



Food full circle.



OUR BRAND PROMISE: quality fresh foods | great service | dependable value | part of the community



About Hannaford Supermarkets



184 Stores in ME, NH, VT, MA & NY

Full-service supermarket, based in Scarborough Maine, employing nearly 30,000 associates, focused on best in class fresh, convenient shopping experiences and every day low prices.



www.hannaford.com/about-us/sustainability



Your presenter?



Melissa Roberge

Director of Retail Operations

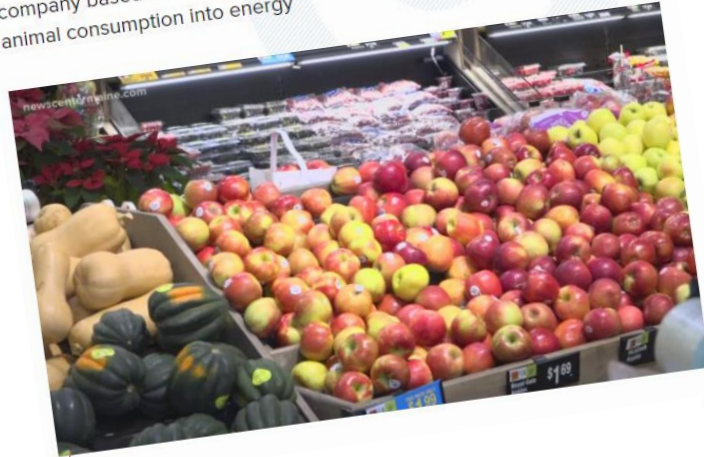
Melissa Roberge is Director of Operations for Hannaford Supermarkets. With a passion for feeding people and nourishing communities, Melissa serves as the Eastern Division lead for Fresh Rescue—helping to rescue and donate over 25 million pounds of fresh and nutritious food to area food pantries.



Our Recent Accomplishment

Hannaford says no food waste from any of its stores will be sent to landfills anymore

Hannaford said it partnered with Agri-Cycle, a food waste recycling company based in Scarborough, to turn food unsuitable for human & animal consumption into energy



Hannaford says no food waste from stores will go to landfills

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Updated: 12:21 PM EDT Apr 21, 2021

Infinite Scroll Enabled 



HANNAFORD IS FIRST NEW ENGLAND AND NEW YORK GROCER TO SEND NO FOOD TO LANDFILLS

TOTAL NEWS







Food Waste context

- **Why is reducing food waste important?**

- A societal issue

- According to the FAO, 1/3 of food produced is wasted
- This is enough to feed 3 billion people
- People in need in our communities

- Environmental impact

- If food waste was a country, it would be the 3rd biggest emitter of greenhouse gases, just after the USA and China.

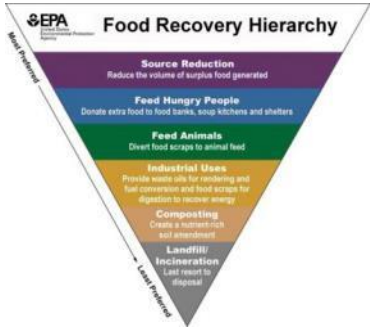
- Economic impact

- According to USDA studies its hundreds of billions food lost in 2010. That doesn't include costs related to the impacts of the food waste.





Strong Partnerships



Food full circle.



Our Store Associates



None of this work is possible without the hard work and dedication of our store associates

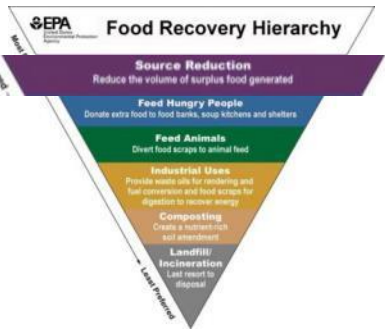
Everyone has an important role to play

- Home Office provides progress tracking
- Store Leaders communicate and coach on best practices
- Staff level associates making the right decisions everyday
- Store Maintenance associates acting as the gatekeepers





