



# Industry Directory for On-Farm Biogas Recovery Systems

March 2008





# INDUSTRY DIRECTORY FOR ON-FARM BIOGAS RECOVERY SYSTEMS

The AgSTAR Program produces this Industry Directory to assist livestock producers and others involved in the developing anaerobic digestion systems to identify consultants, designers, developers, equipment vendors, and other providers of biogas energy services.

If you are in the planning stages of project development, we recommend that you use the Industry Directory in combination with the AgSTAR Handbook (which is available on the AgSTAR website at [www.epa.gov/agstar](http://www.epa.gov/agstar)) as project development tools to begin the initial project planning process to increase the potential for success.

**Commodity Organizations** represent the interests of a specific crop or livestock commodity. Commodity organizations generally are involved in marketing or lobbying activities.

**Consultants** provide a variety of services related to biogas recovery systems, including feasibility analyses (e.g., technical, economic, and financial), nutrient management planning, system design, and environmental impact and regulatory assessments.

**Developers** design and install biogas recovery systems for livestock and other industries. In many cases, these are “turn-key” system developers who provide consultant services as part of the development package.

**Financing** specialists provide loans for biogas projects, funding on-farm biogas systems for profit, and brokering the sale of carbon offsets and renewable energy certificates.

**Energy Service Providers** are independently owned, municipal or co-operative electricity or natural gas companies that have an interest in providing biogas energy to customers.

**Manufacturers/distributors** include entities that manufacture, distribute, and in some cases, install equipment used in biogas recovery systems, including covers, engines, tanks, and system components.

**Publishers** distribute journals and reports of interest to farm owners and others interested in biogas recovery systems.

**Universities** are educational institutions, including land grant colleges and universities, involved in developing and demonstrating on-farm biogas recovery systems and technologies.

The Directory is not all inclusive. We will update the Directory regularly as we learn of new businesses in the livestock waste market. These updates will be posted on the AgSTAR website, along with other AgSTAR products.

If you wish to be included in the Directory, go to <http://www.epa.gov/agstar/tech/form.html>. If you currently are on the list and want to update any information, go to <http://www.epa.gov/agstar/contact.html>.

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## Commodity Organizations

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### Best Agri-marketing, Inc.

Todd Soares  
3901 S.Mooney Blvd. Suite E  
Visalia CA 93277

**Tel:** (559) 733-9777  
**Fax** (559) 733-9774  
**Email** bestagri@aol.com  
**WebSite** [N/A](#)

**Year Established:** 1992

Bulk cattle feed merchandising company interested in developing an environmental issues and resolution department for patrons. Interested in biogas projects.

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### Dairy Quality Assurance Center

Keith Carlson  
801 Shakespeare Avenue  
Stratford IA 50249

**Tel:** (515) 838-2793  
**Fax** (515) 838-2788  
**Email** kcarlson@dqacenter.org  
**WebSite** [www.dqacenter.org](http://www.dqacenter.org)

**Year Established:** 1994

The Dairy Quality Assurance Center provides national publicity to dairy farmers.

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### Missouri Pork Producers Association

Don Nikodim  
6235 W. Cunningham Drive  
Columbia MO 65202

**Tel:** (573) 445-8375  
**Fax** (573) 446-2398  
**Email** pork@mppa.net  
**WebSite** [www.mppa.net](http://www.mppa.net)

**Year Established:** 1956

The Missouri Pork Producers Association is an organization focused on agricultural commodities.

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## Consultants

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### Agricultural Engineering Associates, Inc.

John A. George, P.E.  
P.O. Box 4  
Uniontown KS 66779

**Tel:** (620) 756-4600  
**Fax** (620) 756-1000  
**Email** johng@agengineering.com  
**WebSite** [www.agengineering.com](http://www.agengineering.com)

**Year Established:** 1974  
**# of Farm Projects:** 20+  
**# of Biogas Projects:** 20+

Broad based engineering firm with 4 decades experience nationally and internationally. Focus is on systems integration, sand separation, manure solids separation, and processing. USDA qualified technical service provided - systems design and CNMP's.

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## Consultants

### Agri-Waste Technology, Inc.

Lawson M. "Mac" Safley, Jr.  
5400 Etta Burke Court  
Raleigh NC 27606

**Tel:** (919) 859-0669  
**Fax** (919) 233-1970  
**Email** mmottern@agriwaste.com  
**WebSite** [www.agriwaste.com](http://www.agriwaste.com)

**Year Established:** 1984  
**# of Farm Projects:** 6  
**# of Biogas Projects:** 3

Agri-Waste Technology, Inc. (AWT) is a full-service professional engineering and consulting firm, located in Raleigh, North Carolina. For over two decades, AWT has provided environmental services to agricultural, industrial, municipal, and residential clients nationwide. AWT is licensed to provide engineering services in 38 states throughout the country, with a full-time staff consisting of engineers, agronomists, licensed soil scientists, Technical Service Providers (TSP) and GIS/GPS mapping specialists. Over the past several years, AWT has worked effectively with over 350 producers in developing Comprehensive Nutrient Management Plans (CNMPs) for the NRCS in various states. AWT also has specialized experience and technical competence in manure nutrient management, designing, handling, storage, and transfer. AWT has been certified through the Chicago Climate Exchange (CCX) as an approved verifier for greenhouse gas offset projects. AWT has significant experience with digester projects including design specifications, greenhouse gas offsets consulting and carbon credit verifications.

### Applied Technologies, Inc.

Mike O'Neil  
16815 W. Wisconsin Avenue  
Brookfield WI 53005

**Tel:** (262) 784-7690  
**Fax** (262) 784-6847  
**Email** mponeil@ati-ae.com  
**WebSite** [www.ati-ae.com](http://www.ati-ae.com)

**Year Established:** 1986  
**# of Farm Projects:** 15  
**# of Biogas Projects:** 35

Applied Technologies, Inc. (ATI) is an engineering design and consulting firm that has designed numerous anaerobic contact process systems for manure digestion. ATI has also co-sponsored several seminars throughout the last 20 years on the anaerobic treatment of agricultural and high-strength wastes.

### BDS Technologies, Inc.

Freddie Guerra  
12700 Park Central Drive, Suite 1415  
Dallas TX 75251

**Tel:** (214) 747-2500  
**Fax** (214) 747-2567  
**Email** fguerra@bdstechnologies.com  
**WebSite** [www.bdstechnologies.com](http://www.bdstechnologies.com)

**Year Established:** 1996  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

BDS provides turnkey solutions to clients that include feasibility studies, permitting, engineering and design, construction, and start-up of biogas recovery systems.

### BEST, LLC

Craig Frear  
645 N. Grand Avenue  
Pullman WA 99163

**Tel:** (509) 332-2030  
**Fax** N/A  
**Email** king.keving@gmail.com  
**WebSite** [N/A](#)

**Year Established:** 2007  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Provide consultant services related to Co-digestion, Digester related issues and Nutrient recovery process.



## Consultants

### Biomass Energy Resource Center

Jeff Forward  
PO Box 1611  
Montpelier VT 05601

**Tel:** (802) 262-1009  
**Fax** (802) 223-7772  
**Email** [jforward@biomasscenter.org](mailto:jforward@biomasscenter.org)  
**WebSite** [www.biomasscenter.org](http://www.biomasscenter.org)

**Year Established:** 1991  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 2

Provides feasibility analysis and project management for the construction of anaerobic digesters for dairy farmers.

### Bridgestone Associates, Ltd.

Martin C.T. Anderson  
P.O. Box 1299  
Chadds Ford PA 19317

**Tel:** (610) 388-6191  
**Fax** (610) 388-0394  
**Email** [mcta@brdgstn.com](mailto:mcta@brdgstn.com)  
**WebSite** [www.brdgstn.com](http://www.brdgstn.com)

**Year Established:** 1988  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 30

Consultants in the evaluation, design, financing, construction and operations of animal manure anaerobic digestion and other disposal facilities and other renewable energy projects.

### Brubaker Consulting Group, Inc.

Michael Brubaker  
4340 Oregon Pike  
Ephrata PA 17522

**Tel:** (717) 859-3276  
**Fax** (717) 859-3416  
**Email** [mikeb@brubakerag.com](mailto:mikeb@brubakerag.com)  
**WebSite** [N/A](#)

**Year Established:** 1979  
**# of Farm Projects:** 3  
**# of Biogas Projects:** 3

Brubaker Agronomic Consulting consults U.S. farmers in many areas within agriculture, and has three clients with biogas systems: two dairy farms and a swine farm.

### Cavanaugh & Associates

John Bizic  
130 N. Front Street, Suite 202  
Wilmington NC 28401

**Tel:** (910) 392-4462  
**Fax** (910) 392-4612  
**Email** [john.bizic@cavanaughhsolutions.com](mailto:john.bizic@cavanaughhsolutions.com)  
**WebSite** [www.cavanaughhsolutions.com](http://www.cavanaughhsolutions.com)

**Year Established:** 1995  
**# of Farm Projects:** 3  
**# of Biogas Projects:** 10

Engineering, Utility Services, Surveying, Site Development, Wastewater Treatment, Anaerobic Digestion, etc. and Consulting Services.

### Cincas International

Ben Cruz  
P.O. Box 81163  
San Diego CA 92138

**Tel:** (619) 520-0733  
**Fax** (619) 295-6055  
**Email** [bcruz92312@aol.com](mailto:bcruz92312@aol.com)  
**WebSite** [N/A](#)

**Year Established:** 1978  
**# of Farm Projects:** 27  
**# of Biogas Projects:** 14

Export technology and equipment to the agro industry of Mexico and others.



## Consultants

### Climate Options Group

Charles Brasor

P.O. Box 38378

Baltimore MD 21231

**Tel:** (202) 436-9886

**Fax** N/A

**Email** cbrasor@climateoptionsgroup.com

**WebSite** [www.climateoptionsgroup.com](http://www.climateoptionsgroup.com)

**Year Established:** 2007

**# of Farm Projects:** 4

**# of Biogas Projects:** N/A

Climate Options Group (COg) is a leading provider of regulatory services for the global Emissions Market. We offer a diverse range of services including project identification, management, design and engineering. Our services target the mandatory and voluntary markets, which ultimately lead to the generation of carbon credits to be sold in the global markets. COg works closely with companies in both the private and public sectors throughout the developed and the developing world to help find practical, efficient and value-added solutions that mirror environmental expectations of both the present and future. COg staff has over twenty combined years of experience in emission mitigation, project management, and financial markets. They have helped register more than 100 CDM projects globally and have successfully worked with UN certified Designated Operation Entities (DOEs). COg employees have managed projects that have significantly reduced air pollution in the United States via implementation of emission control devices, best management practices, and efficiency improvements at public and private industries throughout the United States. COg staff has successfully negotiated air quality compliance issues and obtained approximately 100 air quality permits from over 20 different Federal, State, and Local regulatory agencies of the United States.

### Coffman Geosciences

Laura E. Coffman, R.G.

2050 East Wayland

Springfield MO 65804

**Tel:** (615) 594-8657

**Fax** N/A

**Email** lec56mail-GC@yahoo.com

**WebSite** [N/A](#)

**Year Established:** 2002

**# of Farm Projects:** 3

**# of Biogas Projects:** 4

Coffman Geosciences provides renewable energy consulting services to agricultural producers, food processors, ethanol developers and other producers of organic waste streams. CG has also patented a novel method for media placement in high-rate, suspended growth anaerobic digestion systems. CG also offers small scale, containerized AD systems to waste producers with smaller operations. Other services offered include AD feasibility studies, system planning and project management.

### Commercial Engineering Corporation - Anergen Division

Ashok Bendre

430 Lake Cook Road, Suite B

Deerfield IL 60015

**Tel:** (847) 236-0900

**Fax** (847) 236-1790

**Email** arbend@aol.com

**WebSite** <http://www.anergen.com>

**Year Established:** 1986

**# of Farm Projects:** N/A

**# of Biogas Projects:** 3

The Anergen Division of Commercial Engineering performs feasibility assessments for farmers interested in installing biogas systems. Anergen submitted several proposals to design and develop biogas systems for farms.

### Conestoga-Rovers & Associates

Jason Haelzle

7086 N. Maple Avenue

Fresno CA 93720

**Tel:** (888) 572-5885

**Fax** (559) 326-5905

**Email** jhaelzle@CRAworld.com

**WebSite** [www.CRAworld.com](http://www.CRAworld.com)

**Year Established:** 1976

**# of Farm Projects:** 6

**# of Biogas Projects:** 30

Founded in 1976, Conestoga-Rovers & Associates (CRA) provides comprehensive, multi-disciplinary services in the areas of engineering, environmental consulting, construction and information technology (IT). CRA offers a unique blend of technical expertise and project experience in technology evaluation/assessment and engineering design of anaerobic digestion and biogas collection, upgrading/treatment, and utilization systems for the municipal, agricultural, and food processing sectors. Supporting these areas of endeavor are CRA's considerable experience in landfill gas handling/utilization, waste pretreatment, engineering production, municipal waste/wastewater treatment, air emissions, and economic analysis.



## Consultants

### Dean Oliver International

Richard Watkins  
4600 North Royal Atlanta Drive  
Tucker GA 30084

**Tel:** (770) 492-2660  
**Fax** N/A  
**Email** [Rwatkins@Dean-Oliver.com](mailto:Rwatkins@Dean-Oliver.com)  
**WebSite** [www.Dean-Oliver.com](http://www.Dean-Oliver.com)

**Year Established:** 1983  
**# of Farm Projects:** 12  
**# of Biogas Projects:** 7

Multidiscipline design engineering firm, providing process and detail engineering for industrial plants.

### Dennis Gerber, Consultant

Dennis Gerber  
15870 Rose Avenue  
Los Gatos CA 95030

**Tel:** (408) 395-9020  
**Fax** (408) 395-9020  
**Email** [dhgerber@comcast.net](mailto:dhgerber@comcast.net)  
**WebSite** [N/A](#)

**Year Established:** N/A  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Mr. Gerber designs and installs anaerobic digester covers. His Gas Collecting Floating Cover design, which holds a U.S. Patent, is the de-facto standard for flexible membrane anaerobic digesters.

### Duke Engineering and Services

David Johnson  
400 S. Tryon Street, P.O. Box 1004  
Charlotte NC 28201

**Tel:** (704) 373-3384  
**Fax** (704) 382-7669  
**Email** [rfgreen@dukeengineering.com](mailto:rfgreen@dukeengineering.com)  
**WebSite** [N/A](#)

**Year Established:** 1989  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 3

Duke Engineering is testing a method to digest manure, and assisted with developing a digester for a poultry farm.

### EA Engineering, P.C.

Christopher J. Kerlish  
3 Washington Center  
Newburgh NY 12550

**Tel:** (845) 565-8100  
**Fax** (845) 565-8203  
**Email** [info@eaest.com](mailto:info@eaest.com)  
**WebSite** [www.eaest.com](http://www.eaest.com)

**Year Established:** 1973  
**# of Farm Projects:** 5  
**# of Biogas Projects:** 5

EA Engineering, P.C. is a national environmental engineering and sciences consulting firm with more than 20 offices across the United States. Our headquarters is located in Hunt Valley, Maryland. Within the Northeast Region, EA has 6 offices to service clients. We have a 30-year history of supporting both private-and public-sector clients in their pollution prevention, environmental assessment, compliance, restoration, and risk management programs. We have a 30-year project corporate resume spanning a wide range of areas including sludge profiling of anaerobic lagoons, redesigning anaerobic lagoons for waste-to-energy objectives; and landfill investigations, design, and closure.

### ecosur

Lazaroo Timothée  
2 rue Greuze 75116 PARIS FRANCE  
75116

**Tel:** 33-14-755-0678  
**Fax** 33-14-505-2702  
**Email** [t.lazaroo@ecosur.fr](mailto:t.lazaroo@ecosur.fr)  
**WebSite** [www.ecosur.fr](http://www.ecosur.fr)

**Year Established:** 2005  
**# of Farm Projects:** 22  
**# of Biogas Projects:** 34

ecosur is a French based company that works in the Kyoto protocol's framework. We develop CDM and JI projects in the sector of methane capture and recovery: LFG (landfill gas flaring) and the AWMS (Animal Waste Management System - biogas combustion). We propose legal, financial and technical expertise to project developers that need to set up the carbon part of their projects and help them to select and implement the appropriate technologies. We help farming activities and local communities to benefit from the carbon credits system to enhance their environmental performances.



