize products that reduce carbon dioxide emissions,](#) including the wood-based carbon products from our Specialty Chemicals business. From gasoline emissions-control canisters for automobiles, to purification of water and food applications, our activated carbon products remove impurities during the production process.
- We recognize the importance of regulation of greenhouse gas emissions. [MWV is a member of Duke University's Climate Change Policy Partnership,](#) an industry-university collaboration designed to help inform policy making decisions surrounding climate change.

# REDUCING OUR CARBON FOOTPRINT

CONTINUED

CARBON FOOTPRINT

## CCX FACILITIES

	2003 <sup>1</sup>	2004	2005	2006	2007	2008
Scope 1 (direct emissions) activity tonnes CO <sub>2</sub> e emitted <sup>3</sup>	2,786,875	2,718,305	2,466,641	2,388,892	2,248,635	2,066,817
Scope 2 (indirect emissions) tonnes CO <sub>2</sub> e emitted	993,671	928,129	1,066,838	919,618	897,789	686,675
MWh <sup>4</sup> of purchased electricity	1,751,592	1,705,619	1,770,347	1,729,745	1,686,252	1,261,176
Percentage of energy use (MMBtu) <sup>5</sup> from self-generated or purchased biomass fuels	60.5	61.8	64.5	65.2	67.4	65.7%

<sup>1</sup> Data represent significant sites in the U.S. (CCX facilities). Our significant U.S. manufacturing facilities account for 98% of our direct CO<sub>2</sub> emissions in the U.S.

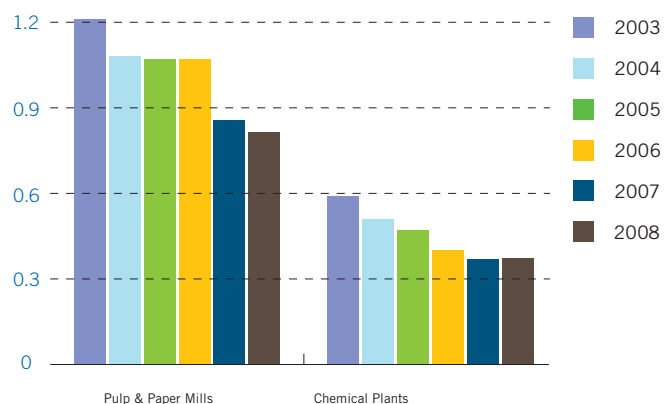
<sup>3</sup> CO<sub>2</sub>e (carbon dioxide equivalent) – Standard way of describing the effect of all six greenhouse gases in one measurement, based on the degree of harm to the atmosphere from each gas relative to one unit of CO<sub>2</sub>.

<sup>4</sup> MWh – Megawatt hours or 1,000 kilowatts of electricity.

<sup>5</sup> MMBtu – Million British thermal units.

**Note:** Results do not reflect the Coated Papers Group, which was sold in May 2005 and the Charleston, SC papermill which was sold in July 2008.

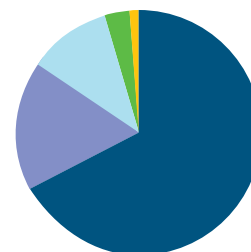
## INTENSITY CARBON DIOXIDE EMISSIONS (DIRECT AND INDIRECT – TONS / TON OF PRODUCT)



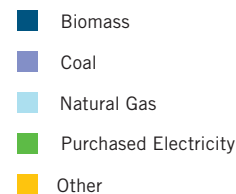
Business Segment	2003	2004	2005	2006	2007	2008
Pulp & Paper Mills	1.06	0.97	0.98	0.96	0.87	0.84
Chemical Plants	– <sup>2</sup>	0.40	0.43	0.37	0.36	0.36

## ENERGY RESOURCES

2008



U.S. Energy Sources <sup>1</sup>	2008
Biomass	65.7
Coal	17.2
Natural Gas	10.7
Purchased Electricity	4.3
Other <sup>2</sup>	2.0



<sup>1</sup> As a percentage of MMBtu

<sup>2</sup> Includes fuel oil, tire delivered fuel and propane

# FIBER: A VITAL AND SUSTAINABLE RESOURCE

Sustainable forestry practices both protect forestlands – and ensure a renewable long-term supply of fiber. MWV uses sustainable sources of fiber in our packaging products. This commitment extends from the forestlands we own to the fiber we purchase from conscientious third-party suppliers.

