

Go
Greener
with
GreenRU

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Solid Waste
Alternatives Program

Stakeholder Meeting
September 1, 2015

GreenRU Services



- Who? Food Organics Recycling Company, based in Iowa
- Where? → 4 Tipping Sites:
 - Cedar Rapids/Linn County Solid Waste Agency - Compost Site
 - Full Circle - Farley, Iowa
 - City of Iowa City - Compost Site
 - Chamness Technology Compost Site, Eddyville IA)
- Why?
 - Reduce landfill waste
 - Foster environmentally-conscious facilities & communities



GreenRU's Process



- Training your staff on proper division of food waste from other forms of waste
- Collecting waste from bins
- Delivering food waste to state-permitted compost facility
- Food waste is then used to contribute to compost (soil enhancement)



The Impact of Composting



- Landfilled food waste generates methane
 - Methane = 25x more harmful than CO2**
 - Composting breaks down food waste via aerobic digestion, generating CO2 instead of methane
- Methane, nitrous oxide and other gases → Large, lasting climate changes
- When organic materials decompose naturally (via composting)...
 - Emitted CO2 (while still a greenhouse gas) = part of natural, short-term carbon cycle
- 2012: U.S.A. recycled and composted 87 million tons of municipal solid waste
 - Eliminating 168+ million metric tons of CO2** (emissions from 33+ million passenger vehicles!)
- 2014: Hy-Vee composted 5+ million lbs. of food scraps of municipal solid waste
 - Eliminating 4,500 metric tons of CO2** (annual emissions from 1,000 passenger vehicles!)

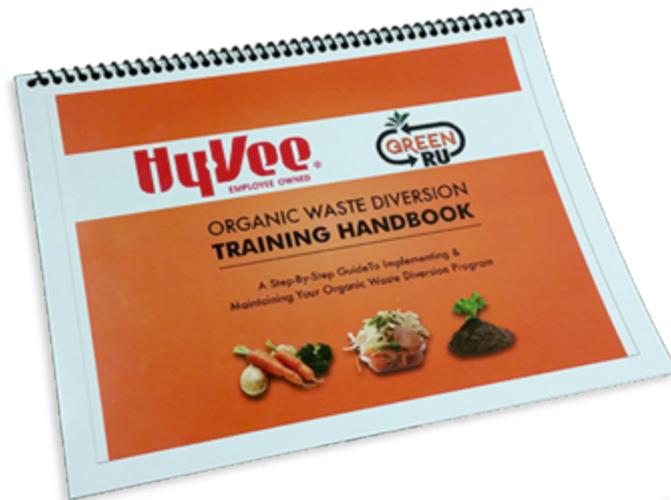


VS.



Step 1

- Employee training
- Food waste + other compostable materials are collected in GreenRU collection containers



Step 2



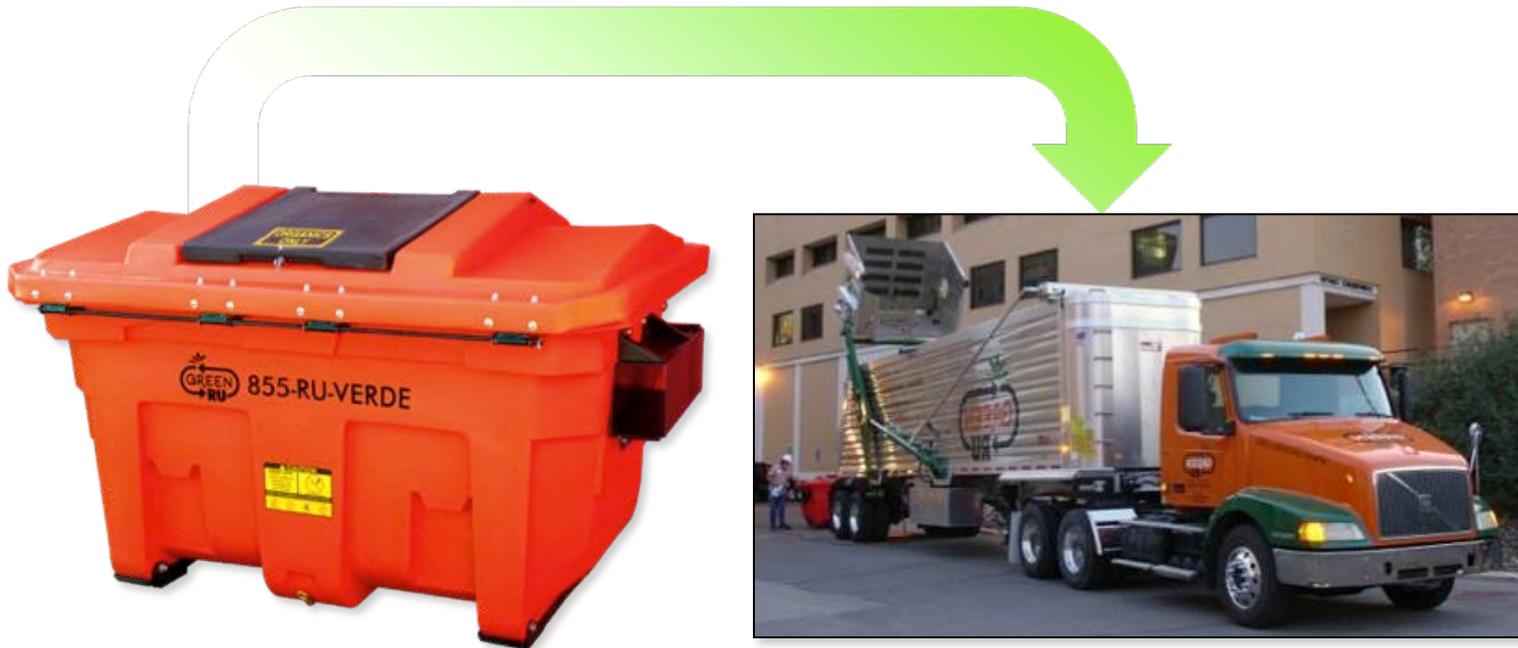
- Collected materials are transported from GreenRU containers to larger GreenRU bins



Step 3



- Compostable materials collected in GreenRU bins are dumped into GreenRU trucks



Step 4



- Your compostable waste is hauled to a composting facility, where it is processed



End Result? Quality Compost



- **Quality Compost Becomes Feedstock**
 - Feedstock is mixed, watered, turned & screened for various end markets (farms & approved land app. sites)
- **End product = high quality**
 - We monitor & manage our compost while processing



Environmental Benefits of Recycling Food Waste



- For every 1 Ton of Recycled, Inedible Food Waste:
 - 800 lbs. of soil-enriching compost is created
 - 3 cubic yards of landfill space is preserved for unrecyclable materials
 - 300 gallons of water per acre is retained (across residential & agricultural land areas)
 - 5,000 gallons of methane (an environmentally harmful greenhouse gas) is eliminated from our atmosphere

