



Reuse, Recycle, Reduce and Recover

Introduction



Sustainable Materials Management



Engaging in SMM: Case Studies

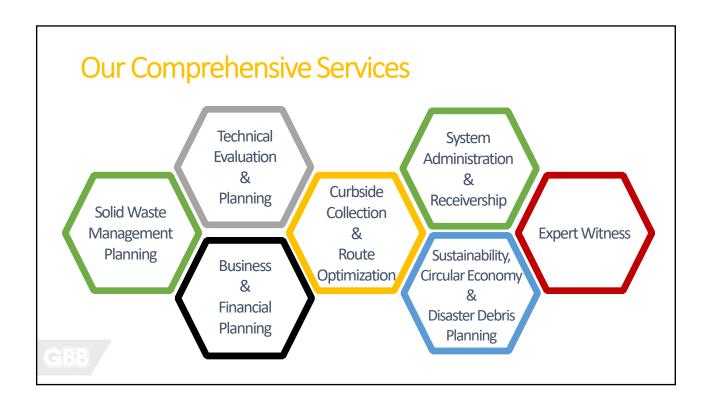
- Tusten HORSE
- OCRRA School Composting & Glass Recycling



**Questions & Answers** 



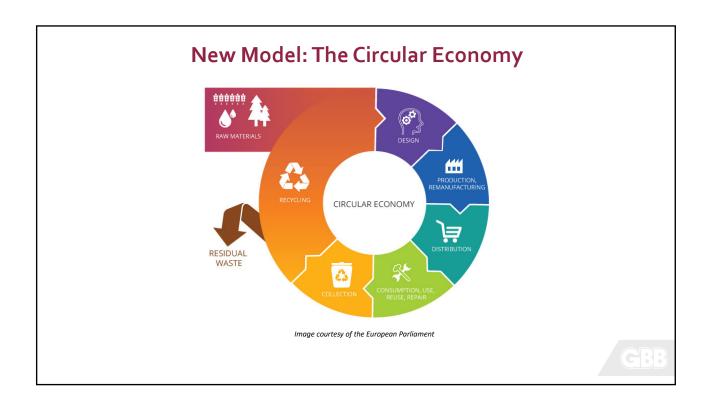




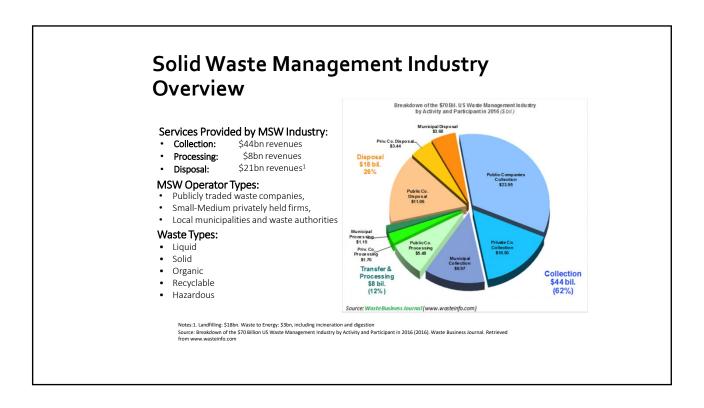


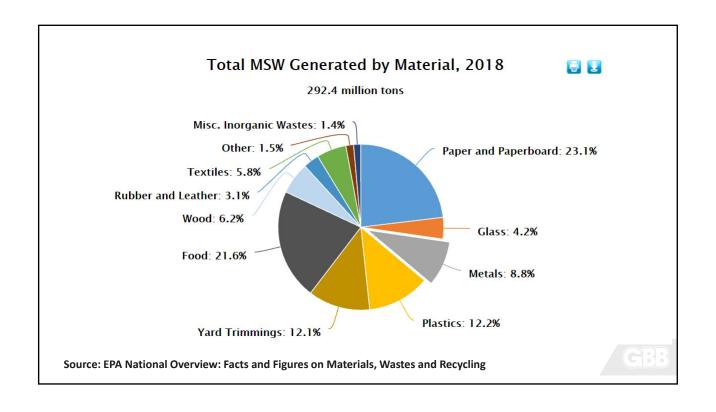


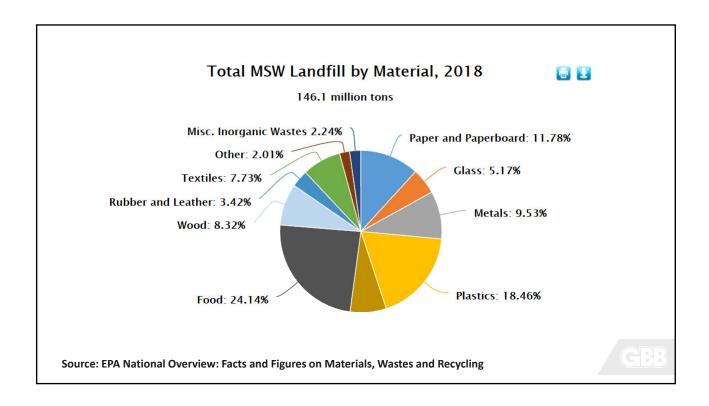


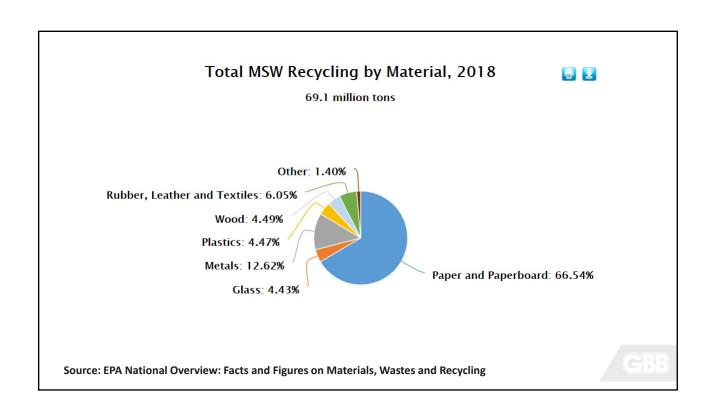


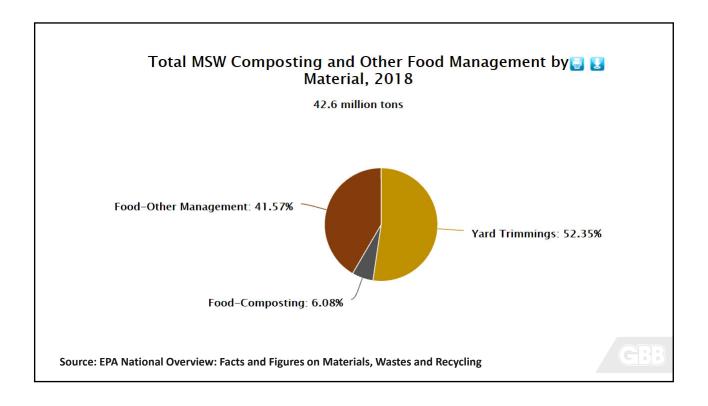












# NYS Food Donation and Food Scraps Recycling Law

- Effective January 2022, businesses that generate at least 104 tons of food waste per year, (calculated as annual avg of 2 tons wasted food/week), must donate excess edible food, and recycle all remaining food scraps.
- In New York State, food makes up 18% of all waste, about 3.9 million tons of wasted food from NY ends up in landfills each year.
- The law applies to large generators of food scraps such as restaurants, grocery stores, hotels & motels, colleges & universities, shopping malls and event centers in NYS, that are located within 25 miles of an organic recycler.
  - This law does not apply to NYC, as the City has already had commercial organics laws in place since 2012.