MWV depends on sustainable sources of fiber to supply the world with innovative packaging products. We protect this valuable resource by using responsible practices to manage our timberland assets, and by sourcing additional fiber from responsible third parties. MWV does not own or accept wood from old growth forests, rainforests or forests of exceptional conservation value. We also scrutinize our fiber supply carefully to ensure that our products contain only legally harvested and properly obtained wood and chips.

## We secure fiber resources from three primary sources:

- Company lands and other sources of certified fiber
- Individual and family forest owners
- Residues from other wood-using industries



### THIRD-PARTY CERTIFICATION

Third-party fiber certification provides assurance that paper and packaging products contain fiber from sustainably managed forests. MWV verifies that all the fiber we use is managed or procured according to accepted standards for sustainable forestry.

#### Sustainable Forestry Initiative (SFI)

MWV actively supports the SFI and has chosen to certify to this group's increasingly rigorous standards. These widely accepted standards have earned the endorsement of the Programme for the Endorsement of Forest Certification (PEFC), the world's largest forest certification system.



SFI bases its fully independent program on the simple premise that we can protect and manage our forests and produce the wood and paper products that help the global economy grow. The program integrates growing and harvesting of trees with the protection of wildlife, plants, soil, water and air quality. Over 127 million acres of land are certified by independent, third-party audits to meet the SFI standard.

#### Labeling



MWV is approved to use the SFI chain of custody label for products manufactured in our North American paperboard mills. This label indicates

that the fiber used to manufacture these products meet the requirements of the SFI, and that an independent, third-party auditor has verified that we meet these requirements.

#### Chain of Custody

Chain of custody is the process of tracking and recording the possession and transfer of wood fiber from the forest of origin, through the manufacture, production and processing stages and ultimately, to its end use. Chain of custody certification standards have been developed that enable third party validation of fiber tracking.

MWV supports multiple chain of custody certification standards and implements systems that are most appropriate for our businesses. Current chain of custody standards implemented at MWV

# FIBER: A VITAL AND SUSTAINABLE RESOURCE

CONTINUED

FIBER

40%

Amount of MWV-owned forestland in forest plantations located principally on former agricultural lands or degraded forest sites.

68%

Amount of fiber MWV's Brazilian paperboard and packaging subsidiary, Rigesa, sources from its own forests.

23%

Amount of wood from MWV-owned forestland used annually by the company's U.S. integrated pulp and paper mills.

2,000,000

Number of pine seedlings distributed through the Rigesa Cooperative Forest Management, a program designed to promote sustainable forestland management to private farmers and small business owners.

16%

Amount of wood we use that comes from residues from other wood-using industries that would otherwise be sent to a landfill.

60%

Higher productivity rate of Rigesa's forests compared to the Latin American average.

include SFI, PEFC, CERFLOR and FSC. These certifications provide third party validation of MWV's sustainable fiber sourcing practices, and helps assure our customers and consumers of the company's responsible environmental stewardship



## CERFLOR

MWV's 71,900 hectares (177,593 acres) of Brazilian forestlands are independently certified to the Sistema Brasileiro de Certificação Florestal (CERFLOR) Standard. The CERFLOR standard is the Brazilian equivalent to the SFI standard and is accepted by the PEFC.

## PRIVATELY OWNED FORESTLANDS

We work closely with private and non-industrial land owners in the U.S. and Brazil through our Cooperative Forest Management program (CFM®). We provide professional advice on sustainable forestry practices to ensure the land is providing both the wood products that people need and the forests that they want. The successful CFM program has been active in the U.S. for more than 50 years, and active in Brazil for more than 20 years.

Each year, we distribute 2 million pine seedlings through the Rigesa CFM, a program designed to promote sustainable forestland management to private farmers and small business owners. Rigesa's forests are 60% more productive than the Latin American average.

