

The Housatonic Resources Recovery Authority is the regional, governmental, waste and recycling authority serving 14 municipalities in Western Connecticut.



Bethel
Bridgewater
Brookfield
Danbury
Kent
New Fairfield
New Milford

Newtown
Redding
Ridgefield
Roxbury
Sherman
Weston
Wilton

August 27, 2025 NERC Webinar

Small-Scale On-Site Food Waste Management Technologies

Municipal Solutions

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Municipal Food Scraps Collection & On-Site Processing

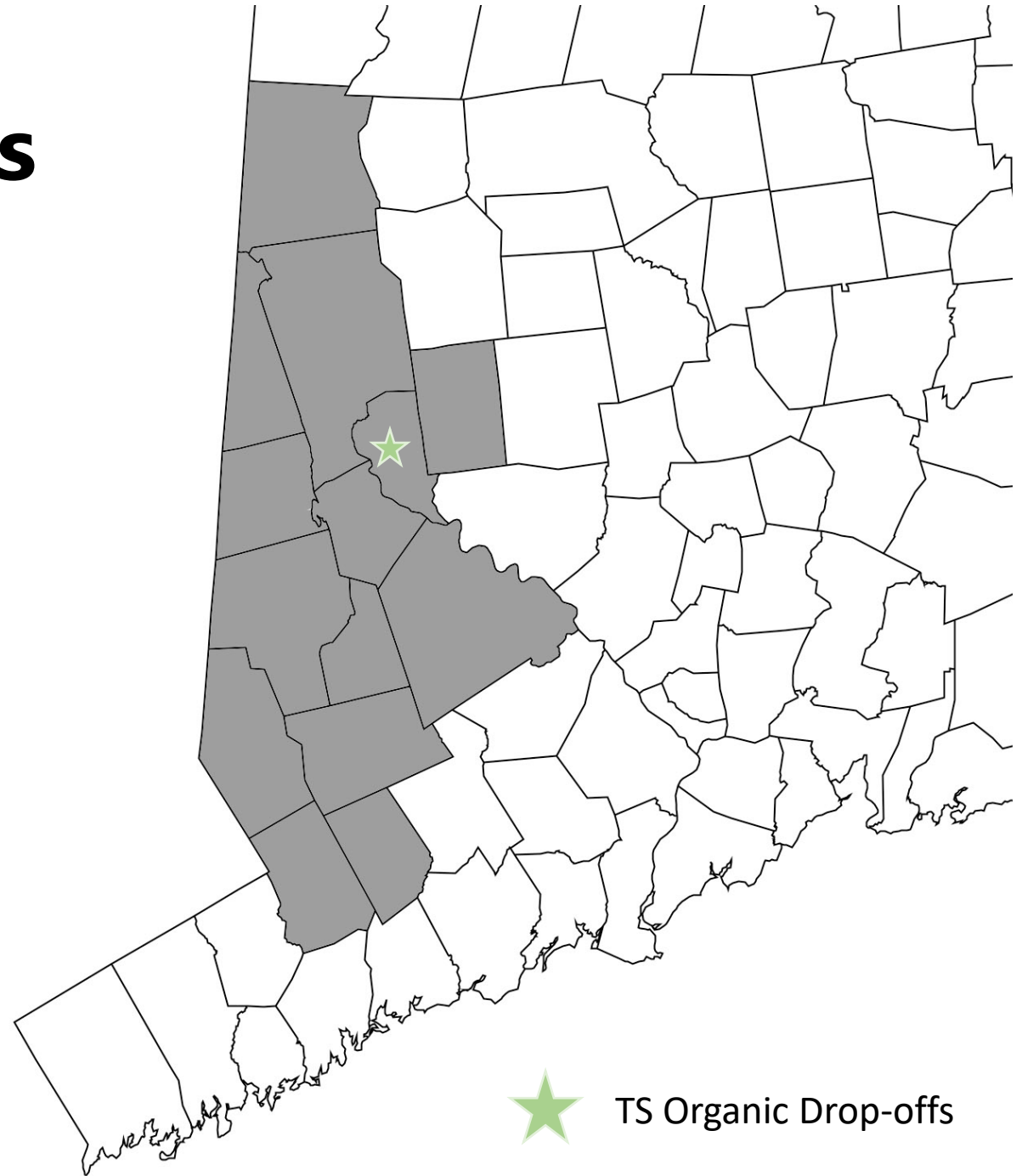


Municipal Food Scraps “Building Access”