### Town of Tusten Energy Committee

Includes Narrowsburg: Unique hamlet along the Upper Delaware River in the Sullivan County Catskills

- The TEC appointed in 2011to make sustainable changes to the beautiful Town of Tusten.
  - Certified the 19th town in NYS a Climate Smart Community
- Stood behind Town of Tusten law banning fracking.
- Energy audits
- "TUSTEN RECYCLES" canvas bags
- Public space recycling stickers
- LED Streetlights
- Trex soft plastic collection more than one ton collected = 5 benches!
- Tusten HORSE





### Town of Tusten, NY

HORSE Microdigester, Model AD25 + Food Rescue Program

Funded by 2018 DEC Municipal Food Scraps Reduction, Food Donation and Food Scraps Recycling Programs

HORSE: High Solids Organic waste Recycling System with Electrical output

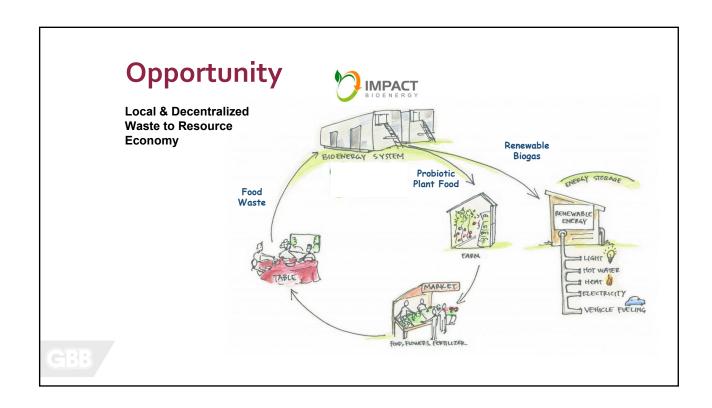
Reviewed Options with CET

- Objectives
  - · Increase food rescue and food donation for the food insecure
  - Install HORSE Microdigester, Model AD25
  - Increase food waste diversion from businesses and residents
  - Train the Tusten Energy Committee for Year 2 + project maintenance



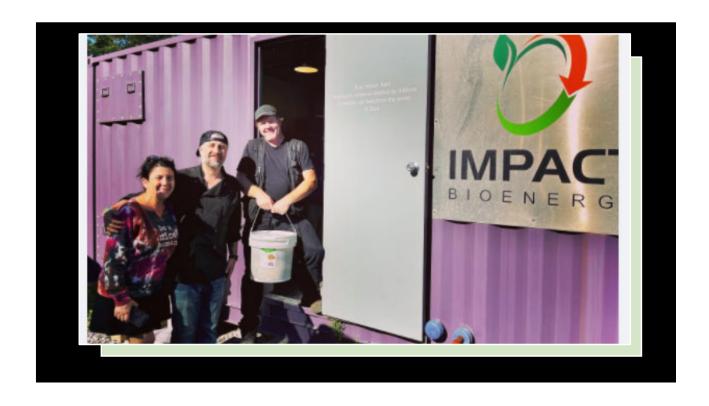


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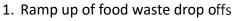




### **Steps Ahead**







- 2. Probiotic plant food marketing
- 3. Higher Ed/Community interest
  - a. RIT case study underway
  - b. SUNY Sullivan operating partnership
  - c. NYS and PA towns planning visits











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# Cafeteria Composting in Onondaga County, NY

Benefits to launching a compost program in school:

- Waste Reduction decreases trash volumes.
- Cost Savings lowers costs to dispose of food waste through lower tip fees at compost sites.
- Education teaches the next generation the value and ease of composting and environmental stewardship.
- Compost produces beneficial, nutrient-rich compost that can be used in gardens, parks, and landscape projects throughout the community.





# Close the Loop: Use Compost

#### Benefits of Compost:

- Adds nutrients to the soil, so plants grow better,
- Retains moisture, so you don't have to water as much,
- Suppresses the spread of plant disease, so your garden stays healthy,
- Reduces the need for chemicals and pesticides, which keeps pollutants out of our water supply.



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## Close the Loop: End Food Waste

40% of all U.S. Food is Wasted (USDA).

#### To address this:

- o Buy just what you need,
- $\circ \quad \text{Understand food date labels,} \\$
- Use all parts of each ingredient, and store food properly for reuse.

#### Public Outreach:

Go to where the consumer is – grocery stores, farmers markets, restaurants, institutions to deliver helpful information on how to end food waste.