## Consultants

### Electrigaz Technologies, Inc.

Eric Camirand

17 ch MaryHill

Harrington QC J8G 2T3

**Tel:** (819) 687-2875

**Fax** (819) 687-2875

**Email** eric@electrigaz.com

**WebSite** [www.electrigaz.com](http://www.electrigaz.com)

**Year Established:** 2001

**# of Farm Projects:** 100+

**# of Biogas Projects:** 200+

Electrigaz specializes exclusively in the research and development of biogas solutions, for the food and farming industries.

### Environmental Resource Recovery Group, LLC (EnRRG)

Burt Tribble

15789 202 Street

Nortonville KS 66060

**Tel:** (913) 886-8051

**Fax** (913) 660-0405

**Email** btribble@enrrg.com

**WebSite** [www.enrrg.com](http://www.enrrg.com)

**Year Established:** N/A

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Environmental Resource Recovery Group (EnRRG) is a recently formed company whose partners have experience in anaerobic digestion and waste-to-energy in agriculture, agribusiness, and the food industry. EnRRG's business is identifying practical energy recovery, anaerobic digestion, and waste management projects, evaluating their economic potentials, and bringing together qualified projects with development partners. Qualified projects are those meeting technical requirements and economic investment guidelines.

### Fox Engineering Associates, Inc.

Dale Watson

1601 Golden Aspen Drive

Ames IA 50010

**Tel:** (515) 233-0000

**Fax** (515) 233-0103

**Email** dwatson@foxeng.com

**WebSite** [www.foxeng.com](http://www.foxeng.com)

**Year Established:** 1967

**# of Farm Projects:** 2

**# of Biogas Projects:** 18

Fox Engineering specializes in environmental and civil engineering services for industrial, municipal, and agricultural sectors. The company focuses on water, wastewater, soil, and air media issues and has designed a digester for Crawford Farm (demonstration project), a swine farm in Nevada, Iowa.

### Future Enviroassets, LLC

Larry Fradkin

922 Oregon Trail

Cincinnati OH 45215

**Tel:** (513) 349-3844

**Fax** N/A

**Email** lf@futureenviroassets.com

**WebSite** [www.futureenviroassets.com](http://www.futureenviroassets.com)

**Year Established:** N/A

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Future Enviroassets, LLC is an environmental consulting firm with expertise and over 28 years experience in anaerobic digestion.



## Consultants

### Gas Technology Institute

Diane Saber  
1700 Mount Prospect Road  
Des Plaines IL 60018

**Tel:** (847) 768-0720  
**Fax** (847) 768-0546  
**Email** [diane.saber@gastechnology.org](mailto:diane.saber@gastechnology.org)  
**WebSite** [www.gastechnology.org](http://www.gastechnology.org)

**Year Established:** 1950  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 10

Gas Technology Institute (GTI) and the Environmental Science & Technology Center have been carrying out research and development projects and technology demonstrations in the areas of anaerobic digestion and biogas generation since the 1970s. GTI holds a number of patents on the two-phase reactor system and other reactor designs and systems. The two-phase digestion technology has been in full-scale commercial use for activated sludge treatment for more than five years. The two-stage system has proven successful for swine and dairy manure in large-scale laboratory evaluations and GTI is preparing for farm demonstrations and full-scale deployments. Work is continuing on this technology and others to generate high-quality biogas for electricity generation and heat recovery using farmer-friendly, stable, and dependable systems.

### General Bioenergy, Inc.

Phillip Badger  
P.O. Box 26, 3115 Northington  
Florence AL 35630

**Tel:** (256) 740-5634  
**Fax** (256) 740-5635  
**Email** [pbadger@bioenergyupdate.com](mailto:pbadger@bioenergyupdate.com)  
**WebSite** [www.bioenergyupdate.com](http://www.bioenergyupdate.com)

**Year Established:** 2000  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Mr. Badger is the Technical Director for the Southeastern Regional Biomass Energy Program, which has funded a variety of projects related to farm-scale systems (mainly lagoon digester projects) and wastewater treatment plants. He publishes and sells the "Biogas Utilization Handbook." General Bioenergy has performed feasibility studies for farm biogas systems.

### GeoPacific Lining

William Wolfe  
1300 Dexter Ave., N. #205  
Seattle WA 98109

**Tel:** (206) 284-2378  
**Fax** (206) 283-7068  
**Email** [geopacific@cesmont.com](mailto:geopacific@cesmont.com)  
**WebSite** [N/A](#)

**Year Established:** 1994  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 2

GeoPacific Lining performs feasibility assessments and consults farms on implementing digester systems, and is in the design phase of developing digesters for three farms in the U.S.

### GeoSyntec Consultants, Inc.

Junchul Kim, Ph.D., P.E.  
10015 Old Columbia Road  
Columbia MD 21046

**Tel:** (410) 381-4333  
**Fax** (410) 381-4499  
**Email** [jkim@geosyntec.com](mailto:jkim@geosyntec.com)  
**WebSite** [www.geosyntec.com](http://www.geosyntec.com)

**Year Established:** 1983  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

GeoSyntec provides private and public sector clients with earth and environmental sciences consulting services; environmental, geotechnical, and hydrological engineering consulting and design services; and construction management and quality assurance services for projects involving these practices. Our offices are located in 25 locations throughout the North America with more than 500 engineers, scientists, and technical specialists.



## Consultants

### IGT

J. Robert Paterek, Ph.D / Laurence M. Feder  
1700 S. Mount Prospect Road  
Des Plaines IL 60016

**Tel:** NONE  
**Fax:** NONE  
**Email:** paterek@igt.org  
**WebSite:** <http://www.igt.org>

**Year Established:** N/A  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Energy and environmental research, development and education.

### Kadrmass, Lee and Jackson

Mark Luther  
128 Soo Line Drive  
Bismarck ND 58501

**Tel:** (701) 355-8400  
**Fax:** N/A  
**Email:** mark.luther@kljeng.com  
**WebSite:** [www.kljeng.com](http://www.kljeng.com)

**Year Established:** 1937  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Kadrmass, Lee and Jackson provides alternative and renewable energy solutions through its facilitating, consulting, engineering, and project management services.

### Kouba Engineering, LLC

John Kouba  
10296 W. Palmersheim Drive  
Hales Corners WI 53130

**Tel:** (414) 858-2399  
**Fax:** N/A  
**Email:** john\_kouba@koubaengineering.com  
**WebSite:** [www.koubaengineering.com](http://www.koubaengineering.com)

**Year Established:** 2005  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 10

Kouba Engineering specializes in the treatment of high-strength waste, especially with anaerobic technologies, and biogas/biomass to energy projects. Our work space is throughout the USA as well as internationally. We're a young company, but with years of experience.

### MacMillan & Associates

Roy MacMillan  
17815 NE Courtney Road  
Newberg OR 97132

**Tel:** (503) 628-0277  
**Fax:** N/A  
**Email:** rm@macmillan-group.com  
**WebSite:** [N/A](#)

**Year Established:** 1973  
**# of Farm Projects:** 9  
**# of Biogas Projects:** 6

MacMillan & Associates is an integrated engineering and consulting company that specializes in providing energy-related services to the agricultural community.

### MCX Environmental Energy Corp.

Rasheed Mustakeem  
3500 Lenox Road, Suite 1500  
Atlanta GA 30326

**Tel:** (404) 419-2536  
**Fax:** (404) 816-7809  
**Email:** rasheed@mcxeec.com  
**WebSite:** [www.mcxeec.com](http://www.mcxeec.com)

**Year Established:** 1988  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Your distributed energy, infrastructure, and construction management services provider.



## Consultants

### National Methane

William J. Lingo, Sr.

1823 Leo Street - Suite 100

Dayton OH 45404

**Tel:** (937) 226-0340

**Fax** (937) 226-0340

**Email** nationalmethane@netzero.com

**WebSite** [N/A](#)

**Year Established:** 1983

**# of Farm Projects:** 37

**# of Biogas Projects:** 13

National Methane holds a patent for a system that can verify the basis for each of the "multiple" avenues of income streams their system develops. National Methane provides complete farm evaluations and recommendations for incorporating biogas technology into a farm plan. National Methane has provided evaluations for more than 100 chicken farms, more than 60 swine farms, more than 25 dairy farms, and one sheep farm. The company also provides grant writing and public relations services related to on-farm biogas recovery and fee-based speakers for Community Groups and Agricultural Seminars.

### Omega-Alpha Recycling Systems

Robert Hamburg

Route 1, Box 51

Orma WV 25268

**Tel:** (304) 655-8662

**Fax** N/A

**Email** anomalous@citlink.net

**WebSite** [N/A](#)

**Year Established:** 1979

**# of Farm Projects:** 2

**# of Biogas Projects:** 5

Omega-Alpha Recycling Systems (OARS) works on projects related to organic recycling and biogas systems integrated with organic farming and permaculture facilities. OARS has designed four small-scale, ambient temperature digesters: 1) Arcadia Farm, a goat, chicken, and horse farm in Orma, West Virginia with a Chinese style extended batch digester; 2) Urbanic Farm, a horse, cow, and chicken farm in Chloe, West Virginia with a Chinese style extended batch digester; 3) Agriculture Research Farm, a swine farm in Bamaco, Mali, West Africa with a Chinese style extended batch digester; and 4) the Mandali School, a school with cattle, in Chhopark, Nepal, an Indian design Gobar Gas demonstration project. OARS was also instrumental in halting a project that was environmentally and economically unsound.

### Phase 3 Developments & Investments, LLC

Norma McDonald

7155 Five Mile Road

Cincinnati OH 45230

**Tel:** (513) 265-2758

**Fax** (330) 319-8152

**Email** normacnc5@aol.com

**WebSite** [www.phase3dev.com](http://www.phase3dev.com)

**Year Established:** 2005

**# of Farm Projects:** 4

**# of Biogas Projects:** 17

Phase 3 Developments & Investments, LLC (Phase 3) provides services to agricultural customers related to renewable energy and bio-based products. Services include financing and grant application preparation, business and technical feasibility studies, design, procurement, installation and commissioning services for anaerobic digestion and gasification.

### Positive Energy Alternatives, LLC

Delroy Leslie

P.O. Box 11

Menomonie WI 54751

**Tel:** (715) 664-6162

**Fax** (715) 232-8824

**Email** leslied@posengalt.com

**WebSite** [N/A](#)

**Year Established:** 2004

**# of Farm Projects:** 1

**# of Biogas Projects:** 2

Positive Energy Alternatives, LLC offers consultancy services and management of anaerobic digesters to farmers and communities. The company performs feasibility studies, farm evaluations and recommendations for farmers and/or organizations interested in biogas technology. Positive Energy Alternatives, LLC also assists farmers and organizations in completing grant applications to state and federal agencies.



## Consultants

### R. K. Frobel & Associates

Ronald K. Frobel, P.E.  
1153 Bergen Parkway Suite M-240  
Evergreen CO 80439

**Tel:** (303) 679-0285  
**Fax** (303) 679-8955  
**Email** geosynthetics@msn.com  
**WebSite** [N/A](#)

**Year Established:** 1988  
**# of Farm Projects:** 30  
**# of Biogas Projects:** 4

Established in 1988, R.K. Frobel & Associates consulting engineers provides design and construction assistance in the growing field of geosynthetics including design assistance in both animal waste lining systems and waste / anaerobic digester cover systems. Design assistance is provided to full service engineering firms or facility / farm owners. As principal of R.K. Frobel & Associates, Mr. Frobel has over 25 years of experience in synthetic lining and cover systems including agricultural applications.

### R. M. Services & Associates

Robert M. Service  
110 East Bremer Avenue, Suite A  
Waverly IA 50677

**Tel:** (800) 873-0679  
**Fax** (319) 352-5765  
**Email** rmsa@mchsi.com  
**WebSite** [www.yourenergyoptions.com](http://www.yourenergyoptions.com)

**Year Established:** 1973  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 1

Energy consulting and product development focused on electric power plant development (portable & stationary 70-700 Kw) and on hot water heating system development, all using low cost and ag waste fuels. Fuel conversions, audits, fuel surveys, arbitration/mediation technical support, and community development planning. Community development and community energy projects. Industry research reports.

### Richard Chambers

Richard Chambers  
1102 Don Cubero Ave.  
Santa Fe NM 87501

**Tel:** N/A  
**Fax** N/A  
**Email** rhcha@aol.com  
**WebSite** [N/A](#)

**Year Established:** 1961  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Construction project administrator and engineer.

### Richmond Energy Associates

Jeff Forward  
2899 Hinesburg Road  
Richmond VT 05477

**Tel:** (802) 434-3770  
**Fax** (802) 434-2344  
**Email** forward@gmavt.net  
**WebSite** [N/A](#)

**Year Established:** 1997  
**# of Farm Projects:** 15  
**# of Biogas Projects:** 15

Richmond Energy Associates is a renewable energy company specializing in anaerobic digestion feasibility analysis.

### Russell J. Murray & Associates

Russ Murray  
736 W. Pico Avenue  
Fresno CA 93705

**Tel:** (559) 224-7547  
**Fax** (559) 224-7547  
**Email** russjmmurray@aol.com  
**WebSite** [N/A](#)

**Year Established:** 2003  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 8

Design, construction supervision and start up of anaerobic digesters for the dairy, food processing and wine industries.



## Consultants

### Selective Site Consultants, Inc.

Terry Super  
8500 West 110th Street, Suite 300  
Overland Park KS 66210

**Tel:** (913) 438-7700  
**Fax** (913) 438-7777  
**Email** terry.super@selectivesite.com  
**WebSite** [www.selectivesite.com](http://www.selectivesite.com)

**Year Established:** 1993  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 3

Selective Site Consultants is a site development consultant that provides site acquisition, engineering and construction management services for several industries including renewable energy using the patented Advanced Anaerobic Digestion System (AADS).

### Sellew & Associates, LLC

Paul Sellew  
84 Shady Brook Lane  
Carlisle MA 01741

**Tel:** (978) 371-0501  
**Fax** (978) 371-0199  
**Email** psellew@comcast.net  
**WebSite** [N/A](#)

**Year Established:** 1998  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 1

Broad range of experience in manure and industrial organics anaerobic digestion.

### Sharp Energy, Inc.

Roy Sharp  
24684 Road 148  
Tulare CA 93274

**Tel:** (559) 688-2051  
**Fax** (559) 688-1111  
**Email** rsharp6368@aol.com  
**WebSite** [N/A](#)

**Year Established:** 1983  
**# of Farm Projects:** 5  
**# of Biogas Projects:** 12

Sharp Energy, Inc. consults, designs, and sets up effective and efficient waste management and energy production systems. Sharp Energy developed systems for the following farms: 1) Royal Farms, a 16,000-head swine farm in Tulare, California; 2) Sharp Ranch, a 5,000-head swine farm in Tulare, California; 3) Sharp Enterprises, an 8,000-head swine farm in Caruthers, California; and 4) Petrorio Farm, a 3,000-head swine farm in Skopje, Macedonia. Sharp Energy designed covers for the following farms: Cal Poly San Luis Obispo (an AgSTAR Demonstration Farm), a 300-cow dairy in San Luis Obispo, California; and Laurencio Dairy, a 1,200-cow dairy in Tulare, California.

### Short Elliott Hendrickson

Russ Stammer  
3240 E River Road NE  
Rochester MN 55906

**Tel:** (507) 529-7200  
**Fax** (507) 529-7201  
**Email** jmickelson@sehinc.com  
**WebSite** [www.sehinc.com](http://www.sehinc.com)

**Year Established:** 1929  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 50

Consulting Engineers.