HRRA started in 2014

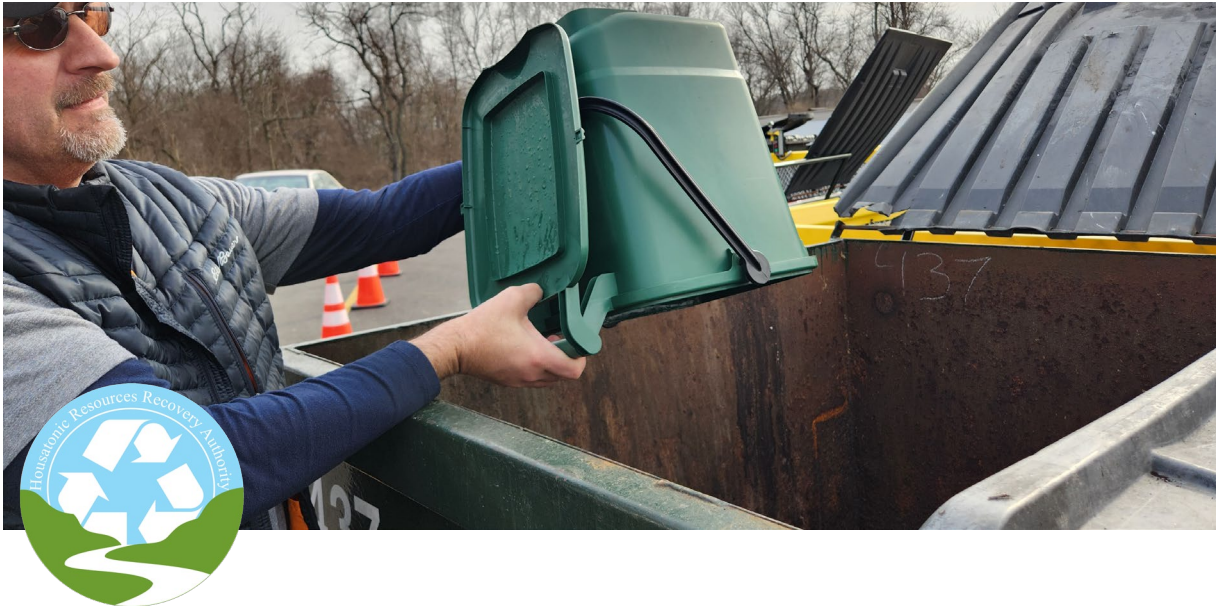
Bridgewater, CT

Population 1662





Municipal Transfer Station Drop-off

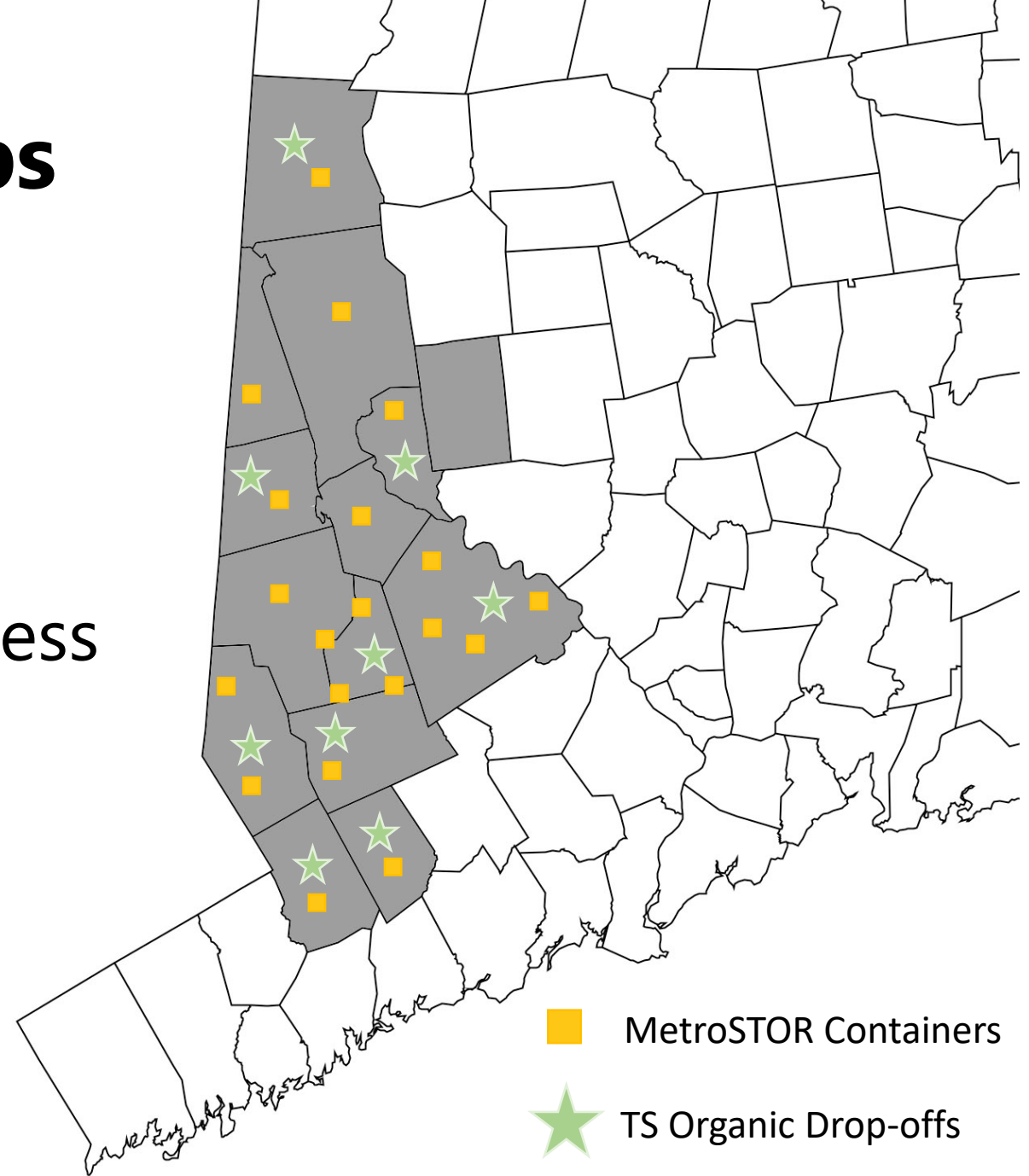


Municipal Food Scraps Collection Sites

HRRA Region in 2025

9 Transfer station locations

20 Satellite containers 24/7 access



Touch-Free Recycling

Use the foot pedal to deposit food scraps without touching the cart lid

Minimize Contamination

