

The Changing Face of Recycling and the Role of MRF's in Today's Marketplace

Source Separation

- Large Generators of OCC
- Municipal Newspaper Drives
- Print Shops
- Specialty Grades – CPO. Tab cards.
- Peddler Traffic
- Quality control

Changes

- Laws and Regulations
- Landfill Crisis
- Generator Pressure

Office Paper Recovery Programs

- Fiber Demand
- Mill acceptance
- Cheaper Supply
- Contamination Issues

Better Quality Control

- No more Dump and Run
- Remove non fiber contamination
- Remove fiber contamination
- Opportunity to add Value
- Collection Efficiencies

Equipment

- Manufacturers
- Newer and Better Technologies
- Disc Screens
- Optical

Today's Fiber Source

- Single Stream Commercial
- Single Stream Residential

Challenges

- Cost
- Change in Material
- Quality
- Contamination

Cost

- Poor Processing Yield
 - Lower throughput tons/hour
 - » More contaminates inbound(Cost to dispose)
 - » Green fence quality issues
 - » Impact on Revenue

Change in Material

- Switch from glass to alum. And plastic
- New kinds of flexible packaging
- More residue/ contamination
- More mixed material packaging
- Less newspaper more cardboard

Other Changes

- Increase in Curbside Automated programs
 - Inspect for contamination
 - » Flip lids
 - » PAYT
- Increase in Single Stream Recycling
 - What it is
 - How does it work
 - What is acceptable

Quality

- Green Fence (China)
 - Dry
 - Free of food /dirt
 - Free of other recyclables
 - » Glass
 - » Metal
 - » Plastic

Quality

- Value of product
 - Lower value/ better quality
 - » More effort/ more cost
 - Quality material finds home

Contamination

- Materials that harm employees
- Materials that damage equipment
- Materials that devalue product

Safety

- Medical/ Needles
- Hazardous / Fumes / Skin Irritation
- Human waste/ Diapers

Equipment

- Film ????????
- Wrapping Items/ rope, cable, hoses
- Large Metal/ Brake drums

Product

- Wet/ snow,ice,rain
- Textiles
- Wood. C & D
- Shredded Paper
- Film
- Leaf/ yard waste
- Food

Education

- Who
- How
- What is message

What's Next

- Zero Waste Initiatives
- Mixed Waste Processing
- Recycle or Fuel
- Market Demand
- Equipment / Plant adaptation