



Imagine This!

*Sustainable Business Series
An educational collaboration between the
Center for Sustainability and the Environment and the
Sullivan Center for Business and Entrepreneurship*

GBB
SOLID WASTE
MANAGEMENT
CONSULTANTS

Wells College
October 27, 2020

About Me!



- 17+ years of experience on government and private sector sustainability initiatives
- A Conservation Program Coordinator in City of Portland, OR, headed renewal of 10-year franchise for city's 23 residential waste haulers
- Clients in California, Louisiana, Maryland, Massachusetts, Michigan, Ohio, Oregon, NYC, Vermont
- Now reside in Catskills, NY with my family

Jennifer Porter '98
GBB Vice President
(347) 979-4992
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Tonight

- Background on GBB and the industry
- Sustainable Materials Management and the Circular Economy
- Project Examples
- My Advice



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Gershman, Brickner & Bratton, Inc.

Innovative, Sustainable Solutions for Solid Waste Management

Our Vision

We believe in a world where **discarded materials are used as resources** rather than wasted – for the benefit of communities and the environment.



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Our Mission

We help our clients solve solid waste management issues by providing **innovative, responsible, sustainable,** and **economical** strategies and solutions for the benefit of communities and the environment.

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Innovative, Sustainable Solutions for Solid Waste Management

- We work in partnership with our clients to develop **innovative, cost-effective** approaches that achieve **measurable results**.
- As an international management consulting firm, we help public- and private-sector organizations craft **practical, customized, and technically sound solutions** for complex solid waste management challenges.
- Headquartered in McLean, VA, GBB has focused exclusively on solid waste issues since 1980.



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GBB's Comprehensive Services

Strategic Solid Waste Management Planning

Sustainability, Circular Economy, & Disaster Debris Planning

Technical Evaluation & Planning

Curbside Collection & Route Optimization

Business & Financial Planning

System Administration & Receivership

Expert Witness



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Sustainability & Organics Management

- Sustainable Materials Management Planning
- Sustainable Project/Business Development
- Circular Economy Development
- Zero Waste Certification Assistance
- Zero Waste Planning & Strategy
- Eco-Industrial Park Planning & Implementation
- High-Level Lifecycle Impact Analyses
- Disaster Debris Management Planning

Featured Experts



Jennifer Porter
GBB Vice President
Certified Practitioner
in Zero Waste
Principles and
Practices

