Together we can #RecycleBetter at Colleges and Universities

RecyclingWorks Webinar

August 16, 2018

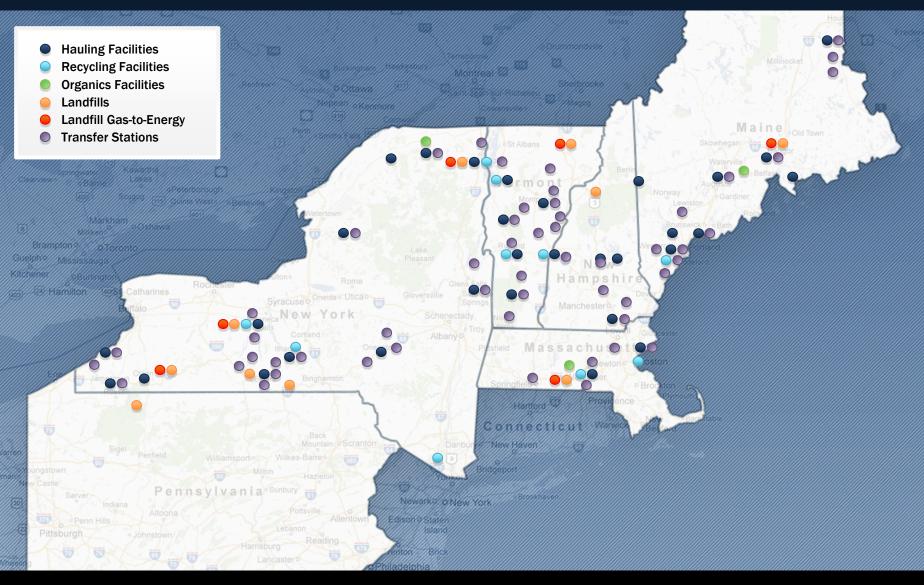


Casella Company Overview:

- Founded in 1975 with one truck
- We now have 1,900 employees serving over 170,000 customers
- Traded on NASDAQ as CWST
- Over \$500M in annual revenue
- Operating in MA, ME, NH, NY, PA, and VT
- Vertically integrated collection, transfer, recycling, and disposal operations
- Recovering over 1 million tons per year! Includes more than 600,000 tons of recyclables and 400,000 tons of organics for beneficial use



Our Facilities



Background

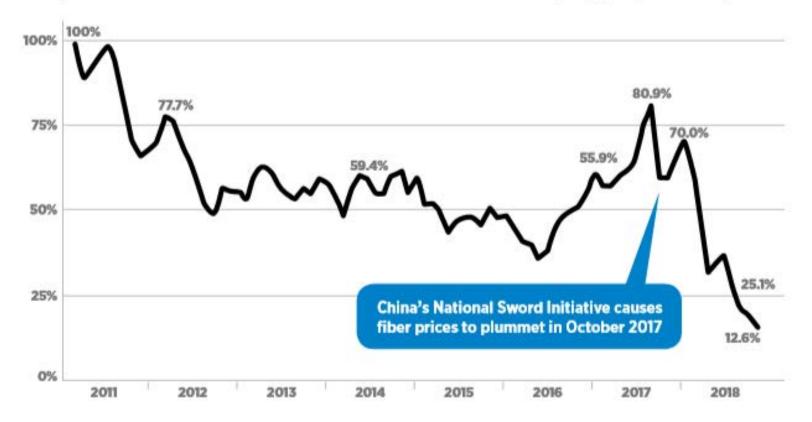
Big Changes

- New Chinese policies have reduced imports of recycled commodities, aiming to cut waste entering their borders via recycling streams
- The Northeast's largest glass processor shut its doors in March
- Product mix is shifting
- Contamination is rising

Economics Mountains of US recycling pile up as China restricts imports **PRI's The World** 🕅 PRI's January 01, 2018 · 3:30 PM EST **FheWorld By Jason Margolis** Listen to the story. Q E Money U.S. 🔻 Companies Markets Tech Media China trash ban is a global recycling wake up call by Ivana Kottasová @ivanakottasova (April 20, 2018; 11:08 AM ET As China Rejects Our Waste, What to Do? June 5, 2018

Recycling Markets Plummet

Due to global factors, the mix of recyclables in your bin are today worth only 12.6% of what they were worth in 2011. This has devastated the economics of recycling programs everywhere.