Control user access with smartphone app or electronic keypad options

 **metroKEY**



Cart Specific Models

Manufactured in 3 model sizes for 35, 65 and 95 gallon carts

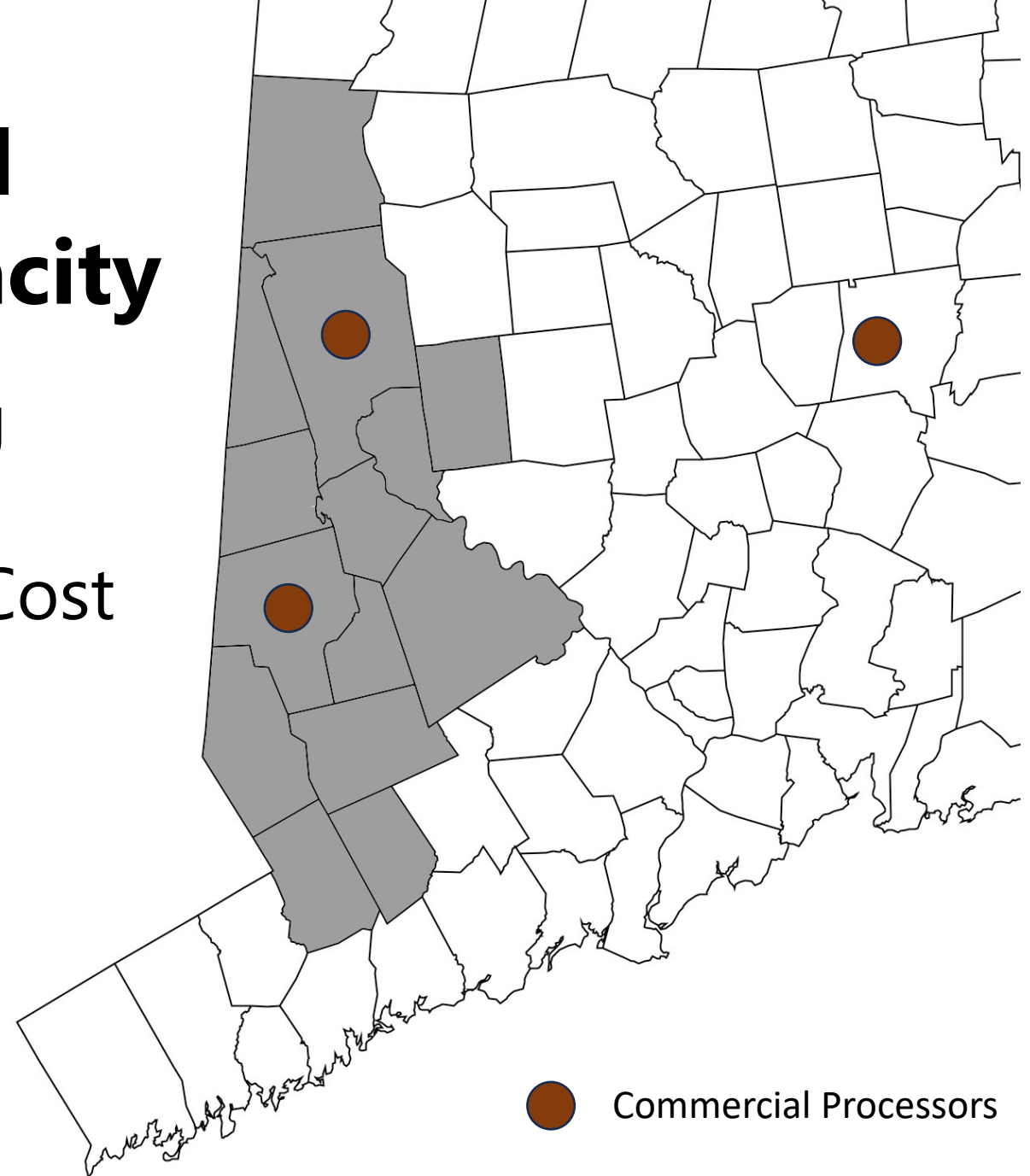
Heavy Duty Build

All steel manufacture with zinc and color coated finishes



Why Build Municipal On-site Processing Capacity

- Limited commercial processing
- Inconsistent acceptable list
- Unsustainable Transportation Cost
- Distance to processors
- Carbon footprint of T&D



