



**GREEN MOUNTAIN  
TECHNOLOGIES**

# Advanced Composting for Municipal Transfer Stations, Schools & Institutions



**Betsy La Force, GMT  
March 14, 2024, Connecticut Compost Alliance  
Connecticut College, New London, CT**



# Green Mountain Technologies (GMT)

- Commercial compost facility design & technology firm, since 1992
- Hundreds of commercial facilities and In-Vessel clients of all types & sizes
- Headquarters: Seattle, Washington



**Mission: Helping forward-thinking organizations reduce their environmental footprint, save money & produce high quality compost.**



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# GMT Products/Offerings

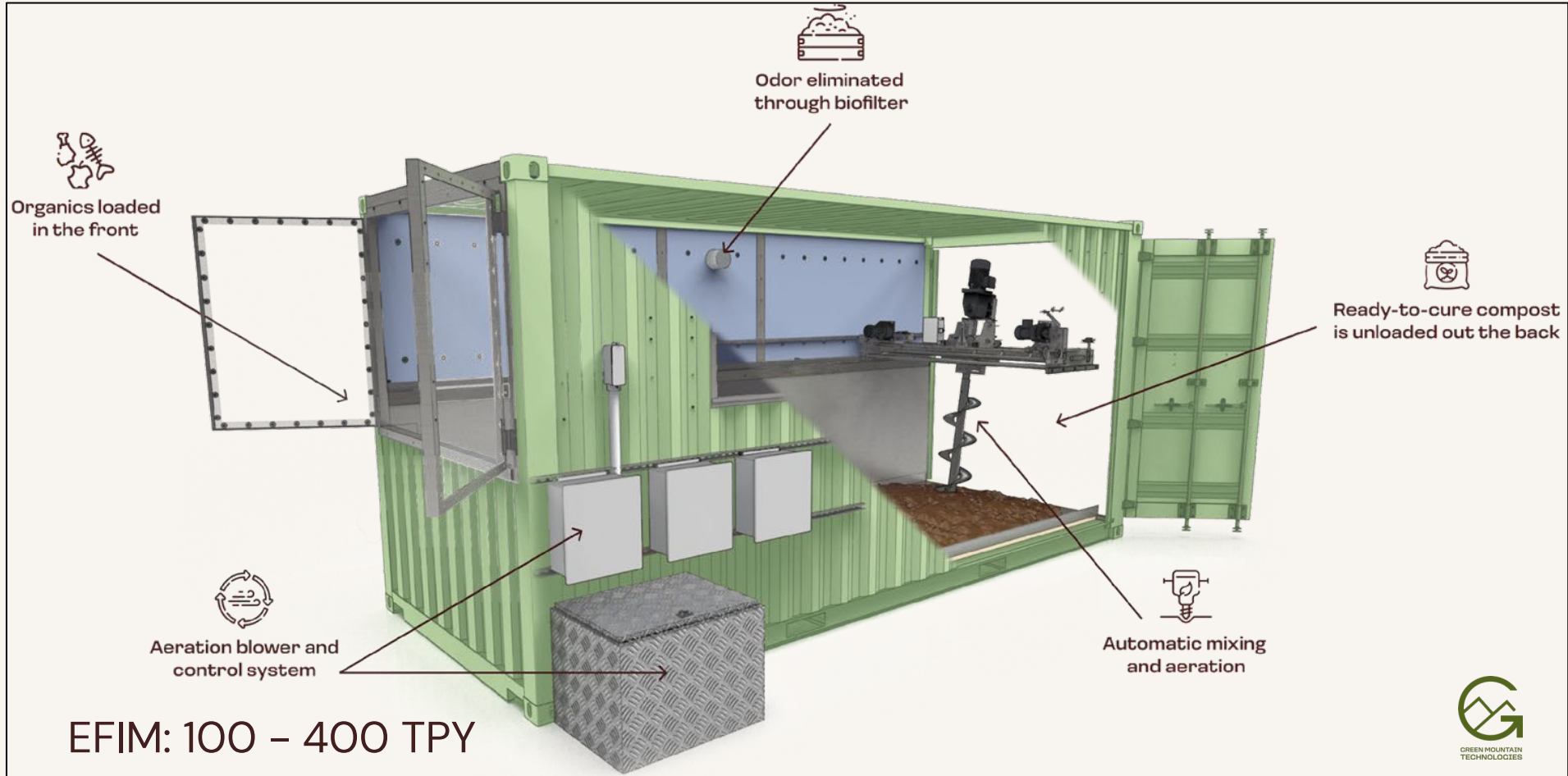
Commercial Facility Design, Consulting & Equipment



