

FUTURE-PROOFING THE FOOD SUPPLY CHAIN

Practical Steps for Efficiency, Risk Reduction, and Brand Protection

Mike O'Laughlin, CEO

***VANGUARD
RENEWABLES***[®]





**IN 2023, 73.9 MILLION TONS OF
SURPLUS FOOD WERE GENERATED.**

**18% OF THOSE TONS CAME FROM
THE MANUFACTURING SECTOR.**

A \$41.9 BILLION VALUE.

Source: ReFED

WHAT IS THE IMPACT ON YOUR BUSINESS?

Four ways that waste management can affect your business outcomes.

In a December 2023 survey we conducted with 118 food manufacturers, service reliability was ranked as the most important overall factor when selecting an organic waste partner, with risk coming in a close second.



OPERATIONAL REALITIES

What are the impacts of your waste choices?



Reliability

- Operational disruptions and forced downtime
- Emergency hauling costs and storage strain
- Resource reallocation and productivity loss
- Health and safety risks



Business Risk

- Regulatory fines and compliance violations
- Contamination liability and lack of traceability
- Reputational damage and financial exposure
- Reduced outlet options as products evolve



Operational Efficiency

- Escalating costs and hidden fees
- Multiple vendors create failure points
- Onsite processing impacts space and focus
- Double handling increases inefficiency



Sustainability

- Regulatory pressure persists at state level
- Unmet goals damage credibility
- Greenwashing and reputational risk
- Missed competitive advantages and market opportunities

OUR APPROACH

Harnessing the power of waste with consultative solutions.



With over a decade of operational experience and a network of strategic partners that spans the country, we offer reliable routine and emergency services.



Our solutions protect you from compliance violations, contamination risks, and brand damage, with full transparency and adaptability as your business evolves.



We offer a fully integrated solution that includes logistics, infrastructure, compliance, and reporting, enabling you to work with one waste vendor.



Our team of experts understands regulatory requirements, and we'll never send your waste to a landfill.

EXAMPLES IN ACTION

RETAILE



- Servicing across New England and Wisconsin with active expansion plans into several additional geographies
- Invested in technology to provide client with more accurate store-by-store waste volumes

FOOD



- Reviewed waste volumes and helped the client evaluate engineered solution options
- Advised on installation of a screw press that will reduce the client's output and long-term expenses, paying for itself within 14 months