### SJH and Company, Inc.

Michael Masterovsky  
8 Faneuil Hall Market Place, 3rd Floor  
Boston MA 02109

**Tel:** (617) 239-1120  
**Fax** (617) 973-6406  
**Email** masterovsky@sjhandco.com  
**WebSite** [www.sjhandco.com](http://www.sjhandco.com)

**Year Established:** 1990  
**# of Farm Projects:** 3  
**# of Biogas Projects:** 3

SJH's Renewable Energy Consulting Group has over 15 years of proven experience and expertise providing independent, third-party management consulting services to project developers and financial institutions operating in the ethanol, biodiesel, biomass (including anaerobic digestion) and co-generation sectors.



## Consultants

### Triple Bottom Consulting, LLC

John Norwood

1611 Green Branch Circle

West Des Moines IA 50265

**Tel:** 515-556-9765

**Fax** (515) 440-1440

**Email** jmnorwood@hotmail.com

**WebSite** [N/A](#)

**Year Established:** 1998

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

John Norwood is an expert consultant engaged in the development of new business models, strategies and policies designed to stimulate the development of locally – and regionally – based food, fiber and energy systems, and other agriculturally-related specialty products. Mr. Norwood has more than 20 years of professional experience in program development and promotion, spanning the public, private and non-profit sectors. Mr. Norwood has a proven track record of driving organizations to achieve far reaching goals, by combining innovative business practices and systems, with rigorous data analysis, in-depth problem solving skills, and incentive-driven partnerships. A consensus builder, Mr. Norwood is known for his ability to provide creative, innovative leadership on multiple levels — from large picture “vision” to detailed focus. Mr. Norwood's past clients include Drake University's Agricultural Law Center and the Maxyield Cooperative (community-based approach to manure management and methane recapture). In connection with his innovative work, Mr. Norwood has successfully raised more than \$2 million in grant awards from federal and state sources, including the states of Iowa and California.

### Universal Entech, LLC

Daniel Musgrove

5501 N. 7th Avenue, PMB 233

Phoenix AZ 85013-1756

**Tel:** 602-268-8849

**Fax** 602-268-9742

**Email** dmusgrove@earthlink.net

**WebSite** [N/A](#)

**Year Established:** 1993

**# of Farm Projects:** 3

**# of Biogas Projects:** N/A

Universal Entech, LLC is an organic resource management company providing manure management and wastewater treatment services to the CAFO industry. The company focuses on developing turnkey solutions that comply with its clients' nutrient management plans and discharge requirements. Universal Entech's team has extensive experience in the development and operation of renewable energy systems utilizing biogas from municipal wastewater and landfill applications.

### VerdiTech

Ken Abercrombie

12749 East Heather Drive

Clovis CA 93611

**Tel:** (559) 297-7370

**Fax** (559) 297-7370

**Email** verditch@aol.com

**WebSite** [N/A](#)

**Year Established:** 2001

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

VerdiTech consults, designs, and manages systems to convert livestock manure into energy. Also provides services to develop quality monitoring for effective field application and crop production.

### WAB associates

Wayne Bostick

12570 Shelby Rd.

Minster OH 45865

**Tel:** 419-628-0321

**Fax** N/A

**Email** wabassc@adelphia.net

**WebSite** [N/A](#)

**Year Established:** 2004

**# of Farm Projects:** 3

**# of Biogas Projects:** 3

40 years of experience primarily in the technical and service aspects of power generation systems; diesel, gaseous, and biogas. Assistance with the selection, application, and operation of generation systems.



## Consultants

### Wilcox Professional Services, LLC

Dana M. Kirk  
111 W. Edgewood Blvd, Suite 7  
Lansing MI 48911

**Tel:** (517) 882-4359  
**Fax** (517) 882-5137  
**Email** dana.kirk@wilcox.us  
**WebSite** [www.wilcox.com](http://www.wilcox.com)

**Year Established:** 1968  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 1

Wilcox provides consulting, design, and construction services for agricultural waste management systems. We have worked with numerous landowners to assist in procuring Environmental Quality Incentives Program (EQIP) funding and other cost share incentives that are available through the United States Department of Agriculture-Natural Resources Conservation Service.

## Developers

### A.O. Smith Engineered Storage Products Company

Dave Friederick  
345 Harvestore Drive  
DeKalb IL 60115

**Tel:** (815) 756-1551  
**Fax** (815) 756-1659  
**Email** dfriederick@aosmith.com  
**WebSite** <http://www.slurrystore.com>

**Year Established:** 1951  
**# of Farm Projects:** 17  
**# of Biogas Projects:** 53

A.O. Smith performs feasibility assessments, and designs and installs biogas systems. A.O. Smith has designed biogas systems for 7 farms in the U.S. and 10 farms in Europe. Examples include: 1) Huntington Dairy, a 600 cow dairy in Cooperstown, NY; and 2) University of Florida, a 500 cow dairy in Gainesville, FL.

### ACTIVA BioGreen, Inc.

Hyo Lee  
One Tiffany Pointe, Suite 100  
Bloomingdale IL 60108

**Tel:** (630) 238-3111  
**Fax** (630) 238-3151  
**Email** hyo.lee@activasns.com  
**WebSite** [www.activasns.com](http://www.activasns.com)

**Year Established:** 2003  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

A new venture company specialized in wastes treatment, using a new concept of far infra-red rays.

### ADI Systems, Inc.

Stephen G. Bliss  
1133 Regent Street, Suite 300  
Fredericton NB E3B 3Z2

**Tel:** (506) 459-3954  
**Fax** (506) 459-3954  
**Email** sgb.@adi.ca  
**WebSite** [www.adi.ca](http://www.adi.ca)

**Year Established:** 1990  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 100

ADI Systems has been involved in approximately 100 full-scale anaerobic system installations throughout the world. Approximately 50 of these systems treat agri-waste from food-related processing, while the remaining systems treat brewery, beverage, and chemical wastes. Each of these systems involves biogas collection and flaring or utilization (in most cases via burning in a boiler to produce hot water and steam). In several instances, utilization has involved cogeneration.



## Developers

### ADI Systems, Inc.

Albert A. Cocci  
182 Main Street, Unit 6  
Salem NH 3079

**Tel:** (603) 893-2134  
**Fax** (603) 898-3991  
**Email** [acocci@adi.ca](mailto:acocci@adi.ca)  
**WebSite** [www.adi.ca](http://www.adi.ca)

**Year Established:** 1990  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 100

ADI Systems has been involved in approximately 100 full-scale anaerobic system installations throughout the world. Approximately 50 of these systems treat agri-waste from food-related processing, while the remaining systems treat brewery, beverage, and chemical wastes. Each of these systems involves biogas collection and flaring or utilization (in most cases via burning in a boiler to produce hot water and steam). In several instances, utilization has involved cogeneration.

### Ag Environmental Solutions

Carl Theunis  
2768 Poplar Street  
Kaukauna WI 54130

**Tel:** (920) 532-4804  
**Fax** (920) 532-5039  
**Email** [aes@athenet.net](mailto:aes@athenet.net)  
**WebSite** [ag-env-sol.com](http://ag-env-sol.com)

**Year Established:** 2000  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 1

Ag Environmental Solutions employs a process patented by and licensed to Iowa State Research. Ag Environmental Solutions' Tinedale Project is one of the largest dairy farm biogas systems in the United States with a 2,500-head capacity. The process is a complete mix using thermophilic and mesophilic temperatures enabling the system to produce a Class A bio-solid.

### AgrEnergy LLC

Daniel DeBuhr  
S79W16459 Woods Road  
Muskego WI 53150

**Tel:** (262) 617-1570  
**Fax** (262) 244-1455  
**Email** [tes@wi.rr.com](mailto:tes@wi.rr.com)  
**WebSite** [N/A](#)

**Year Established:** N/A  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 2

Anaerobic Kit supplier with full turnkey capabilities. Project financing capability as sell.

### Agri Bio Systems

Richard Vetter, PhD, PAS, ACAN  
2333 Tara Drive  
Elgin IL 60123

**Tel:** (847) 888-7854  
**Fax** (847) 888-1484  
**Email** [r.vetter@sbcglobal.net](mailto:r.vetter@sbcglobal.net)  
**WebSite** [N/A](#)

**Year Established:** 1985  
**# of Farm Projects:** 7  
**# of Biogas Projects:** 7

Agri Bio Systems performs feasibility assessments and designs and installs biogas systems in the United States and abroad. Examples of biogas systems include: 1) Lindstrom Farm: a 50-cow dairy farm in Welch, Minnesota; 2) Leefer Farm, a 1,000-cow beef confinement farm in Carbin Carlinville, Illinois; 3) Smith Farm, a 70,000-broiler poultry farm in Princeton, North Carolina; 4) Naser Farm, a 1,000-sow finishing swine farm in Sibley, Iowa; 5) Hamilton Farm, a 450-sow finishing farm and a 120,000-layer poultry farm in Iowa Falls, Iowa; 6) Huntington Dairy, a 300-cow dairy farm in Cooperstown, New York; 7) Cushman Farm, a 600-cow dairy in Franklin, Connecticut; and 8) International Project, Taiwan, Environmental Training Center for Waste Management. Agri Bio Systems also acts as a coordinator on numerous animal waste and food waste projects.



## Developers

### AgriClean, LLC

David Palmer  
2925 Berry Hill Drive  
Nashville TN 37204

**Tel:** (615) 274-9797  
**Fax** (615) 279-9740  
**Email** [agriclean@agriclean.com](mailto:agriclean@agriclean.com)  
**WebSite** [www.agriclean.com](http://www.agriclean.com)

**Year Established:** 2001  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 4

AgriClean, LLC designs and installs biogas systems in the U.S. and abroad. Although there are a number of waste treatment technologies in its portfolio, AgriClean is a licensee of a patented fixed-film AD system from the University of Florida. Examples of biogas systems include: 1) A fixed-film digester on a swine finishing farm that produces 30,000 animals per year (around 1600 animal units (AU) at steady-state) near Greenville, NC in partnership with the Animal and Poultry Waste Management Center of NC State University; 2) A fixed-film digester and biogas use system on a 400 head (around 560 AU) dairy in Hillsboro, MS in partnership with the Mississippi Alternative Energy Enterprise; 3) A fixed-film digester and biogas use system on a swine farrow-to-finish operation that produces 64,000 animals per year (around 3580 AU at steady-state) in Canada, and; 4) An in-ground ambient temperature earthen digester and biogas use facility on a 4000 head swine nursery farm in Montpelier, MS. AgriClean also acts as a project developer on numerous animal waste and food waste projects, including a biogas plant and piping system at a 1,000 head per day beef processing facility in Mississippi. AgriClean has also designed a unique "power-flush" system (AgriJet Patent Pending) that will reduce the total amount of water used to flush the barns by close to 70%. This means that manure collected from barns is close to 6% solids as opposed to the 0.7% that exists today, making any treatment system significantly more cost-effective.

### AgroEnergien Meiners

Burkhard Meiners  
Brunner Street 18  
26316 Varel Germany

**Tel:** +49-4453-98-58-00  
**Fax** +49-4453-98-58-02  
**Email** [meiners@agroenergien.de](mailto:meiners@agroenergien.de)  
**WebSite** [www.agroenergien.com](http://www.agroenergien.com)

**Year Established:** 2000  
**# of Farm Projects:** 16  
**# of Biogas Projects:** 16

Manufacturer and distributor of the self-mixed digester (SMD) biogas system. The SMD uses gas pressure for mixing and has no internal moving parts. A ground sludge separator is optional. For more information do not hesitate to contact us.

### BBI International

Brian Duff  
300 Union Blvd., Suite 325  
Lakewood CO 80228

**Tel:** (303) 526-5655  
**Fax** (303) 526-7776  
**Email** [bduff@bbibiofuels.com](mailto:bduff@bbibiofuels.com)  
**WebSite** [www.bbibiofuels.com](http://www.bbibiofuels.com)

**Year Established:** 1995  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 6

Leading biofuels and renewable energy consulting firm involved in evaluation, design, and development of renewable energy technology applications. Core expertise includes biomass utilization for the production of fuels, power and chemicals, including anaerobic digestion and biomass gasification.

### BioEnergy Solutions

Doug Williams, P.E.  
200 New Steine Road, Suite 220  
Bakersfield CA 93309

**Tel:** (661) 617-6240  
**Fax** (661) 617-6238  
**Email** N/A  
**WebSite** [www.bioensol.com](http://www.bioensol.com)

**Year Established:** 1990  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 6

BioEnergy Solution provides the infrastructure necessary to create renewable natural gas from animal waste at our expense, then share revenues from the sale of gas and carbon credits with the farmer or food processor. The result is a minimum 10-year revenue stream for the farmer or food processor. BioEnergy Solutions, based in California's agriculture-rich Central Valley, was founded by dairy farmers who understand the daily challenges farmers face.



## Developers

### Biofuel Industries, a Cogeneration Technologies Company

Monty Goodell, M.B.A.	<b>Tel:</b> (512) 220-1498	<b>Year Established:</b> 2001
12615 Jones Rd., Suite #209	<b>Fax</b> N/A	<b># of Farm Projects:</b> 3
Houston TX 77070	<b>Email</b> info@cogeneration.net	<b># of Biogas Projects:</b> 5
	<b>WebSite</b> <a href="http://www.AnaerobicDigesters.com">www.AnaerobicDigesters.com</a> & <a href="http://www.Biomethane.c">www.Biomethane.c</a>	

Biofuel Industries is a turnkey provider (design, build, finance, build, own, operate) of farm energy systems, including Anaerobic Digesters, Biomass Gasification and other "Waste to Energy" and "Waste to Fuel" Technologies.

### Biogas Energy, Inc.

Brian Gannon	<b>Tel:</b> (815) 301-3432	<b>Year Established:</b> 2004
4509 Interlake Ave N #222	<b>Fax</b> (815) 301-3432	<b># of Farm Projects:</b> 1
Seattle WA 98103	<b>Email</b> info@biogas-energy.com	<b># of Biogas Projects:</b> 1
	<b>WebSite</b> <a href="http://www.biogas-energy.com">www.biogas-energy.com</a>	

Biogas Energy designs, builds, and operates anaerobic digesters using technology that is running in over 1000 digesters in Europe and North America.

### BIOGAS NORD US Inc.

Michael Groth	<b>Tel:</b> (510) 227-9186	<b>Year Established:</b> 2000
3900 Harney Street	<b>Fax</b> N/A	<b># of Farm Projects:</b> 155
San Diego CA 92110	<b>Email</b> groth@biogas-nord.com	<b># of Biogas Projects:</b> 210
	<b>WebSite</b> <a href="http://www.biogasnord-us.com">www.biogasnord-us.com</a>	

BIOGAS NORD is a leading provider of biogas recovery systems. Our team of 200 provides expertise and support in all areas of anaerobic digester technology. From concept development, detailed planning and construction to providing training and service, BIOGAS NORD is able to ensure your success.

### Biogas Power

Shelby Tyne	<b>Tel:</b> +27-31-7811051	<b>Year Established:</b> 2005
Kwazule-Natal	<b>Fax</b> +27-31-7811981	<b># of Farm Projects:</b> N/A
South Africa	<b>Email</b> shelby@biogaspower.co.za	<b># of Biogas Projects:</b> 1
	<b>WebSite</b> <a href="http://www.biogaspower.co.za">www.biogaspower.co.za</a>	

We are in Kwazulu-Natal, South Africa. We do Projects in South Africa as well as other parts of the continent. Being innovitave leaders in the field we design and construct the cheapest and most cost effective biogas plants in the world. So much so that it would be cheaper for an interested party from the USA to import our digesters and CHP plants and our expertise than it would be for an American Firm to design and construct one. We have done Farm digesters, and are consulting on a city project at the moment. We also fully utilise the methane produced in the farm project and bottle it and run tractors and utility vehicles on excess methane. We have constructed the cheapest commercial biogas plant on the planet using boiler litter.



