NERC Fall 2015 Forum
Recycled Glass Collection & Processing
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Brief Introduction

• Turnkey Sorting System Supplier

• Headquarters in Stamford, CT
  – 10 Regional Sales Offices in North America
  – 35 Service Technicians
  – Over $16 million in spare parts

• Founded in 1984
  – Successfully completed over 2,400 recycling projects
    • Over 250 MRFs (leader in SS Recycling)
    • Over 350 TITECH Optical Sorters
    • Over 1000 Bollegraaf Balers
SS Developments on Glass

• Low Value and Abrasive
  – Operators want to get it out early and can’t dedicate much capital on cleaning it up

• Document Shredding
  – Greatly increases glass contamination

• Increased Residue
  – Average up from <10% to >16% in the past 5 years
Issues For Glass Clean-Up

• Moisture
  – Regional and seasonal
  – Fiber sticks to the glass

• Organic Contamination
  – Wet organic food waste acts like glass

• Long Part Contamination
  – Toothbrushes, Pens, etc.

• Glass Fines (<8-10mm)
Processing Techniques

- Water Bath
  - Issues with maintenance and permitting

- Pulverize
  - Limits end market and value

- Sizing and Air/Density
  - Multiple steps but can have good results
  - Fiber (lights) are recoverable
City of Guelph SS Glass Fines Test Results

Screening Results (2000 lbs roughly)

0-10 mm = 22.45 %
10-60 mm = 70.41 %
+ 60 mm = 7.14 % (paper, plastic, metals, long parts)

ZigZagSifter 10-60 mm

Heavy = 56.88 %
Light = 13.53 % (add to mixed paper)

ZigZagSifter 0-10 mm

Heavy = 16.51 %
Light = 5.94 % (add to mixed paper)