



2022 Hybrid In-Person & Virtual Event!
NYS ORGANICS SUMMIT
April 5-6, 2022 | Albany Capital Center | Albany, NY

Emerging Research & Technology:
Town of Tusten, NY - Operational HORSE

2022 New York State Organics Summit
April 6, 2022




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Today's
Presenter

I am passionate about working with communities now to advance a sustainable future for waste prevention, reuse and recycling.

We have an urgent need to implement regenerative, circular solutions for ourselves and future generations.



Jennifer Porter
GBB Vice President – Sustainability Officer
SWANA / CRRA Certified Practitioner
in Zero Waste Principles and Practices

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Today's Agenda
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*Emerging Research & Technology:
Town of Tusten, NY - Operational HORSE*



GBB + NYS/NYC Regulations
Case Studies of Tusten, NY HORSE
Questions & Answers

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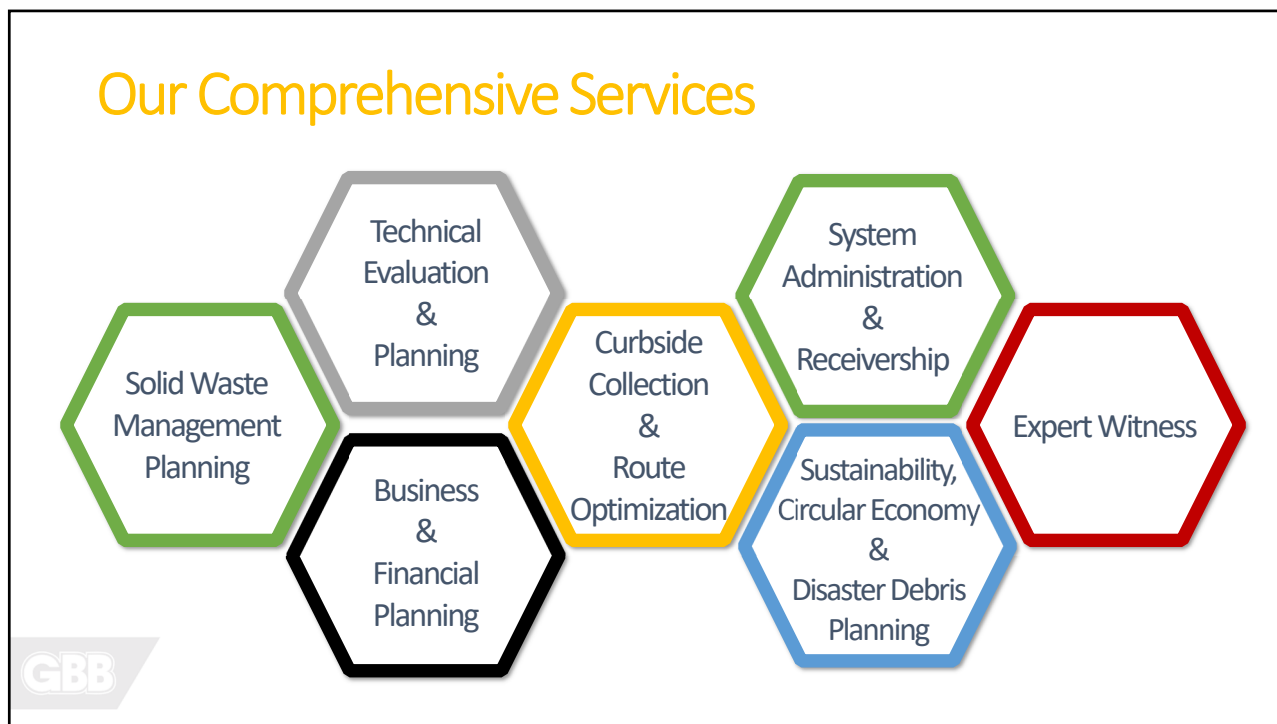


Our Story
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GBB is an international solid waste management consulting firm that helps public- and private-sector organizations craft practical, customized and technically sound solutions for complex solid waste management challenges.

Since 1980, GBB has been a trusted resource at the forefront of the industry, creating success stories that integrate smart planning with effective management of solid waste services. Our staff enables our clients to do more with less.