## Developers

### Biothane

2500 Broadway  
Camden NJ 08104

**Tel:** (856) 541-3500  
**Fax** N/A  
**Email** sales@biothane.com  
**WebSite** [www.biothane.com](http://www.biothane.com)

**Year Established:** 1987  
**# of Farm Projects:** 24  
**# of Biogas Projects:** 25

Biothane specializes in biological treatment of industrial wastewater, and designs and builds anaerobic digesters for livestock manure. Biothane worked with E3 BioFuels, LLC to develop an integrated cattle manure management/ethanol project in Mead, Nebraska that is expected to revolutionize ethanol production by virtually eliminating the need for fossil fuels. Biothane designed a nutrient recovery that separates the effluent waste stream into two separate streams, one high in solids and phosphorous, which is well-suited for composting, and the other low in solids and high in nitrogen, which will be sent to an ammonia stripping column, with aqueous ammonia as a final product.

### BioWaste Energy, Inc.

Zia Khan  
P.O. Box 8520  
Stockton CA 95208

**Tel:** (209) 465-0296  
**Fax** (209) 465-1605  
**Email** ziakhan@pacbell.net  
**WebSite** [home.pacbell.net/ziakhan](http://home.pacbell.net/ziakhan)

**Year Established:** 1973  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

BioWaste Energy, Inc. and its predecessors have provided quality services to industries and municipalities since 1972 and have completed more than 300 power generation projects in the United States and abroad. The company develops and finances zero discharge projects utilizing anaerobic technology. These projects treat solid and liquid waste and produce saleable products, including electricity generated from methane, liquid fertilizer, CO<sub>2</sub>, soil amendments, and recycled potable water. These facilities provide zero solid and liquid discharge. The company offers a full range of services covering all phases of project development from planning, feasibility studies, engineering design, equipment and systems supply, and construction and installation to start-up and operations.

### Biowatt-U.S., LLC

Kirk Akin  
4644 South Warner Road  
Carson City MI 48811

**Tel:** (989) 584-6241  
**Fax** (989) 584-6305  
**Email** kakin@midmich.net  
**WebSite** [www.biowatt.de](http://www.biowatt.de)

**Year Established:** 2003  
**# of Farm Projects:** 16  
**# of Biogas Projects:** 23

Biowatt-U.S. will plan and design your complete biogas project including: Design, engineering, permits, licensing, manufacturing, construction, all phases of your turn key biogas plant. We include the start-up (including training) and commissioning of the plant, with the end result being an operating turnkey facility.

### Bruckner, Inc.

10 Patewood Drive, Patewood Plaza VI, Suite 450  
Greenville SC 29615

**Tel:** (864) 234-7111  
**Fax** (864) 234-5511  
**Email** brucknerusa@brucknerinc.com  
**WebSite** [www.brucknerinc.com](http://www.brucknerinc.com)

**Year Established:** 1987  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Bruckner is a German corporation that formed the Biotec division in 2006, drawing in experienced staff of smaller German biogas companies, to provide turn-key, biogas systems for agriculture and industry. CEO Dr. Markus Helm has built over 20 biogas plants. Bruckner presently has a 1.4 MW biogas project under construction (2007) in the Czech Republic and others under development in the US and elsewhere. Bruckner biogas systems are based on a highly efficient and reliable design and can use a variety of inputs including: manure; corn; grasses and other crops; food waste; sewage sludge and other wastes or byproducts.



## Developers

### Burns & McDonnell

Jeff Greig  
9400 Ward Parkway  
Kansas City MO 64114

**Tel:** (816) 333-9400  
**Fax** (816) 333-3690  
**Email** jgreig@burnsmcd.com  
**WebSite** [www.burnsmcd.com](http://www.burnsmcd.com)

**Year Established:** 1898  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Burns & McDonnell provides engineering and construction services to a wide variety of clients in the fields of energy, infrastructure, and aviation. Burns & McDonnell specializes in project development assistance encompassing planning, design, and construction of power generation and renewal projects. Burns & McDonnell provides turnkey development, financing, design, and construction of anaerobic digester and generation projects.

### California Power Partners, Inc.

Tom Moore  
8525 Arjons Drive, Suite I  
San Diego CA 92126

**Tel:** (858) 271-5500  
**Fax** (858) 271-5510  
**Email** tomm@calpwr.com  
**WebSite** [www.calpwr.com](http://www.calpwr.com)

**Year Established:** 1996  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 8

Calpwr is a total turn-key provider of services to the distributed generation and cogeneration industry. Our services include financial and technical analysis, engineering, equipment supply, project management, construction, financing, O&M, etc.

### Canada Composting, Inc.

Kevin Matthews  
390 Davis Drive, Suite 301, Newmarket  
Ontario, Canada L37 7T8

**Tel:** (905) 830-1160  
**Fax** (905) 830-0416  
**Email** ccikevin@attglobal.net  
**WebSite** [www.canadacomposting.com](http://www.canadacomposting.com)

**Year Established:** 1995  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 2

Canada Composting Inc. is a private company that holds the exclusive rights to the BTA-Process throughout Canada and the United States. The BTA-Process technology employs anaerobic digestion for the production of biogas and compost from organic waste.

### Cargill, Inc.

Jay Ritzen  
12700 Whitewater Drive  
Minnetonka MN 55343

**Tel:** (800) 590-5581  
**Fax** (952) 984-3475  
**Email** cef@cargill.com  
**WebSite** [www.cargillcarbon.com](http://www.cargillcarbon.com)

**Year Established:** 2005  
**# of Farm Projects:** 22  
**# of Biogas Projects:** N/A

Cargill Environmental Finance (CEF), a wholly-owned subsidiary of Cargill, Inc., innovators of the BioFactory™, specializes in complete project development for emission reduction, waste to energy, "green" products, and operational synergies in the food and agriculture sectors. Our custom end-to-end solution set approach creates a holistic and enduring enterprise for our clients.



## Developers

### Chevron Energy Solutions

Alana O'Connell Ruegg  
345 California Street  
San Francisco CA 94104

**Tel:** (415) 733-4668  
**Fax** (415) 733-4961  
**Email** cesfeedb@chevron.com  
**WebSite** [www.chevronenergy.com](http://www.chevronenergy.com)

**Year Established:** 1997  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 2

Chevron Energy Solutions' provides public intuitions and businesses with environmentally sound projects that increase energy efficiency, reduce energy costs and ensure reliable, high-quality power for critical operations. The company employs proven technologies to meet customers' specific needs. Its parent, Chevron Corporation, is investing across the energy spectrum to develop energy sources for future generations by expanding the capabilities of alternative and renewable energy technologies. Chevron spent about \$2 billion on alternative and renewable energy development between 2002 and 2006, and expects to spend more than \$2.5 billion on this between 2007 and 2009. For more information, please visit [www.chevronenergy.com](http://www.chevronenergy.com) and [www.chevron.com](http://www.chevron.com).

### DMK Ingerieria, S.L.

Daniel Morris Kraut  
C/ Gutiérrez Herrero 52  
Avilés - Asturias Spain

**Tel:** +34 98-555-1833  
**Fax** +34 98-551-1060  
**Email** krautdm@dmkingenieria.es  
**WebSite** [www.dmkingenieria.es](http://www.dmkingenieria.es)

**Year Established:** 2006  
**# of Farm Projects:** 4  
**# of Biogas Projects:** 10

DMK Ingeniería, S.L. is an Environmental Engineering Company located in Northern Spain dedicated to the development of Biogas, Biodiesel and other Bioenergy Projects in Europe, Latin America and North America. DMK Ingeniería, S.L. is active in European Projects, and is interested in collaborating with North American Companies interested in joint collaboration projects.

### EA Engineering, Science, and Technology

Robert Newman  
15 Loveton Circle  
Sparks MD 21152

**Tel:** (410) 771-4950  
**Fax** (410) 771-4204  
**Email** rnewman@eaest.com  
**WebSite** [www.eaest.com](http://www.eaest.com)

**Year Established:** 1973  
**# of Farm Projects:** 20  
**# of Biogas Projects:** 100

EA Engineering, Science, and Technology is a full service environmental consulting firm with offices nationwide. In addition to providing multimedia consulting services, EA has designed and built several large scale biogas projects (i.e., conceptualization, design, building), primarily at meat-processing facilities.

### Ecovation, Inc.

Eastgate Square, 50 Square Drive Suite 200  
Victor NY 14564

**Tel:** (585) 421-3500  
**Fax** N/A  
**Email** info@ecovation.com  
**WebSite** [N/A](http://N/A)

**Year Established:** 2000  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 6

Ecovation, Inc. delivers treatment of organic waste streams using proprietary and patented technologies that create opportunities for renewable energy utilization. Methane gas produced by the company's patented process is used at its treatment sites to operate boilers that heat wastewater for treatment. The methane can also be cleaned and used as a natural gas alternative.



## Developers

### Environmental Developers, Inc.

Herman P. Miller III, PE  
P.O. Box 2964  
Yountville CA 94599

**Tel:** (707) 945-0149  
**Fax** N/A  
**Email** HPMiller3D@aol.com  
**WebSite** [www.vradenergy.com](http://www.vradenergy.com)

**Year Established:** 1995  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 1

Patented technology for smallest, fastest, most efficient BioWaste to energy conversion with pure water and automatic carbon dioxide sequestering attributes; is completely enclosed; requires no waste ponding; and environmentally clean.

### Environmental Energy Company

Dennis Burke  
6007 Hill Road NE  
Olympia WA 98516

**Tel:** (360) 923-2000  
**Fax** (360) 923-1642  
**Email** dennis@makingenergy.com  
**WebSite** [www.makingenergy.com](http://www.makingenergy.com)

**Year Established:** 1991  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Environmental Energy Company, formerly Cyclus Envirosystems (a division of Western Environmental Engineering), solves waste management problems through innovative process technologies. The company developed and patented new anaerobic and flotation processes that allow them to solve waste management problems at significantly less cost and with better capture of components.

### Environmental Products & Technology Company (EPTC)

Marvin Mears  
2219 E. Thousand Oaks Blvd., Suite 373  
Thousand Oaks CA 91362

**Tel:** (805) 492-6865  
**Fax** (818) 865-2205  
**Email** marvin@eptcorp.com  
**WebSite** [www.eptcorp.com](http://www.eptcorp.com)

**Year Established:** 1994  
**# of Farm Projects:** 3  
**# of Biogas Projects:** 4

Environmental Products & Technology Company (EPTC) developed two anaerobic digester projects at Utah State University. Both systems are multi-tank systems with the objective of developing short HRT cycles. Short HRT can reduce both the size of the system and the associated costs. Developed an Aerobic Bio-reactor for the processing of manure into pathogen free, weed seed free, odor free, pasteurized, soil amendment or animal bedding with a process cycle of 72 hours.

### GHD, Inc.

Steve Dvorak  
P.O. Box 69  
Chilton WI 53014

**Tel:** (920) 849-9797  
**Fax** (920) 849-9160  
**Email** corporate@ghdinc.net  
**WebSite** [www.ghdinc.net](http://www.ghdinc.net)

**Year Established:** 1985  
**# of Farm Projects:** 30  
**# of Biogas Projects:** 30

GHD provides engineering and system installation experience in the anaerobic digester industry. GHD has twenty-nine (29) operating anaerobic digesters utilizing its patented mixed plug flow digester design in the US and twelve (12) additional digesters under construction.



## Developers

### Hanusa Renewable Energy

Duane Hanusa  
E 12678 Hwy W  
Baraboo WI 53913

**Tel:** (608) 356-5078  
**Fax** N/A  
**Email** duanehanusa@gmail.com  
**WebSite** [N/A](#)

**Year Established:** 2004  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Worked for 4 years Developing Alliant Energy's Digester Program projects. Developed 4 farm projects. I felt there was a need for projects on smaller farms in the 150-500 cow range. I have designed a system that will cash flow at that level and started my own company.

### Lock Four

Stacy Gettier  
P.O. Box 474  
Waverly VA 23890

**Tel:** (804) 834-8317  
**Fax** N/A  
**Email** swg@erols.com  
**WebSite** [N/A](#)

**Year Established:** 1991  
**# of Farm Projects:** 4  
**# of Biogas Projects:** 4

Lock Four performs feasibility assessments, and designs and installs biogas systems. Examples include: Barham Farm, a 4,000 sow farrow-to-wean farm in Zebulon, NC; 2) Apex Pork, an 8,600 head finishing swine farm in Rio, IL; 3) Boland Farm, a 2,000 head nursery swine farm in Williamsburg, IA; and 4) a 2,800 head farrow-to-feeding swine farm in South Boston, VA.

### Micro-Bac International

Stephen R. Harden  
3200 N. IH 35  
Round Rock TX 78681-2410

**Tel:** (512) 310-9000  
**Fax** (512) 310-8800  
**Email** mail@micro-bac.com  
**WebSite** [www.Micro-Bac.com](http://www.Micro-Bac.com)

**Year Established:** 1979  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 2

We are a Biotechnology company specializing in microbial solutions that biodegrade hydrocarbon contaminants.

### Microgy, Inc.

Michael Hvisdos  
One Cate Street, 4th Floor  
Portsmouth NH 60523

**Tel:** (603) 431-1780  
**Fax** (603) 431-2650  
**Email** mhvisdos@microgy.com  
**WebSite** [www.environmentalpower.com](http://www.environmentalpower.com)

**Year Established:** 1982  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Microgy is a wholly owned subsidiary of Environmental Power Corporation. Microgy develops, owns and operates large-scale biogas facilities which can cost-effectively and reliably produce clean, renewable gas from agriculture and food industry wastes while simultaneously creating marketable carbon offset credits. Microgy's facilities produce biogas which can be used for a variety of applications: combusted in a generator to create power, used as is to offset fossil fuels, or cleaned to natural gas standards for pipeline interconnection and sale as renewable natural gas.



## Developers

### Millennium Power Group

Bill Meyer

PO Box 180247

Hawaii National HI 96718  
Park

**Tel:** (808) 938-2439

**Fax** (915) 990-8470

**Email** N/A

**WebSite** [N/A](#)

**Year Established:** 2003

**# of Farm Projects:** 1

**# of Biogas Projects:** 1

MPG integrates renewable energy technologies to create a renewable energy system appropriate to each customer's particular electrical power needs. MPG's products and services cover the analysis, development, manufacture, integration, installation, operation, service and marketing of complete renewable energy systems. MPG renewable energy system components include advanced tidal, wave, hydro, OTEC, solar, wind, bio-diesel, biomass, anaerobic digestion, geothermal, thermal electric generation, hydrogen generation and hydrogen fuel cell technology.

### MWK Biogas North America Corp.

Sylke (Silka) Chesterfield

32 Clearview Terrace

Rensselaer NY 12144

**Tel:** (518) 283-1287

**Fax** (518) 283-1287

**Email** chesterfield@MWK-biogas.com

**WebSite** [www.MWK-biogas.com](http://www.MWK-biogas.com)

**Year Established:** 2007

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

MWK specializes in highly efficient and reliable mixed-substrate anaerobic digesters that employ proven technology and extensive experience to maximize quantity and quality of methane production. MWK biogas systems offer the option of using various and variable combinations of organic waste inputs, the availability of remote process monitoring and controls, ongoing biological consultation, and safety standards that exceed European regulations. MWK develops, plans, and designs the systems, then partners with local resources to facilitate the system's construction and equipment installation. Systems are tailored to the owner's needs with a focus on maximizing returns while minimizing costs.

### National Methane

William J. Lingo, Sr.

1823 Leo Street - Suite 100

Dayton OH 45404

**Tel:** (937) 226-0340

**Fax** (937) 226-0340

**Email** bilingo5@netzero.com

**WebSite** [N/A](#)

**Year Established:** 1975

**# of Farm Projects:** 3

**# of Biogas Projects:** 42

Consult, design and install anaerobic digester systems for all livestock operations, fruit orchards and the waste pulp industry of fruit orchards. We take pride in knowing our patented process is the most profitable and has the quickest payback of all Anaerobic digesters.

