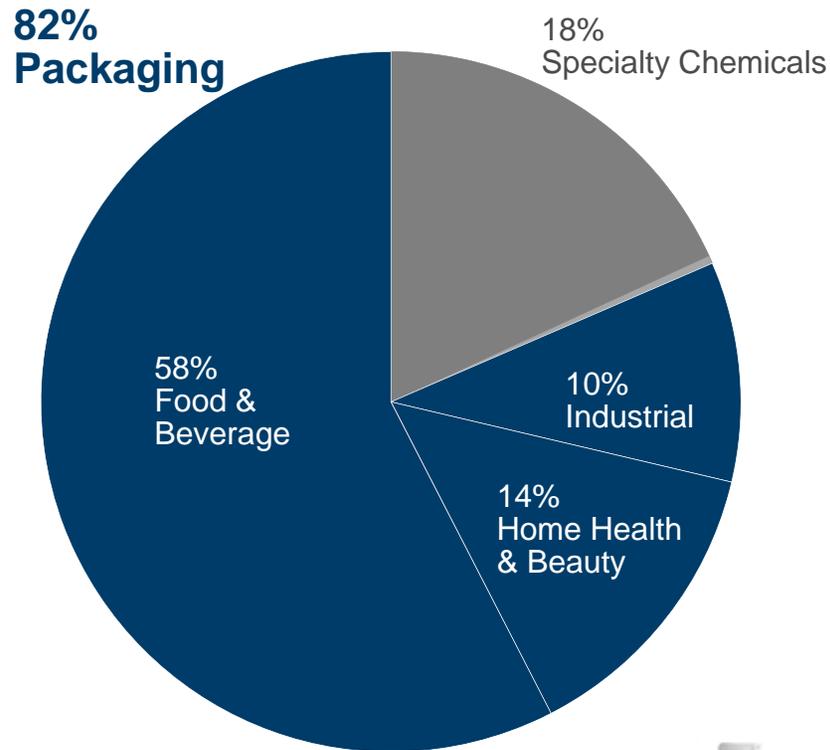


Reducing Waste

DEQ Conference: 12 March 2014
Britt Staley



MWV: A Global Packaging Leader



\$5.4 billion in sales (2013)
16,000 employees worldwide
25% revenue in emerging markets
100+ nations where we market our products



From source to solution, we put sustainability into action

Efficient and effective operations driven by innovation

- Green Globes certified HQ
- 68% of our energy needs come from renewable biomass
- On track to achieve our commitment to reduce CO₂e emissions 25% by 2015

Certified responsible practices throughout the supply chain

- Principles of Conduct for Global Suppliers Compliance Process
- PEFC, SFI, and FSC Certification and Chain of Custody available
- 100% of fiber from responsible sources

Sustainable products and solutions that improve our world

- Natralock® security packaging
- Tango® Advantage coated cover
- Evotherm® warm-mix asphalt
- MWare® food service paperboard

MEMBER OF
Dow Jones
Sustainability Indices
In Collaboration with RobecoSAM

GREEN
BUILDING
INITIATIVE

CDP
DRIVING SUSTAINABLE ECONOMIES

SUSTAINABLE PACKAGING
COALITION
A PROJECT OF GREENBLUE

MWV Named to Dow Jones World Sustainability Index (DJSI) for 10th Year

- DJSI recognizes the world's leading companies in economic, environmental and social performance
- The 2013 World Index includes 333 “best in class” companies

MEMBER OF

**Dow Jones
Sustainability Indices**

In Collaboration with RobecoSAM 

MWV Named to CDP's Carbon Disclosure Leadership Index (CDLI) for the 3rd Year

- The CDP is an international nonprofit working to transform the way the world does business to prevent climate change and protect our natural resources. CDP collects climate change data from thousands of companies worldwide
- CDLI highlights companies in the top 10% of the S&P 500, based on their disclosures of efforts to monitor and reduce greenhouse gas emissions and their understanding of climate change-related issues



Because sustainability is complex, our approach covers many dimensions

Energy & Climate Change

- Lowering our environmental footprint
- Responsibly using natural resources
- Supporting energy policies that include new and traditional sources

Supply Chain

- Influencing sustainable practices
- Implementing rigorous policies
- Following procedures that focus on customer service and end-to-end process



Water

- Borrowing, treating and recycling at our mills
- Consuming as little water as possible
- Pursuing new ways to minimize consumption

Community & Social Development

- Developing land in sustainable ways
- Establishing standards worldwide
- Actively supporting our communities

Packaging & Recycling

- Developing innovative solutions that:
 - Maximize the useful life of materials
 - Minimize waste
 - Add value to brands



Raw Materials



Application Drives Material Choice

100% Virgin		100% Recycled
<ul style="list-style-type: none"> ✓ Chasing arrows logo:  ✓ Responsibly sourced renewable material 	Green Image	<ul style="list-style-type: none"> ✓ Chasing arrows logo:  ✓ “Package made from recycled material”
<ul style="list-style-type: none"> ✓ Reduced system cost (BDL, rejects) 	Cost	<ul style="list-style-type: none"> ✓ Lower initial price point
<ul style="list-style-type: none"> ✓ Fiber strength/stiffness ensure robust package ✓ Safe for direct food contact 	Brand Protection	<ul style="list-style-type: none"> ✓ Higher caliper range (thicker options) available
<ul style="list-style-type: none"> ✓ Smooth, printable surface makes graphics pop and creates luxury feel 	Premium Positioning	

