



**COMPANY INFORMATION**

Date: 05/09/2017

<b>Company:</b>	Cenergy USA, Inc.		
<b>Phone:</b>	(501) 868-6400	<b>Web Site:</b>	<a href="http://www.cenergy.us">http://www.cenergy.us</a>
<b>Address:</b>	11500 North Rodney Parham Road, Suite 9	<b>City:</b>	Little Rock
<b>State:</b>	Arkansas	<b>Zip Code:</b>	72212

**BUSINESS CONTACT**

**TECHNICAL CONTACT**

<b>Name:</b>	Bob Joblin	<b>Name:</b>	Bob Joblin
<b>Phone:</b>	(501) 868-6400	<b>Phone:</b>	(501) 868-6400
<b>Email:</b>	bob@cenergy.us	<b>Email:</b>	bob@cenergy.us
<b>Address:</b>	PO Box 241522	<b>Address:</b>	11500 North Rodney Parham Road, Suite 9
<b>City:</b>	Little Rock	<b>City:</b>	Little Rock
<b>State:</b>	Arkansas	<b>State:</b>	Arkansas
<b>Zip Code:</b>	72223	<b>Zip Code:</b>	72212

**BUSINESS HISTORY**

**How long have you been in business?** 12 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?** 8

**What is your business structure?** Corporation

**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.*

Digester Project Development, including pre-project studies, feasibility and finance

**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.*

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

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

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

DVO anaerobic digester systems integrated with back-end digestate process technologies

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

Debt free for twelve years

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

Technical support provided through DVO, Inc.

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

Design services provided through DVO, Inc.

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

Negotiable depending on ultimate lender

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

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

DVO "Linear Vortex™" digesters

**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.*

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

Commercialization of post-digester derived products, such as Magic Dirt.

## 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?**

Digester project feasibility and development

**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.*

Cenergy has the ability and experience to manage all aspects biomass-powered energy project development including manure and food waste digester projects at dairy farms and processing plants. We specialize in working with dairy farmers to develop systems that process organic waste streams to produce renewable energy, process heat, bedding, and crop nutrients including commercial products designed to repurpose nutrients as organic fertilizers and commercial peat moss replacement.

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

There are about 80 DVO digesters on dairy farms in the United States. Cenergy is involved with ongoing ownership and management of large digester systems.

**Size of farm(s)?**

4,100 to 15,000 wet cow equivalents

**Location of farm(s)?**

Idaho

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

4,100 and 15,000 wet cow equivalents

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

Full manure stream for a dairy including flush water from the milking parlor

**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?**

The technology is mature with 80 DVO systems operating for over a decade on U.S. dairy farms. We are researching and commercializing new products derived from manure

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

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

No sawdust

**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 400 to 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 is available for each digester project

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

The digester can be designed as a stand-alone system or can incorporate solids separation and nutrient extraction systems

**Has your technology been accepted by the NRCS?** Yes  No  *If so, 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

**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**

<b>Company Name:</b>	DVO, Inc.
<b>Company Location:</b>	P.O. Box 69; Chilton, WI 53014
<b>Contact Name:</b>	Steve Dvorak, P.E.; President
<b>Contact Information:</b>	Office: (920) 849-9797 <a href="mailto:SteveD@dvoinc.net">SteveD@dvoinc.net</a>

**Reference 2**

<b>Company Name:</b>	Regenis
<b>Company Location:</b>	6920 Salashan Pkwy A-102; Ferndale, WA 98248
<b>Contact Name:</b>	Craig Frear, Director of Research & Technology
<b>Contact Information:</b>	866-578-8630 office craigf@regenis.net

**Reference 3**

<b>Company Name:</b>	US Environmental Protection Agency (EPA)
<b>Company Location:</b>	Washington, DC
<b>Contact Name:</b>	Chris Voell; International Lead - Ag & Wastewater AgSTAR and Global Methane Initiative
<b>Contact Information:</b>	Phone: (202) 343-9468 voell.christopher@epa.gov

**Reference 4**

<b>Company Name:</b>	Big Sky West Dairy
<b>Company Location:</b>	Gooding, ID
<b>Contact Name:</b>	Marty Toll
<b>Contact Information:</b>	martybigsky@gmail.com

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