

Sustainable Materials Management & the CPG industry CT Study Commission meeting

June 21, 2017





Agenda

I. Background

II. Industry's Efforts

III. EPR

IV. Opportunity in CT

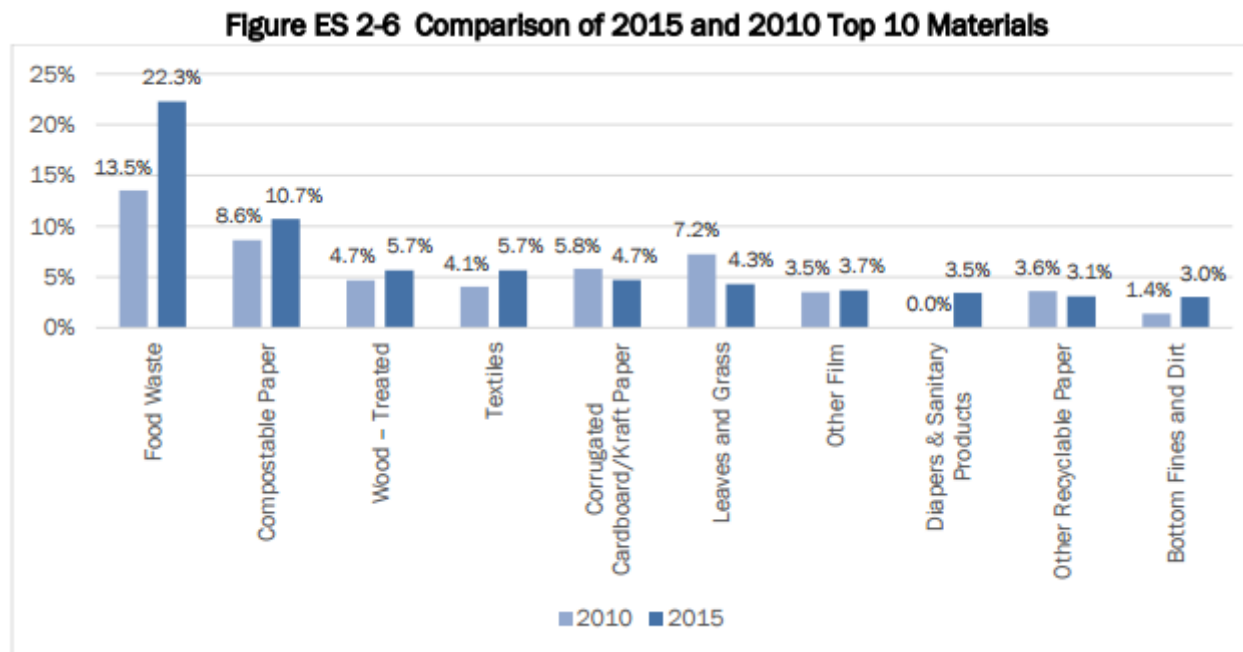
GMA Members | General Members



I. Background: CT

- ⦿ CT goal: 60% diversion of solid waste from landfill by 2024
- ⦿ “this Strategy also seeks to closely align materials management policy and planning with the state’s climate action priorities, including greenhouse gas mitigation through waste reduction and diversion from landfill, and ensuring that clean energy and greenhouse gas mitigation priorities are at the forefront of the transition to next-generation materials management technologies.”

I. Background: CT



Source: "2015 Statewide Waste Characterization Study" Connecticut Department of Energy and Environmental Protection

II. Industry's efforts

CPG is a leader in R&D, source reduction, packaging innovation

- ◉ New materials minimize environmental impact, use fewer natural resources
- ◉ Packaging optimization/reduction efforts yield huge results
- ◉ Finding ways to recover hard-to-recycle materials
- ◉ Critical role of packaging to prevent waste, further increase food safety



II. Industry's efforts

What is “best” packaging? Many factors under consideration

Package Format	Packaging (g. per 100 g. of product)	Energy Consumed (MJ/11.5 oz.)	Greenhouse Gas (kg CO ₂ e/11.5 oz.)	U.S. Packaging Disposed (g./11.5 oz.)
Metal can and plastic lid	29.6	4.2	0.3	35.6
Plastic canister and plastic lid	18.3	5.2	0.2	39.4
Flexible brick pack	3.5	1.1	<0.1	11.3