### Orgo Systems, Inc.

Mayyar Irani

16 White Block

Selingsgrove PA 17870

**Tel:** (570) 374-4402

**Fax** (570) 374-0487

**Email** mayyar@orgosystems.com

**WebSite** [orgosystems.com](http://orgosystems.com)

**Year Established:** 1998

**# of Farm Projects:** 1

**# of Biogas Projects:** 1

Orgo Systems farm project is a 1,100 farrow-to-finish hog operation with a 4,000-hog capacity. The 24-kW engine currently supplies electricity to the barn. Orgo Systems designed this operational prototype that produces electricity, reduces odors, and separates solids for better handling of waste. Currently, Orgo Systems is working on plans for a second-generation digester system that will digest, separate, compost, and aerate for total nutrient management.



## Developers

### Pro-Act Microbial, Inc.

Dr. Lin  
P.O. Box 345  
Warren RI 02885

**Tel:** (401) 245-7004  
**Fax:**  
**Email:** [clin@proactmicrobial.com](mailto:clin@proactmicrobial.com)  
**WebSite:** [www.proactmicrobial.com](http://www.proactmicrobial.com)

**Year Established:** 1999  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 100+

Pro-Act Microbial is a developer of anaerobic digesters for small farms. The digester is designed for comprehensive manure treatment to enhance fertilizer value, reduce odor, and collect biogas for on-farm use. In addition, Pro-Act provides after-installation services for digester owners and developers to trouble shoot digester problems for a more stable and/or enhanced gas production through its line of custom microbes and other products.

### R. M. Services & Associates

Robert M. Service  
110 East Bremer Avenue, Suite A  
Waverly IA 50677

**Tel:** (800) 873-0679  
**Fax:** (319) 352-5765  
**Email:** [rmsa@mchsi.com](mailto:rmsa@mchsi.com)  
**WebSite:** [www.yourenergyoptions.com](http://www.yourenergyoptions.com)

**Year Established:** 1973  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 1

Energy consulting and product development focused on electric power plant development (portable & stationary 70-700 Kw) and on hot water heating system development, all using low cost and ag waste fuels. Fuel conversions, audits, fuel surveys, arbitration/mediation technical support, and community development planning. Community development and community energy projects. Industry research reports.

### RCM International

Angie McEliece  
P.O. Box 4716  
Berkeley CA 94704

**Tel:** (510) 834-4568  
**Fax:** (510) 834-4529  
**Email:** [amceliece@rcmdigesters.com](mailto:amceliece@rcmdigesters.com)  
**WebSite:** [www.rcminternationalllc.com](http://www.rcminternationalllc.com)

**Year Established:** 1982  
**# of Farm Projects:** 49  
**# of Biogas Projects:** 50

RCM International LLC has designed over 50 farm-scale biogas projects. Examples include: Schrack Farms, a dairy farm in Pennsylvania with a plug flow digester and extensive waste heat recovery from the genset; Patterson Dairy, a complete mix digester in New York for dairy manure and food-waste; Castelanelli Dairy, an ambient temperature Covered Lagoon in California; Wyoming Premium Farms, a complete mix digester for Swine waste in Wyoming; and a complete mix digester for beef feeder manure and ethanol stillage located at the E3 Biofuels ethanol facility in Mead, Nebraska.

### RealEnergy, LLC

Kevin Best  
6712 Washington Street  
Yountville CA 94599

**Tel:** (707) 944-2400  
**Fax:** (707) 944-2420  
**Email:** [kbest@realenergy.com](mailto:kbest@realenergy.com)  
**WebSite:** [www.realenergy.com](http://www.realenergy.com)

**Year Established:** 2000  
**# of Farm Projects:** 30  
**# of Biogas Projects:** 30

RealEnergy, LLC has developed, built, owned, and operated more small, clean and green onsite power plants than any other independent power producer or distributed energy developer in North America. The management team has developed 43 discrete in-city power plants with electric grid interconnections, and is laser focused on investing in clean, distributed and renewable power plants, including biogas plants and profiting at exit.



## Developers

### Resource Development Associates

Phillip D. Lusk	<b>Tel:</b> (605) 945-1311	<b>Year Established:</b> 2000
108 E. Missouri Avenue	<b>Fax</b> (605) 945-0194	<b># of Farm Projects:</b> N/A
Pierre SD 57501	<b>Email</b> plusk@primecapture.com	<b># of Biogas Projects:</b> N/A
	<b>WebSite</b> <a href="#">N/A</a>	

The proposed Resource Development Associates biorefinery includes a locally managed system comprised of a 20-million gallon/year ethanol plant that uses local crops and an adjoining 28,000-head confined cattle feedlot connected to an anaerobic digester. Independent contractors will run "backgrounding" operations with additional 13,000- to 15,000-head of cattle. The complex will produce fuel-grade ethanol, finished cattle, biogas, and biofertilizers. The biorefinery is economically attractive, with an estimated internal rate of return of approximately 30 percent, achievable through significant economies of scope. A commercial demonstration of this referenced biorefinery is undergoing final detailed engineering and project development at a site located outside of Pierre, South Dakota. Construction is scheduled to commence late spring of 2002 and start-up is scheduled for the summer of 2003.

### Rose Energy Discovery, Inc.

Joseph Snodgrass	<b>Tel:</b> (765) 676-5117	<b>Year Established:</b> 2004
210 South Main Street	<b>Fax</b> (765) 663-0706	<b># of Farm Projects:</b> 15
Advance IN 46102	<b>Email</b> jody@roseenergy.com	<b># of Biogas Projects:</b> 25
	<b>WebSite</b> <a href="http://www.roseenergy.com">http://www.roseenergy.com</a>	

Rose Energy has licensed the "ET Process" for its implementation in the United States. This process utilizes bio-augmented bacteria in order to produce a much higher content biogas, typically in less than 5 days, containing virtually no hydrogen sulfide. Rose Energy is a developer providing engineering and design, construction, operation and, if needed, financing.

### Rosenberg International, Inc.

Peter Rosenberg, engineer	<b>Tel:</b> (450) 533-4183	<b>Year Established:</b> 1976
2824 N.E. 33rd court #10	<b>Fax</b> N/A	<b># of Farm Projects:</b> several
Fort Lauderdale FL 33306	<b>Email</b> peter.rosenberg@sympatico.ca	<b># of Biogas Projects:</b> several
	<b>WebSite</b> <a href="#">Soon in America</a>	

Rosenberg Int. Inc. is an engineering firm that has a 30 years existence. It has developed structures and engineering solutions worldwide. Was the first environmental firm specialized in pollution issues. This firm has developed a unique technology that not only transforms manure into fuel but also uses the residues into liquid and solid fertilizers that can be sold on the market. HIGH quality FERTILIZERS!!

### Sansuy

Kazu Ohno	<b>Tel:</b> 55-11-2139-2602	<b>Year Established:</b> 1966
Rod. Regis Bittencourt, s/n-Km280	<b>Fax</b> 55-11-2139-2557	<b># of Farm Projects:</b> N/A
Embu, Sao Paulo, 06830-900 Brazil	<b>Email</b> kazuohno@sansuy.com	<b># of Biogas Projects:</b> 700
	<b>WebSite</b> <a href="http://www.sansuy.com">www.sansuy.com</a>	

Sansuy is a Brazilian public company and has established itself as the leading PVC manufacturer in Latin America. Sansuy's PVC flexible laminates have been used in various business segments such as agriculture, civil construction, transportation, visual communication, automotive, basic sanitation, etc. However, Sansuy has recently achieved a tremendous success in environmental solution business while securing several international patents on its biodigester. Since 2004, Sansuy has already posted approximately US\$20 million sales and has installed approximately 700 units of biodigester in various sizes covering 2.5 million m2 in Latin America. Although not every unit is implemented for the Kyoto Protocol CDM projects, Sansuy's biodigesters have been widely implemented for CDM projects and well-recognized among CMD project owners, developers and financiers.



## Developers

### Schmack BioEnergy, LLC

Mark Suchan  
7624 Riverview Road  
Cleveland OH 44131

**Tel:** (216) 986-9999 x150  
**Fax** (216) 986-9999  
**Email** msuchan@schmackbioenergy.com  
**WebSite** [www.schmackbioenergy.com](http://www.schmackbioenergy.com)

**Year Established:** 2005  
**# of Farm Projects:** 161  
**# of Biogas Projects:** 204

Schmack BioEnergy has partnered with the premier European biogas company, Schmack Biogas, and is dedicated to the development of sustainable green power and reliable renewable energy as a solution to environmental, economic and energy challenges facing the world today. SBE employs the best available AD technology existing in the world today to produce biogas from organic residuals.

### Sustainable Technologies

Ernesto Montenero  
1800 Orion Street Suite 101  
Alameda CA 94501

**Tel:** (510) 523-1122  
**Fax** (510) 523-1123  
**Email** ernesto@sustainabletech.cc  
**WebSite** [www.sustech.cc](http://www.sustech.cc)

**Year Established:** 1999  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 1

Sustainable Technologies (ST) is a small minority owned environmental engineering and construction Company. ST designs and builds Digester, remediation systems and Solar electric systems for business.

### Synagro

Paul Sellew  
1800 Bering Drive, Suite 1000  
Houston TX 77057

**Tel:** 978-371-0501  
**Fax** (713) 369-1750  
**Email** psellew@synagro.com  
**WebSite** [www.synagro.com](http://www.synagro.com)

**Year Established:** 1987  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 6

Synagro operates at over 1,000 wastewater treatment plants throughout the country, providing operations and residuals management services. Many of these wastewater treatment plants employ anaerobic digestion. The company is using this experience to expand into the agribusiness market with its first operational facility, which was designed and built in Chino, California. This digester is designed for 225 wet tons of fresh cow manure per day. It employs dewatering and onsite cogeneration using Capstone Microturbines.

### Titan Energy Development, Inc.

Steven B. Hurt  
461 Burroughs  
Detroit MI 48202

**Tel:** (313) 831-1979  
**Fax** (313) 831-1989  
**Email** shurt@titanenergy.com  
**WebSite** [titanenergy.com](http://titanenergy.com)

**Year Established:** 2004  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 2

Specialize in the development of renewable energy derived from methane gas. We will design and build a fully functional system at little or no cost to you.

### UEM, Inc.

Hemang Shah  
1818 S Australian Avenue, Suite 200  
West Palm Beach FL 33409

**Tel:** 561-683-2273  
**Fax** 561-683-2996  
**Email** hshah@uemgroup.com, h\_shah@be  
**WebSite** [www.uemgroup.com](http://www.uemgroup.com)

**Year Established:** 1990  
**# of Farm Projects:** many  
**# of Biogas Projects:** 50

Financing and Turnkey Development of Anaerobic Digester and Biogas Recovery and Power Systems for Animal and Farm Wastes and other Organic Wastes from industries.



## Developers

### Valley Air Solutions, LLC

Robert Patrick

P.O. Box 4517

Stockton CA 95204

**Tel:** (877) 430-7600

**Fax** (877) 430-7600

**Email** robert.patrick@valleyairsolutions.co

**WebSite** [www.valleyairsolutions.com](http://www.valleyairsolutions.com)

**Year Established:** N/A

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Valley Air Solutions offers expertise and solutions to dairy waste incuagement problems and assistance with revenue-producing opportunities. We design and build digesters, anaerobic lagoons, and biogas cleaning systems.

### Waste Energy Solutions, LLC

Stephen Dominick

205 McKnight Park Drive

Pittsburgh PA 15237

**Tel:** 630-377-0662

**Fax** (630) 377-2444

**Email** sdominick@fromwastetoenergy.com

**WebSite** [www.fromwastetoenergy.com](http://www.fromwastetoenergy.com)

**Year Established:** 2003

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Waste Energy Solutions, Inc is a turnkey supplier of community sized anaerobic digester plants. We are a Danish anaerobic digester design licensee. We promote thermophilic operation with co-digestion. We encourage CHP and other best uses for the biogas produced.

### Zoladz Construction

Brian Swiatek

13600 Railroad Street

Alden NY 14004

**Tel:** (716) 937-6575

**Fax** (716) 937-6369

**Email** bswiatek@zoladzconstruction.com

**WebSite** [www.zoladzconstruction.com](http://www.zoladzconstruction.com)

**Year Established:** 1981

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Landfill construction.

## Energy Service Providers

### Alliant Energy

2777 Columbia Drive

Portage WI 53901-9483

**Tel:** (608) 742-0888

**Fax** (608) 742-0890

**Email** customercare@alliantenergy.com

**WebSite** [www.alliantenergy.com](http://www.alliantenergy.com)

**Year Established:** 1998

**# of Farm Projects:** 3

**# of Biogas Projects:** 6

Headquartered in Madison, Wisconsin, Alliant Energy Corporation is a growing energy-service provider with operations in the United States and abroad. The company provides electric, natural gas, water, and steam services to nearly three million customers worldwide.



## Financing

### AgRefresh

Jeffrey C. Frost  
P.O. Box 843  
Burlington VT 05402

**Tel:** (802) 859-0099  
**Fax** (815) 291-1011  
**Email** [jfrost@agrefresh.org](mailto:jfrost@agrefresh.org)  
**WebSite** [www.agrefresh.org](http://www.agrefresh.org)

**Year Established:** 2003  
**# of Farm Projects:** 15  
**# of Biogas Projects:** 15

AgRefresh is a carbon offset broker exclusively for farm energy systems. We also have a Section 9006 application success track record for grant writing for these projects.

### Cat Power Finance

Mitchell LeMasters  
2120 West End Avenue  
Nashville TN 37203

**Tel:** (630) 308-1910  
**Fax** (615) 341-3737  
**Email** [mitchell.lemasters@cat.com](mailto:mitchell.lemasters@cat.com)  
**WebSite** [www.catpowerfinance.com](http://www.catpowerfinance.com)

**Year Established:** 1981  
**# of Farm Projects:** 5  
**# of Biogas Projects:** 20+

Financial Services for renewable Energy projects utilizing Caterpillar power generation equipment.

### Caterpillar Financial Services Corporation

Mitchell LeMasters  
2120 West End Ave.  
Nashville TN 37203

**Tel:** (615) 341-3737  
**Fax** (630) 308-1910  
**Email** [mitchell.lemasters@cat.com](mailto:mitchell.lemasters@cat.com)  
**WebSite** <http://finance.cat.com/cda/layout?m=97223&x=7>

**Year Established:** N/A  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Financial and insurance services provider.

### CBL Lending

Gordon Ledingham  
841 Bishop St Ste 1516  
Honolulu HI 96813

**Tel:** (808) 585-7337  
**Fax** (808) 585-7447  
**Email** [gledingham@cblending.com](mailto:gledingham@cblending.com)  
**WebSite** [www.cblending.com](http://www.cblending.com)

**Year Established:** 1999  
**# of Farm Projects:** 6  
**# of Biogas Projects:** 2

Commercial and Business Lending (Hawaii Lending Specialists, LLC) is active in the Western US but covers all 50 states and US territories. We specialize in long-term asset finance utilizing conventional, USDA Rural Development, SBA 7a/504, and other loan programs, as well as tax credits. Our special interest areas are: Renewable Energy and Ag. As a full service advisor/broker, we provide loan origination, underwriting, and closing on business and commercial loans. Other industries/collateral financed includes industrial, agricultural, tourism & entertainment, C&I, retail/office, hospitality, and marine & aircraft. We work with national and regional lenders and investment banks, as well as specialty lenders, community banks, insurance companies.



## Financing

### Davenport Finance Company

E. Baker Davenport  
11 South 12th Street, Suite 200  
Richmond VA 23219

**Tel:** (804) 323-6061

**Fax** (703) 832-0773

**Email** baker.davenport@davenportfinance.com

**WebSite** [www.davenportfinance.com](http://www.davenportfinance.com)

**Year Established:** 1999

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Davenport Finance Company is an equipment leasing company specializing in the financing of energy projects. DFC delivers innovative and flexible financial products and structures to serve the needs of end-use customers and help them improve productivity and cash flow. Targeted projects include BOOM (Build, Own, Operate, Maintain) transactions for chilled water, steam, onsite power, and water treatment facilities as well as Power Purchase Agreements for landfill gas, biomass, solar, wind and geothermal. Depending upon the scope of work, terms up to 30 years may be available.