In-Vessel Composting Systems

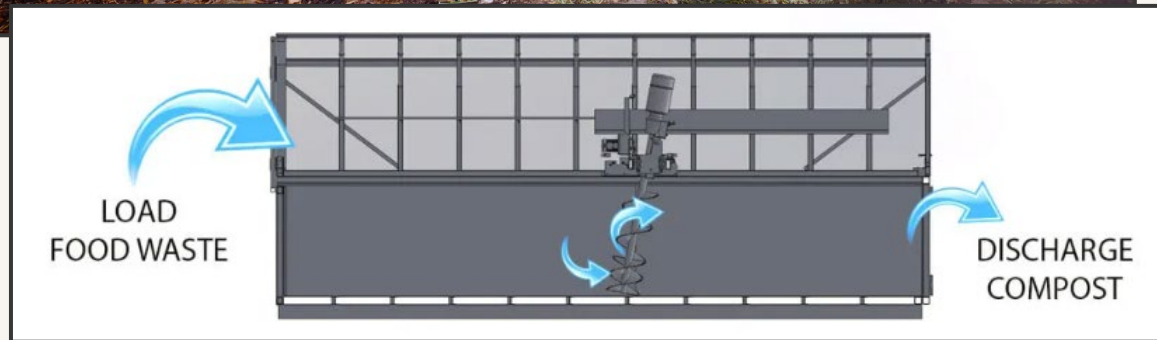


# How the Earth Flow Works



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# Key Features & Benefits



- Continuous flow, reduced operating costs
- Easy to operate, flexible loading & unloading schedule
- Automated mixing & aeration
- Food scraps, manure, yard waste, cardboard, bioplastics
- Visible & accessible
- Temperature control
- Odor control
- High quality finished compost!
- C:N – recipe is important!
- Carbon sourcing

# In-Vessel Composting

**Operator:** Rutgers University

**Location:** New Brunswick, NJ

**Feedstock:** Food & Agriculture  
Waste

**Capacity:** 180 T/year

**Year Installed:** 2023

**Project Components:**

- 20' Intermodal Earth Flow
- Tote Tipper
- Biofilter



## Client's Requirements

- Sustainable solution to food & animal waste
- Reduce environmental footprint & hauling costs
- Enrich campus grounds
- Climate plan
- Living Laboratory for organics recycling & reuse
- Funding by NJDEP
- Collaboration with NJ Composting Council



## Our Solution

- Consultation
- Training
- Recipe planning
- Stakeholder engagement
- On site commissioning







Lafayette College Easton, PA





Full Circle Farms, HI

## Community Spotlights



Kids Food Basket, Kent County, MI



Dayton Food Bank, OH



Zero Waste Glenorchy, NZ

# Scaling Up: Site Built Earth Flow & Hybrid ASP



Ready-to-cure compost  
is unloaded out the back



Automatic mixing  
and aeration



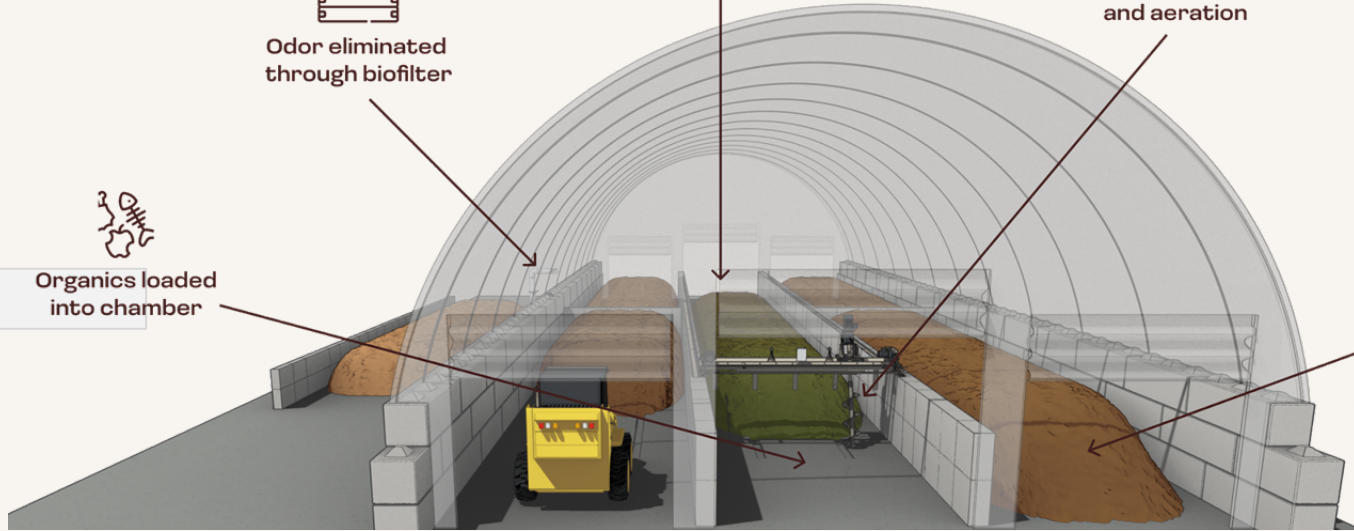
Odor eliminated  
through biofilter



Organics loaded  
into chamber



Processed material goes  
into curing bays or  
secondary ASP bunkers

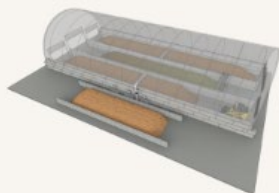


Up to 5 TPD capacity, 10,000 PPD

# Site Built Earth Flow (SB-EF)

## Specifications

The culmination of 30 years of engineering, the Earth Flow is a simple yet effective composting solution that automates mixing, moisture addition, material movement, monitoring, odor control, and aeration while keeping maintenance and labor costs low. Ideal for processing food waste, manure and compostable bioplastics. \$0 down financing available.