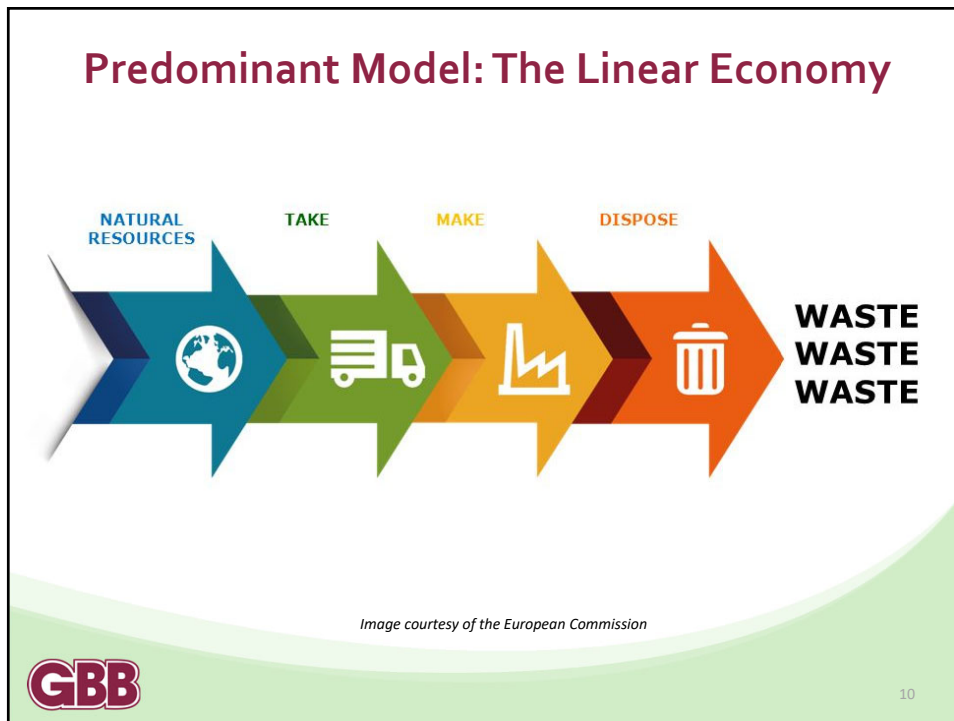
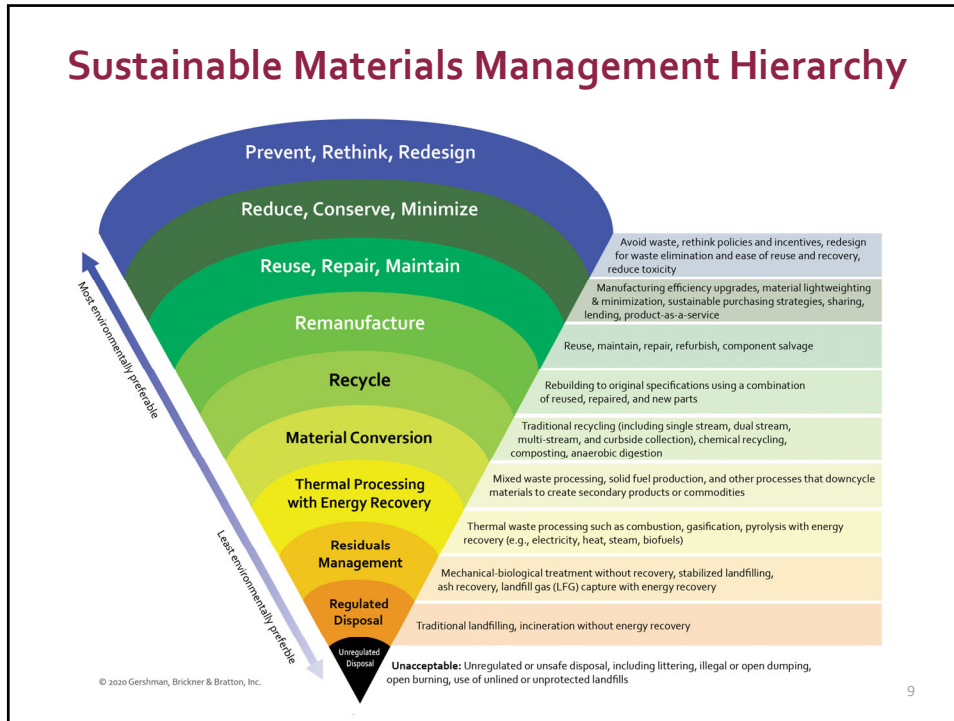
Corinne Rico
GBB Project Manager
Total Resource Use
and Efficiency
(TRUE) Advisor