## BALANCING SUPPLY, SUSTAINABILITY AND SHAREHOLDER INTERESTS

MWV ensures a stable, long-term supply of fiber

by balancing its economic interests with a deep commitment to environmental and social stewardship. With changing land use requirements and innovative forestry management technologies, we can now generate the same amount of fiber product we did 30 years ago by using half as much land. As a result, we are pursuing the right strategy for the right land at the right time. [To this end, our Community Development and Land Management Group is evaluating alternative ways to manage our U.S. land holdings.](#) These include long-term fiber supply agreements, retail sales and a long-term master planning process for a portion of our land near Charleston, South Carolina. For more information, please visit [www.eastedisto.com](http://www.eastedisto.com).

# SUSTAINABLE PACKAGING SOLUTIONS

From our roots in the paper industry to today's innovative approach to packaging solutions, MWV's commitment to sustainability is a critical part of our heritage and the driving force of our future. We're committed to helping customers achieve business results that fulfill their sustainability promises.

## Materials

Our commitment to providing sustainable solutions begins with producing a wide range of high-quality paperboard products that are available around the world. The fiber used in paperboard is from a renewable resource—trees—and all MWV paperboard materials can be recycled multiple times. Whether virgin or recycled fiber, bleached or natural, coated or uncoated, paperboard remains true to our definition of an environmentally responsible material.

### PRINTKOTE®

A favorite of the packaging industry for many years, MWV Printkote is known around the world for its bright white appearance, glossy coated side, reliable converting performance and versatility. This packaging has broad applications in health and beauty, pharmaceutical, media and electronics, and food as specified under USFDA and ISEGA standards.

### CNK®

MWV's Coated Natural Kraft (CNK) products are well suited for packaging applications that demand strength and durability in a range of environments. They feature a smooth, glossy, white coated side over an uncoated, unbleached Kraft back. Because CNK also offers superior printability on the coated side and compliance with USFDA and ISEGA food contact standards, CNK covers a wide range of food packaging needs including dry, refrigerated or frozen foods. It is the industry standard for beverage multipacks, and with its high compression strength, CNK provides improved stacking and cube utilization, and can eliminate the need for outer transport packaging.

### PRINTKOTE® EAGLE

With 30% post-consumer recycled fiber, this bright white paperboard combines the appearance, smoothness, printability and strength of virgin fiber board with the resource benefit of recycled content. Printkote Eagle is USFDA and ISEGA compliant, meets the Dairyman's Standard for cleanliness, and is manufactured under the ISO 14001:2004 environmental standard. One of the newer offerings in MWV paperboard, Printkote Eagle is ideal for a variety of packaging applications including cosmetics, toys, food, media and pharmaceuticals.

### PCF CUP STOCK

Through close collaboration between customer and product development partners, MWV developed the first FDA-compliant paperboard cup stock that contains from 10% to 30% post-consumer recycled fiber.

### OFFICE PRODUCT STOCKS

MWV makes a wide range of paperboard products that serve the needs of office product manufacturers for use around the world. These include hanging file folders and manila file folders, expanding cinnamon wallet folders and golden envelope stocks. All MWV office product materials are available with a range of recycled content percentages that help office product manufacturers meet the sustainability requirements of government agencies and retailers worldwide.

### NATRALOCK®

Natralock is a security package that simply makes sense. It's an environmentally responsible solution that provides all the security, visibility and durability of polyvinylchloride (PVC) clamshell

packaging at a lower raw material cost with less impact to the environment and with an improved customer experience. When compared directly to the PVC clamshell, a Natralock package requires up to 80% less plastic. The primary substrate used in Natralock is MWV coated paperboard, which makes it resistant to tearing and easy to seal with low heat. The paperboard is suitable for recycling

MWV defines environmentally responsible materials as those that are renewable, recyclable, biodegradable, compostable or those that are made with recycled content.

### OTHER MATERIALS

MWV also uses other materials, such as plastics, in developing solutions for consumer packaged goods. MWV is researching new and innovative ways of using this versatile material—from recycled plastic to biodegradable plastic—and we offer North America's first commercially viable polylactic acid-based plastic carton, NatureSource™ Visual Packaging.

# SUSTAINABLE PACKAGING SOLUTIONS

CONTINUED

SOLUTIONS

## Finished Packages

In 2006, MWV opened the Center for Packaging Innovation (CPI) in Raleigh, North Carolina, to give our customers hands-on access to the latest technology and innovations in packaging substrates and design—and advice to support converting, fulfillment and transportation.