Recycling rate

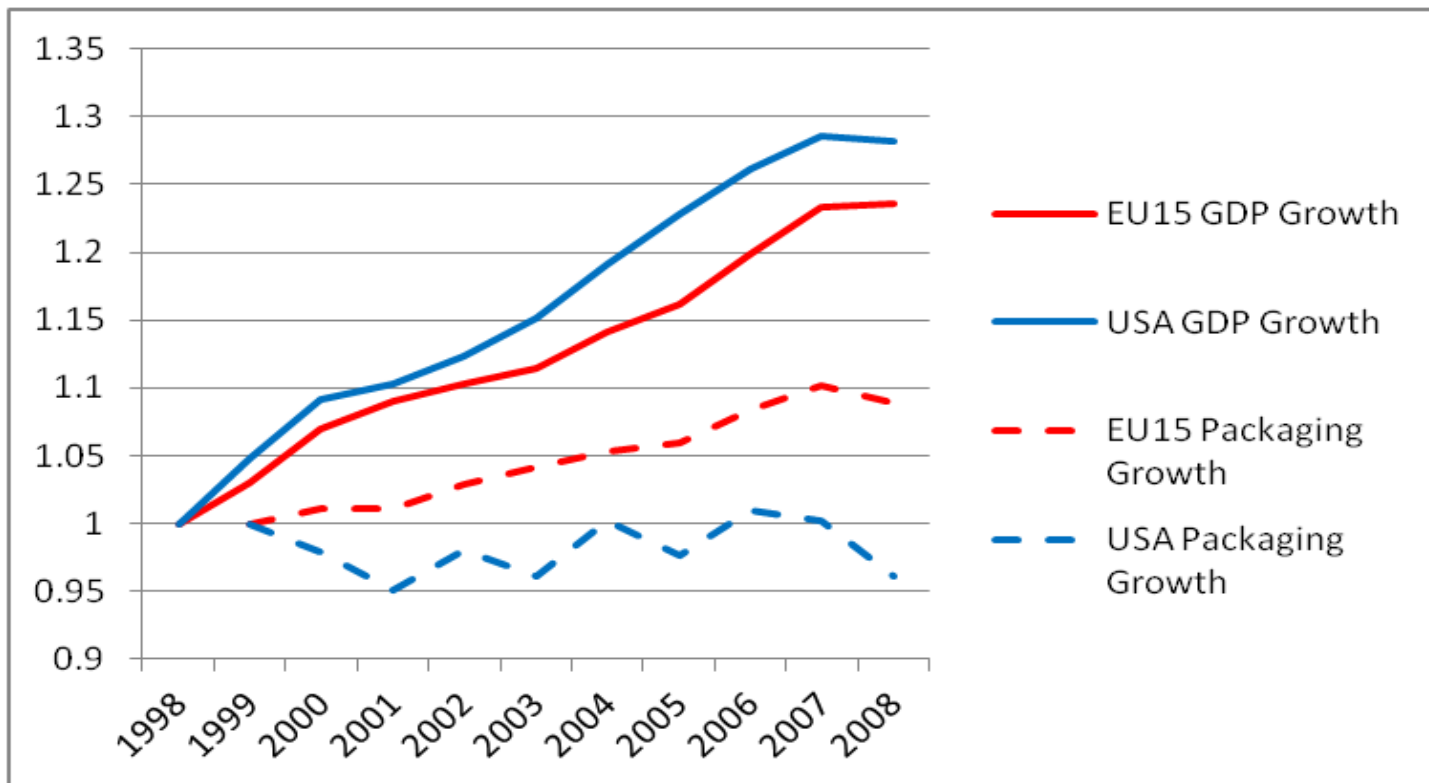


Energy use
Greenhouse gas
Landfill volume
Least resources



II. Industry's efforts

US leads EU in packaging reduction per capita, despite GDP growth



II. Industry's efforts

Waste Reduction : Food waste & household waste

- ◉ Food Waste Reduction Alliance
- ◉ Date Label Reform: standardize & streamline more than 10 phrases to just 2:
 - “BEST If Used By” to indicate product quality
 - “USE By” for highly perishable/food safety concern over time

II. Industry's efforts

Voluntary initiatives to increase recycling & educate consumers

A. AMERIPEN

- ◉ Represents full packaging value chain
- ◉ Advocate for holistic, efficient, effective policies



B. Curbside Value Partnership

- ◉ Partner with key communities to increase recycling rates
- ◉ Matching funds

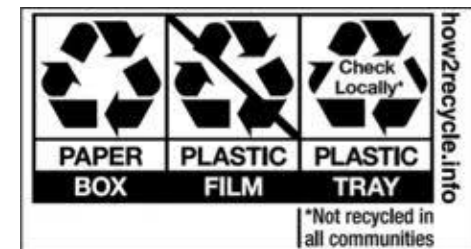


C. Closed Loop Fund

- ◉ \$100m loan fund to invest in recycling infrastructure



D. Sustainable Packaging Coalition, "How2Recycle" label



III. EPR: Proponents Say

- ◉ Reduce costs through efficiencies
- ◉ Result in more “environmentally friendly” packaging