### Edgewood Holdings

Durrell Mack  
457 Cider Mill Road  
Cornwall VT 05753

**Tel:** (802) 462-3483

**Fax** (802) 462-3217

**Email** mack@edgewoodholdings.com

**WebSite** [edgewoodholdings.com](http://edgewoodholdings.com)

**Year Established:** N/A

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Edgewood is a private equity firm that finances biogas projects.

### Environmental Credit Corp.

Sharad Deshpande  
1070 Cleveland Avenue  
Batavia IL 60510

**Tel:** (630) 326-9299

**Fax** N/A

**Email** sharaddesh@hotmail.com

**WebSite** <http://envcc.com>

**Year Established:** 2005

**# of Farm Projects:** 50+

**# of Biogas Projects:** 50+

ECC partners with farmers to build and operate lagoon covers and biogas systems to reduce greenhouse gas emissions and create renewable energy. By covering the existing lagoons, two sources of revenues are created-renewable energy and carbon credits. In most cases, ECC pays for installation and operation of the system.

### First Capital Risk Management, LLC

Will Babler  
11380 Dandar Street  
Galena IL 61036

**Tel:** (815) 777-1129

**Fax** (815) 777-3308

**Email** wbabler@firstcapitalrm.com

**WebSite** [www.firstcapitolrm.com](http://www.firstcapitolrm.com)

**Year Established:** 1989

**# of Farm Projects:** 3

**# of Biogas Projects:** 3

First Capitol is a commodity trading and risk management firm that specializes in agricultural, energy and environmental commodities. First Capitol provides its clients with the opportunity to profit by participating in the greenhouse gas emissions trading market. As a registered aggregator of the Chicago Climate Exchange (CCX), First Capitol facilitates the verification, management and trading of carbon offset credits.



## Financing

### Meridian Capital Investments, Inc.

Gino Hellizer  
10220 River Road  
Potomac MD 20854

**Tel:** (301) 983-5000  
**Fax:** (301) 983-9012  
**Email:** info@meridianinvestments.com  
**WebSite:** [www.meridianinvestments.com](http://www.meridianinvestments.com)

**Year Established:** 1988  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 2

Meridian Investments is the largest provider of tax credit equity in America. Since 1992, the company has underwritten over \$8 billion worth of federal tax credits. Meridian Investments has experience in all major federal tax credit programs, including sections 42, 29, and 45. The company provides information on selling credits to clients with plants that currently generate or will be generating a qualifying fuel under section 29 or 45 of the IRC.

### Vermont Energy Investment Corporation

Paul Scheckel  
244 South Champlain St  
Burlington VT 5401

**Tel:** (802) 456-7097  
**Fax:** (802) 658-1643  
**Email:** scheckel@sover.net  
**WebSite:** <http://www.together.net/~veic/>

**Year Established:** 1989  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Vermont Energy Investment Corporation (VEIC) focuses on financing programs related to energy efficiency. VEIC is looking for ways to participate with the state of Vermont's project to initiate a farm-based methane digester program.

## Manufacturer/Distributor of Covers

### COMANCO

Artemas Larry Holmes III  
4301 Sterling Commerce Dr.  
Plant City FL 33566

**Tel:** (813) 988-8829  
**Fax:** (813) 988-8779  
**Email:** lholmes@comanco.com  
**WebSite:** [www.comanco.com](http://www.comanco.com)

**Year Established:** 1989  
**# of Farm Projects:** 25  
**# of Biogas Projects:** 14

COMANCO specializes in the fabrication and installation of geosynthetic membranes associated with covered lagoons and anaerobic digesters in addition to various other waste and wastewater related applications. COMANCO operates from offices located in Florida, California, Louisiana, Nevada and Ohio.

### Dennis Gerber, Consultant

Dennis Gerber  
15870 Rose Avenue  
Los Gatos CA 95030

**Tel:** (408) 395-9020  
**Fax:** (408) 395-9020  
**Email:** dhgerber@comcast.net  
**WebSite:** N/A

**Year Established:** N/A  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Mr. Gerber designs and installs anaerobic digester covers. His Gas Collecting Floating Cover design, which holds a U.S. Patent, is the de-facto standard for flexible membrane anaerobic digesters.



## Manufacturer/Distributor of Covers

### EC Applications, Inc.

Christopher Fore

700 E. Taft Ave, Suite 3

Orange CA 92865

**Tel:** (714) 921-9848

**Fax** (866) 475-1225

**Email** cfore@biogascovers.com

**WebSite** [www.biogascovers.com](http://www.biogascovers.com)

**Year Established:** 2005

**# of Farm Projects:** 12

**# of Biogas Projects:** 2

EC Applications, Inc. (ECA) designs, supplies and installs geosynthetic materials (liners and covers) for use in agriculture biogas projects. With our more than 20 years of experience, ECA will deliver quality, service and value to every project.

### Engineered Textile Products

Carter Damp

P.O. Box 7474

Mobile AL 36670

**Tel:** (800) 222-8001

**Fax** (888) 222-8277

**Email** cdamp2@aol.com

**WebSite** [www.etpinfo.com](http://www.etpinfo.com)

**Year Established:** 1983

**# of Farm Projects:** 13

**# of Biogas Projects:** 20

Engineered Textile Products, Inc. manufactures and distributes lagoon covers. The company manufactured the covers for Martin's Farm, a swine farm with a covered lagoon in South Boston, Virginia, and Palmers Farm, a swine farm with a covered lagoon in Petite Jean Mt., Arkansas.

### Environmental Fabrics, Inc.

Dennis Shanklin

85 Pascon Court

Gaston SC 29053

**Tel:** (803) 551-5700

**Fax** (803) 551-5701

**Email** N/A

**WebSite** [www.environmentalfabrics.com](http://www.environmentalfabrics.com)

**Year Established:** 1997

**# of Farm Projects:** 5

**# of Biogas Projects:** 17

Environmental Fabrics Inc. has manufactured covers for five farms, including: 1) Dowell Ramsey Farm, a swine farm in Nash County, North Carolina; 2) Gold 'N Plump Poultry, a poultry farm in Cold Springs, Minnesota; 3) Pelican Rapids, a farm in Pelican Rapids, Minnesota; 4) Apex Pork, a swine farm in Rio, Illinois; and 5) Barham Farms, a swine farm in Zebulon, North Carolina.

### Firestone Building Products Company

William Johnson

575 Congressional Blvd.

Carmel IN 46032

**Tel:** (800) 428-4442

**Fax** (317) 575-7002

**Email** JohnsonWilliam@firestonebp.com

**WebSite** [www.firestonebpco.com](http://www.firestonebpco.com)

**Year Established:** 1989

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Firestone Building Products Company manufactures a variety of EPDM rubber geosynthetic products For use by agriculture. Firestone can recommend a network of independent installers familiar with agricultural installations and Firestone's products. Firestone Building Products Company can advise customers in the selection of a cost effective selection of EPDM rubber geosynthetic products for a number of agricultural uses including biogas recovery.



## Manufacturer/Distributor of Covers

### Firestone Speciality Products Company

Jeffrey Pankonie  
310 East 96th Street  
Indianapolis IN 46024

**Tel:** (800) 428-4442  
**Fax** (317) 575-7002  
**Email** pankoniejeff@firestonesp.com  
**WebSite** [www.firestonebpc.com](http://www.firestonebpc.com)

**Year Established:** 1987  
**# of Farm Projects:** 20  
**# of Biogas Projects:** 2

Firestone Specialty Products manufactures a variety of EPDM and RPP geosynthetic products used within the agricultural arena. Firestone Specialty Products group has a well established network of independent installers familiar with agricultural applications throughout North America. Firestone geomembranes are engineered to provide dependable performance in a variety of critical containment applications such as livestock pit and ponds, lagoon covers and digester applications.

### GeoPacific Lining

William Wolfe  
1300 Dexter Ave., N. #205  
Seattle WA 98109

**Tel:** (206) 284-2378  
**Fax** (206) 283-7068  
**Email** [geopacific@cesmont.com](mailto:geopacific@cesmont.com)  
**WebSite** [N/A](#)

**Year Established:** 1994  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 2

GeoPacific Lining performs feasibility assessments and consults farms on implementing digester systems, and is in the design phase of developing digesters for 3 farms in the U.S.

### Groth Corporation

Curtis Hanzalik  
13650 N. Promenade Blvd.  
Stafford TX 77477

**Tel:** (281) 295-6800  
**Fax** (281) 295-6999  
**Email** [JHart@Prosyssol.com](mailto:JHart@Prosyssol.com)  
**WebSite** [www.grothcorp.com](http://www.grothcorp.com)

**Year Established:** 1967  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 500+

Manufacturer of Anaerobic Digester Gas Control Equipment--Cover Equipment, Gas Handling/Safety Equipment, Waste Gas Burners/Flares.

### GSE Lining Technology, Inc.

Boyd Ramsey  
19103 Gundle Road  
Houston TX 77073

**Tel:** (800) 435-2008  
**Fax** (281) 230-6739  
**Email** [marketing@gseworld.com](mailto:marketing@gseworld.com)  
**WebSite** [www.gseworld.com](http://www.gseworld.com)

**Year Established:** 1973  
**# of Farm Projects:** 150+  
**# of Biogas Projects:** 25+

Gundle/SLT Environmental, Inc. (GSE) is a leading manufacturer and marketer of geosynthetic lining products and services with a worldwide presence. For over 30 years, people around the world have looked to GSE products to make their projects easier and better. With an expansive line of geomembranes, geosynthetic clay liners, geonets, geocomposites, nonwoven geotextiles, concrete protection, and replicated grass turf products, GSE continues to develop solutions to meet our customers varying project requirements.



## Manufacturer/Distributor of Covers

### Industrial & Environmental Concepts, Inc.

Mike Morgan  
6009 Chapel Drive  
Minneapolis MN 55439

**Tel:** (952) 829-0731  
**Fax** (952) 829-9770  
**Email** mmorgan@ieccovers.com  
**WebSite** [www.ieccovers.com](http://www.ieccovers.com)

**Year Established:** 1989  
**# of Farm Projects:** 8  
**# of Biogas Projects:** 250

Industrial & Environmental Concepts, Inc. (IEC) produces and installs five types of floating modular covers for ponds and tanks. IEC's patented systems utilize a variety of geomembranes to provide cost-effective solutions to control problems with heat loss, odor, algae growth, and gas production in basins, ponds, lagoons, or tanks.

### Layfield Environmental Systems Corporation

1166 Fesler St. Suite B  
El Cajon CA 92020

**Tel:** (619) 562-1200 /  
(800) 377-8404  
**Fax** (619) 562-1150  
**Email** sandiego@layfieldgroup.com  
**WebSite** [www.layfieldgroup.com](http://www.layfieldgroup.com)

**Year Established:** 1978  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Layfield has provided many years of service to Agriculture with pond liners, covers, baffle systems, and many other unique products.

### MPC Containment

Edward Reicin  
4834 South Oakley  
Chicago IL 60609

**Tel:** (773) 927-4120  
**Fax** (773) 650-6028  
**Email** ereic@aol.com  
**WebSite** [www.mpccontainment.com](http://www.mpccontainment.com)

**Year Established:** 1923  
**# of Farm Projects:** 50+  
**# of Biogas Projects:** 20+

MPC Containment designs, fabricates, and installs floating-membrane liner systems, as well as other primary and secondary containment systems. The company also manufactures collapsible storage/pillow tanks for fuel, water, and waste.

### Raven Engineered Films

Greg Anderson  
1812 E Ave.  
Sioux Falls SD 57108

**Tel:** (800) 635-3456  
**Fax** (605) 331-0333  
**Email** greg.anderson@ravenind.com  
**WebSite** <http://www.ravenind.com>

**Year Established:** 1956  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Raven Engineered Films manufactures and fabricates polypropylene covers for agricultural, industrial and construction applications. We also manufacture railcar liners for the removal of hazardous waste from contaminated sites. Raven has distributors in all 50 States, Canada and Mexico as well as Europe and Australia.

### Reef Industries

Lynn Ciolli  
P.O. Box 750250  
Houston TX 77275

**Tel:** (800) 231-2417  
**Fax** (713) 507-4295  
**Email** <http://www.reefindustries.com>  
**WebSite** [N/A](#)

**Year Established:** N/A  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Reef Industries manufactures and distributes covers for biogas systems.



## Manufacturer/Distributor of Covers

### Varec Biogas

Regina M. Hanson  
6101 Ball Rd., Suite 201  
Cypress CA 90630

**Tel:** (714) 220-9924  
**Fax** (714) 952-2701  
**Email** rhanson@varec-biogas.com  
**WebSite** [www.varec-biogas.com](http://www.varec-biogas.com)

**Year Established:** 1930  
**# of Farm Projects:** 30+  
**# of Biogas Projects:** 1000+

Varec Biogas is the world's leading supplier of gas handling and safety equipment to the Biogas Industry with countless installations in municipal and industrial wastewater treatment plants, and sanitary landfills. The wide range of equipment produced by Varec Biogas includes a comprehensive range of digester cover equipment, inline safety and pressure regulation devices, as well as Varec flare systems, which are unsurpassed in their reliability and flexibility. Varec Biogas has been meeting and exceeding the needs of our customers for over 75 years. With our history of innovation and industry leadership, it is no wonder that people turn to Varec Biogas to for the supply of gas safety equipment in on-farm biogas recovery systems.

## Manufacturer/Distributor of Engines

### Capstone Turbine Corporation

Rene M. Flores  
21211 Nordhoff Street  
Chatsworth CA 91311

**Tel:** (818) 734-5300  
**Fax** (818) 734-5385  
**Email** rflores@capstoneturbine.com  
**WebSite** [www.microturbine.com](http://www.microturbine.com)

**Year Established:** 1984  
**# of Farm Projects:** >10  
**# of Biogas Projects:** >50

Capstone manufactures microturbines that can burn biogas with as little as 35 percent methane content. The currently available biogas model is a 30-kW microturbine that was initially offered for natural gas, propane, oil field waste gas, and diesel. During early 2000, a demonstration test program was conducted with Los Angeles County Sanitation Districts at Puente Hills landfill and at Palmdale wastewater treatment plant. Successful testing during 2000 led to commercial operations at 20 biogas facilities, as of March, 2002, using a total of 117 Capstone microturbines. The Capstone microturbine achieves a combustion efficiency of 99.999 percent. The patented premix combustion system is uniquely designed to reduce emissions of NOx, CO, and hydrocarbons to extremely low levels.

### Caterpillar, Inc.

Rob Schueffner  
PO Box 610; AC6109  
Mossville IL 61525

**Tel:** (309) 578-6376  
**Fax** (309) 578-7302  
**Email** schuerd@Cat.com  
**WebSite** [www.cat.com/products/](http://www.cat.com/products/)

**Year Established:** 1928  
**# of Farm Projects:** 200  
**# of Biogas Projects:** 50

For more than 75 years, Caterpillar, Inc. has been building the world's infrastructure. In partnership with Caterpillar dealers, it is driving sustainable change in every continent. A Fortune 100 company, Caterpillar is the world's leading manufacturer of construction and mining equipment, diesel and natural gas engines, and industrial gas turbines. The company is a technological leader in construction, transportation, mining, forestry, energy, logistics, electronics, financing, and electric power generation.

### CEC Consultants

John Puskar  
6907 Brookpark Road  
Cleveland OH 44129

**Tel:** (216) 749-2992  
**Fax** (216) 398-8403  
**Email** cec@apk.net  
**WebSite** <http://www.cec-consultants.com>

**Year Established:** 1986  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 4

CEC is a distributor for Jasper's alternative fuel automotive derivative packaged engine systems. CEC distributed the engine for 2 farm-scale biogas projects.



## Manufacturer/Distributor of Engines

### CGP Resources, LLC

Peter J. Gallegos  
4705 Tile Line Road  
Crystal Lake IL 60012

**Tel:** (815) 479-9329  
**Fax** (815) 477-9681  
**Email** gallegospeter@sbcglobal.net  
**WebSite** [www.tedom.com](http://www.tedom.com)

**Year Established:** 1991  
**# of Farm Projects:** 33  
**# of Biogas Projects:** 80

Production of gas generator sets and cogeneration based on combustion engines. Manufacture of combustion engines for stationary application for natural gas and biogas.