These sustainable packaging solutions reflect our awareness of our customers' changing needs—and our commitment to provide innovative solutions that take brand awareness, sustainable packaging and consumer-driven needs to a new level.

in community-based paperboard recycling programs. Natralock is ideal for packaging electronics, hardware, cosmetics, toys and media as well as for club store packaging where high visibility and theft resistance are important.



### NATURESOURCE™

NatureSource Visual Packaging is a revolutionary, clear folding carton derived from corn, a natural, renewable resource. It is made from polylactic acid (PLA), a versatile polymer made from corn starch. NatureSource delivers cost and productivity benefits that are competitive with petroleum-based, traditional polymers with the added value of being recyclable and commercially compostable. It is optimal for health and beauty products, cosmetics, fragrances, media and apparel.



# DOW JONES SUSTAINABILITY WORLD INDEX

Stakeholders and customers look for third-party recognition that companies have achieved industry leadership in sustainable business practices and environmental and social responsibility. The Dow Jones Sustainability World Index (DJSI World) ranks MWV as one of the world's top performing companies.



For the last five years, MWV has been selected as a member of the prestigious Dow Jones Sustainability World Index (DJSI World). And for four years in a row, MWV has ranked best-in-class in the Containers & Packaging group, demonstrating outstanding leadership in the global industry.

Put simply, the DJSI World connects corporate

The DJSI World represents the top 10 percent of the world's largest 2,500 companies in the Dow Jones Global Index.

Launched in 1999, the DJSI World is the first equity benchmark to track the financial performance of sustainability leaders on a global scale.

sustainability with financial performance, and highlights those companies with the best record. This distinction assures customers and investors that a respected outside organization has thoroughly evaluated MWV on sustainability issues relevant to business today and has ranked our company as a leader among its peers.

## CORPORATE SUSTAINABILITY DRIVES SHAREHOLDER VALUE

Corporate sustainability leaders achieve long-term shareholder value by gearing their strategies and management to harness the market's potential for sustainability products and services while at the same time successfully reducing and avoiding costs and risks.

The quality of a company's strategy and manage-

ment, as well as its performance in dealing with opportunities and risks deriving from economic, environmental and social developments, can be quantified and used to identify and select leading companies for investment purposes.

## ACHIEVING THE DJSI RANKING: HOW ARE SUSTAINABILITY LEADERS IDENTIFIED?

The DJSI employs a systematic corporate sustainability assessment to identify the leading sustainability-driven companies worldwide. It applies a defined set of criteria and weightings to eligible companies to assess the opportunities and risks deriving from economic, environmental and social developments.

Participating companies submit a questionnaire, company information and third-party documents, as well as contacts between the analysts and companies. The external assurance report by PriceWaterhouseCoopers ensures that the corporate sustainability assessments are completed in accordance with the defined rules.

Based on this corporate sustainability assessment, companies are ranked within their industry group and selected for the DJSI if they are among the sustainability leaders in their field.

Leading sustainability companies display high levels of competence in addressing global and industry challenges in a variety of areas:

- **Strategy** Integrating long-term economic, environmental and social aspects in their business strategies while maintaining global competitiveness and brand reputation.
- **Financial** Meeting shareholders' demands for

sound financial returns, long-term economic growth, effective risk and crisis management, open communication and transparent financial accounting.

- **Customer and Product** Fostering loyalty by investing in customer relationship management and product and service innovation that focuses on technologies and systems. Companies receive high marks for using financial, natural and social resources in an efficient, effective and economic manner over the long-term.
- **Governance and Stakeholder** Setting the highest standards of corporate governance and stakeholder engagement, including corporate codes of conduct and public reporting.
- **Environment** Having policies in place and proof of performance that these policies and practices are utilized to minimize environmental impact in manufacturing practices and in the product produced, including life cycle thinking on product development and practices to address climate change strategy.
- **Employee** Managing human resources to maintain workforce capabilities and employee engagement through best-in-class organizational learning and knowledge management practices and remuneration and benefit programs.

