Marine Debris

Plastics Industry’s Work on Solutions

Keith Christman
Managing Director
Plastic Markets
Plastics Division Members

- BASF
  The Chemical Company
- Braskem
- Chevron Phillips Chemical Company LP
- Covestro
- Dow
- DSM
  Engineering Plastics
- DuPont
- ExxonMobil
- LANXESS
  Energizing Chemistry
- LyondellBasell
- NOVA Chemicals
- Shell Chemicals
- Solvay
  asking more from chemistry
- TRINSEO
- Total
- VI The Vinyl Institute
Our View

• Plastic litter in the environment is unacceptable

• Plastics deliver significant societal benefits:
  • Energy, GHG & resource savings
  • Reduced food waste, improved quality of life

• Benefits won’t matter if plastic litters/harms our environment
The environmental cost to society of plastic use in the consumer goods sector is 3.8 times less than alternative materials.

Trucost, Plastics and Sustainability: A Valuation of Environmental Benefits, Costs and Opportunities for Continuous Improvement, July 2016.
Reduced Food Waste

Fresh for 14 days

New potatoes in-store wastage DOWN to <1%

Grapes in-store wastage DOWN by 20%

Source: Packaging in Perspective, Advisory Committee on Packaging, Supported by INCPEN

Bunches of identical bananas stored for 7 days loose and in a modified atmosphere bag
Latest Science & Global Declaration
8 MMT/YR Plastic Enters Ocean from Mismanaged Waste

Leakage by Country (Estimated)

Source: Science Magazine, Feb 2015, Jambeck et. al.
Global Declaration

• Announced at UN/NOAA 5th International Marine Debris Conference, March 2011

• Six-point strategy for industry action

• Advocates close cooperation with range of stakeholders to create solutions

• Transparent progress reports every 2 years

• 69 associations from 35 countries

• 260 projects since launch in 2011
Declaration Contents

We will:

- Contribute solutions through partnerships to prevent marine debris
- Research to understand scope, origin, impacts
- Promote enforcement of existing laws to prevent marine litter
- Spread knowledge of efficient waste management systems
- Enhance recycling/energy recovery opportunities
- Steward plastic pellets from supplier to customer
Making Progress

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www.marinelittersolutions.com
Waste Management—Key to Prevention
Partnerships for Litter Prevention

Keep California Beautiful, Cal State Parks, & Cal Trans

- Added 700 bins in coastal and other locations
- Expanded to California coastal highway rest stops with Caltrans
- Divert ~45 tons of plastics and over 105 tons of other recyclables
Ongoing Projects

Hawaii - Ala Moana Park
• Partnership with Honolulu
• Installing covered bins
• Pre-installation Litter index

Trinity River
• Partnership with Meadows Center & EPA’s Trash Free Waters program
• Track, remove and prevent trash from entering Trinity River waterways
Shoreline Trash Reduction & Prevention
• 4 areas with chronic shoreline trash & marine debris issues

Beachy Clean & Thanks for Keeping it Beachy Clean
• Clean Virginia Waterways community outreach program
• Influence behaviors of visitors to beach resorts and beach communities
Promoting Policy

Supported “Microbeads Free Waters Act of 2015”

Save Our Seas Act - S. 756
Marine Debris Act reauthorization

Advocating for increased funding for NOAA Marine Debris program
International Partnership

• Community-based supply chain for discarded nets in the Philippines; 26 community groups

• Empowers local communities to take control & clean up environment; additional money

• Support for new sites in Panay; Assess viability of additional Net-Works™ hub in Masbate Island

• Assess viability & develop model for trash for health program
Trash Free Seas Alliance ®
Enhance Recycling & Recovery
Increasing Non-Bottle Rigid Plastic Recycling
WRAP Education & Outreach

GOAL: Double film recycling by 2020 to 2 billion pounds

Provide resources and best practices
Expanding network of stakeholders
Growing Wrap & Bag Recycling

For Use in U.S./Canada

For Export

 Millions of Pounds

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Stewarding Plastic Pellets

• Best practices to contain pellets, flakes and powder from loss

• Covers manufacturing through transportation and end use

• An international model
Thank you!

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