Source Reduction





Feed Hungry People



FEEDING AMERICA

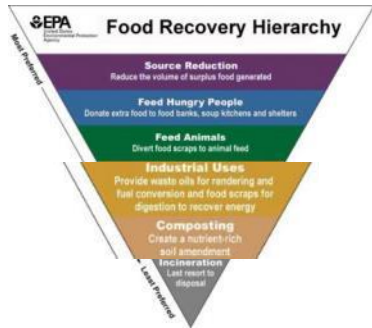


Feed Animals





Industrial Uses – bio-digestion





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intro info

www.agricycleenergy.com

- Food Waste Career
- Commercial Composting
- Role at Agri-Cycle



THE ISSUE

- The amount of food wasted in a year on Earth would feed all 925 million starving people on the planet... **three times over.**

-<http://www.fao.org/>

- **1/3** of all food produced on Earth goes to waste.
- The GHG emissions from food waste accounts for almost **10% of all GHG emissions.**





Food Recovery Hierarchy

Most Preferred

Source Reduction

Reduce the volume of surplus food generated

Feed Hungry People

Donate extra food to food banks, soup kitchens and shelters

Feed Animals

Divert food scraps to animal food

Industrial Uses

Provide waste oils for rendering and fuel conversion and food scraps for digestion to recover energy.

Composting

Create a nutrient-rich soil amendment

Landfill/ Incineration

Last resort to disposal

Least Preferred

COMPOSTING

PROCESS

AEROBIC- "WITH OXYGEN"

Open air decomposition where microorganisms break down organic material



EMISSIONS

HIGH. Composting allows methane to escape into the atmosphere when piles are turned. Leachate also escapes into waterways.



ENERGY

None.



ENVIRONMENTAL IMPACT

GOOD. Keeps waste out of landfills, and can prevent erosion by supporting soil health.



TIMELINE

90-120 Days. Hard to scale. Slow process. 3:1 C:N Ratio



ANAEROBIC DIGESTION

PROCESS

ANAEROBIC-

"WITHOUT OXYGEN" Enclosed structure where microorganisms break down organic material



EMISSIONS

LOW. Methane is collected and used to make energy. No leachate. By-product is used as organic fertilizer.



ENERGY

HIGH. Depending on the size of the AD. (*We power 1000+ homes annually.*)



ENVIRONMENTAL IMPACT

VERY GOOD Keeps waste out of landfills, produces renewable energy, and organic fertilizer.



TIMELINE

20-30 Days. High scale-ability



2011

Modest beginning



In 2011 the anaerobic digesters were installed on the farm to help with manure management



THE FARM



2000 dairy cows.



Two 400 Gallon digestors.



2500 acres of croplands

2013



Immediate growth

Agri-Cycle was established in 2013 to support sister company, Exeter Agri-Energy (EAE), itself an offshoot of Stonyvale Farm, a 5th generation dairy farm in Exeter, Maine.

What began as a way to preserve the viability of a family farm, has blossomed into a regional sustainability success story!

2014

Expanding routes

We rapidly found that the need for food waste diversion was a regional issue.

We quickly grew into NH, MA, VT, RI, and NY!

Another DIGESTOR!

To keep up with our growth, and the needs of the region, we installed the 3rd largest digester in the United States, with a whopping 2.2 million gallon capacity

**3 MILLION GALLONS
TOTAL**

2017

HELLO DEPACKAGER

Installing Maine's first depackager meant we could help large grocers and manufacturers begin diverting.

2018

Farm expansion



3500 acres of croplands

Legislative changes

States throughout New England began introducing and changing bills to keep food waste out of landfills.