### Charles Equipment Company

Bob Conway  
P.O. Box 388  
Addison IL 60101

**Tel:** (630) 834-6000  
**Fax** (630) 543-4174  
**Email** bob.conway@charlesequipment.com  
**WebSite** [www.charlesequipment.com](http://www.charlesequipment.com)

**Year Established:** 1960  
**# of Farm Projects:** 8  
**# of Biogas Projects:** 100+

Charles Equipment Company supplies engines, generator sets, controls, switches and switchgear, and cooling systems for LFGE projects. It also provides custom design services and furnishes operating cost studies, layouts, and specifications.

### Coffman Electrical Equipment

Greg Mulder  
3300 Jefferson SE  
Grand Rapids MI 49548

**Tel:** (616) 452-8708  
**Fax** (616) 452-1337  
**Email** gmulder@steadypower.com  
**WebSite** <http://www.steadypower.com>

**Year Established:** 1947  
**# of Farm Projects:** 7  
**# of Biogas Projects:** 7

We are a distributor of a Variety of Biogas Generators and Micro-turbines. We are also work as a consultant in directing you to best possible digester design for maximum generation capability. We also offer a variety of gas scrubbing and material Drying systems.

### Coffman Geosciences

Laura E. Coffman, R.G.  
2050 East Wayland  
Springfield MO 65804

**Tel:** (615) 594-8657  
**Fax** N/A  
**Email** lec56mail-GC@yahoo.com  
**WebSite** [N/A](#)

**Year Established:** 2002  
**# of Farm Projects:** 3  
**# of Biogas Projects:** 4

Coffman Geosciences provides renewable energy consulting services to agricultural producers, food processors, ethanol developers and other producers of organic waste streams. CG has also patented a novel method for media placement in high-rate, suspended growth anaerobic digestion systems. CG also offers small scale, containerized AD systems to waste producers with smaller operations. Other services offered include AD feasibility studies, system planning and project management.

### Curtis Engine & Equipment, Inc.

Tony Jannotta  
3920 Vero Road, Suite 1  
Baltimore MD 21227-1516

**Tel:** (240) 472-7766  
**Fax** (240) 209-0776  
**Email** ajannotta@curtisengine.com  
**WebSite** [www.curtisengine.com](http://www.curtisengine.com)

**Year Established:** 1946  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 8

We sell, service, and maintain bio-gas reciprocating engines; and we develop bio-gas projects on a turn-key basis.



## Manufacturer/Distributor of Engines

### Energy and Power Solutions

Shiva Subramanya  
150 Paularino Avenue  
Costa Mesa CA 92626

**Tel:** (914) 957-1087  
**Fax** (914) 957-1093  
**Email** shivas@energynpower.com  
**WebSite** [www.energynpower.com](http://www.energynpower.com)

**Year Established:** 2001  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Design, construction, installation, financing, operation and maintenance of cogeneration systems. EPS delivers financially compelling solutions to complex energy and power issues. We work with the customer to develop, understand and manage their energy costs and profile. EPS skills in each key element of the total energy picture: energy pricing, delivery and finance; intelligent project development; experienced project installation and commissioning; and comprehensive operations and maintenance, enable us to present a complete energy solution.

### FlexEnergy, Inc.

Edan Prabhu  
22922 Tiagua  
Mission Viejo CA 92692

**Tel:** (949) 380-4899  
**Fax** (949) 380-8407  
**Email** edanprabhu@cox.net  
**WebSite** [www.flexenergy.com](http://www.flexenergy.com)

**Year Established:** 2001  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 5

FlexEnergy is developing the Flex-Microturbine® to expand the range of biomass-derived gases that can be converted to electricity. Proof-of-concept testing was successful, and several prototype units are currently being built for testing on dairy digester gas, landfill gas, and producer gas from wood and nutshell gasification. Flex-Microturbine accepts gases at atmospheric pressure. This technology will be commercially available in two years.

### GE Jenbacher

Garrett Smith, P.E.  
499 Nibus Street, Unit B  
Brea CA 92821

**Tel:** (503) 203-2695  
**Fax** (866) 417-7513  
**Email** gsmith@weesys.com  
**WebSite** [N/A](#)

**Year Established:** 1892  
**# of Farm Projects:** 150+  
**# of Biogas Projects:** 250+

GE Jenbacher is a manufacturer of high efficiency reciprocating engine generators in the 300kW to 3000kW range with a wide range of solutions for biogas technologies including a complete containerized package.

### Ingersoll Rand

Holly Emerson  
800A Beaty Street  
Davidson NC 28036

**Tel:** (704) 655-4051  
**Fax** (704) 655-4327  
**Email** holly\_emerson@irco.com  
**WebSite** <http://energy.ingersollrand.com>

**Year Established:** 1873  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Ingersoll-Rand EcoWorks microturbine systems turn digester gas into economical electricity and useful hot water. These compact, integrated cogeneration packages substantially reduce NOx emissions and odors associated with flaring. IR's unique solution includes a fuel conditioner to compress and clean the biogas for reliable long-term operation at very low O&M costs.



## Manufacturer/Distributor of Engines

### Inland Power Group

Jon Going  
210 Alexandra Way  
Carol Stream IL 60197-5942

**Tel:** (262) 285-5562  
**Fax:**  
**Email:** [jgoing@inlandpowergroup.com](mailto:jgoing@inlandpowergroup.com)  
**WebSite:** [www.inlandpowergroup.com](http://www.inlandpowergroup.com)

**Year Established:** 1958  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 20

Inland Power Group is the Midwest Distributor of GE Jenbacher gas engines. Jenbacher products, ranging from 330 kW to 3 MWe, are highly developed and tested, and well matched to each customer's specific requirements. Our scope of delivery comprises generator sets for on-site power generation and cogeneration systems for decentralized power and heat supply. Both power systems are also available as fully containerized plants for maximum flexibility.

### Kraft Power

Tom Rodgers  
519 W. Second Street  
Gaylord MI 49735

**Tel:** (866) 713-2152  
**Fax:** (989) 748-4042  
**Email:** [trodgers@kraftpower.com](mailto:trodgers@kraftpower.com)  
**WebSite:** [www.kraftpower.com](http://www.kraftpower.com)

**Year Established:** 1965  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 48

Industrial Engine & Power Generation Sales & Service. Waukesha Engine Distributor.

### Martin Machinery, LLC

Marcus R. Martin  
39425 Excelsior Drive  
Latham MO 65050

**Tel:** (660) 458-7000  
**Fax:** (660) 458-7100  
**Email:** [mmartin@martinmachinery.com](mailto:mmartin@martinmachinery.com)  
**WebSite:** [N/A](#)

**Year Established:** 1977  
**# of Farm Projects:** 35  
**# of Biogas Projects:** 37

Martin Machinery first entered the biogas industry in 1982 with the design and construction of 850-kW switch gear to parallel an induction generator to the utility. Additionally, the company supplies electric biogas generator systems 50 to over 1,000 kw. In 2004 Martin Machinery started the company GEN-TEC LLC to build Utility Paralleling gear and the Custom Designed Paralleling Switch Gear. The company currently custom designs new and rebuilt electric generator systems to operate using biogas. It also services biogas units powered by engines with 460-cubic-inch to 7,040-cubic-inch engine blocks.

### Nixon Energy Solutions

Leo LeBlanc  
14300 South Lakes Dr.  
Charlotte NC 28273

**Tel:** (704) 588-1043  
**Fax:** (704) 588-8373  
**Email:** [lleblanc@nixonpower.com](mailto:lleblanc@nixonpower.com)  
**WebSite:** [www.nixonpower.com](http://www.nixonpower.com)

**Year Established:** 1945  
**# of Farm Projects:** 5  
**# of Biogas Projects:** 10

Nixon Energy Solutions is the exclusive distributor for GE Jenbacher power generation equipment and services in the Southeastern and Mid-Atlantic U.S. From totally turnkey to selectively customize, Nixon Energy Solutions specializes in making the most of every Methane-to-Energy opportunity. Unsurpassed resources, experience and integrity have helped Nixon set the gold standard in power generation equipment and service for more than 50 years. Let us show you the Green Power potential in your landfill.



## Manufacturer/Distributor of Engines

### Northeast Energy Systems

Fred Farrand  
8330 State Road  
Philadelphia PA 19136

**Tel:** (215) 335-5010  
**Fax** (215) 335-2163  
**Email** ffarrand@neesys.com  
**WebSite** [www.neesys.com](http://www.neesys.com)

**Year Established:** 1994  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 16

Northeast Energy Systems is GE Energy's authorized distributors for Jenbacher gas engine systems throughout the northeastern United States and the Caribbean region. Focused exclusively on gaseous fueled engine and power generation systems, NES provides comprehensive application, sales engineering, systems integration and parts and service capabilities.

### Reflective Energies

Eden Prabhu  
22922 Tiagua  
Mission Viejo CA 92692

**Tel:** (949) 380-4899  
**Fax** (949) 380-8407  
**Email** edanprabhu@msn.com  
**WebSite** [N/A](#)

**Year Established:** 1999  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Reflective Energies is developing a Flex-Microturbine (TM) that will improve the conversion of biogas to electricity. The technology will be available commercially in 2 years.

### SDP Energy, LLC

Hank Leibowitz  
5031 Birch Street, Suite J  
Newport Beach CA 92660

**Tel:** (925) 498-2501  
**Fax** (925) 498-2520  
**Email** hleibowitz@sdpenergy.com  
**WebSite** [www.sdpenergy.com](http://www.sdpenergy.com)

**Year Established:** 2005  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 2

Turnkey supplier of Biogas cogeneration systems based on MAN reciprocating engines. Package includes fully enclosed cabinet and hot water system for the anerobic digester or other uses.

### TEDOM s.r.o.,

Lubos Nedvedicky  
Vycapy 195, Trebic 674 01  
Czech Republic CZ

**Tel:** 00420-568-837-111  
**Fax** 00420-568-837-100  
**Email** nedvedicky@tedom.cz  
**WebSite** [www.tedom.eu](http://www.tedom.eu)

**Year Established:** 1991  
**# of Farm Projects:** 33  
**# of Biogas Projects:** 80

Production of gas generator sets and cogeneration based on combustion engines. Manufacture of combustion engines for stationary application for natural gas and biogas.

### US Energy Services (USES)

Jeff Sarrett  
8245 E. Bell Road, Suite #132  
Scottsdale AZ 85260

**Tel:** (480) 661-1534  
**Fax** (480) 452-0238  
**Email** jsarrett@usenergyservices.net  
**WebSite** [N/A](#)

**Year Established:** 1999  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 5

US Energy Services (USES) provides design/build services for the construction of and/or ownership of clean energy power generation systems. The industries served include, but are not limited to landfill gas, waste water treatment facilities, agriculture and live stock entities, and food waste. Our design/build projects typically combined the design and construction process into a single contract, which results in better Client control, expedited construction, reduced costs and faster return on investment. For our build-own-operate projects this allows USES to reduce its internal construction cost which in turn enhances the "no out-of-pocket" program by supplying energy at a reduced cost to our Client.



## Manufacturer/Distributor of Engines

### Valley Power Products, Inc.

Robert A. Nehlsen Jr.  
17192 Daimler St  
Irvine CA 92614

**Tel:** (800) 254-4557  
**Fax** (949) 221-8185  
**Email** Robert.Nehlsen@valleypsi.com  
**WebSite** [www.valleypowersystems.com](http://www.valleypowersystems.com)

**Year Established:** 1963  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Valley Power Products is the West Coast distributor for GE Jenbacher and provides product sales, technical support and parts and service from multiple locations in California. As a distributor for GE Jenbacher, Valley Power Products employs factory trained applications, sales and service engineers. Our extensive parts inventory ensures that parts are available locally when they are required. Additional support, such as dial-out/paging services, remote monitoring and performance analysis, set Valley apart from other suppliers and distributors.

### Western Energy Systems

Steve Hall / Garrett Smith  
499 Nibus Street, Unit B  
Brea CA 92821

**Tel:** (714) 529-9700  
**Fax** (714) 529-9700  
**Email** shall@weesys.com  
**WebSite** [www.weesys.com](http://www.weesys.com)

**Year Established:** 1994  
**# of Farm Projects:** 2  
**# of Biogas Projects:** 16

Western Energy Systems is GE Energy's authorized distributors for GE/Jenbacher gas engine systems throughout California, Oregon, Alaska, and Hawaii. Focused exclusively on gaseous fueled engine and power generation systems, NES provides comprehensive application, engineering, systems integration, maintenance, and parts and service capabilities.

## Manufacturer/Distributor of System Components

### Clear Water Technologies, Inc.

Tim France  
7800 Main Street  
Minneapolis MN 55432

**Tel:** (763) 783-7344  
**Fax** (763) 571-3372  
**Email** admin@CWTIUSA.com  
**WebSite** [www.CWTIUSA.COM](http://www.CWTIUSA.COM)

**Year Established:** 1986  
**# of Farm Projects:** 3  
**# of Biogas Projects:** 4

Provides a patented process which eliminates the hydrogen sulfide while increasing the methane generated in the anaerobic digester. The process also reduces the amount of sludge.

### Conserval Systems, Inc.

Bob Rose  
4242 Ridge Lea Road ,unit 28  
Buffalo NY 14226

**Tel:** (716) 835-4903  
**Fax** (716) 835-4904  
**Email** infowallusa@solarwall.com  
**WebSite** [www.solardrying.com](http://www.solardrying.com)

**Year Established:** 1990  
**# of Farm Projects:** 50  
**# of Biogas Projects:** 2

Conserval produces a solar drying system to dry manure. The Solarwall panels heat air which is passed over the manure removing the moisture. Dried manure can then be sold as a fertilizer.



## Manufacturer/Distributor of System Components

### Dresser ROOTS

Jim Wolford  
16240 Port Northwest Drive  
Houston TX 77041

**Tel:** (832) 590-2406  
**Fax** (832) 590-2326  
**Email** roots@dresser.com  
**WebSite** [www.rootsblower.com](http://www.rootsblower.com)

**Year Established:** 1850  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Dresser ROOTS is a global supplier of rotary positive and centrifugal blowers and systems, operating two manufacturing locations, with factory authorized service locations worldwide. Dresser ROOTS produces air and gas moving equipment for a multitude of industries.

### FCI Fluid Components International

Randall J. Brown  
1755 La Costa Meadows Dr.  
San Marcos CA 92078

**Tel:** (760) 744-6950  
**Fax** (760) 736-6250  
**Email** randyb@fluidcomponents.com  
**WebSite** [www.fluidcomponents.com](http://www.fluidcomponents.com)

**Year Established:** 1964  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Leading manufacturer of gas flow meters for digester gases, bio-gas, and all fuel gases for applications in Wastewater Treatment facilities, Landfills, farm waste-to-energy, ag-to-energy, etc.