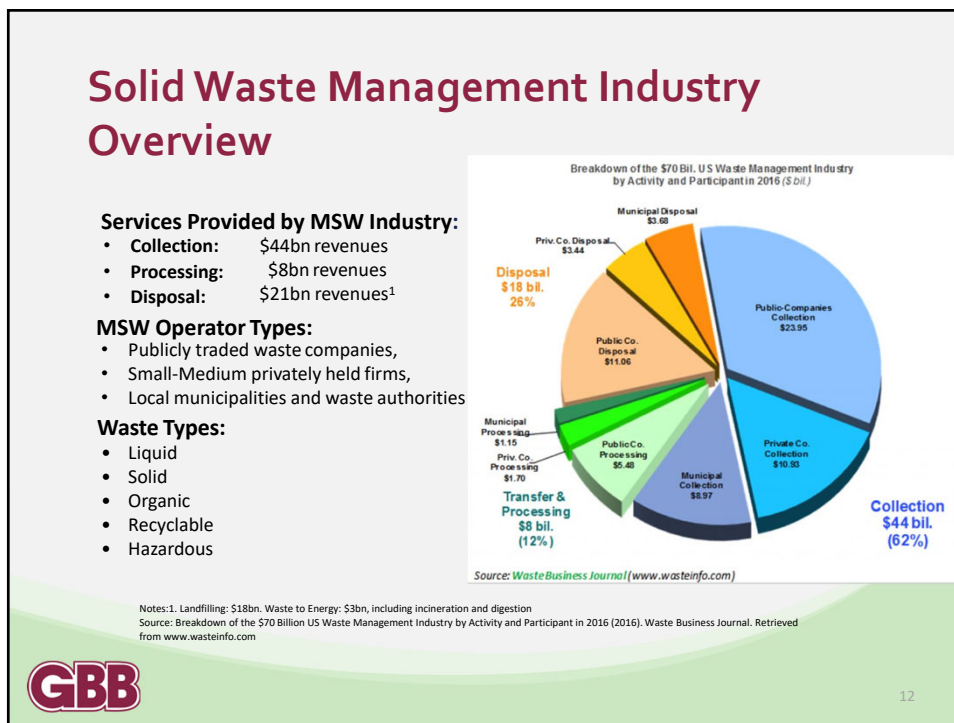
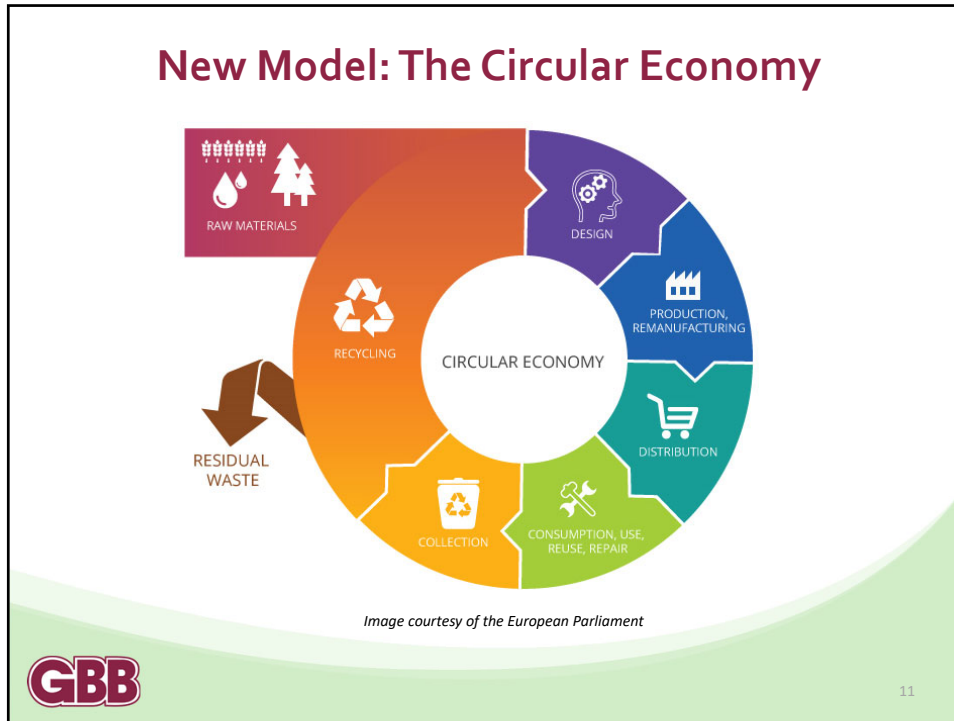


The three pillars of sustainability



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Careers in Solid Waste Management

Civil/ Environmental Engineers	Mechanical Engineers	Material Science
Government/ Political Science	Urban Studies/Planning	Business Marketing
English/ Journalism	Finance/ Accounting	Sustainability/ Resilience

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Project Examples *Imagine This!*

