KEEP AMERICA BEAUTIFUL



Designing Successful Public Space Recycling Programs

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Who We Are



Keep America Beautiful is the nation's leading nonprofit that brings people together to build and sustain vibrant communities.

- With our strong affiliate and partnership network, including state recycling organizations, we engage millions of volunteers who take action in their communities through programs that deliver positive and lasting impact
- We offer solutions that:
 - Create clean, beautiful public places
 - Reduce waste and increase recycling
 - Inspire generations of environmental stewards
 - Generate positive impact on the local economy

Our Mission

Engaging individuals to take greater responsibility for improving their community's environment

KAB Recycling Programs

Building Awareness and Activation

- RecycleMania
- Recycle-Bowl
- America Recycles Day
- National Advertising Campaign
- Give and Go: Campus Move Out

Public Space Recycling

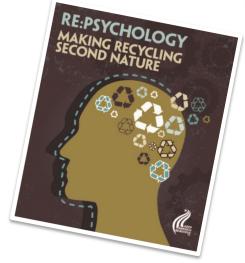
Thought Leadership

- Symposium
- Ongoing Webinar series
- CURC professional training
- Research Agenda











Who We Are





Recycle Away is a recycling container distributor and designer based in Brattleboro, Vermont. We specialize in:





Color-coded recycle bins for colleges and universities



Outdoor recycling stations for parks and downtowns



Office recycling bins for businesses

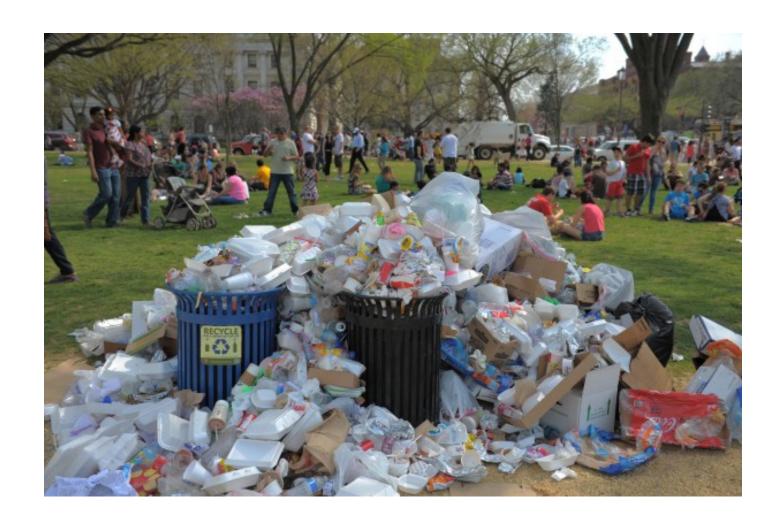


Fun and effective recycling containers for school



Recycled-content containers for LEED certified facilities

Recycling is Easy, Right?







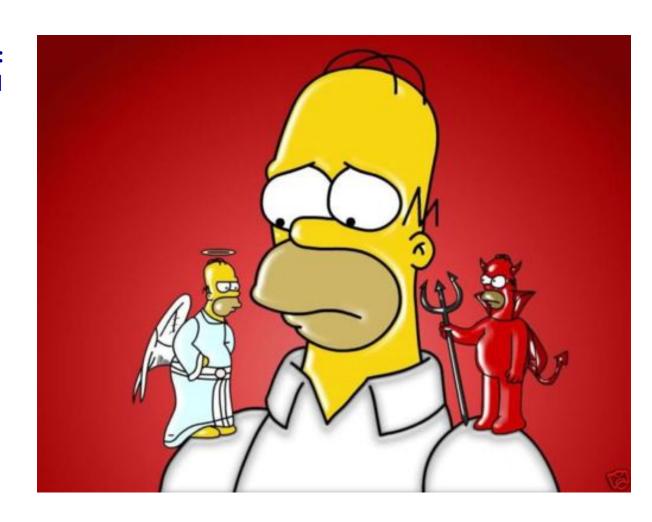
Do People Care Enough to Recycle?

Naïve planning assumption: people support recycling, all you have to do is put a bin out and they will use it

Jaded view:

people don't care. No matter what you do they'll just trash bins

Both views are one dimensional. It's necessary to better understand what drives behavior







Behavior Fundamentals

Environmental Attitudes

- 15% "Super Greens"
- 15% Eco-Skeptics
- 70% "Sometimes" Recyclers
- The Best Target:
 70% "Sometimes Recyclers"
 in the middle







Getting People To Recycle

1. Motivating behavior:

Primary Goal needs to be not to make them care or be fluent, but to remove barriers. It is less important to make them care than to make recycling easy.

2. Making recycling a habit:

Remove barriers:

- Lack of convenience
- Confusion about what to do

The Homer Principle:

- Homer embodies the 70%
- Recycling isn't focus of their attention
- All bins are "waste" bins at first glance
- A successful program is achieved by understanding their needs as much as making them understand yours

Program managers must design bins to anticipate this.