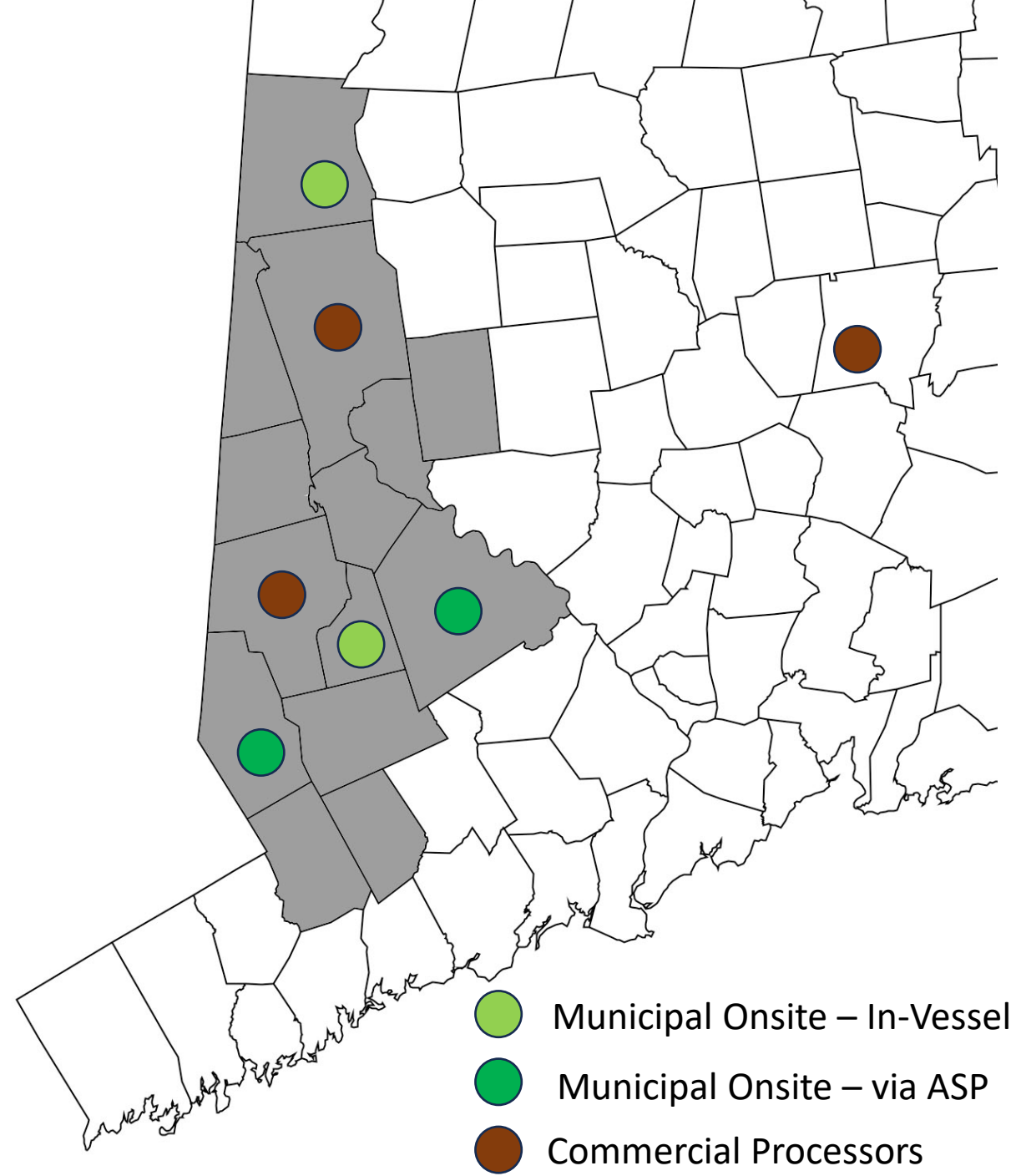
HRRA's Processing Capacity

Ridgefield ASP system - 2022

Newtown ASP system - 2024

Kent in-vessel - 2025

Bethel in-vessel - 2026



Municipal Processing

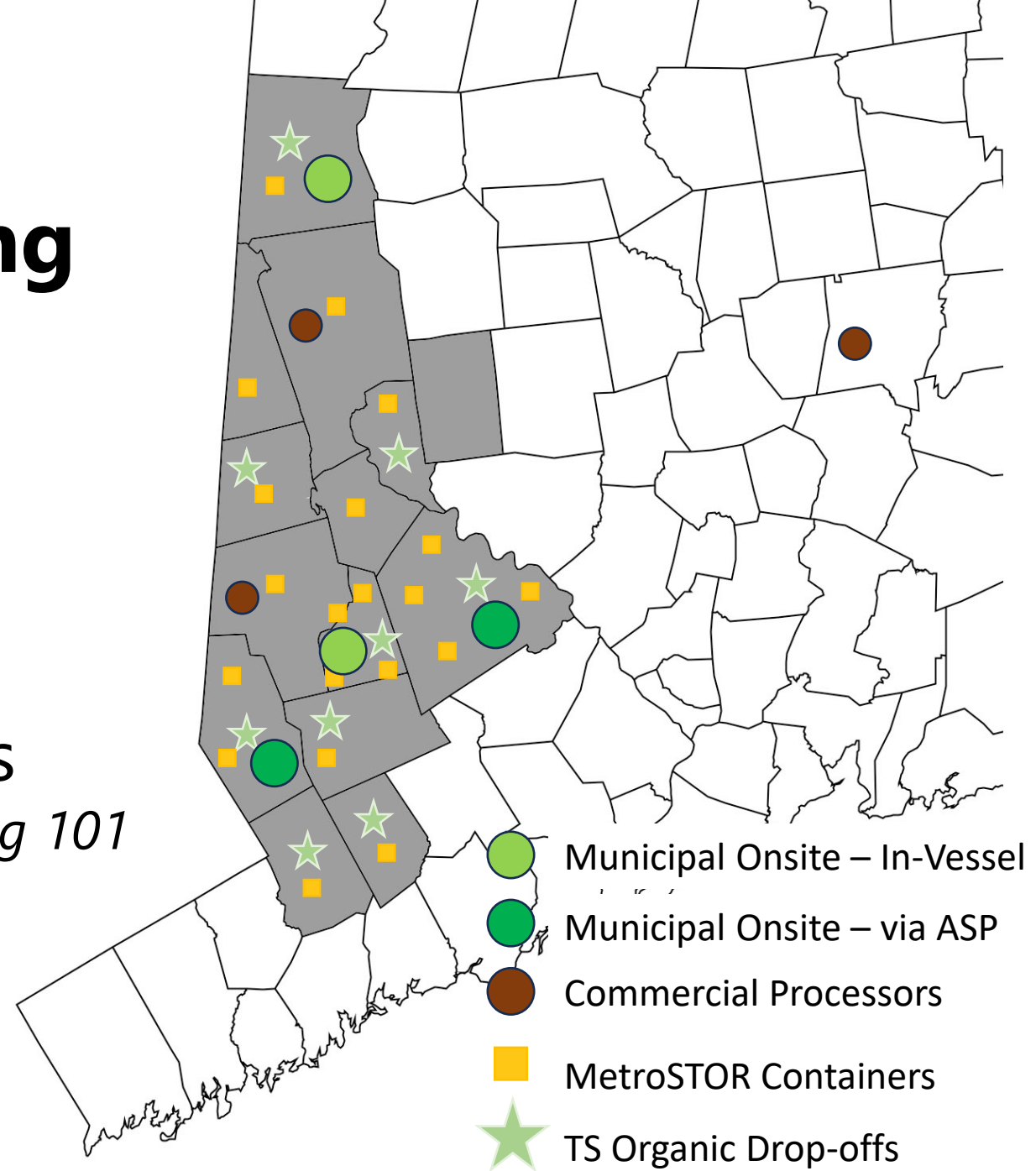
Solar Aerated Static Pile (ASP) Composting



HRRA's Food Scraps Collection & Processing Network

- 29** Drop-off Locations
- 2** Commercial Processors
- 2** Municipal ASP systems
- 2** In-vessel composting systems

** HRRA also provides backyard composting 101 to the residents of the region*



How a Solar Aerated Static Pile system works?



Aerated Static Pile is a compost pile that air is force into via perforated pipes.