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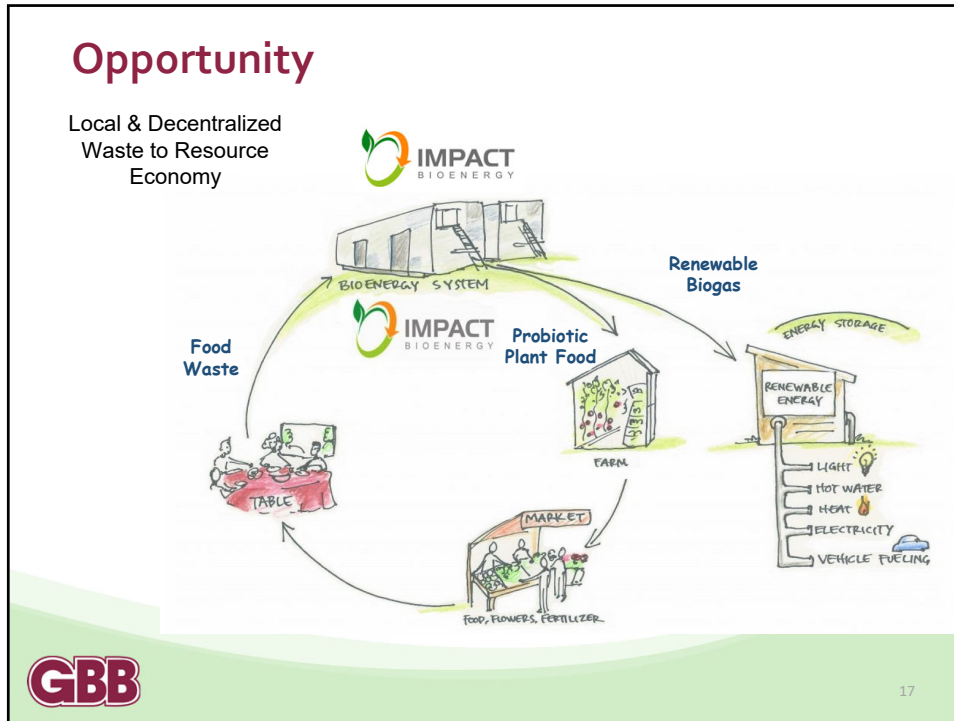
Town of Tusten, NY

HORSE Microdigester, Model AD25 and 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

- 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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Prince William County, VA Advanced Composting Facility

- Second-most populous county in VA with **~470,000 residents**, ~35 miles west of Washington, DC
- **Prior to 2020**, Prince William County's Balls Ford Road (BFR) Composting Facility was a **traditional windrow facility, processing ~25,000 TPY** of:
 - Yard waste
 - Wood waste
 - Limited pre-consumer, non-animal-derived food waste
 - Industrial/Commercial/Institutional (ICI) and Residential sources



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Prince William County, VA Advanced Composting Facility: *Phase 1*

- Technology implemented: **Open bunker and aerated static pile advanced composting**
- ECS advanced composting system processes **~75,000 TPY**
 - **60,000 TPY "green waste"**
 - **15,000 TPY food waste** (ICI and new resident drop-off)
- Yard waste, wood waste, and pre- and post-consumer food and animal-derived wastes that would have **otherwise gone to the landfill**
- Preserves landfill space, minimizes methane emissions and climate impacts from landfilling organic waste, produces valuable compost
- Additional 30,000 TPY wood/brush processed in mulching operation, separate from ECS system



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Prince William County, VA Advanced Composting Facility: *Phase 2*

Phase 2 facility anticipated completion 2022

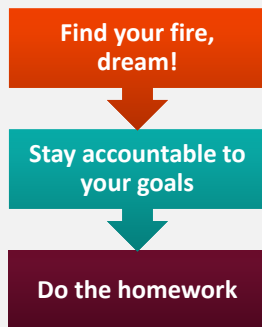


- Closed, in-vessel advanced composting technology
- Increases total facility capacity up to ~210,000 TPY by adding ~105,000 TPY (roughly a 60/40 mix of food waste to “green” waste) processed through the vessels
- Includes solar panels to produce renewable electricity for on-site use & modular, containerized “greenhouses,” heated with waste heat from in-vessel bunkers



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My Advice



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Thank you!

For more information, contact:

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1980-2020

*40 years
of Service*

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