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Some Key GBB Clients

- GUAM
- COUNTY OF MAUI STATE OF HAWAII
- PRINCE GEORGES COUNTY MARYLAND
- COUNTY OF KENT MICHIGAN
- CITY OF FORT WAYNE INDIANA
- CITY OF CLEVELAND OHIO
- COUNTY OF PRINCE WILLIAM COUNTY VA
- CENTRAL VIRGINIA WASTE MANAGEMENT AUTHORITY
- TOWN OF BABYLON SUFFOLK CO., NY
- CITY OF BATON ROUGE PARISH OF EAST BATON ROUGE LA
- MECKLENBURG COUNTY NORTH CAROLINA
- Northeast Maryland Waste Disposal Authority
- FORT WORTH
- WASATCH INTEGRATED waste management district

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NYS Food Donation and Food Scraps Recycling Law

- Effective January 2022
- Businesses generating 104+ tons of food waste per year, **must donate** excess edible food, and **recycle** all remaining food scraps.
- In NYS, **food** makes up **18% of all waste** (3.9 million tons in landfills each year.)
- 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**.
- Law **does not apply to NYC**, as it has commercial organics laws in place since 2012.



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NYC Commercial Organics Requirements

- As of July 31, 2020: WARNING PERIOD EXTENDED FOR THESE BUSINESSES — NO FINES ISSUED UNTIL JULY 31, 2022
- **Food Service Establishments**
 - With 7,000 to 14,999 square feet
 - Chain of 2 to 99 NYC locations with combined area 8,000+ square feet
 - In hotels having 100 to 149 guest rooms
 - With combined floor area 8,000+ square feet in same location
- **Retail Food Stores**
 - With 10,000 to 24,999 square feet
 - Chain of 3+ NYC locations with combined area 10,000+ square feet
- **Food Preparation Locations**
 - With 6,000+ square feet
- **Catering Establishments**
 - Hosting on-site events to be attended by 100+ people
- **Temporary Public Events**
 - 500+ people

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Town of Tusten Energy Committee

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

- The TEC appointed in 2011 to 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 = 6 benches!
- Tusten HORSE



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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

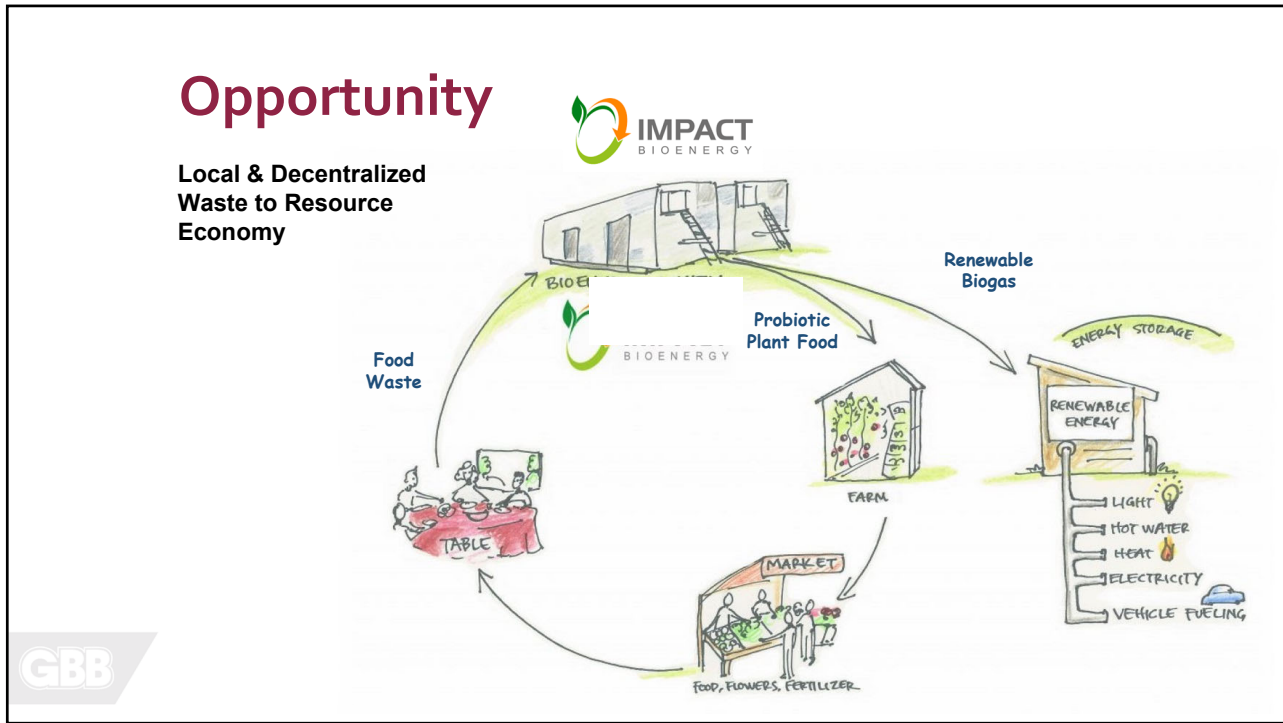
HORSE: High Solids Organic waste Recycling System with Electrical output

