



# Andela Glass Clean-Up Systems

## Material Recovery Facility – MRF Glass

### **Andela Glass Cullet Cleaning System**

This system has been designed for Material Recovery Facility (MRF) glass that is to be cleaned and ready to ship to a glass recycling company that will color sort and process it back into bottles or one that will process it into fiberglass. The system includes Andela Trommel screening with a paper blower or air density separation. 3 phase power and between 15 - 30 HP is required.

MRF glass should go under a magnet to remove major ferrous steel, but can include broken glass, flattened metals, plastics, and shredded paper.

#### **The outputs will be:**

1. Fines – fine glass and other debris less than 3/8".
2. Cullet - broken glass between 3/8" and 2" with some paper, small plastics, and caps.
3. Overs - primarily non-glass larger than 2" comprised of plastic bottles, cardboard, large metals, etc.

#### **The markets for the outputs:**

1. Fines - with further processing and cleaning can be turned into local sand substitute.
2. Cullet - ship to a glass recycling company for further processing, but not clean enough to go directly to a bottle or fiberglass manufacturing company.
3. Overs - can be put back through the recycling system to recover any plastics or metals value.



## **Andela Glass Pulverizer Cleaning System**

This system has been designed for MRF glass to be reduced into a clean sand or aggregate and used locally. System capacities vary from 5 to 20 Tons/Hour. 3 phase power between 20 - 60 HP is required depending on the system design. This Andela Pulverizer System includes a hopper, pulverizer, trommel screen, blower/density separation, and conveyors.

MRF glass should be prepared under a magnet to remove major ferrous steel, but can include broken glass, flattened metals, plastics, and shredded paper.

### **The outputs will be:**

1. Glass sand - less than 4 mesh (3/16") without sharp edges. Meets specifications for regular construction sand.
2. Glass Aggregate - between 3/16" - 1/2" in size. Rounded edges.

Output can be re-circulated to make all sand, or blower/density cleaned to make gravel.

3. Overs - primarily non-glass larger than 1/2" consisting of plastics, paper, metals, etc.

Andela selective reduction technology reduces the glass into sand but leaves the non-glass in a larger form that exits the end of the system as "Overs"

### **The markets for the outputs:**

1. Glass Sand - meets specifications for all types of sand. Rounded edges, clean of non-glass debris.
2. Glass Aggregate - can be automatically re-circulated to make all sand or used as gravel for construction or landscaping.
3. Overs - can be put back through the recycling system to recover any oversized glass. Plastics and metals may be further separated for other markets.