Forest and Chain of Custody Certification Promote Responsible Forestry

PEFC

FSC



Legal Compliance

Prohibit illegal timber



Respect for Stakeholders

Protect ecologically or culturally important sites and habitats
Recognize indigenous and workers' rights and land tenure



Responsible Use and Regeneration

Maintain sustainable harvest levels
Promote prompt regeneration
Manage species at risk



Transparency

Represent social, economic and environmental interests
Operate independently and require 3rd party audits
Include credible complaints and appeals process

Forest certification was established to stop abuse of natural resources, but only 10% of the world's forests are certified, primarily in the developed world

MWV Paperboard and Certification Options

3 Southern U.S. mills

- All are SFI, PEFC CoC certified
- Covington, Evadale are FSC CoC Certified
- Also certified to SFI standard for our forestlands and wood procurement



1 Brazilian mill

- PEFC, FSC CoC certified
- Our forestlands are Cerflor certified



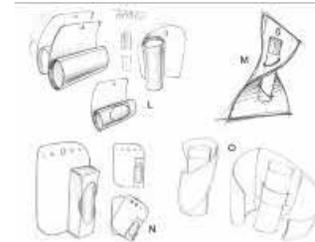
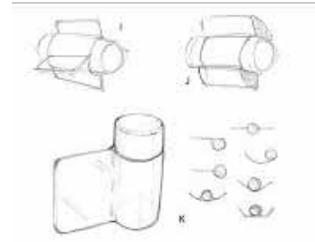
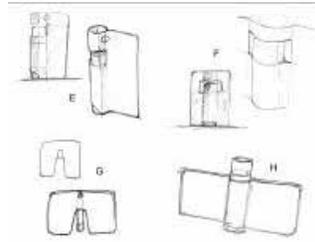
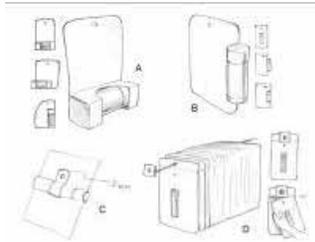
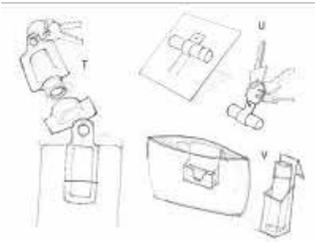
The mark of
responsible forestry



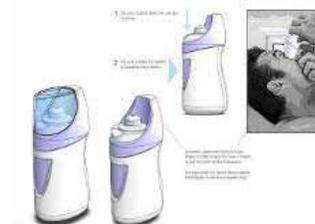
2 Indian mills

- FSC CoC certified

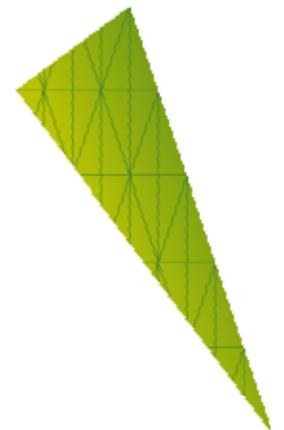
MWV products are considered low risk, relative to illegal activity, Lacey and EU regulation non-conformance, and we offer SFI, FSC and PEFC certified products



Concept 3



Design



Optimized packaging protects product and minimizes waste



Fit for Use

- Optimized packaging reduces waste by:
 - Minimizing material usage
 - Minimizing product loss/damage
- MWV dispensers are designed to dispense the right amount of product

MWV Multipacks can reduce bottle breakage and damage claims by 90%

$$\begin{array}{l} \$0.00168 \\ \text{per bottle} \end{array} \times \begin{array}{l} 540 \text{ million} \\ \text{bottles} \end{array} = \begin{array}{l} \sim \$1 \text{ mm} \\ \text{estimated annually savings} \end{array}$$



MWV's lightweight pump saves one customer 800k lbs of plastic per year

- Innovative design requires fewer components
- Pearl Mini is 11% / Pearl is 7% lighter than the next alternative
- Reduces fossil fuel consumption and GHG emissions throughout the supply chain



VersaPlast: 'Made in USA' + smaller design yield carbon footprint savings

VersaPlast is 15-20% lighter than alternatives

VersaPlast	21.54 g
Competitor 1	25.7 g
Competitor 2	26.9 g

Comparative Transport Footprint for US delivery
(est. kg CO₂e)



1x



4x



8x



End of Life

MWV

Educating stakeholders on appropriate recyclability claims

“It is **deceptive** to misrepresent, directly or by implication, that a product or package is recyclable”

A product is “recyclable” if it can be recovered from the waste stream through an established recycling program

Qualifying text is needed if recycling collection sites are available to less than a substantial majority (60%) of consumers or communities



MWare® Offers a Compostable Alternative

- Provides food service operators high-quality food service containers with features such as recycled content and commercial compostability
- Certified compostable in commercial composting facilities in US and Europe, MWare Balance breaks down to soil nutrients within 12 weeks



Green2Go movie