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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Products



**25 to 175
tons/year
food waste**
(135 to 960 lbs/day)

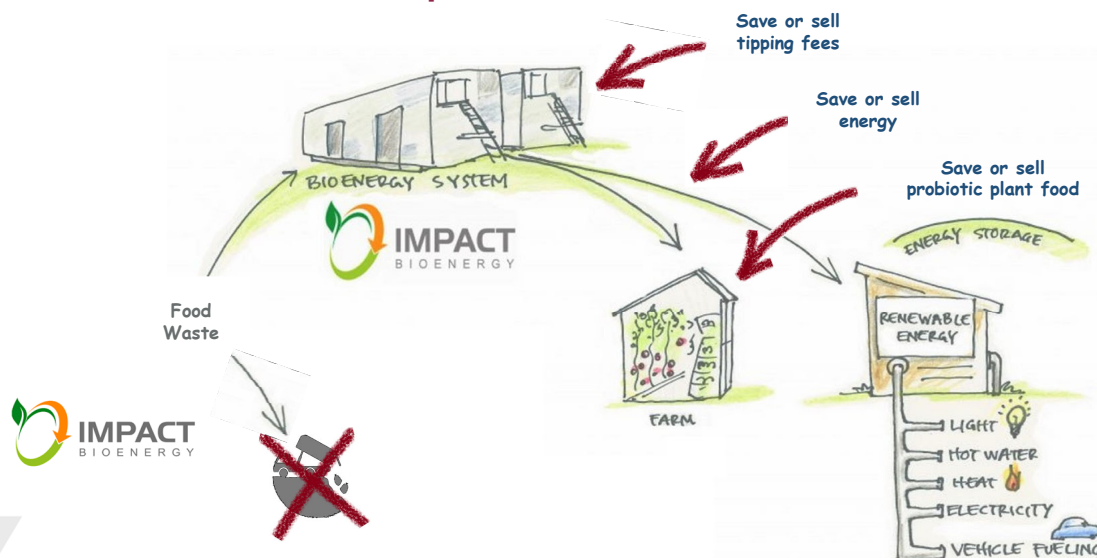