Bins must clearly identify what they are for





Experience With Public Space Recycling

- How many people have implemented a recycling program?
- What were your goals for the recycling program?
 - Environmental?
 - Economic?
 - Greening your image?
 - Other?
- Do you consider recycling efforts a success?
 - Strong success
 - Partial success
 - Failed





Standardize
the Look of All
Material Streams

Aesthetics are good, but must be balanced with functionality at the start







Use Different Colors / Features To Distinguish Recycling From Trash







Employ Restrictive Lids to

Prevent Contamination



Systems & Solutions



Select Containers for Ease of Servicing







What Research tells Us:

Use Restrictive lids

Duffy, Verges -2008

- Indoor bins College academic building
- Recycling increased 34%

- Trash decreased 95%
- Suggested lids helped identify recycling









What Research tells Us:

Bin Color Impacts Recycling Behavior

Montazeri , Gonzalez, Yoon, Papalambros -2012

- Study conducted at Univ. of Michigan
- 52% recycled correctly with grey recycling & grey trash
- 88% recycled correctly with green recycling & grey trash







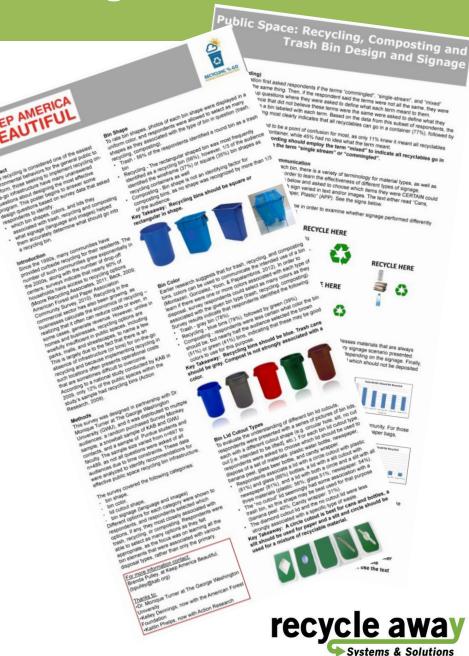


What Research tells Us:

2013 Survey of 750 people

George Washington University – 2013

What do people associate with recycling: shape, color, wording?





What Research tells Us:

2013 Survey of 750 people

George Washington University - 2013

Key take aways:

- Blue = recycling
- Square bin = recycling, Round bin = trash
- Round opening = recycling
- Messaging:
 - "Mixed Recycling" works
 - "Single Stream" Doesn't
- Icons + words work best



Systems & Solutions

Place Recycling Immediately Next to Trash for Parity



Windsor Park, KS
- the unused bin
on the left in the
back is recycling





Consider Orientation To Foot Traffic & Surrounding Area



Bin openings should face the same direction





Know Where Waste Is Generated

An example of a well designed and well placed bin







What Research tells Us:

A Study of Number & Locations of Bins in Hallways and Classrooms of Academic Buildings in College/University Settings

O'Connor, Lerman & Fritz -2010

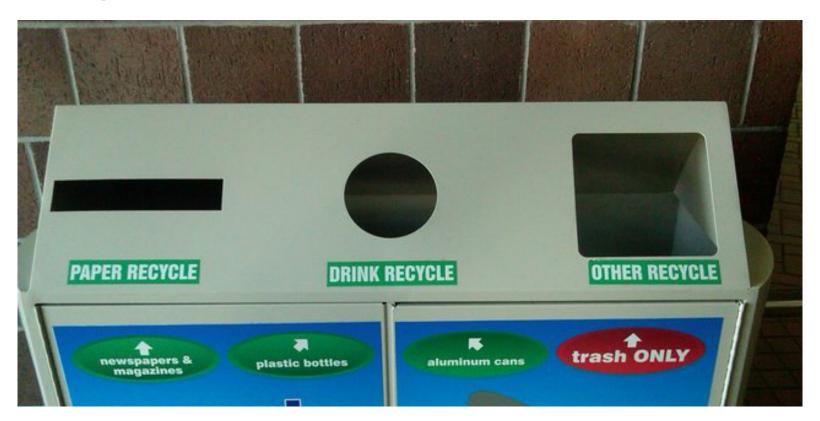
 Adding bins to classrooms increased bottle recycling 128%







Label Bins with Clear Consistent Language, Using Just a Few Words







Use Signage to Help Identify Bins







Look For Creative Opportunities For Education









What Research Tells Us

How Recycling Behavior is effected by Bin Placement in Office Settings

- 1. Little trash bin with normal-sized recycling bin
- 2. Equal size trash and recycling bins
- 3. Recycling bin only
- 4. Information only









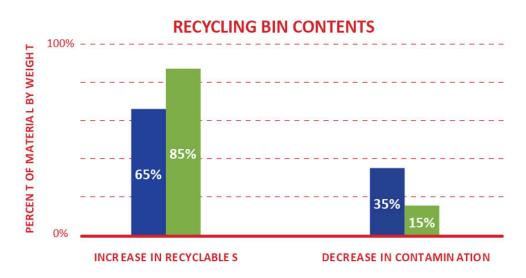




What Research Tells Us

The Little Trash Bin is Most Successful

- Increased correct disposals
- Decreased recyclables in the trash from 29% to 13%
- Decreased recycling bin contamination by 20%







What Research Tells Us

Informational Flyer And Bins Signage Helps







**Please note that these are some common items. For a more comprehensive list of recyclable and non-recyclable items see your building manager, or your waste hauler's website.





Key Factor #4: Track, Monitor & Improve

Recycling Programs Don't Improve By Themselves

- Start with a pilot project
- Track performance
 Watch recovery & contamination trends
- Monitor & adjust
 Move bins to optimize use
- Refresh bins
 Peeling decals, grungy bins discourage recycling
- Document success







A Winning Public Space Recycling Program







Resources for "Away from Home" Recycling

Public Space Resources

- BMP guides & case studies
- Academic research papers
- Webinar archive
- State Fair tools & templates
- Event Recycling toolkit

http://americarecyclesday.org





Recycling @ Work

http://recyclingatwork.org





Questions?



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Systems & Solutions

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