today

THE FARM





THE DIGESTERS



■ Est. in 2013

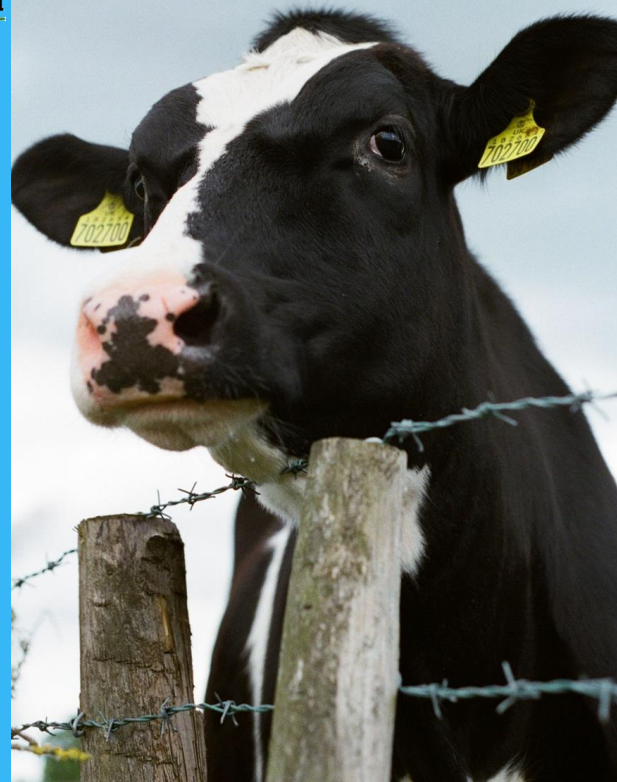
■ Organic waste collection company

■ Home AD and network logistics

300 tons of food waste daily

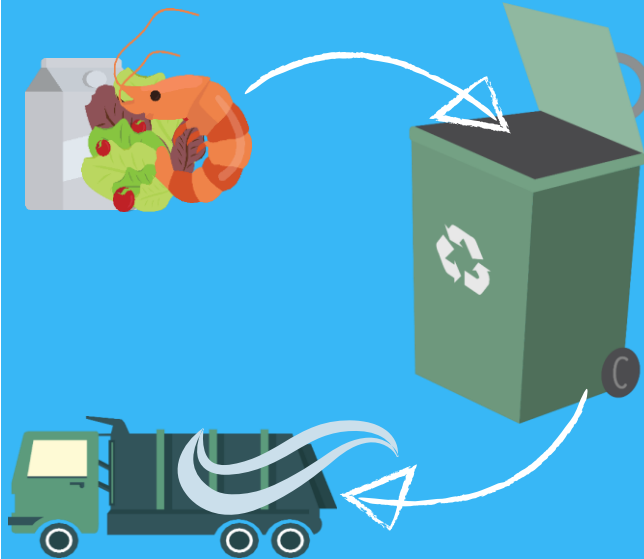


- Primary outlet for ACE
 - Secondary partner outlets all across New England
- Wide range of acceptable materials
- 2000+ cows
- 2500 homes powered annually
- Depackaging capability

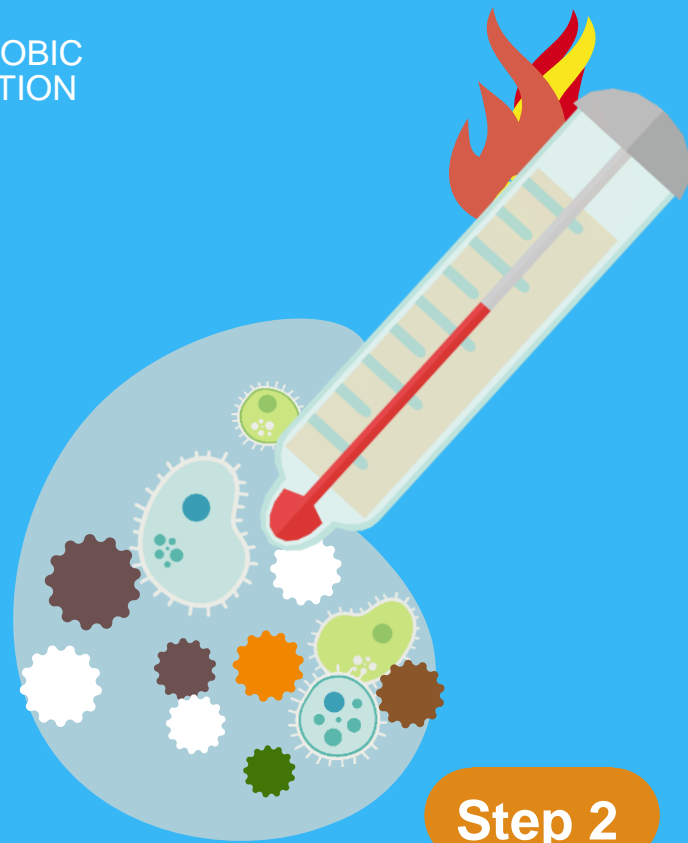


Step 1

Put food waste into the specified Agri-Cycle toters/gaylords for collection.



ANAEROBIC DIGESTION



Step 2

Collected packaged food waste is “depacked” and turned into a slurry. The slurry is heated to ~104° F. This allows the microorganisms to begin creating biogas.

Step 3

The biogas is used to generate renewable energy for the grid.