**185 to 925
tons/year
food waste**
(1,000 to 5,000 lbs/day)

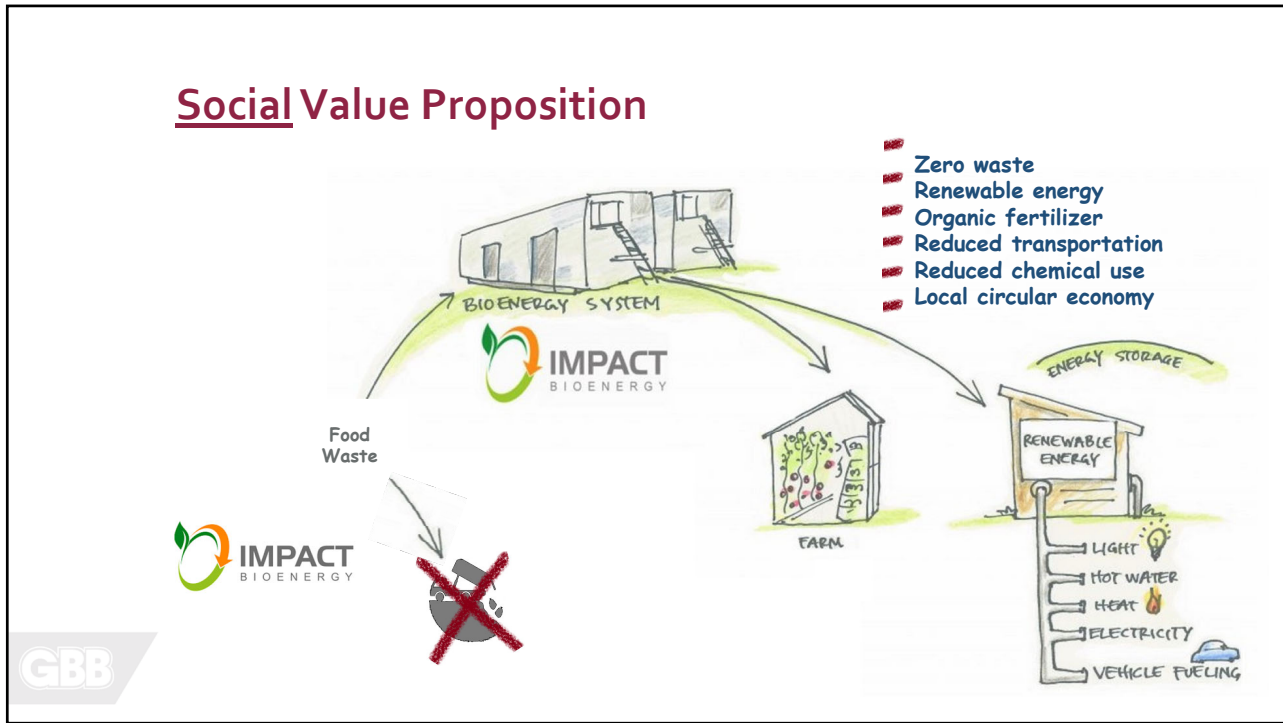


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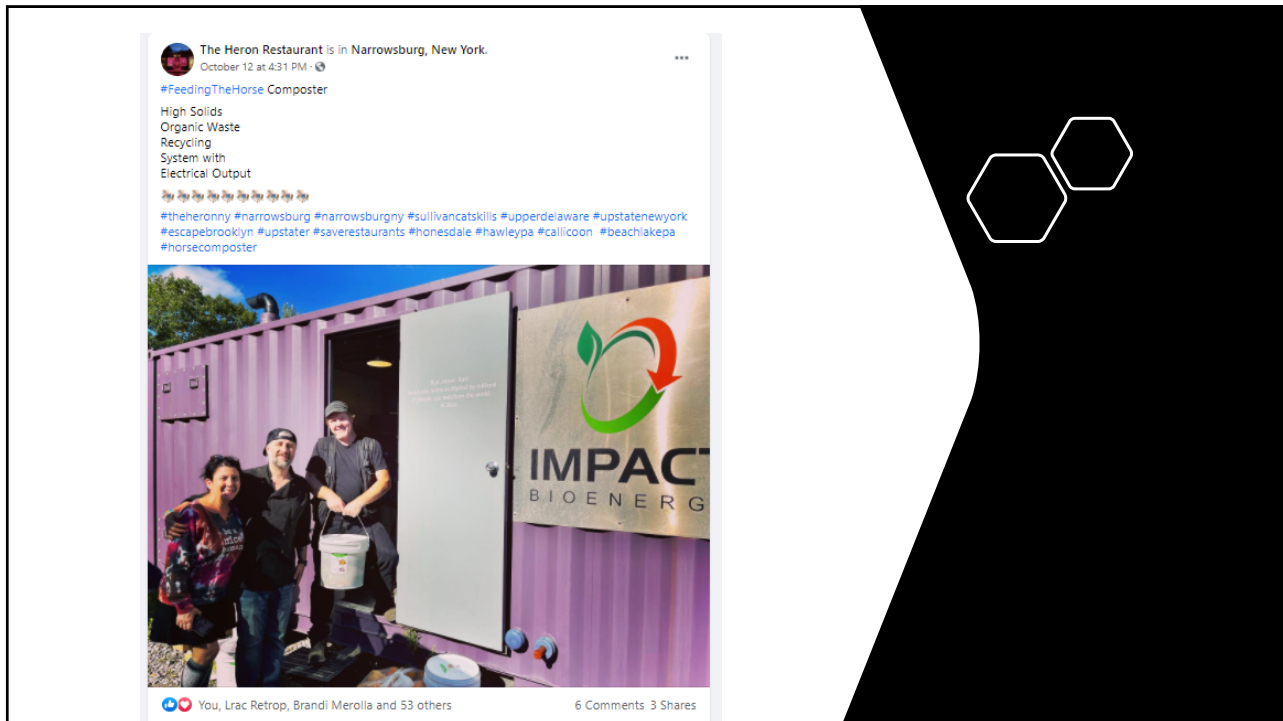
Economic Value Proposition



