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COMPANY INFORMATION

Company Name: Bion Environmental Technologies

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State: New York

Zip Code: 11804

BUSINESS CONTACT

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TECHNICAL CONTACT

Name: Dominic Bassani

Phone: 631-499-4930

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Address: PO Box 323

City: Old Bethpage

State: New York

Zip Code: 11804

BUSINESS HISTORY

How long have you been in business? 21 years

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?

Number of employees? 6

What is your business structure? C corp

What types of insurance and or surety do you provide?

Use General Contractors and they have the usual insurance

References. Please provide customers or colleagues with whom we can discuss your business and performance.

Please include a separate list with company name, location, contact name and contact information.

Not available at this time due to potential conflict of interest.

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

Project development. Not focused on dairy or any other specifics. Bion provides a "utility service". Bion takes ownership of waste and remediates it using the best technology for the feedstock and sells byproducts in different markets. Bion arranges financing and owns the project.

Area or region of operation.

East and West coast

Does your company hold any patents or the rights to any patents? *Please identify.*

Yes, patents, patents pending and trademarks.

Do you manufacture equipment? Yes No *Please describe.*

We team with vendors

Do you integrate equipment manufactured by others? Yes No

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

Depends on scale of project, nature of waste product, what the markets are.

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

Each project is financed differently. Parent company only provides licenses.

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

No. Bion's contractors service and operate their own project. Dairy delivers manure feedstock as agreed upon in a manure supply agreement that has a up to 30 year term. Penalties for not delivering feedstock.

Do you offer design services? Yes No *Please describe.*

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

Bion arranges financing but only for projects they own.

Are you a full stop shop? *Design to construction to operate?* Yes No *Please describe.*

Yes. Design, build, own and operate.

Do you have preferred partners? Yes No

If so, please list and provide contact information/identify partners by name.

We have preferred vendors and suppliers, but partners can change depending upon financing needs or host farm partnerships

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

If so, please describe.

As a part of our project at the Kreider Dairy Farm, Bion obtained a third party verification from the Pennsylvania Department of Environmental Protection associated with our nutrient credit verification plan, which provided data on our treatment efficiency. Bion also had a third party technology review and approval associated with our construction loan through the Pennsylvania Infrastructure Investment Authority.

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.

Bion owns the systems, and provides performance guarantees to the livestock owner. Guarantees are a case by case basis, often including energy usage provided, % down time, and so on.

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

No

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?

Livestock waste treatment using anaerobic digestion and add on treatment modules

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.

from collection through to discharge.

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

Kreider Farms, Manheim PA

Size of farm(s)?

Location of farm(s)?

What's the smallest/largest farm for your system?

Input material description/characteristics:

For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.

Input material is limited to raw livestock manure. Our technology could be modified to accept digestate or other farm feedstocks, but our testing is not completed on those aspects.

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

Whatever portion is cost effectively captured in a pure form.

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

Bion's technology platform is mature, however there are technology upgrades and specific process unit modifications in the last three years that are emerging.

Any weather constraints? Yes No *Please describe.*

Same as regular AD systems , normally related to freezing challenges

Any bedding constraints? Yes No *Please describe.*

Biomass bedding only, no sand or other non biomass bedding will work.

Is this process scalable and to what extent (top and bottom limits)? Yes No *Please describe.*

Bion's technology has been designed for large scale livestock operations. There is no known upper scale, but there are lower scale issues relative to cost effectiveness.

Do you have a known scaling factor? Yes No *Please describe.*

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

Bion technology is particularly strong at tracking and accounting for nitrogen and phosphorus form and content throughout the life cycle of the process.

Do you consider this technology part of a larger system that you provide? Yes No *Please describe.*

Has your technology been accepted by the NRCS? Yes No *Please describe.*

Earlier versions of Bion's technology have been covered under NRCS Conservation Practice Standard 629.

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

Are there any other facts about this technology that you feel should be included in this document?