



October 26, 2011

RIGID PLASTIC PACKAGING ACC OVERVIEW





ACC's Plastic Division


The Plastics Division of the American Chemistry Council (ACC) represents leading manufacturers of plastic resins.

The Rigid Plastics Packaging Group (RPPG) is affiliated with ACC's Packaging Team, and its members include the manufacturers of injection-molded and thermoformed rigid plastic packaging (lids, cups, and containers) as well as suppliers of raw materials and equipment used in these processes.

The background features a collage of educational and financial data. On the left, a bar chart shows green bars of varying heights. In the center, a line graph with a green line trends upwards. On the right, a silver calculator with black buttons is partially visible. At the bottom, a pencil and a pie chart with green segments are shown. The word 'Education' is centered in a white font on a dark green rectangular background.

Education

Why do we use plastics?

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- A decorative graphic in the top right corner consisting of several 3D cubes. Some cubes are white with orange outlines, while others are light blue with orange outlines. They are arranged in a cluster, some overlapping, creating a sense of depth and geometric pattern.
- **Reduce Material Use and Weight**
 - **Maintain Freshness**
 - **Reduce Breakage**
 - **Reduce transportation costs through light weighting**
 - **Economical**

Plastics also have positive environmental attributes

- **Plastics reduce energy use by 61% and greenhouse gas emissions by 57% across variety of applications compared to alternatives.**

Reporting


Recycling Success

US EPA: more than 4 billion pounds of plastic are recycled annually

2009: more than 2.5 billion lbs. of plastic bottles were collected for recycling³

California: more than 62% have curbside recycling of all plastic containers⁶

Environmental Benefits of Plastic Recycling⁴



Existing plastic recycling, particularly PET and HDPE, results in significant savings in energy and greenhouse gas emissions

The amount of energy saved by recycling PET and HDPE containers including bottles in 2008 was the **equivalent to the annual energy use of 750,000 U.S. homes.**

The corresponding savings in greenhouse gas emissions was an amount **comparable to taking 360,000 cars off the road.**

⁴ “Final Report—Life Cycle Inventory of 100% Postconsumer HDPE and PET Recycled Resin from Postconsumer Containers and Packaging,” published 2010.

2009 Non-bottle Rigid Report



Key Findings:

- In 2009, nearly 480 million pounds of post-consumer rigid plastics were collected for recycling nationwide
 - an increase of ~ 33 % from 2008 and 47% from 2007;
- Increase in the number of processors, end users and reclaimers of rigid plastics
- Number of communities offering rigid plastics recycling continues to increase

National Plastic Recycling Collection: National Reach Study

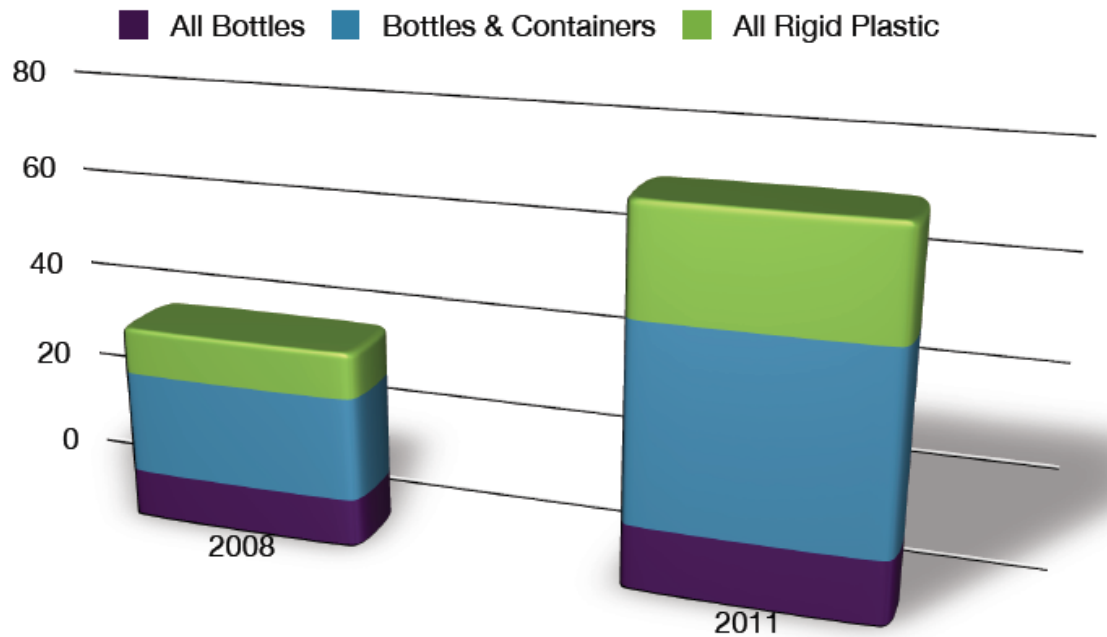
- At least 94% of the U.S. population has access to PET and HDPE bottle recycling
- 40% has access to, at least, all plastic bottles and all non-bottle rigid containers
- 48% has access to non bottle PP recycling of items such as yogurt tubs
- Identified 1,137 cities and 215 unincorporated areas of counties in the U.S. that collect all non-bottle rigid plastics