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Steps Ahead

1. Operational planning
2. Probiotic plant food marketing (NOFA-NY)
3. US DOE BETO Grant pending
 - *Community Driven Bioenergy, Biofertilizer, and Biocarbon with Blockchain*



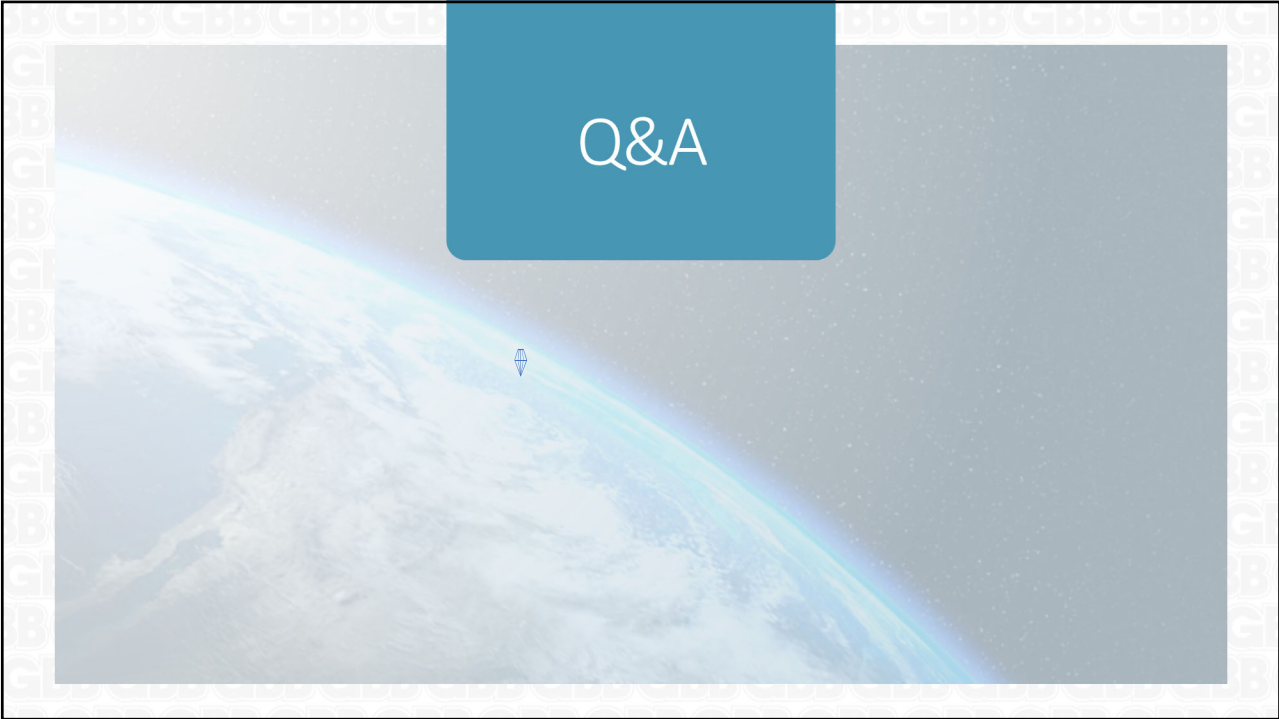
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Steps Ahead - Continued

5. Higher Ed interest
 - RIT case study underway
 - SUNY Sullivan possibilities
6. Community interest
 - Jurisdiction visits
 - 4-H clubs
 - Regional/global conferences



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Thank You!
Contact Us



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