



Date: 01/05/17

**COMPANY INFORMATION**

<b>Company Name:</b> DVO Incorporated	
<b>Phone:</b> 920-849-9797	<b>Web Site:</b> http://www.dvoinc.com/
<b>Address:</b> 820 W. Main St.	<b>City:</b> Chilton
<b>State:</b> WI	<b>Zip Code:</b> 53014

**BUSINESS CONTACT**

<b>Name:</b> Melissa VanOrnum
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<b>Email:</b> melissav@dvoinc.com
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**TECHNICAL CONTACT**

<b>Name:</b> Steve Dvorak
<b>Phone:</b> 920-849-9797
<b>Email:</b> steved@dvoinc.com
<b>Address:</b> 820 W. Main St.
<b>City:</b> Chilton
<b>State:</b> WI
<b>Zip Code:</b> 53014

**BUSINESS HISTORY**

**How long have you been in business?** Over 27 years (since 1989)

**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?*

Previously GHD Inc., which was previously EnPro Plus

**Number of employees?** 35

**What is your business structure?** Privately held

**What types of insurance and or surety do you provide?**

DVO is fully insured. DVO has the ability to obtain performance and payment bonds for a specific project if required by the project

**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.*

Brian Furrer BioTown Ag and Green Cow Power, both in Indiana  
brian@biotownag.com

Troy Statz Statz Bros., Inc., Sun Prairie, WI  
tstatz@statzbrothers.com

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

DVO provides consulting, grant writing, development, engineering, construction and project management services; can provide full EPC contracting

**Area or region of operation.**

U.S. and international. Currently have installations in 18 states and five foreign countries

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

DVO holds numerous patents on AD and post-AD technologies.

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

**Do you integrate equipment manufactured by others?**  Yes  No

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

N/A. We do not represent any companies.

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

The company, formerly GHD, has been under the same ownership since 1989. DVO is a family owned business, with the same owners and management for over 20 years. DVO’s owners have also owned and operated farming and farm equipment businesses for 38 years

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

We support customers throughout the planning and construction process, as well as ongoing O&M assistance

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

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

No, however we do have potential outside project developers available.

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

**Do you have preferred partners?**  **Yes**  **No**

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

Regenis in Washington  
Bryan VanLoo  
bryanv@regenis.net

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

*If so, please describe.*

Yes. A wealth of research has been conducted on our AD & post-AD technologies

**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.*

Yes. We guarantee biogas production and run time.

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

DVO is the United States leader in AD and post-AD technologies and the integration of the two. We have digesters processing the waste from dairy, swine and poultry operations; we also have extensive codigestion experience, with sites digesting food and food processing wastes. We installed the only poultry digester that operates without the addition of fresh recycle water. We are also proud of our post-AD technologies, which consist of phosphorus recovery, ammonia recovery, and nitrification/denitrification technologies.

**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?**

DVO's Two-Stage Linear Vortex TM

**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.*

Initial collection/transfer manure storage, energy recovery, primary/coarse solids recovery, advanced suspended/fine solids recovery, drying, nitrification denitrification, ammonia stripping, membrane filtration

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

Dairy – 85 sites  
Cattle/Heifers – 4 sites  
Poultry – 1 site  
Swine – 3 sites  
Cattle slaughterhouse waste – 1

**Size of farm(s)?**

The farm sizes range from 400 – 15,000 dairy cows  
Also on swine, poultry and mixed-feed/co-digestion sites of various sizes, from small to large

**Location of farm(s)?**

WI, MN, IA, IL, IN, OH, MI, VT, NY, MA, VA, NC, GA, FL, CA, ID, OR, WA. In addition, we have installed digesters in Canada, Chile, China, South Korea, and Serbia.

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

We can design our digester for any size operation. We have no floor or ceiling.

**Input material description/characteristics:**

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

DVO's digester has processed a wide range of organic waste streams, such as raw manure from dairy, poultry, swine, cattle, food waste, food processing waste, FOG, ethanol and biodiesel wastes, etc.

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

Full manure stream

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

Mature

**Any weather constraints?**  Yes  No *Please describe.*

**Any bedding constraints?**  Yes  No *Please describe.*

No, but with all digesters, digested fiber bedding is preferred. If sand bedding is still a desire, up front sand processing step is required.

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

Yes. It's unlimited – no top or bottom limits

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

N/A

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

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

DVO provides fully integrated systems – AD plus post-AD treatment and gas cleaning technologies

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

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?

We would be happy to discuss any additional questions as they arise.