### Gas Technology Products

John Perry Dickson  
846 East Algonquin Road - A100  
Schaumburg IL 60173

**Tel:** (847) 285-3873  
**Fax** (847) 285-3888  
**Email** JPD@merichem.com  
**WebSite** [www.gtp-merichem.com](http://www.gtp-merichem.com)

**Year Established:** 1978  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 42

LO-CAT is an H<sub>2</sub>S removal technology, where we use liquid iron redox to reduce hydrogen sulfide from gas streams (some as high as 99%), to pipeline specification (less than 1 ppm in some instances). This process is safe, uses non-toxic chemistries, proven (we have over 170 units worldwide), and very cost-effective (LO-CAT removal of H<sub>2</sub>S generally costs between \$0.10 to \$0.15 per pound of sulfur recovered), and is probably most effective in the 500 pound per day to 20 long tons per day (of sulfur recovered). We have several operating LO-CAT units in biogas environments, as well as in odor control (in similar environments). We do have solid media technologies in our possession (similar to iron sponge), but the economics of LO-CAT generally far outweigh these types of processes (in most cases). In addition to LO-CAT, we are in the final process of coming out with a technology called mini-CAT (which will target applications with less than 500 pounds per day of sulfur), which is based upon LO-CAT technology, but on a much simpler, smaller scale. This technology will operate with the same success of LO-CAT, at a sulfur recovery cost of approximately \$0.35 to \$0.45 per pound of sulfur recovered (the higher cost is due to different solid sulfur filtering technologies, which makes for a "wetter" cake in mini-CAT, and therefore, a relatively higher chemical demand rate). This cost level is still very much less than aerobic iron sponge, which generally operates at levels of \$1.15 to \$1.25 per pound of sulfur recovered. By the way, when we talk about sulfur recovery...the sulfur that is formed in the LO-CAT or mini-CAT process is solid, elemental sulfur, that is very suitable as an agricultural adjunct. We are truly a "green" technology, as we remove a toxin from the air, promoting the removal of a harmful greenhouse gas (methane), in a completely safe environment, producing a product that is very desired by the agricultural industry. In addition to sulfur removal, we have several other unique gas processing technologies.

### Guild Associates, Inc.

Mike Mitariten  
5750 Shier-Rings Road  
Dublin OH 43016

**Tel:** (908) 752-6420  
**Fax** (614) 798-1972  
**Email** mike@moleculargate.com  
**WebSite** [www.moleculargate.com](http://www.moleculargate.com)

**Year Established:** 1980  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 3

Guild has several projects operating and offers the Molecular Gate PSA technology for the removal of water, CO<sub>2</sub> and H<sub>2</sub>S from biogas.



## Manufacturer/Distributor of System Components

### Innovative Environmental Products

Frank Miller	<b>Tel:</b> (585) 346-3789	<b>Year Established:</b> 2001
28 Main Street, PO Box 72	<b>Fax</b> (585) 346-9061	<b># of Farm Projects:</b> N/A
Livonia NY 14487	<b>Email</b> FCMiller-leP@rochester.rr.com	<b># of Biogas Projects:</b> N/A
	<b>WebSite</b> <a href="http://iepworld.com">iepworld.com</a>	

Innovative Environmental Products provides a patented process for the capture and control of manure nutrients in liquid manure pre or post digestion. The can achieve remarkable manure nutrient and solids reduction. Levels of removal of constituents from the manure in the filtrate: Phosphate – 98+% reduction; Organic Nitrogen – 90% reduction; Fecal Matter – 99% reduction; and Manure Solids – >95% reduction.

### Kompogas AG

W. Schmid	<b>Tel:</b> (411) 809-7100	<b>Year Established:</b> 1991
Rohrstrasse 36	<b>Fax</b> (411) 809-7110	<b># of Farm Projects:</b> 3
Glattbrugg CH-8152	<b>Email</b> info@kompogas.ch	<b># of Biogas Projects:</b> 30
	<b>WebSite</b> <a href="http://www.kompogas.ch">www.kompogas.ch</a>	

Kompogas AG has developed an anaerobic process for the fermentation of biogenous yard and kitchen waste combined with energy production. Waste recycling using the Kompogas process offers numerous advantages. The end products obtained from the process include CO2-neutral renewable energy (biogas), as well as high-quality compost and liquid fertilizer. The biogas recovered provides energy in the form of heat, electric power, and vehicle fuel.

### LANDTEC

Michael Hardison	<b>Tel:</b> (909) 783-3636	<b>Year Established:</b> 1982
850 S. Via Lata, Suite 112	<b>Fax</b> (909) 825-0591	<b># of Farm Projects:</b> N/A
Colton CA 92324	<b>Email</b> mhardison@ces-landtec.com	<b># of Biogas Projects:</b> 100+
	<b>WebSite</b> <a href="http://www.ces-landtec.com">www.ces-landtec.com</a>	

LANDTEC is a leading provider of monitoring systems for renewable energy and Green House Gas (GHG) reduction validation. LANDTEC designs & manufactures instruments, software and products for landfill gas extraction, biogas digesters and other Methane recovery projects. A certified ISO 9001:2000 company, The LANDTEC System includes; GEM portable gas analyzers, Accu-Flo wellheads, AEMS stationary monitoring systems, and the EnviroComp Report Service.

### MWH Energy Solutions

Stephen Chippas	<b>Tel:</b> (630) 836-8977	<b>Year Established:</b> 2001
27755 Diehl Road	<b>Fax</b> (630) 836-8959	<b># of Farm Projects:</b> 1
Warrenville IL 60555	<b>Email</b> EnergySolutions@mwhglobal.com	<b># of Biogas Projects:</b> 5
	<b>WebSite</b> <a href="http://www.mwhglobal.com">www.mwhglobal.com</a>	

MWH Energy Solutions has extensive experience in the recovery, cleaning, and combustion of biogas. This expertise includes wastewater treatment plants, landfills, and agricultural applications. MWH can provide complete turnkey services including planning, design, procurement, construction, financing, and O&M services.



## Manufacturer/Distributor of System Components

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### Northern Lake Service, Inc.

Mal Gross  
400 North Lake Avenue  
Crandon WI 54520-1298

**Tel:** (800) 278-1254  
**Fax** (715) 478-3060  
**Email** salesnls@nlslab.com  
**WebSite** [www.nlslab.com](http://www.nlslab.com)

**Year Established:** 1974  
**# of Farm Projects:** 4  
**# of Biogas Projects:** 2

Certified environmental analytical laboratory offering analyses of manure and wastewater samples for chemical and biological constituents.

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### Norton Environmental Equipment, Ltd.

Steven Viny  
6200 Rockside Woods Blvd.  
Independence OH 44131

**Tel:** (216) 447-0070  
**Fax** N/A  
**Email** sviny@daladgroup.com  
**WebSite** [N/A](#)

**Year Established:** 2000  
**# of Farm Projects:** NA  
**# of Biogas Projects:** NA

Norton Environmental Equipment Company, Ltd. is the exclusive distributor for Komptech composting equipment in North America. Komptech's BFSC system is for digesting on-farm waste, including compost production and gas recovery. Several such systems have been installed and are operating successfully in Europe.

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### Pro-Act Microbial, Inc.

Bill Donohue  
P.O. Box 345  
Warren RI 02885

**Tel:** (800) 772-3775  
**Fax** (401) 633-6270  
**Email** ChristaG@ProActMicrobial.com  
**WebSite** [www.ProActMicrobial.com](http://www.ProActMicrobial.com)

**Year Established:** 1999  
**# of Farm Projects:** 100+  
**# of Biogas Projects:** N/A

Pro-Act Microbial, the leading supplier of bio-augmentation products, provides highly effective waste treatment systems for the concentrated animal feeding operation (CAFO) and the aquaculture industry.

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### Proteus Texas Power

Ken Kelley  
8101 SW 34th Avenue  
Amarillo TX 79121

**Tel:** (806) 354-4970  
**Fax** (806) 354-4997  
**Email** kkelley@jbkweb.com  
**WebSite** [www.jbkweb.com](http://www.jbkweb.com)

**Year Established:** 1993  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 2

Experts in natural gas transportation, marketing, project development.

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### QuestAir Technologies

6961 Russell Ave  
Burnaby BC V5J 4R8

**Tel:** (604) 454-1134  
**Fax** (604) 454-1137  
**Email** info@questairinc.com  
**WebSite** [N/A](#)

**Year Established:** 1996  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

QuestAir is an emerging developer and supplier of advanced gas purification systems. The QuestAir™ M-3100 offers a low-cost solution for upgrading landfill gas, anaerobic digester gas and other sources of 'biogas' to either pipeline- or LNG-grade methane. The M-3100 can also be used to increase the Btu value of landfill gas for power generation. The M-3100 is currently available in a range of capacities up to 4,000 NCMH (product methane flow).

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## Manufacturer/Distributor of System Components

### Siemens Building Technologies, Inc.

Patrick Weller

10775 Business Center Drive

Cypress CA 90630

**Tel:** (714) 816-1442

**Fax** (714) 252-1327

**Email** patrick.weller@siemens.com

**WebSite** [www.siemens.com/buildingtechnologies](http://www.siemens.com/buildingtechnologies)

**Year Established:** 1891

**# of Farm Projects:** N/A

**# of Biogas Projects:** N/A

Siemens' track record for delivery on performance guarantees is unparalleled across the United States. For more than 150 years, Siemens has built a culture of long-term commitment to customers through new ideas and technologies. Today, Siemens provides Biogas Digester Generation solutions, where our foremost objective is to develop environmentally friendly, world-class process control and power management systems. We manufacture fuel cells, power generation systems, gas holder systems, and SCADA technology. USFilter, a Siemens Company delivers cost-effective, reliable water and wastewater treatment systems and services using the most advanced anaerobic treatment technology.

### Stewart Engineered Equipment Co., Inc.

Dave Stewart

16111 Warmington Lane

Huntington Beach CA 92649

**Tel:** (714) 840-0075

**Fax** (714) 840-9019

**Email** dste170442@aol.com

**WebSite** [wed site being built](#)

**Year Established:** 2000

**# of Farm Projects:** 2

**# of Biogas Projects:** 20

Engineer, design, manufacture, and service biogas gas compression and conditioning systems. System designs for engines, microturbines, gas turbines, fuel cells, and other processes. Equipment includes: blowers or compressors, liquid separators, chillers, heat exchangers, coalescing filters. All the equipment is mounted on a skid base with all electrical, controls and piping. Complete systems test are done in the shop before shipment. We are the nations leader in providing gas compression and conditioning systems for microturbines and fuel cells on biogas. Gas conditioning includes H<sub>2</sub>S and siloxane removal.

### Vaughan Company, Inc.

Mike Panther

364 Monte-Elma Road

Montesano WA 98563

**Tel:** (360) 249-4042

**Fax** (360) 249-6155

**Email** mpanther@chopperpumps.com

**WebSite** [www.chopperpumps.com](http://www.chopperpumps.com)

**Year Established:** 1956

**# of Farm Projects:** 1000

**# of Biogas Projects:** 2000

Vaughan Company, Inc. designs and builds complete mixing systems for methane digesters and sludge-storage tanks. Vaughan Company, Inc. also manufactures a complete line of heavy-duty chopper pumps.

## Manufacturer/Distributor of Tanks

### Agrimass Enviro-Energy Inc.

Dan Costa

2500 E. Tulare Ave.

Tulare CA 93274

**Tel:** (559) 687-3306

**Fax** (559) 687-3305

**Email** dancosta@agrimassenviroenergy.co

**WebSite** [N/A](#)

**Year Established:** 2002

**# of Farm Projects:** 12

**# of Biogas Projects:** 3

Provide integrated energy and environmental systems to dairy farms.



## Manufacturer/Distributor of Tanks

### Engineered Storage Products Company

Dick Nelles  
345 Harvestore Drive  
DeKalb IL 60115

**Tel:** (815) 756-1551  
**Fax** (815) 756-1659  
**Email** [dnelles@engstorage.com](mailto:dnelles@engstorage.com)  
**WebSite** [www.slurrystore.com](http://www.slurrystore.com)

**Year Established:** 1945  
**# of Farm Projects:** 17  
**# of Biogas Projects:** 53

Engineered Storage Products Company manufactures glass fused to steel tanks and pressurized roofs used in methane digester applications. Tanks are installed and serviced by authorized dealers.

### Industrial Solutions, USA

Kirk E. Jeffries  
5115 S. Rolling Green Ave., Ste #211  
Sioux Falls SD 57108

**Tel:** (605) 274-9295  
**Fax** (605) 275-0072  
**Email** [kjeffries@industrialsolutionsusa.com](mailto:kjeffries@industrialsolutionsusa.com)  
**WebSite** [www.industrialsolutionsusa.com](http://www.industrialsolutionsusa.com)

**Year Established:** 2004  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** N/A

Industrial Solutions USA provides thick 100% solids sprayed on monolithic corrosion resistant, abrasion/impact resistant, chemical resistant, anti-static, antimicrobial linings. Our linings can be sprayed over geotextile, concrete, steel, wood or any other substrate to form an impervious primary and/or secondary lining containment system. The lining is tack free in one minute and can be pigmented any color. Our linings are EPA-SPCC compliant Title 40, Part 112.

## Publishers

### BioCycle Magazine

Jerry Goldstein  
419 State Avenue  
Emmaus PA 18049

**Tel:** (610) 967-4135  
**Fax** (610) 967-1345  
**Email** [biocycle@jgpress.com](mailto:biocycle@jgpress.com)  
**WebSite** [www.biocycle.net](http://www.biocycle.net)

**Year Established:** 1975

Published since 1960, BioCycle, Journal for advancing composting, organics recycling and renewable energy is recognized as the foremost magazine on turning municipal, industrial and agricultural wastes into valuable end products including renewable energy, soil conditioners, and compost. Editorial reports on anaerobic digestion, methane recovery, large-scale composting, community digesters, regulations, research, and process control.



## Universities

### Cornell University, Workplace Health & Safety Program

Nellie J. Brown, MS, CIH, Director  
300 Day Hall  
Ithaca NY 14853

**Tel:** (716) 852-1444  
**Fax** (716) 852-3802  
**Email** [njb7@cornell.edu](mailto:njb7@cornell.edu)  
**WebSite** [www.manuremanagement.cornell.edu](http://www.manuremanagement.cornell.edu)

**Year Established:** N/A  
**# of Farm Projects:** N/A  
**# of Biogas Projects:** 4

The Workplace Health and Safety Program provides technically-based training and technical assistance services to assist management, labor, and medical and legal professionals in putting scientific and technical information to practical use in resolving work environment problems. We provide public and on-site courses and workshops for management, labor unions, and the public, serving approximately 2500 students per year with instruction. An even greater number of people are potentially reached through technical assistance. Examples of technical assistance services available are: on-site hazard evaluation including job hazard analysis, process failure analysis, overall workplace vulnerability assessments, and indoor air investigations; guidance for medical surveillance and periodic screenings; assistance in selection of engineering controls, administrative controls, protective clothing or equipment; and assistance in product or process substitution to reduce workplace hazards. The Program publishes health hazard manuals, fact sheets, and technical articles. Both training and technical assistance services are available on the safety and hazard assessment of farm digesters, including the manure handling system, anaerobic digester, and biogas handling system. Two hazard assessment documents developed for digester systems are available at the Cornell University Manure Management Program website:  
<http://www.manuremanagement.cornell.edu/HTMLs/Safety.htm>

### University of Florida, Soil and Water Science Department

Dr. Ann C. Wilkie  
P.O. Box 110960 University of Florida - IFAS  
Gainesville FL 32611-0960

**Tel:** 352-392-8699  
**Fax** 352-392-7008  
**Email** [acwilkie@ufl.edu](mailto:acwilkie@ufl.edu)  
**WebSite** <http://biogas.ifas.ufl.edu>

**Year Established:** N/A  
**# of Farm Projects:** 1  
**# of Biogas Projects:** 1

Dr. Ann C. Wilkie is a Professor in the Soil and Water Science Department at the University of Florida-Institute of Food and Agricultural Sciences. Her specialty is environmental biotechnology, with particular emphasis on anaerobic microbiology and biomass to biofuel conversion. She has conducted extensive research on the practical application of anaerobic digestion for waste treatment and renewable energy production from biomass and organic residues. Dr. Wilkie is an internationally recognized expert in biogas technology and the inventor of US Patent No. 6,811,701, Fixed-Film Anaerobic Digestion of Flushed Manure. Her fixed-film anaerobic digester system design has been operating continuously at the University of Florida's Dairy Research Unit since 2000 to treat flushed dairy manure, control odors, and produce biogas for on-farm use. Dr. Wilkie's major research interests include: livestock waste management technology for odor control, bioenergy production, nutrient recovery and water quality improvement; biogas generation from bioethanol and biodiesel by-products; biomass conversion/utilization for renewable energy generation; the investigation of microbial and environmental factors influencing biodegradation; and the development of practical approaches to bioremediation and agricultural/industrial waste treatment. She is a frequent guest speaker at national and international conferences dealing with biofuels, climate change and sustainability issues.