III. EPR: How it works

Does not reduce costs

Costs of Blue Box program, Ontario, Canada 2011-2015

Table 1: Gross Costs 2011-2015

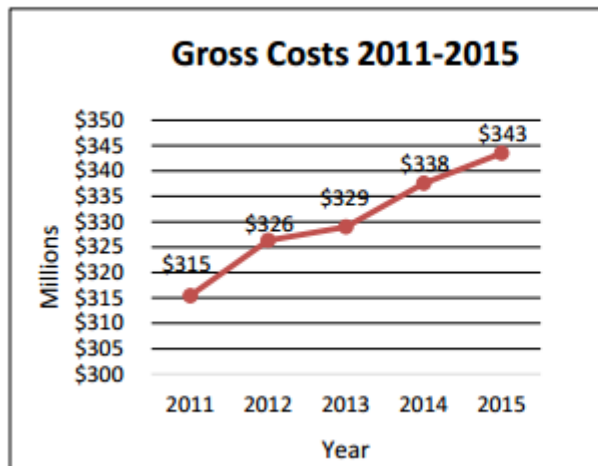
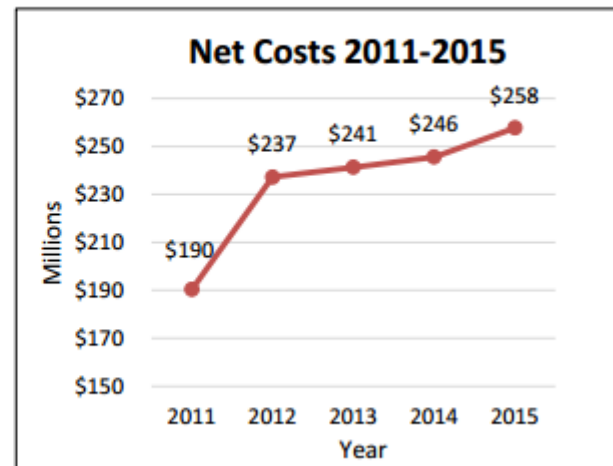


Table 2: Net Costs 2011-2015



Source: "2015 Blue Box Program Costs and Revenue" Resource Productivity and Recovery Authority, Canada

EPR: How it works

Fees to encourage/discourage packaging types

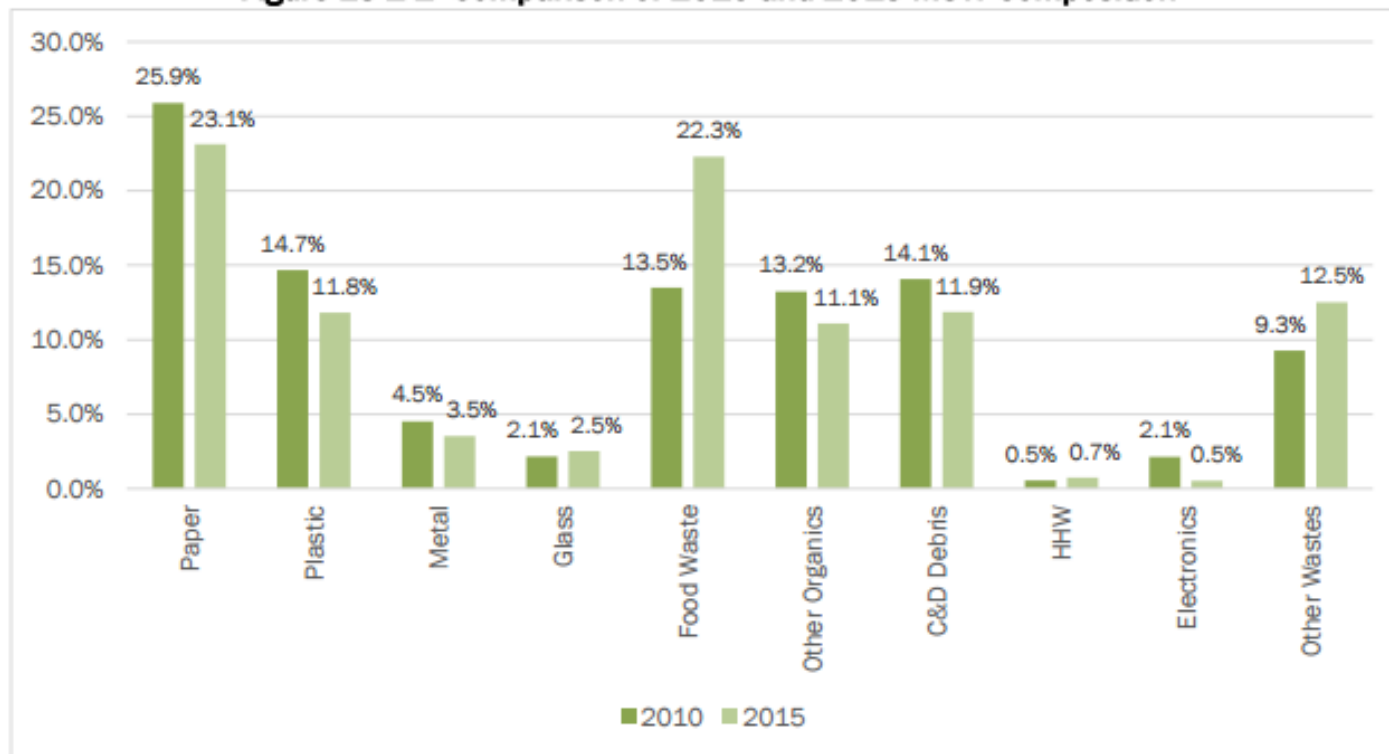
	<u>Fees vastly different from country to country</u>		
(Fee per kg in USD, 2004)*	Paper	Plastic	Composite
Germany	\$.19	\$1.37	\$.98
Belgium	\$.02	\$.29	\$.48