Ridgefield, CT - Solar ASP System



**The pipes have holes set every 4"
On two sides (4 o'clock/ 8 o'clock)**

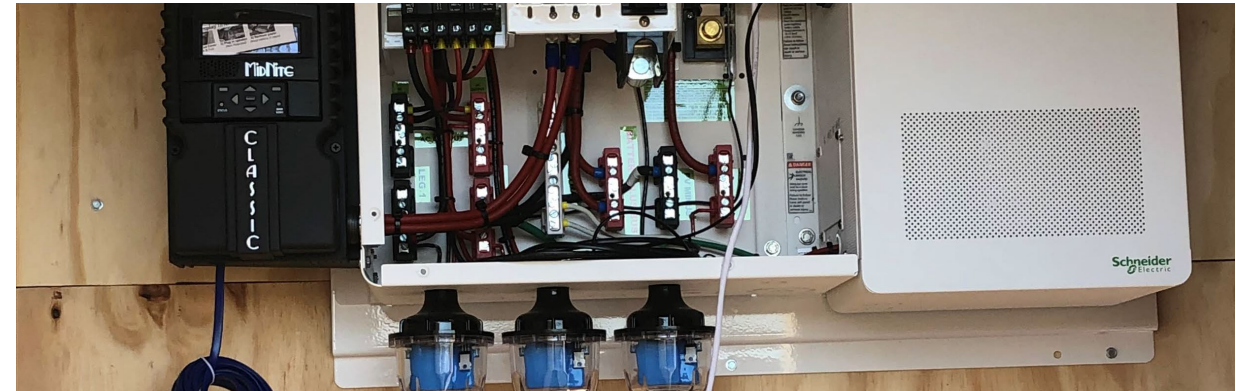
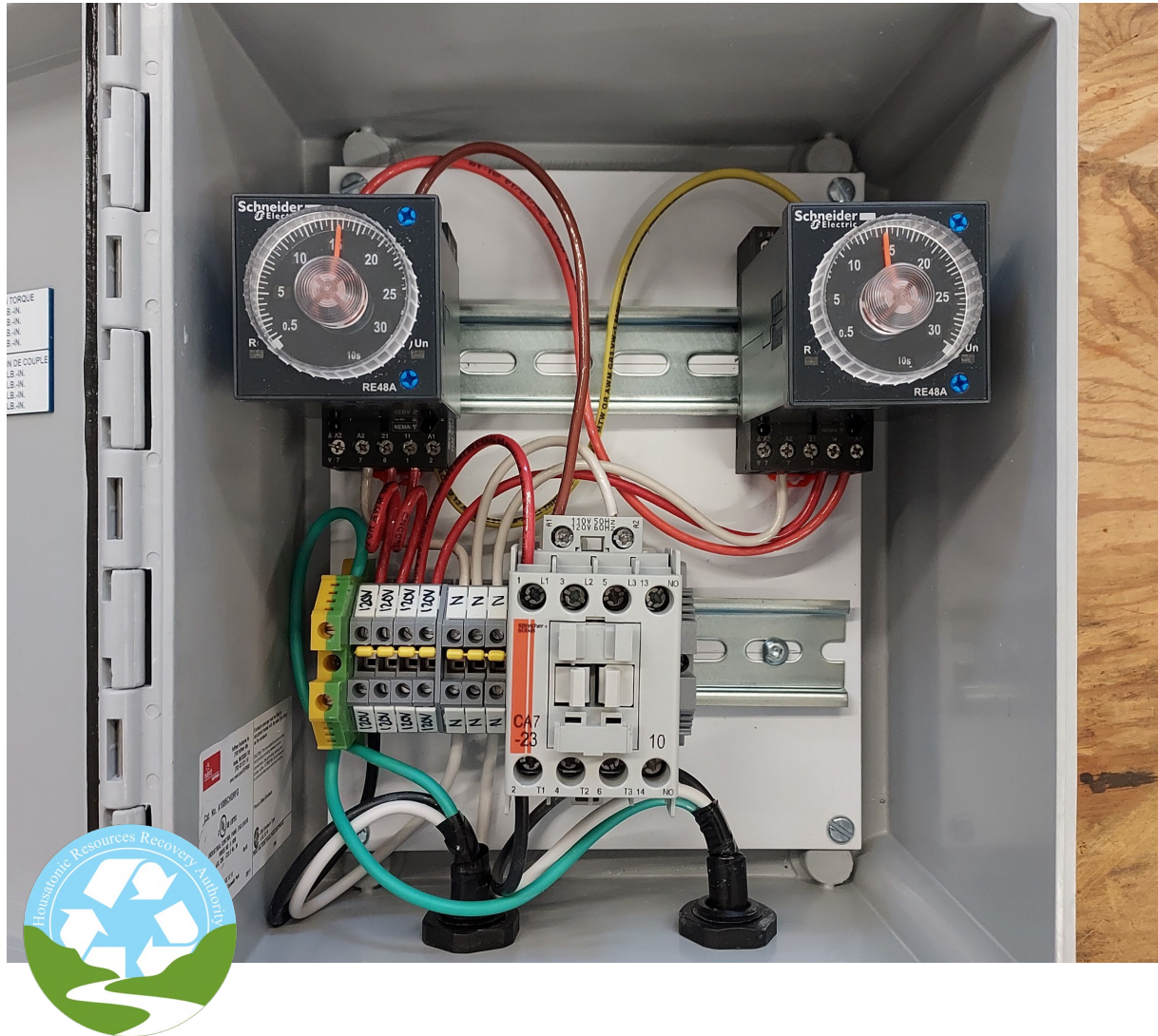


