FARM POWERED® RENEWABLE NATURAL GAS
SUPPORTING DECARBONIZATION GOALS
&
SUSTAINING FAMILY FARMS
Recycling organic waste into natural gas creates renewable energy, but that is where the similarity with wind and solar ends.

Turning organic waste into Renewable Energy is a 24/7, highly technical, and vertically integrated process.

To be successful, you must have an experienced, fully integrated and capitalized company that partners with the farm hosts.
40% of America’s waste is comprised of organic materials.
How Vanguard Renewables’ Business Works

**Transportation Markets**
Motivated by strict regulations that mandate carbon intensity of fuel and reductions in total GHG output of vehicles.

**Utility Markets**
Motivated by intense public pressure and regulations that mandate percentage displacement of fossil gas.

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**Organics Business**
- RNG from food waste
  - Food waste partners (restaurants, groceries, food manufacturing, etc.)
  - Haulers
  - Depackaging (codigestion only)
  - Anaerobic Digestion
  - Digestate Disposal
  - Pipeline Interconnection
  - Transportation buyers

**Ag Business**
- RNG from manure
  - On-farm bovine herds
  - Manure
  - Anaerobic Digestion
  - Digestate RNG

**Pipeline Interconnection & Transportation**
- RNG
- Transportation Markets
  - RNG from food waste
  - RNG from manure
  - Transportation buyers

**FARM POWERED SUSTAINABILITY**
Vanguard Renewables – Anaerobic Digester Developers, Owners, Operators

- Institutionally funded by mission-driven investors seeking to impact climate change by:
  - Capturing latent methane in animal manure/reducing GHG emissions
  - Removing food waste from landfills
  - Producing renewable natural gas (RNG) or renewable electricity

- Vertically integrated anaerobic digestion company that builds, owns and operates all its projects

- 5 operating co-digestion facilities/9 permitting or under construction in NY/VT/CO/GA

- Largest organics recycler in the Northeast with capacity to process 500 tons per day of food waste and 120 tons per day of manure

- Works on recycling food waste with leading food manufacturers, retailers and institutions like: Unilever, Coca Cola, Gorton’s Seafood, Polar Beverages, and Whole Foods Markets

- Pipeline of D3 and D5 projects across the US

- Multi-year strategic alliance with Dairy Farmers of America
Vanguard Renewables – Anaerobic Digester Developers, Owners, Operators

- Anaerobic digesters are highly technical pieces of equipment, requiring chemical, biological and mechanical expertise to optimize.

- Food waste recycling is a vertically integrated and multifaceted business that requires logistical, chemical and process oriented infrastructure and staffing.

- Gas marketing is a highly specialized marketplace, requiring a team of industry professionals.

- For these and many other reasons, a partnership between farmers and a fully integrated and funded company is necessary for the long-term success of the projects.