Material Category	2014 Adjustment DBBW Fee Schedule based on 2012 Data Year	Initial 2013 Fee/Kilogram	Adjustment Fee/Kilogram	Revised 2014 Fee / Kilogram (following arbitration)
Printed Materials	Newsprint–CNA/OCNA Members	0.42 ¢/kg	-0.13 ¢/kg	0.29 ¢/kg
	Other Newsprint–Non-CNA/OCNA Members	3.62 ¢/kg	0.62 ¢/kg	4.24 ¢/kg
	Magazines and Catalogues	6.47 ¢/kg	0.50 ¢/kg	6.97 ¢/kg
	Directories	6.64 ¢/kg	0.19 ¢/kg	6.83 ¢/kg
	Other Printed Materials	9.99 ¢/kg	3.30 ¢/kg	13.29 ¢/kg
Paper Packaging	Gable Top Containers	18.22 ¢/kg	1.77 ¢/kg	19.99 ¢/kg
	Aseptic Containers	18.22 ¢/kg	1.58 ¢/kg	19.80 ¢/kg
	Paper Laminates	18.22 ¢/kg	1.77 ¢/kg	19.99 ¢/kg
	Corrugated Cardboard	8.39 ¢/kg	0.21 ¢/kg	8.60 ¢/kg
	Boxboard and Other Paper Packaging	8.39 ¢/kg	0.26 ¢/kg	8.65 ¢/kg
Plastic Packaging	PET Bottles	14.70 ¢/kg	0.55 ¢/kg	15.25 ¢/kg
	PET Bottles > 5 Litres	14.70 ¢/kg	0.55 ¢/kg	15.25 ¢/kg
	HDPE Bottles and Jugs	13.52 ¢/kg	0.33 ¢/kg	13.85 ¢/kg
	HDPE Bottles and Jugs > 5 Litres	13.52 ¢/kg	0.33 ¢/kg	13.85 ¢/kg
	Expanded Polystyrene	23.27 ¢/kg	2.08 ¢/kg	25.35 ¢/kg
	Non-Expanded Polystyrene	23.27 ¢/kg	2.08 ¢/kg	25.35 ¢/kg
	Other Plastic Packaging	23.27 ¢/kg	1.81 ¢/kg	25.08 ¢/kg
	Other Plastic Packing > 5 Litres	23.27 ¢/kg	1.81 ¢/kg	25.08 ¢/kg
	LDPE/HDPE Film	23.27 ¢/kg	2.20 ¢/kg	25.47 ¢/kg
	LDPE/HDPE Film Carry-Out Bags	23.27 ¢/kg	2.20 ¢/kg	25.47 ¢/kg
	LDPE/HDPE Film Carry-Out Bag Units	Number of units ¹	Number of units	Number of units
	Plastic Laminates	23.27 ¢/kg	1.85 ¢/kg	25.12 ¢/kg
	Disrupter Plastics	23.27 ¢/kg	1.85 ¢/kg	25.12 ¢/kg
	Natural and Synthetic Textiles	23.27 ¢/kg	1.85 ¢/kg	25.12 ¢/kg
Steel and Other Metal Packaging	Aerosol Containers	5.51 ¢/kg	0.00 ¢/kg	5.51 ¢/kg
	Paint Cans	5.51 ¢/kg	0.00 ¢/kg	5.51 ¢/kg
	Other Steel and Metal Containers and Packaging	5.51 ¢/kg	0.00 ¢/kg	5.51 ¢/kg
Aluminum Packaging	Aluminum Food and Beverage Containers	2.56 ¢/kg	0.39 ¢/kg	2.95 ¢/kg
	Aerosol Containers	6.97 ¢/kg	0.00 ¢/kg	6.97 ¢/kg
	Other Aluminum Packaging	6.97 ¢/kg	0.00 ¢/kg	6.97 ¢/kg
Glass Packaging	Clear Glass	2.84 ¢/kg	0.00 ¢/kg	2.84 ¢/kg
	Coloured Glass	4.84 ¢/kg	0.00 ¢/kg	4.84 ¢/kg

