



COMPANY INFORMATION

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Company:	Trillium		
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BUSINESS CONTACT

TECHNICAL CONTACT

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Zip Code:	77019	Zip Code:	77019

BUSINESS HISTORY

How long have you been in business? In 2016, Trillium officially joined the Love’s Family of Companies, but has been in business since 1994.

Are you part of a larger company? Yes No

Did you exist as another company before this company was formed? Yes No *If so, what was that company's name?*

Trillium CNG

Number of employees? 150

What is your business structure? Member of the Love’s Travel Stops & Country Stores

Describe your business service(s). *For example: consulting, project development, EPC services, finance, other.*

Trillium is a leading developer of Renewable Natural Gas (RNG) fueling station designs and provides installation and operations for innovative energy solutions, including biogas sourced from dairy manure digester systems. Our fuels include Compressed Natural Gas (CNG), Renewable Natural Gas, Hydrogen, and Electric Vehicle (EV) Charging infrastructure as well as energy solutions from Solar installations to On-Site Generation.

Describe your area or region of operation.

United States

Does your company hold any patents or the rights to any patents? Yes No *If yes, please describe.*

Trillium holds multiple patents on a unique compressor type that is highly efficient and effective in providing fast fueling rates of compressed gases with minimal energy usage and capital costs.

Do you manufacture equipment? Yes No *If yes, please describe.*

Trillium manufactures the compressors mentioned in the patent section.

Do you integrate equipment manufactured by others? Yes No

If you integrate, please list the names of the preferred companies you represent.

Trillium will integrate dairy digester systems into the RNG supply chain using a variety of digester and biogas upgrading technologies, designed for specific farm applications.

How do you answer potential customer's questions about financial strength of your company?

Trillium, is a member of the Love's Family of Companies, which is one of America's Largest Privately held companies (Forbes #17, 2019).

Do you offer technical/service support? Yes No *If so, what methods?*

Trillium has a staff of industry-expert mechanics and technicians that provide technical/service support as well as providing support through our technology partners for each of our projects

Do you offer design services? Yes No *If yes, please describe.*

Trillium has a staff of industry-expert designers and engineers that provide design services as well as providing these services in association with technology partners for each of our projects

Do you offer financing? Yes No *If so, what terms?*

We have the financial ability to directly invest resources and capital to develop a digester RNG project or convert an existing digester to produce RNG.

Are you a full stop shop? *Design to construction to operating the project.* Yes No *If so, please describe.*

Trillium has all the staff directly employed to provide a full stop shop and will partner with other industry expertise working with the dairy community and other sectors to develop biogas projects and source RNG across the country

Do you have preferred partners? Yes No *If so, please list and provide contact information/identify partners by name.*

Environmental Benefits - Does your project provide environmental benefits to the farm? Yes No *If so, please describe. For example: GHG emissions reduction, controlling farm odors and phosphorus and nitrogen loads.*

RNG projects produce energy and improve on-farm nutrient management practices and water quality while reducing dairy GHG emissions.

Do you have experience monetizing environmental attributes from your projects? Yes No *If so, please describe. For example: carbon offset credits, renewable energy certificates (RECs), renewable identification numbers (RINs) and Low Carbon Fuel Standard (LCFS) credits.*

Trillium and the project team monetizes environmental attributes for each project, including carbon credits, renewable energy certificates (RECs), renewable identification numbers (RINs) and Low Carbon Fuel Standard (LCFS) credits.

Economic Benefits - Does your business model provide economic benefits to the farm? Yes No *If so, please describe. For example: added revenue and cost reductions from the digester operation and manure management costs to help financially sustain the farm.*

Our business model provides manure management cost reductions to farms and purchase agreements to supply manure from their herds to the project which will be used as feedstock for the anaerobic digester

Do you underwrite and secure feedstock supply agreements? Yes No *If so, please describe. For example: contractual agreements to for the supply of manure, food waste and other organic substrates.*

The RNG development team will contract with dairy partners to supply manure which will be used as feedstock for the anaerobic digester and RNG.

Do you secure offtake agreements? Yes No *If so, please describe. For example: agreements for purchase power, biogas, RNG, waste heat.*

Trillium will source the RNG and offtake agreements are secured with credit-worthy buyers in advance of project development. Additionally, Trillium and parent Love's Travel Stops is a direct user of the offtake allowing us to reduce risk to projects in the form of offtake with 3rd-parties.

Do you evaluate potential markets for post-digester materials? Yes No *If so, please describe the materials and markets. guaranteeing? For example: manure fiber for soil amendment, manure fiber for products, recovered phosphors and nitrogen as fertilizer.*

This is not our area of expertise, but we are not opposed to working with experts to maximize the value for the project.

Do you have experience with USDA's financing options for farmers? Yes No *If so, please describe. For example: NRC's EQIP program loans and grants.*

Do you have experience with large and small farm projects or community projects? Yes No *If so, please describe.*

Trillium has worked on multiple projects of all sizes, and has the ability to create value for dairies, both large and small.

Do you have a standardized deal structure? Yes No *If so, please describe.*

We offer a flexible approach to each project, as every deal is unique with respect to the development team, offtake, term, investment, etc.

Do you provide a performance guarantee? Yes No *If so, what are you guaranteeing? For example: up time, methane production, biogas production, parasitic load, throughput, O&M cost, percent recovery, other.*

Performance guarantees are evaluated and can be offered on a project basis.

Newtrient 9-Point Score Information

Is this technology currently operational on at least three North American dairy farms? Yes No

Does this technology have a record of reliable performance for more than 12 months on at least three farms? Yes No

Is this technology installed on at least 10 North American dairy farms? Yes No

What are the installed capital costs of this technology? *Please clearly define what is and is not included, Ranges are acceptable.*

Digester systems can be employed over a wide range of sizes, applications, fuels and technologies. Capital costs for typical dairy digester system can range from \$1,000/kW to \$2,500kW depending on a range of variables from system size to gas cleaning measures required.

What are the annual operating costs of this technology? *Please clearly define what is and is not included, Ranges are acceptable.*

Digester systems and RNG production facilities are sized and use technology specifically based on the number of milking cows, geography/weather, and local pipeline requirements. Operating costs can vary from \$10 to \$30/MMBTU of RNG produced.

What value does this technology or the products it makes, deliver to the farm? *Please list identifiable economic, environmental, or community value (e.g. reduced cost, increased income, reduced odor, improved nutrient use, etc.).*

Manure waste digester projects produce energy/fuels and provide economic benefits to the farm by reducing on-going manure management costs while improving nutrient management practices and water quality.

Do you feel an in-depth Technology Information Request is needed to help people understand this technology? Yes No *Newtrient has an extensive technical information request document that can be provided, it is based on the information requested for applications to the USDA NRCS EQIP program.*