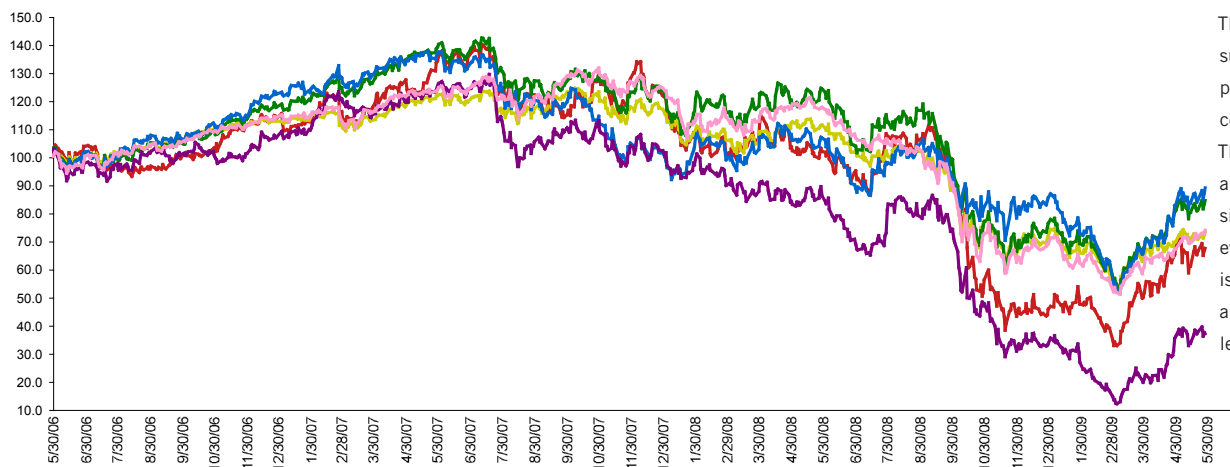
Dow Jones Sustainability World Index web site:  
» [www.sustainability-index.com](http://www.sustainability-index.com)

# DOW JONES SUSTAINABILITY WORLD INDEX

CONTINUED



## RELATIVE PERFORMANCE (%)



The DJSI World connects corporate sustainability with financial performance, and highlights those companies with the best record. This distinction assures customers and investors that a respected outside organization has thoroughly evaluated MWV on sustainability issues relevant to business today and has ranked our company as a leader among its peers.

- MWV Corporation (NYSE:MWV)
- S&P 500 Index (^SPX)
- Dow Jones U.S. Containers & Packaging Index
- S&P 500 Containers and Packaging Industry Index
- Dow Jones U.S. Forestry & Paper Index
- Dow Jones Sustainability World Composite Index

Industry leaders go beyond their own environmental best practices to inspire a higher level of accountability and performance in others. MWV works with customers, partners and competitors to achieve shared sustainability goals. We have contributed our resources and insights to organizations that champion important environmental and social causes.

## AN ACTIVE VOICE FOR SUSTAINABILITY

MWV accepts leadership roles in organizations that promote environmental and social responsibility, and we encourage customers, partners and competitors to lend their support. Together, we contribute our knowledge and industry insights to shape public perception, influence government regulation and identify and publicize market trends.

MWV actively supports a variety of organizations that protect the environment and promote sustainable business practices. The following list represents a small number of the organizations we have joined in our pursuit of sustainable business practices.



**Sustainable Packaging Coalition (SPC)** As a founding member of the SPC, MWV supports the important work this organization does to improve environmental performance at every link of the packaging industry's supply chain. SPC advocates and communicates a positive, robust environmental vision for packaging and supports innovative, functional packaging materials and systems that promote economic and environmental health. Inspired by cradle-to-cradle principles, it is transforming packaging into a system that encourages economic prosperity and a sustainable flow of materials. » [www.sustainablepackaging.org](http://www.sustainablepackaging.org)



**The Nature Conservancy (TNC)** In 2005 our Brazilian subsidiary, Rigesa, and the MWV Foundation teamed with The Nature Conservancy to preserve and recover the Brazilian Pine, Araucária, one of the Atlantic coast's most valuable ecosystems. » [www.nature.org](http://www.nature.org)



**Sustainable Forestry Initiative (SFI)** The fully independent SFI program rests on the simple premise that we can both protect our forests and responsibly produce the wood and paper products our economy needs. The program integrates the perpetual growing and harvesting of trees with the protection of wildlife, plants, soil, water and air quality. All MWV company-owned forestlands and procurement practices in North America are certified to SFI standards. By year end 2007, all MWV operations in North America will expand their certification programs to include SFI chain of custody. » [www.sfiprogram.org](http://www.sfiprogram.org)