FEATURES	EF-SB40	EF-SB50	EF-SB60
Emissions compared to windrow	80% - 95% less	80% - 95% less	80% - 95% less
Leachate generation	Zero discharge	Zero discharge	Zero discharge
Capacity (21 day retention)	565 T/year	715 T/year	865 T/year
Capacity (14 day retention)	850 T/year	1,075 T/year	1,300 T/year
Capacity (7 day retention)	1,700 T/year	2,150 T/year	2,600 T/year
Volume	75 yd <sup>3</sup>	95 yd <sup>3</sup>	115 yd <sup>3</sup>
Vessel length x width	40' x 12'	50' x 12'	60' x 12'
Pile depth	4.5'	4.5'	4.5'
Flow	Batch or continuous	Batch or continuous	Batch or continuous
Controls	Remote or local	Remote or local	Remote or local
Full load power single phase	200-240V, ~60A	200-240V, ~70A	200-240V, ~80A
Full load power three phase	400-460V, ~50A	400-460V, ~60A	400-460V, ~70A
Electrical use per day	60+ kwh	70+ kwh	80+ kwh
Warranty	1 year	1 year	1 year



SCAN ME

# Intermodal Earth Flow (IM-EF)

## Specifications

The culmination of 30 years of engineering, the Earth Flow is a simple yet effective composting solution that automates pre-mixing, moisture addition, material movement, monitoring, odor control, and aeration while keeping maintenance and labor costs low. Ideal for processing food waste, manure and compostable bioplastics. \$0 down financing available.



FEATURES	EF-IM20	EF-IM40
Emissions compared to windrow	90% to 95% less	90% to 95% less
Leachate generation	Zero discharge	Zero discharge
Capacity (21 day retention)	150 T/year	300 T/year
Capacity (14 day retention)	225 T/year	450 T/year
Volume	20 yd <sup>3</sup>	40 yd <sup>3</sup>
Vessel length x width x height	20' x 8' x 8-9.5'	40' x 8' x 8-9.5'
Empty weight	3.4 tons	6.25 tons
Flow	Batch or continuous	Batch or continuous
Controls	Remote or local	Remote or local
Full load power single phase	200-240V, 40A	200-240V, 50A
Full load power three phase	400-460V, 30A	400-460V, 40A
Electrical use per day	20 kwh	30 kwh
Warranty	1 year	1 year



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# Free Resources [www.compostingtechnology.com/education-resources](http://www.compostingtechnology.com/education-resources)

COMPOST

RECIPES  
FEEDSTOCKS

## ADD NEW RECIPE

Recipe Name \*

Feedstocks

i Food Waste  weight (pounds)

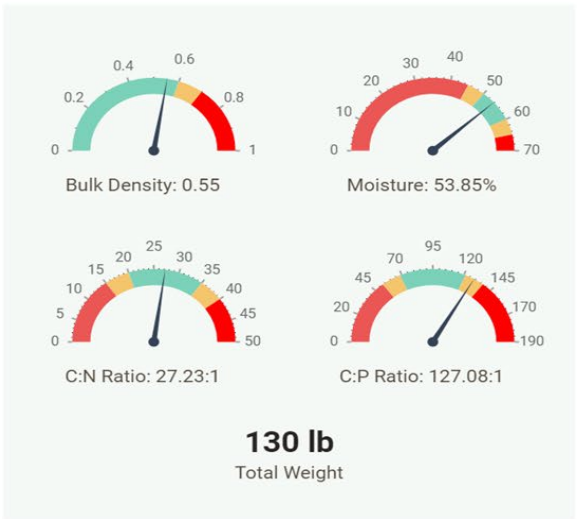
i Bark hardwoods  weight (pounds)

+ ADD ANOTHER FEEDSTOCK

🖨️ PRINT RECIPE

CANCEL

SAVE RECIPE +



Bulk Density: 0.55

Moisture: 53.85%

C:N Ratio: 27.23:1

C:P Ratio: 127.08:1

**130 lb**

Total Weight



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# Conclusion & Call to Action – Solutions!

- Decentralized, small scale solutions
- Economic & environmental benefits
- Easy to deploy
- On farm composting
- Climate action, soil building
- Educational opportunities
- Community engagement
- Grant funding available!
- Financing available
- Public private partnerships
- Pilot projects prove it can be done
- Earth Flow makes it easy!
- 10% of GMT profits going back to community





Lettuce compost together!  
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[betsylf@compostingtechnology.com](mailto:betsylf@compostingtechnology.com)