A blower sends air into the pipes





Timing is everything



Pile needs to sit on pipes for 30 days



Track & Log Temperatures



Pull the Pipes after 30 days





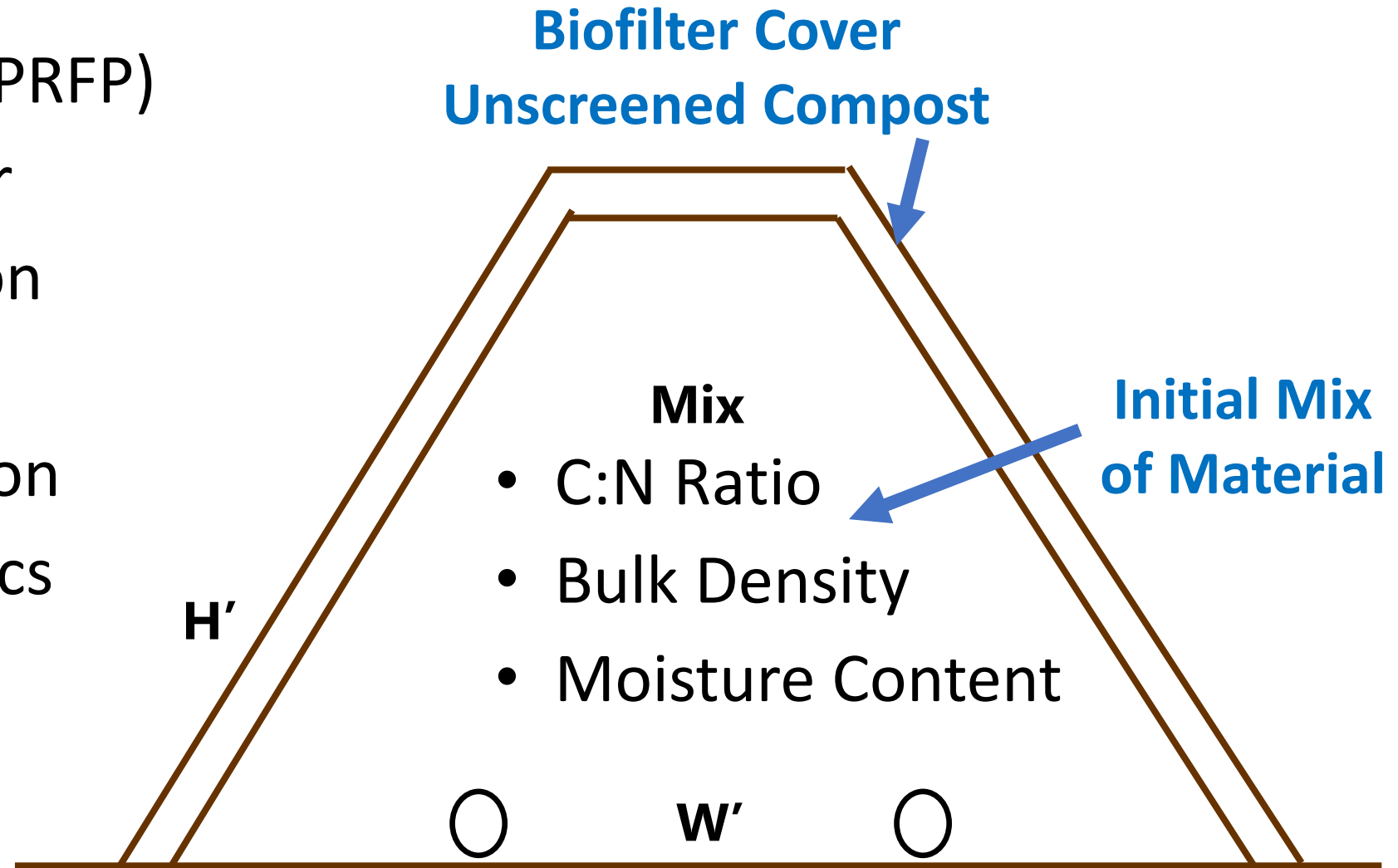
Set Pile Back on New Pipe for 14 days

Screen Finished Compost



Biofilter Cover Layer - Aerated Static Pile

- Insulating Layer (PRFP)
- Biofiltration Layer
- Nutrient Retention
- Vector Barrier
- Moisture Retention
- Improve Aesthetics