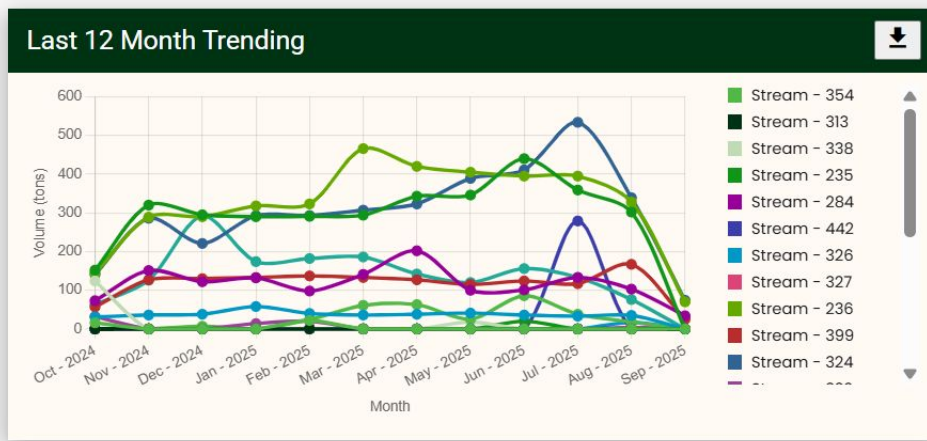
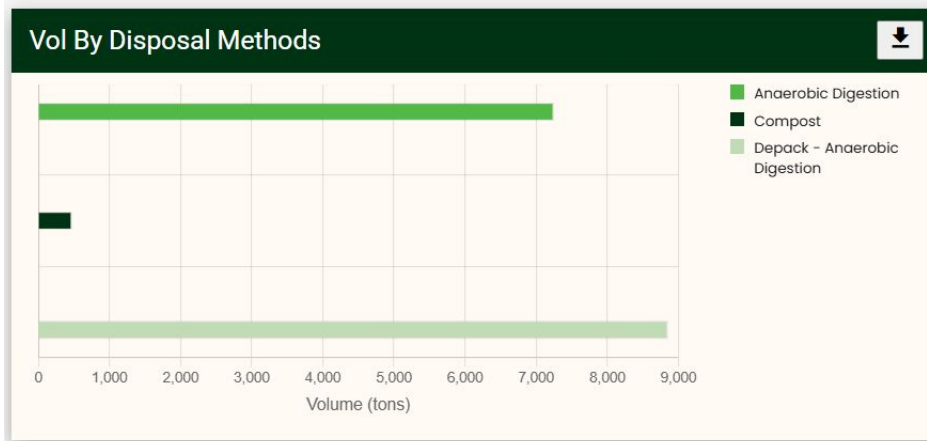
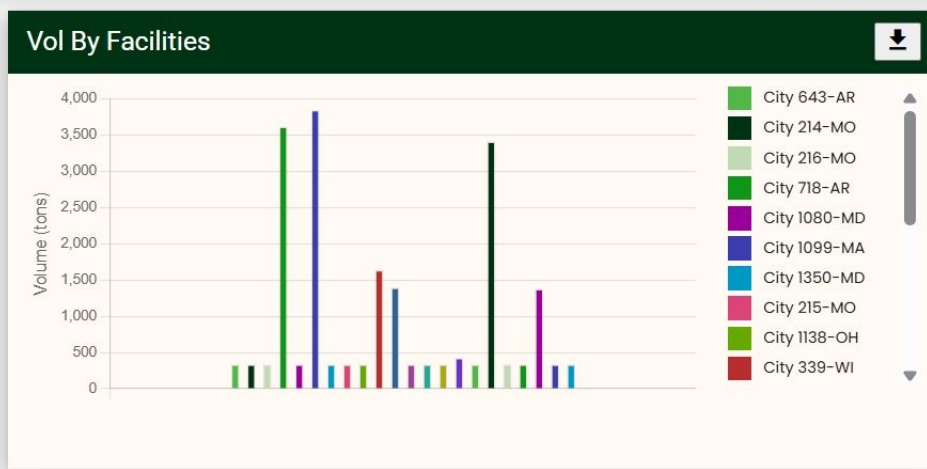
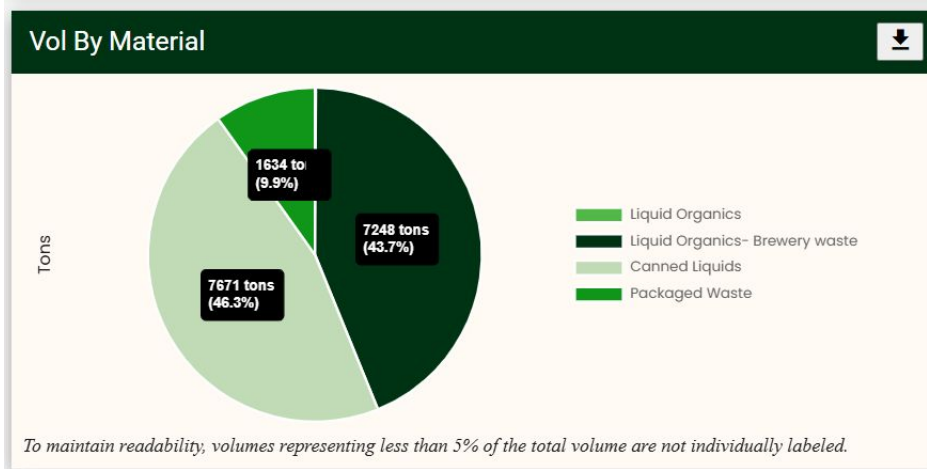
BEV.



- Servicing nearly a dozen locations with 20,000 tons of product sustainably disposed of since 2023
- Provide critical CODs for each load
- Provide routine and emergency response service

EXAMPLES IN ACTION

Vanguard Renewables' Client Portal



EXAMPLES IN ACTION

Vanguard Renewables' Client Portal

VANGUARD RENEWABLES

CERTIFICATE OF DESTRUCTION

RECEIVED FROM:

DATE RECEIVED: July 1, 2025
 TRUCK/TRAILER#: VR00035
 VANGUARD WORK ORDER #: VR990525-27
 CUSTOMER REFERENCE #:


NOTES: Clean out event in warehouse with regular recurring loads from production facilities

MATERIAL DESCRIPTION:		
Material	Quantity	UOM
Palletized Yogurt, Lot 27838	49.87	Ton
Palletized Meatballs, Lot 33999	7.3	Ton
Mixed SSO	1.2	Ton
Bulk DAF Sludge	12.6	Tons

Vanguard warrants that all organic materials were presented and have been destroyed for the purpose of the recycling of organic waste.

