

VANGUARD RENEWABLES

BARSTOW'S LONGVIEW FARM

Hadley, MA



FARM FACTS

- 450-acre dairy farm with 550 cows
- Founded in early 1800s
- Produces 15,000 lbs. of milk daily
- Opened Barstow's Dairy Store and Bakery in 2008
- Located in the Hockanum National Historic District, Route 47, Hadley, Mass.

DIGESTER FACTS

- Built in 2013; Expanded in 2016
- 660,000-gallon capacity

FARM BENEFITS

- Income diversification
- Low-carbon fertilizer reducing the need for chemical fertilizers
- Reduced energy cost
- Free heat
- Odor reduction
- Increased corn and hay crop yields
- Enhanced nutrient management plan

Barstow's Longview Farm in Hadley, Massachusetts is a seventh-generation family farm, founded in the early 1800s. The farm is a member of the Cabot Creamery/Agri-Mark Cooperative. To sustain the farm for future generations, the Barstow family pursued an opportunity to house one of the first anaerobic digesters in New England.

The Vanguard Renewables Farm Powered anaerobic digester partnership with Barstow's Longview Farm began in 2013. With the expansion of the anaerobic digester project in 2016, it is one of the largest and most modern anaerobic digestion systems in New England.

The anaerobic digester has been a huge game changer. It's brought in an additional income stream and is a valuable manure management tool. We've seen increased crop yields and better soil health.

— Denise Barstow Manz, Barstow's Longview Farm

The farm receives nearly 24,000 tons of food waste annually from food and beverage processors, supermarkets, institutions, businesses, and food service operations such as Cabot Creamery/Agri-Mark Cooperative, Geissler's Supermarkets, HP Hood, and Garelick. The food waste is combined with more than 9,000 tons of manure a year from the farm in a 600,000-gallon digestion tank. Manure and food waste are mixed and microorganisms convert sugars, fats, and other compounds into biogas annually producing more than 5,100 MWh of renewable energy and 30,000 tons of low-carbon fertilizer. The facility offsets nearly 3,000 tons of CO₂ emissions annually. This is equivalent to taking 650 cars off the road for one year.

PROJECT PARTNERS



ANNUAL DIGESTER INPUTS

24,000 tons of food waste

9,125 tons of manure

ANNUAL DIGESTER OUTPUT

Powers two engines producing 800tkW

Produces more than 5,100 MWh of renewable energy/year

Produces 30,000 tons of low-carbon fertilizer

Offsets nearly 3,000 tons of CO2 emissions annually*

*The equivalent of the CO2 emissions from taking 650 cars off the road for one year

**Provides energy
to the Eversource
grid and Cabot
Creamery/
Agri-Mark
Cooperative**

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