Contamination

- Contamination (unacceptable items) in the recycling stream have become a major problem
- We've seen <u>average</u> contamination rates <u>increase by more than 50%</u> over the past 10 years.
- The increase has been even greater in certain markets.
- Individual customers have sent us recycling loads with contamination rates of <u>over 50%</u>.
- <u>Unfortunately, some of the top offenders</u> <u>are... college campuses.</u>



#RecycleBetter Campaign

To get the word out, Casella has launched an outreach campaign called "Recycle Better":

- Social Media
- Print Ads
- Webpage
- Videos
- Universal list
- Updated signage
- Targeted pilots
- More to come...



Back to Basics... What's Acceptable?







Plastic Bottles, Jars, Tubs, & Lids (Empty kitchen, laundry, & bath containers)



Aluminum & Steel Cans (Empty cans, bottles, & foil)



GLASS.

Glass Bottles & Jars (Empty food & beverage bottles & jars)

Back to Basics... What's NOT Acceptable?



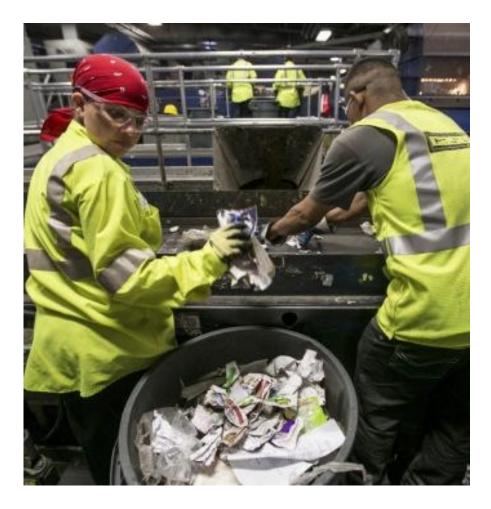
NO Medical Waste

The problem with bags, textiles, tanglers...



The Worst Contaminants

The worst contaminants put employees' safety at risk, damage the sorting equipment, shut down the plant, degrade outbound quality, or all of the above.



Back to Basics... Bottom Line

"Wish-Cycling" has always been unhelpful and has now become harmful.

Let's recognize that recycling is a form of manufacturing: Garbage in, Garbage out.

Putting non-recyclable items in the recycling bin with hope they will be recycled.

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Best Practices for Colleges & Universities



Targeted Training

Unique Challenges:

- 25% turnover each year
- Especially prone to "wish-cycling"
- Departments don't always communicate Recommendations:
- Start fresh. Retrain everyone.
- Tailor your training to each department
- Stress that there can be no tolerance for contamination.
- Recruit and empower custodians to identify and help address contamination hotspots.
- Ongoing focus. Recycling training is never "done". Build an annual training calendar.



Bin Placement

Unique Challenges:

- Thousands of indoor trash and recycling bins
- Often inconsistent in shape, size, color, labeling, etc.

Recommendations:

- Conduct a campus-wide inventory of all trash and recycling bins. Create a map.
- Work with custodial to pair trash and recycling bins, coordinate colors/labels, and eliminate redundant bins.



Targeted Waste Audits

Unique Challenges:

- Waste and recyclables are generated at numerous points throughout campus.
- Multiple ongoing audits are required to identify problem areas and track improvements

Recommendations:

- Conduct multiple waste audits throughout the year at key locations across campus. Identify contamination hotspots. Track clean-up progress.
- Recruit and train multiple groups to support audits: dining services, sustainability office, student groups, etc.



Bag Removal

Unique Challenges:

- Nearly every campus uses plastic bags (bin liners) to collect and consolidate their recyclables
- These bags cause operational problems at the recycling facilities (tangle in equipment) and prevent detection of other contaminants in the stream.

Recommendations:

 No easy fix here. Work on eliminating other forms of contamination. Eliminate practice of "nesting" bags. Work on reducing the use of bags wherever possible. Together we'll come up with solutions that work for both campuses and recycling facilities.



Other best practices

- Review your goals
 - Too many campuses have arbitrary waste and recycling goals with no clear plan for success
 - Best goals are data-driven, based on audits
 - Capture rates vs. Diversion rates
- Engage procurement
 - Review your purchasing, looking for ways to buy things that are recyclable and/or have high recycled content
 - Encourage reusable items across campus
- Think beyond campus
 - Help educate K-12 and broader community; Remind students and employees that these guidelines and practices apply at home too

Thank you!

To learn more, please visit:

casella.com



RESOURCE SOLUTIONS

RECYCLING | COLLECTION | ORGANICS | ENERGY | LANDFILLS