**World Business Council for Sustainable Development (WBCSD)** MWV has joined hands with more than 190 multi-national corporations committed to sustainable development. We work within our industry sector to lead initiatives in the areas of climate, energy and fiber procurement. » [www.wbcd.ch](http://www.wbcd.ch)



**Duke University's Climate Change Policy Partnership** As a member of Duke University's Climate Change Policy Partnership, MWV supports research and policy analyses on climate change. Duke provides this important information to government, corporate and environmental leaders to inform policy making decisions. » [www.nicholas.duke.edu/institute/ccpp](http://www.nicholas.duke.edu/institute/ccpp)



**Chicago Climate Exchange (CCX)** As a founding member of the CCX, MWV has committed to an annual emissions reduction schedule that by 2010 will reduce emissions to 6 percent below a baseline (defined as the average of annual emissions from 1998-2001). » [www.chicagoclimatex.com](http://www.chicagoclimatex.com)

# ENVIRONMENTAL STEWARDSHIP

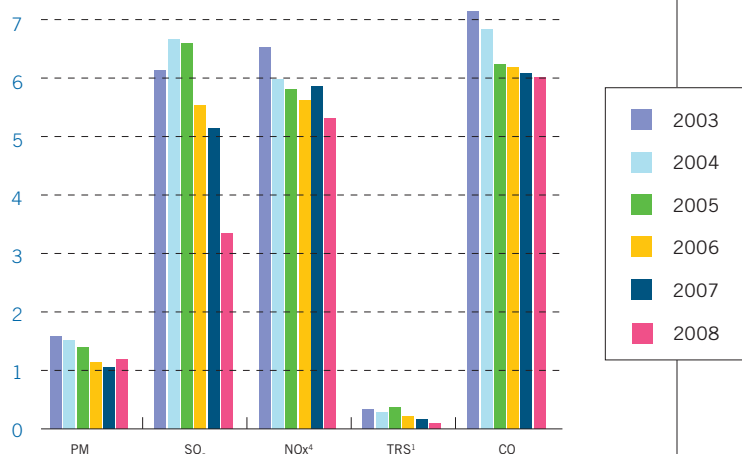
CONTINUED

ENVIRONMENTAL STEWARDSHIP

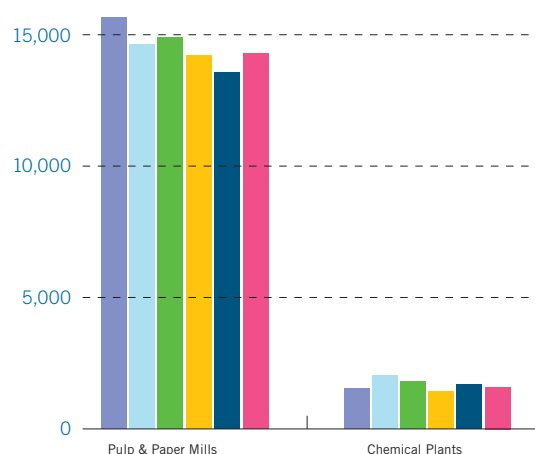
## A LEGACY OF LEADERSHIP

MWV's commitment to stewardship builds on our long history of environmental responsibility. More than 20 years ago, we voluntarily identified and adopted responsible practices and began to measure our performance. For the past 15 years, we have reported on our environmental record and corporate responsibility efforts.

### AIR EMISSIONS – PULP & PAPER MILLS (POUNDS / TON OF PRODUCT)



### TOTAL WATER USED (GALLONS / TON OF PRODUCT)



	2003	2004	2005	2006	2007	2008
Particulate Matter (PM)	1.59	1.52	1.40	1.14	1.17	1.29
Sulfur Dioxide (SO <sub>2</sub> )	6.13	6.66	6.60	6.25	5.20	4.33
Nitrogen Oxides (NO <sub>x</sub> ) <sup>2</sup>	6.52	5.98	5.81	6.93	5.86	5.30
Total Reduced Sulfur (TRS) <sup>1</sup>	0.34	0.29	0.36	0.21	0.22	0.18
Carbon Monoxide (CO)	7.14	6.83	6.24	6.18	5.14	5.01