Source “Amendment to Rules for Stewards Respecting Blue Box Fees for the Calendar Year 2014,” Stewardship Ontario

IV. Opportunity in CT

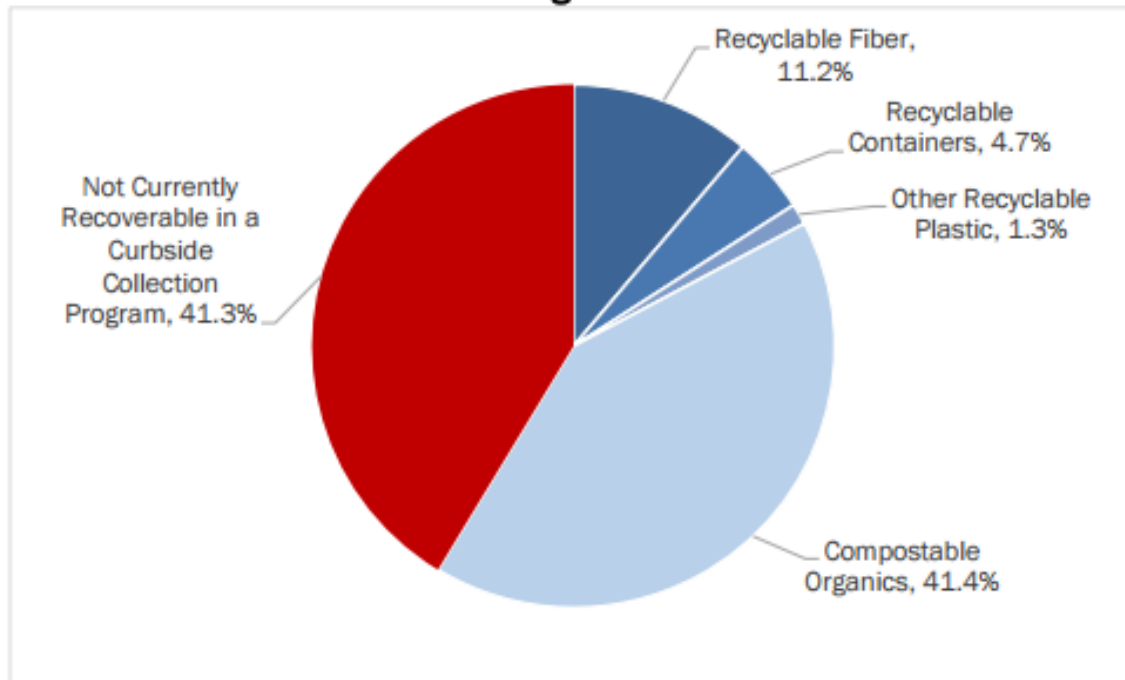
Figure ES 2-2 Comparison of 2010 and 2015 MSW Composition



Source: "2015 Statewide Waste Characterization Study" Connecticut Department of Energy and Environmental Protection

IV. Opportunity in CT

Figure ES 2-3 Recoverability of Disposed Wastes in Existing Curbside/On-site Collection Programs



Source: "2015 Statewide Waste Characterization Study" Connecticut Department of Energy and Environmental Protection

IV. Opportunity in CT:

Holistic approach needed

1. Promote best design practices

- ⊙ Encourage: packaging innovation, full lifecycle assessments, new materials
- ⊙ Avoid: overly narrow thinking

2. Address the challenge of food waste– “bang for your buck”

3. Cost & Efficiency

- ⊙ What’s working in CT?
- ⊙ How to replicate success?

4. Streamlined messaging

Questions?