Plastic Collection Program	Percentage of US Population with Recycling Access
All Plastic	2.4%
All Rigid Plastic	13.0%
All Bottles & Non-Bottle Rigid Containers & Specific Plastics	3.0%
All Bottles & Non-Bottle Rigid Containers	21.2%
All Bottles & Specific Plastics	1.9%
All Bottles Only	12.5%
PET & HDPE Bottles & Specific Plastics	12.9%
PET & HDPE Bottles Only	26.8%
All CRV Bottles & Specific Plastics	0.1%
All CRV Bottles Only	0.2%
Other Specific Plastics	0.6%
No Plastic Program	5.4%



More cities collecting rigid plastic

100 Most Populous Cities: Plastic Recycling Collection Programs



- Compared 2008 survey of 100 most popular cities with 2011 data
- In 2008 only 29 cities had access to non-bottle rigid plastic recycling, compared to 59 today
- In 2008 only 38 percent had access beyond PET and HDPE bottle recycling, compared to 71 today

Cities Adopting Non-bottle Rigid Recycling



- **New York City, NY**
 - New legislation implemented in 2010 to recycle all rigid plastic containers
 - Will place 300 recycling bins in public areas in the next three years and 700 within a decade
- **Philadelphia, PA**
 - Now accepting rigid plastics
 - Recycling has risen to 16 percent as the city has added materials, moved to weekly collections, and switched to "single-stream" recycling
- **Connecticut Communities**
 - Starting May 2010, residents of 64 Mid-Connecticut communities began to recycle "all plastic food and beverage containers."

Partnerships and Outreach



Outreach to Virginia Peninsula

ACC wants to help expand rigid plastic recycling programs by:

Provide funding to neutral third party to host open market/buyers forum, with:

- City Recycling Staff

- Regional & State Organizations

- Local & Regional Haulers

Creating resources to educate communities on rigid recycling:

- Tools to facilitate information exchange

- Local education/outreach

- Encourage common language

Education
with Numbers
*Plastics
Recycling
Outreach*

A Joint Project
by ACC and APR



Encouraging the Collection of Bottles and Containers

 **All Plastic • No Bags**



caps on • remove food
no foam, bags, or wrappers

 **Plastic Containers**



caps on • remove food
no foam, bags, or wrappers

Opportunities to Increase Non-Bottle Rigid Plastic Recycling



ACC Efforts

- Document collection of non-bottle rigid plastics annually
- Detail the types, efficacy of recycling technologies
- Illustrate current and potential demand for products

APR Efforts

- Work toward clear, consistent definitions
- Enforceable reclaimer-generated bale specifications
- Work with grocers on rigids in their stores to create recycling solutions

Thank You

