Industrial Recycling Markets

Mike Greene & Matt James
Division of Environmental Assistance and Customer Service
North Carolina Department of Environmental Quality
Recycling and Materials Management

• Manage State’s recycling grant programs – financial assistance to recycling businesses and local governments

• Coordinate outreach efforts to build public commitment to recycling and provide support to local recycling educational efforts
Statewide focus on contamination education.
Southeast has strong and growing domestic markets.
Recyclers and MRFs are investing in facilities and equipment.
  
  Grants have been made available

New fiber processing will be online soon.
New plastics processing will be online soon.

  Demand will increase, pricing will improve.
  Advances in tech will provide more recycling opportunities.
Five Year Pricing Trend for Recyclable Fiber Commodities
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- Newsprint
- Cardboard
- Office Paper
- Mixed Paper
Five Year Pricing Trend for Recyclable Fiber Commodities
2017: China announces efforts to clean up the country. Files with WTO

- Unprocessed plastics are BANNED
  - effective January 2018

- Mixed paper is BANNED
  - effective January 2018

- Other recovered paper and plastic must not exceed 0.5% contamination
  - effective March 2018

- China’s goal to ban all fiber imports by 2021
Where Does My Recycling Go?

- North Carolina: 33.88%
- Southeast: 23.67%
- South Carolina: 22.13%
- Other US States: 7.19%
- Canada: 0.22%
- International: 12.91%
NC Recycling Infrastructure
Your problem recyclables are most likely not a high value material

- Markets fluctuate
- Your problem material is not worth what it may have been in the past
- It’s a “buyers market”
- China (less of an issue than before – new normal)
- Cost avoidance
- Best case scenario is a cost neutral solution
- You will likely have to pay to have material recycled
Market Challenges

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Market Challenges

You will likely need more than one recycling vendor
  • Truckload quantities
  • Storage
  • Aim for mixed loads

Communication and Time Challenges
  • Recycling may not be your only job
  • Vendors may have a million questions or,
  • Vendors can be unresponsive
What Do Your Recycling Vendors Need You To Know

- What item do you have?
- How much do you have?
- How frequently do you have it?
- How is it prepared?
- Is the item free from contamination?
# Recycling Information Sheet

## Material Information

<table>
<thead>
<tr>
<th>Material Type</th>
<th>Item Description</th>
</tr>
</thead>
</table>

### Location of Generation

<table>
<thead>
<tr>
<th>Current Disposal Method</th>
<th>Landfill</th>
<th>Recycle</th>
<th>WTE</th>
</tr>
</thead>
</table>

### Current Disposal/Recycling Company

### Frequency of Accumulation

<table>
<thead>
<tr>
<th>Estimated Amount (per month/year)</th>
<th>Ongoing</th>
<th>Seasonal</th>
<th>One-Time</th>
</tr>
</thead>
</table>

### Current Storage Method

<table>
<thead>
<tr>
<th>Can Material Be Baled or Boused</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
</table>

### Level of Risk

### Regulatory Impact

### Additional Info

Include Pictures Below

*Created by Mike Greene NCSEJ | DrAC/ RBAC
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What Does Your Recycling Vendor Need You To Know

• May need more item separation than before
  • Example: Plastics that used to be sold in a mixed bale now need to be separated in order to be marketable
• Less room for sorting errors
• Zero tolerance for contamination
• Need more education and enforcement
What Does the Main Office Need To Know

Recycling is not free

Recycling should not be counted on as revenue

Recycling is a utility like water, power, internet
Brewery Waste Consolidation

9 breweries – 4 county region

Consolidate hard to recycle items in 1 place

Quantity creates markets for hard to recycle items
National Policies and Trends

- More domestic recycling capacity
- Extended Producer Responsibility
- Brand commitments on recycled content
Emerging Technologies

- Chemical Recycling
- Pyrolysis
- Robotics
To attract new recycling businesses, we need to have accurate data on the available plastics for recycling. Take the survey linked below to provide estimates on how many pounds of plastics and other recyclables your company generates:

https://www.surveymonkey.com/r/FBSWCNC
Mike Greene
mike.greene@ncdenr.gov

Matt James
matt.james@ncdenr.gov