



COMPANY INFORMATION

Date: 09/27/2017

Company:	Martin Construction Resource – Anaerobic Digesters		
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Address:	155 Filbert St. Suite 245	City:	CA
State:	Oakland	Zip Code:	94607

BUSINESS CONTACT

TECHNICAL CONTACT

Name:	Eric Fast	Name:	Please contact our office
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Address:	155 Filbert St Suite 245	Address:	155 Filbert St Suite 245
City:	Oakland	City:	Oakland
State:	California	State:	California
Zip Code:	94607	Zip Code:	94607

BUSINESS HISTORY

How long have you been in business? Incorporated in 2016

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?*

RCM Digesters LLC, RCM International LLC

Number of employees? 10

What is your business structure? Limited Liability Company

What types of insurance and or surety do you provide?

Liability

Describe your business service(s). *For example: consulting, development, engineering, equipment sales, finance, other.*

MCR is a single source for anaerobic digestion, power production design, build, finance and operate. The design/build approach is one that has been developed over time, based on years of working together on a variety of projects.

Describe your area or region of operation.

North America

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

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

MCR manufactures skidded biogas handling equipment, skidded heat recovery equipment, and enclosed flares.

Do you integrate equipment manufactured by others? Yes No

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

MCR designs and integrates proven anaerobic digestion technologies, including mechanical systems, bio-gas flares, digester pumps, electrical components, piping for generator hookup, hot water systems, gas piping, electrical wiring for utility buildings, and water separator systems. The parent company, Martin Energy Group (MEG), provides bio-gas generator sets and digester controls.

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

Customer references

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

MCR's project services also include technical services and support for startup, digester operations, troubleshooting, training, and warranty support.

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

Customized design for anaerobic digester systems on large and small dairies and pig farms in all regions of the country

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

Construction financing can be offered on a case by case basis.

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

MCR offers design, construction, O&M, and financing for turn-key digester systems

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

Martin Energy Group packaged engine/generators

Do you have any third-party verification/research that has been done on this technology? Yes No

If so, please describe.

Third-party verification results are available.

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. Please describe.

Guarantees on engine/generator sets

Are there any other aspects of your business that you feel should be included in this document?

MCR (Martin Construction Resource, LLC) is a wholly owned subsidiary of MEGS (Martin Energy Group Services, LLC) and MEGS owns an exclusive right to use all of RCM's intellectual property and has enabled MCR to benefit from this information; making MCR a highly efficient, full turn key provider of AD systems and other power generation systems. Please refer to the **Martin Construction Resource** page in the catalog for more information on digester systems.

INITIAL TECHNOLOGY OVERVIEW

This information is to guide in the development of a more specific and detailed Technology Information Request. Please answer the following questions for each Technology or Service Provided.

What is the name of the technology or service you provide?

MCR is a single source for anaerobic digestion systems, power production design, build, finance and operate.

What unit process is the technology used in?

For example: initial collection/transfer manure storage, energy recovery, primary/coarse solids recovery, advanced suspended/fine solids recovery, drying, struvite production, nitrification denitrification, ammonia stripping, algae, vermi composting, membrane filtration, evaporation, other.

MCR designs and manage all aspects biomass-powered energy project. We specialize in working with dairy farmers to develop systems that process organic waste streams (livestock manure and food waste) to produce renewable energy, process heat, bedding, and recover nutrients from the digester effluent as organic fertilizers.

How many systems have you installed on dairy farms or other livestock operations?

MCR has over 90 digester systems operating on large and small U.S. farms. MCR's parent company Martin Energy Group has packaged and installed over four hundred gaseous-fueled engines in the United States on anaerobic digester systems located on farms, food processing plants, wastewater treatment plants and landfills.

Size of farm(s)?

Dairy farms range from 150 to 10,000 cows and Pig Farms ranging from 1600 finishers (equivalent) up to 200,000+ finishers

Location of farm(s)?

United States, Australia, Mexico, Ecuador, Chile

What's the smallest and largest farm using your system?

Packaged biogas engine-generators are installed on anaerobic digesters at dairies with a range of 150 to 10,000 cows

Input material description and characteristics: *For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.*

The input to digester systems is the full manure stream for a dairy including flush water from the milking parlor and can be mixed with food waste and other organics.

Does the technology treat the full manure stream for a farm or a fraction of the stream?

The digester can be designed to treat the full manure stream for a dairy including flush water from the milking parlor.

Do you consider this a mature system or ongoing farm development?

Anaerobic digester systems and packaged engine-generator are mature technologies.

Any weather constraints? Yes No *If so, please describe.*

Any bedding constraints? Yes No *If so, please describe.*

Sand separation is required.

Is this process scalable and to what extent (top and bottom limits)? Yes No *If so, please describe.*

The digester system can be sized for the herd size with no upper limit because the system is modular.

Do you have a known scaling factor? Yes No *If so, please describe.*

Sizing and scaling factors are not a matter of technology but of economics.

Input and output of your unit/system – do you have a mass balance analysis? Yes No *If so, please describe.*

A mass balance available upon request.

Do you consider this technology part of a larger system that you provide? Yes No *If so, please describe.*

MCR provides turnkey general contracting services to carry out all construction and subcontracting for digester projects with 30 years of experience in project management, including engineering, design, and construction.

Has your technology been accepted by the NRCS? Yes No Over half of MCR digesters have been successfully funded through USDA-NRCS EQIP.

Would you be willing to provide information for a technical review? Yes No

Would you be willing to respond to a Request for Quotation (RFQ) on a generic project for comparison of your technology against other technologies in the same unit process? Yes No

REFERENCES

Please provide customers or colleagues with whom we can discuss your business and performance. Please include a list with company name, location, contact name and contact information below.

Reference 1

Company Name:	Pennwood Dairy – Packaged Biogas Engine Case Study
Company Location:	
Contact Name:	
Contact Information:	

Reference 2

Company Name:	Reference provided upon request
Company Location:	
Contact Name:	
Contact Information:	

Reference 3

Company Name:	
Company Location:	
Contact Name:	
Contact Information:	

Reference 4

Company Name:	
Company Location:	
Contact Name:	
Contact Information:	

Are there any other facts about this technology that you feel should be included in this document? *If so, please describe below.*

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