Using Sustainable Supplies



Partner with local experts



Local Partners / Donated Material



Finished compost is distributed



Benefits - Aerated Static Pile (ASP) Composting

- Reduce cost of T&D
- Reduce carbon footprint
- Resolve odor issues with biofilter
- Reduce the cost of processing
- Readily available compost
- Residents “SEE” value
- Compliments PAYT programs

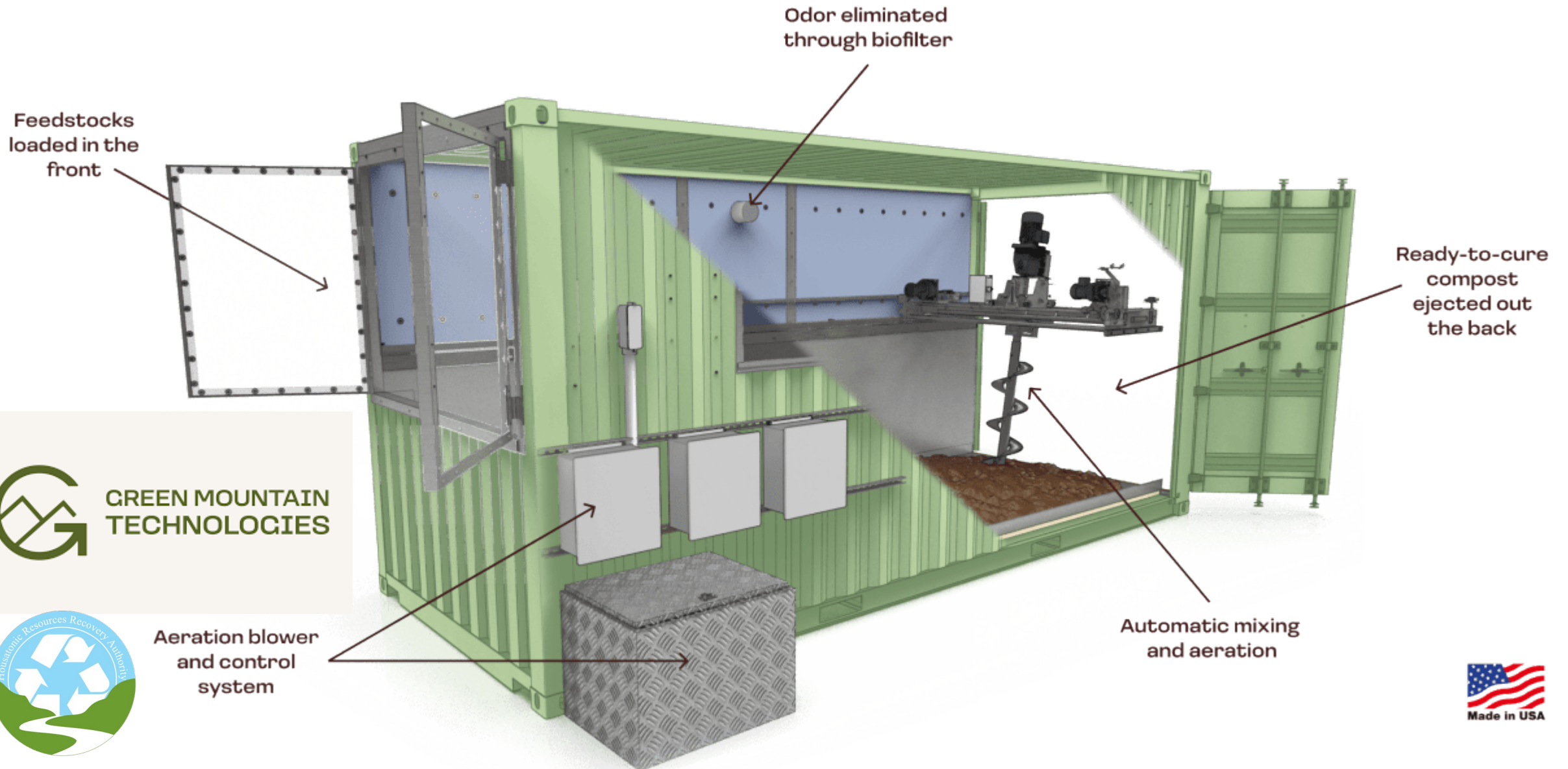


Challenges of an ASP Composting System

- Cost to start
- Permits
- Public Works Employees
- Equipment
- Maintenance
- Volume of inputs
- Contamination



In-Vessel Composting



In-Vessel Composting

Benefits & Challenges

- Controlled Conditions
- Resolve odor issues
- Pest Control
- Efficient Space Usage
- Better Leachate Management
- Faster & Quality Compost
- Higher Cost
- Mechanics & Equipment Needed



"Grow a better Future, Compost"



Cara, 4th grader Weston, CT



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Want more information?
Visit us at www.HRRA.org

