

TECHNOLOGY PROVIDER BUSINESS INFORMATION REQUEST

COMPANY I	NFORMATION			Date:		
Company Name: Daritech						
Phone:	360-354-6900		Web Site:	http://www.daritech.com/		
Address:	8540 Benson Rd		City:	Lynden		
State:	WA		Zip Code:	98264		
BUSINESS CONTACT			TECHNICAL CONTACT			
Name:	Steve Peerce		Name:	Ryan DeWaard		
Phone:	206-417-1472		Phone:	360-354-6900		
Email:	steve@daritech.com		Email:	ryan@daritech.com		
Address:	8540 Benson Rd		Address:	8540 Benson Rd		
City:	Lynden		City:	Lynden		
State:	WA		State:	WA		
Zip Code:	98264		Zip Code:	98264		
BUSINESS H	ISTORY					
How long have you been in business? 26 years						
Are you part of a larger company?						
Did you exist as another company before this company was formed? Yes No						
If so, what was that company's name?						
Number of employees? 60						
What is your business structure? Privately held						
What types of insurance and or surety do you provide?						
Surety: as needed Insurance: General Liability, Auto, Professional Liability, Foreign Liability, Ocean Marine, Pollution Liability						

-Lely -Misc. OEM

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. Ken Maarhuis Al Tank Ed Blok Marty Myers Columbia River Dairies Maarhuis Dairy **Revolution Energy Solutions** Blok Evergreen Dairy Boardman, OR Sumas, WA Washington, DC Lynden, WA 360-354-0510 541-481-9274 360-988-2400 202-667-2830 x14 **Describe your business service(s).** For example: consulting, development, engineering, equipment sales, finance, other. Equipment sales and services Project development Design services Area or region of operation. Global Does your company hold any patents or the rights to any patents? Please identify. 8,926,846 Systems and methods for extracting 7,987,778 Pre-separator for a screen separator particulate from raw slurry material 7,631,595 Force convection milk pasteurizer 8,889,016 Systems and methods for extracting sand 7,306,731 Manure separation for digester method and from raw slurry material apparatus 8,728,801 Composter mechanism 6,997,135 Valve for a milking apparatus 8,470,183 Systems and methods for extracting sand 6,637,375 Cow indexing & positioning method & appar. from raw slurry material 6,443,094 Method/apparatus for cleaning cow udder 8,201,495 Pre-separator for a screen separator 6,105,536 Wash system, and method for a rotary milking 8,142,667 Manure separation for digester method apparatus • Yes • No Please describe. Do you manufacture equipment? To some degree we incorporate equipment manufactured by others Do you integrate equipment manufactured by others? Yes No If you integrate, please list the names of the companies you represent. Primary: -CST Storage -EYS Metals -Vision Machine -Schneider Electric -IBA

How do you answer potential customer's question about financial strength of your company?
Does not ordinarily come up, point to history. Other arrangements can be made in certain circumstances if necessary
Do you offer technical/service support? • Yes • No If so, what methods?
We support our own systems as needed
Do you offer design services? Yes No Please describe.
Yes, as a means of providing our own equipment. We do not offer design services for fees
Do you offer financing?
Are you a full stop shop? Design to construction to operate? Yes No Please describe.
Design worldwide, construction in our service area. Owners typically responsible for operation
Do you have preferred partners? Yes No If so, please list and provide contact information/identify partners by name.
Only vendors whose equipment we incorporate

Do you have any third-party verification/research that has been done on this technology? Yes No If so, please describe.
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.
No. We rely on the customer reaching his own conclusions, and provide whatever information we can to assist. Typically, there are existing facilities which can be evaluated
Are there any other aspects of your business that you feel should be included in this document?
-Flush water thickening for digester -Sand bedding separation -Rotary drum bedding composter

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?
DT Digester
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.
Anaerobic digestion of liquid dairy manure. Other systems incorporated as dictated by dairy needs
How many systems have you installed on dairy farms or other livestock operations?
3
Size of farm(s)?
700-5,000 cows
Location of farm(s)?
Washington and Oregon
What's the smallest/largest farm for your system?
Currently smallest dairy is 700 cows. Scales well as size of dairy increases

Input material description/characteristics: For example: raw manure, digestate, screened digestate, suitable non-farm feedstocks, other.
Liquid manure from dairy. Can be collected with flush or scrape. Bedding with fiber can go in digester, sand separation would be included for sand bedded operations
Does the technology treat the full manure stream for a farm or a fraction of the stream?
Full stream, except in flush operations, where thickening can result in some undigested light decant
Do you consider this a mature system or ongoing farm development?
The system is mature in the sense that it is marketable with known costs and performance, while we continually work toward maximizing efficiencies
Any weather constraints? Yes No Please describe.
Any bedding constraints?
No. Sand bedding is separated as part of operation when required
Is this process scalable and to what extent (top and bottom limits)? Yes No Please describe.
Depending on economics, can scale down to 200 cows with no upper limit. Cost definitely a factor at the lower end
Do you have a known scaling factor? Yes No Please describe.
Scaling curve goes up rapidly at the lower end, beginning to level off above 1000 cows

Input and output of your unit/system – do you have a mass balance analysis? Yes No Please describe.				
We do not have a calculated mass balance analysis, could be developed when necessary				
Do you consider this technology part of a larger system that you provide? Yes No Please describe.				
Digesters need to be part of a comprehensive manure management plan, which Daritech brings to the project. Digesters that do not account for and incorporate dairy operations are likely to be unsuccessful in the end				
Has your technology been accepted by the NRCS? Yes No Please describe.				
Not the digester, but many of the components such as pumps, tanks, separators, concrete, etc				
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?				
Daritech digesters are valued engineered to control operating and capital costs. Costs range from \$1,500-\$2,000/cow for 1000 cows, to under \$1,000/cow above 5,000				