Name: Paul Akrouche
 Logistics General Manager


Date: _____



VANGUARD RENEWABLES
 CERTIFICATE OF DESTRUCTION
 Vanguard Renewables Services, LLC
 CONFIDENTIAL

Page 1 of 1

VANGUARD RENEWABLES



SUSTAINABILITY CERTIFICATE

Presented to
Beverage Manf Demo

for diverting **7,661 tons** of materials from landfill via Vanguard Renewables' materials recycling program.

7,661 tons of waste diverted from landfill:

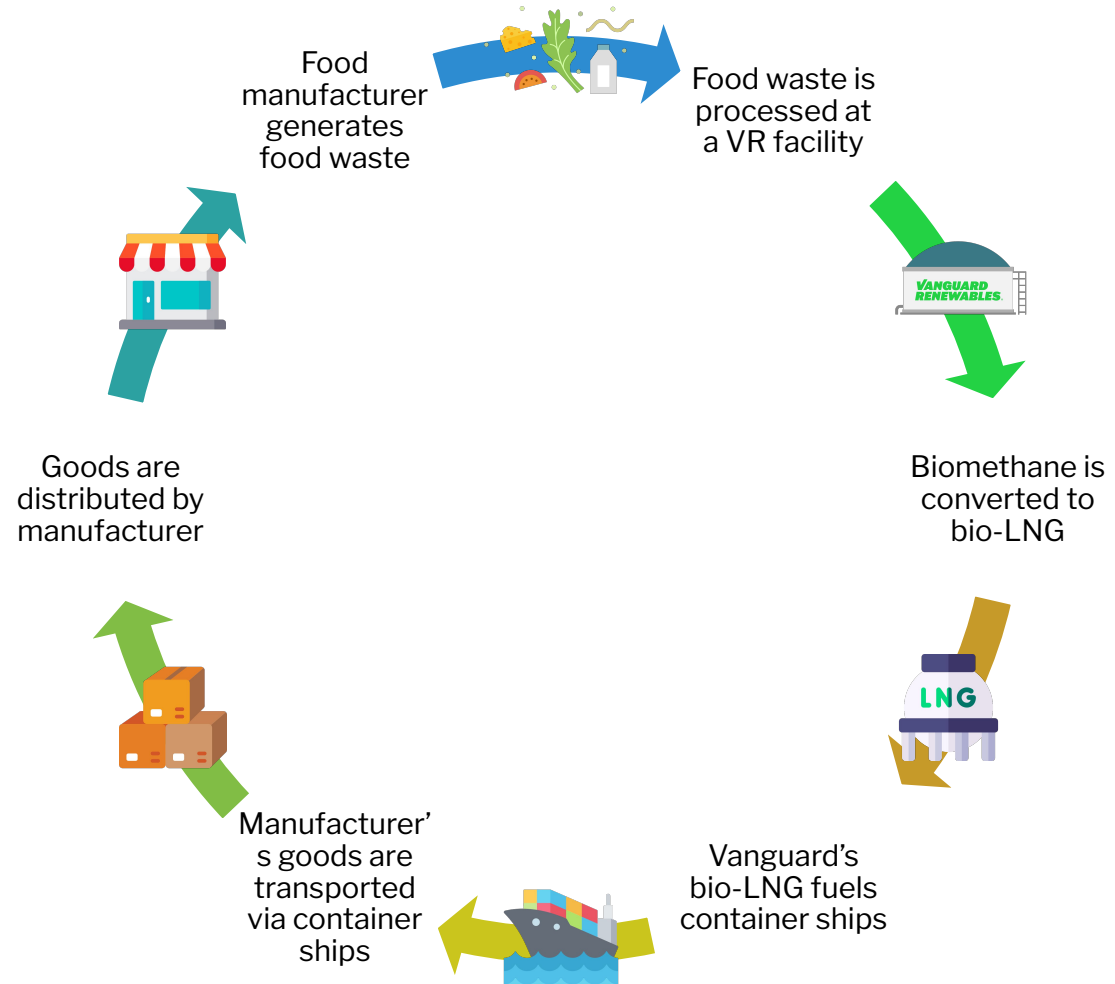
- 4,729 tons** of Co2e emissions mitigated
- 9,932 barrels** of oil offset
- 24,452 MMBTUs** of renewable natural gas generated
- 10,936,659 million** equivalent vehicular miles fueled
- 2,383 tons** equivalent tons of coal use avoided

Generated on (oct 21, 2025) for the period of Apr 21, 2025 to Oct 21, 2025

A TRULY CIRCULAR SYSTEM

Choose partners who understand your operational realities.

Harness the power of your waste to drive circularity, sustainability, resilience, and performance.



QUESTIONS?

molaughlin@vanguardrenewables.com