ANAEROBIC DIGESTION



Step 4

If the food waste is brought to a farm-based AD then organic fertilizer is created as a by-product. If food waste goes to a waste water AD then pellets are created and used for land application

YES

ANAEROBIC
DIGESTION

NO

ALL FOOD WASTE

- Meat & Bones
- Milk, Cheese, Dairy
- Fruit & Vegetables
- Condiments & Dressings
- Coffee Grounds/Filters
- Seafood & Shells
- Fats, Oils, Spices
- Soups
- Uncoated Paper Products
- Packaged Food Waste

*-Packaging should be recycled on site when
able.*

ABSOLUTELY NO

- Yard Waste
- GLASS
- Diapers
- Chemicals
- Cat Litter
- Personal Hygiene Products
- Medication
- Latex Gloves
- Metals, plastics, or cardboard that do not contain food products.

AGRI-CYCLE'S ROLE IN HANNAFORDS ACCOMPLISHMENT

CAPITAL REGION

Hannaford succeeds in diverting all food waste from landfill

By John Cropley | April 20, 2021



PHOTOGRAPHER: JOHN CROPLEY

Jessica Cucchi, manager of the Hannaford supermarket in North Troy, right, describes the process by which non-sellable food is taken off the shelves; An Agri-Cycle driver loads waste food from the Albany Hannaford Supermarket for transport

Share Facebook Tweet Email

ALBANY — The 183 supermarkets in the Hannaford chain generated 65 million pounds of food waste in 2020, and sent none of it to the landfill.

NOW OPEN

Dave's GOURMET BURGER and more

- New Location!
- New Menu!
- Some Great Chef!
- Some Organic Ingredients

16 Edison Ave., Schenectady
518-250-2900

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Mediterranean fusion restaurant announced for prominent downtown Schenectady location under renovation

Hannaford succeeds in diverting all food waste from landfill

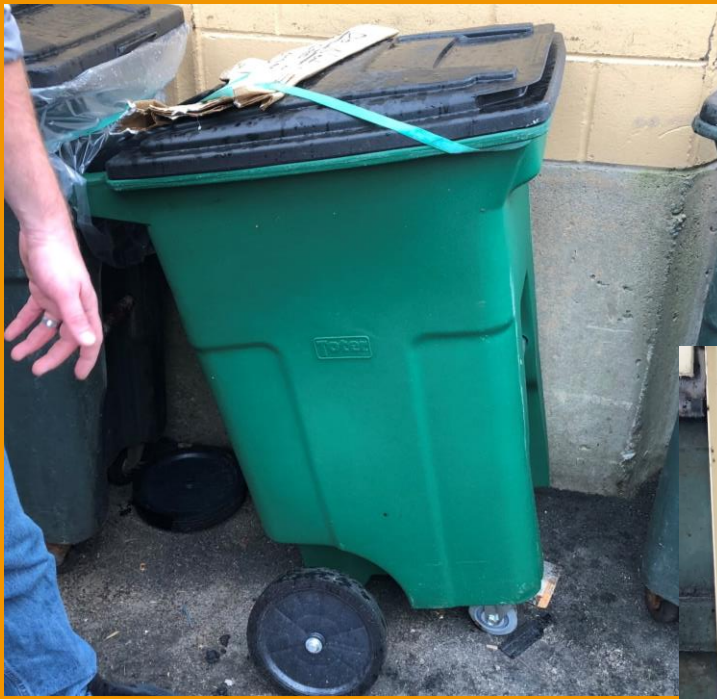
Capital District transportation official sees more road investment, electric cars in future

Cannabis business interest

EDUCATION



SIGNAGE



SUPPORT



**IMPROVING
PRACTICES**

CAN YOU SPOT THE DIFFERENCE?

DIGESTED



DONATED



TRICK QUESTION (SORRY)

FOOD BANK/FARM CAN'T PICK UP

FARM HAS WHAT THEY NEED

CHANGE IN MANAGEMENT @ FARM/BANK

BROKEN DOWN TRUCKS

NOT ENOUGH SPACE DURING PICK UP

HOLIDAY/LACK OF PERSON POWER

FUN SUSTAINABILITY CONTENT



www.agricycleenergy.com



[@agricycleenergy](https://www.instagram.com/agricycleenergy)



[@agricycle](https://www.tiktok.com/@agricycle)



www.hannaford.com/about-us/sustainability



Food full circle.



Questions & Comments.

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