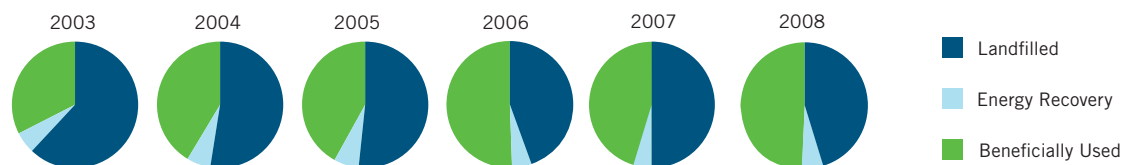
<sup>1</sup> Pulping mills only

<sup>2</sup> NO<sub>x</sub> not regulated in Brazil

Business Segment	2003	2004	2005	2006	2007	2008
Pulp & Paper Mills	15,673	14,631	14,884	13,400	13,102	13,591
Chemical Plants <sup>1</sup>	1,970	2,566	2,305	1,812	2,128	2,105

<sup>1</sup> We began the measurement of water used in all facilities of this business segment, in both a consistent and meaningful way, in 2004.

### WASTE MATERIALS (% OF TOTAL TONS GENERATED)



Types of Disposal	2003	2004	2005	2006	2007	2008
Landfilled (%)	62.2	52.7	51.7	44.6	50.0	47.0
Energy Recovery (%)	5.5	6.1	6.4	4.9	6.0	3.4
Beneficially Used <sup>1</sup> (%)	32.3	41.2	41.9	50.5	44.0	49.6
Total	100	100	100	100	100	100

<sup>1</sup> Turning a waste otherwise sent to landfills into products, including energy sources.

# SUSTAINABILITY: A GLOSSARY OF TERMS

Sustainable business practices require a series of complex processes that begin with responsible sourcing, employ renewable or recovered energy in manufacturing, and use renewable and recycled materials in our products. MeadWestvaco works at every stage of the production process to preserve and reuse natural resources.

» Biodegradable	Organic materials such as food scraps, paper and grass clippings that are capable of being broken down by microorganisms into simple compounds such as carbon dioxide, water or minerals.
» Biomass	A greenhouse gas-neutral fuel source derived from biological materials such as wood waste used in the paper manufacturing process.
» Carbon footprint	The total amount of carbon dioxide and other greenhouse gases emitted over the full life cycle of a product, operation or service.
» Carbon neutral	Can describe an operation, activity or product that either does not add new sources of carbon dioxide to the atmosphere, or counteracts the release of carbon dioxide.
» Greenhouse gas (GHG)	Components of the atmosphere that contribute to the warming of the earth's surface, with six gases standardly identified, i.e. carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons and sulfur hexafluoride.
» Compostable	Materials capable of biodegrading in a compost site; compost sites can include both backyard or industrial systems.
» Fiber certification	Third-party verification from a recognized source that fiber used in paper and packaging products contains only legally harvested, and properly obtained, wood and chips.
» Recoverable	Capable of being returned to a useful resource through material recycling, composting or incineration with energy recovery.
» Recyclable	Material capable of being recovered from the solid waste stream and then sorted, processed and converted into raw materials suitable for use in the manufacture of a new product.
» Recycled content	The portion of a product or package that contains materials that have been recovered or otherwise diverted from the solid waste stream either during the manufacturing process or after consumer use.
» Renewable resource	A naturally occurring raw material or form of energy with the capacity to replenish itself through ecological cycles and sound management practices.
» Reusable	Capable of being reused for the same purpose.
» Sustainable packaging	As a founding member of the Sustainable Packaging Coalition (SPC), MeadWestvaco worked with the SPC to define sustainable packaging. Sustainable packaging is sourced responsibly, designed to be effective and safe throughout its life cycle, meets market criteria for performance and cost, and is made entirely using renewable energy. Once used, it is recycled efficiently to provide a valuable resource for subsequent generations. In summary: a true cradle-to-cradle system for all packaging.
» Virgin material	New material such as fiber or resin that has never been used by a manufacturer before to make paper or other products.

Definitions do not constitute legal environmental claims, but are defined for the sole purpose of MeadWestvaco marketing communications.