



7G Distributing Overview

- Local, Independent Beer Distributor for Eastern Iowa
- 3 Locations (Cedar Rapids, Dubuque, Davenport)
- Distribute Anheuser Busch as well as selection of local & regional craft breweries
- Process over 1,000 tons of glass annually at our Dubuque operation (~1 truckload / wk)
- Glass is very “clean” relative to other glass waste streams





Dubuque Prior Process Overview

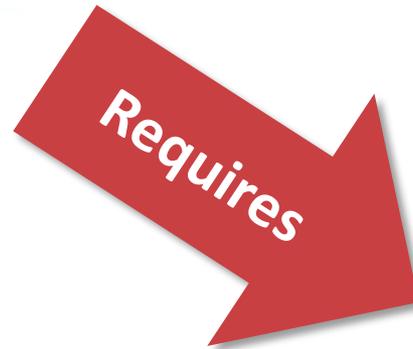
1. Pick up empties from customers (generally in original cardboard package)
2. Manually sort amber, green & blue glass
3. Individually dump boxes of glass into hopper of hammer mill to mechanically crush glass
4. Forklift gaylords of glass onto outbound dry van trailer





Challenges with Prior Process

- Safety Issues
 - Hearing
 - Sight
 - Cuts
- Expensive (labor + gaylords + handling fees)
- Uncertain Level Reclamation
 - No contracted outlet for process glass
 - No guaranteed reclamation level





Ripple Glass Partnership

1. Individually dump boxes of unsorted glass into IBCs



2. Store IBCs until shipment is accumulated (~60)



3. Load IBCs into top load trailer using new bulk box handler





Results

- **Shipped 115 tons** of glass to Ripple in first 1.5 months (6 loads)
- **Safety & efficiency improved** at 7g due to elimination of sorting & crushing operations
- **Improved reclamation**
 - Ripple is reporting reclamation rates of 98+% (3% higher than competing glass)
 - Roughly 30% recycled into glass bottles; 70% into insulation