

# VANGUARD RENEWABLES

## GOODRICH FAMILY FARM Salisbury, VT



### FARM FACTS

- Generational Vermont dairy farm
- Located in Salisbury, Vermont
- Owned and operated by the Goodrich family
- 900 milking cows on site
- 1,750 acres of hay
- 650 acres of corn

### DIGESTER FACTS

- Two 925,430-gallon anaerobic digesters
- Phosphorus management system
- Hydrolyzer

### FARM BENEFITS

- Income diversification via annual lease payment for land use
- Liquid, low-carbon fertilizer to increase crop yields and reduce chemical fertilizer use
- Separated solids for animal bedding
- Phosphorus reduction to protect sensitive watershed area
- Reduced GHG emissions

Middlebury College will continue to reduce its carbon footprint thanks to an innovative partnership with Goodrich Family Farm in Salisbury, Vermont, Vanguard Renewables of Weston, Massachusetts, and VGS. Vanguard Renewables owns and operates the Farm Powered Anaerobic Digestion facility at Goodrich Family Farm where cow manure and food and beverage waste are combined to produce Renewable Natural Gas (RNG). The Goodrich Family Farm is a generational dairy farm with 900 milking cows and is a member of the Agri-Mark Cabot Creamery Cooperative.

***We are constantly looking for ways to make our energy sources sustainable and diverse. The digester project is a great opportunity to further decrease our use of carbon-based fuels.***

— David Provost, Executive Vice President, Finance and Administration, Middlebury College

Much of the renewable natural gas produced by the Goodrich Farm digester travels by pipeline to Middlebury College's main power plant. Middlebury has agreed to purchase the bulk of the facility's output as part of Middlebury's Energy2028, a 10-year commitment to shift completely to renewable energy to power its central campus.

The Farm Powered project at Goodrich Farm does more than produce renewable natural gas. The project features an extensive phosphorus removal system to protect the Otter Creek Watershed which feeds into Lake Champlain. Additionally, the facility will generate high quality, low carbon liquid fertilizer that will reduce the farm's reliance on synthetic, chemical fertilizers. The farm will also benefit with reduced greenhouse gas emissions, animal bedding, and an annual lease payment for hosting the anaerobic digester facility.

# PROJECT PARTNERS



**VANGUARD  
RENEWABLES**



Middlebury



## ANNUAL DIGESTER INPUTS

65,700 tons of food waste

36,500 tons of manure

## ANNUAL DIGESTER OUTPUT

Produces 140,000 Mcf of RNG per year

Equivalent to fueling a bus for 7.4 million miles

 **2021  
OUTSTANDING  
DAIRY FARM**

GOODRICH FARM - SALISBURY, VT

 **THE  
SUSTAINABILITY  
AWARDS**

**Goodrich Family Farm: Shard Villa Rd, Salisbury, VT 05769**



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