

AGSTAR INDUSTRY DIRECTORY 2014



March 2014



INDUSTRY DIRECTORY FOR ON-FARM BIOGAS RECOVERY SYSTEMS

The AgSTAR Program produces this Industry Directory to assist livestock producers and others involved in 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 a biogas recovery system, we recommend that you use the Industry Directory in combination with the AgSTAR Handbook (available on the AgSTAR website at 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 other 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 Industry Directory is not all inclusive. We will update the Industry 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 Industry Directory, or are currently on the list and want to update any information, please visit:

www.epa.gov/agstar/contact.html.

The information in this Directory was provided by the listed organizations, and EPA does not guarantee the accuracy of the information. Inclusion in this Directory does not imply endorsement of any listed organization. All users of this Directory should employ due diligence before entering into a contract with any of the listed organizations.

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Commodity Organizations

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: www.bestagrimarketing.com

Year Established: 1992
of Farm Projects: N/A
of Biogas Projects: N/A

Best Agri-Marketing, Inc. is a bulk cattle feed merchandising company with interests in environmental issues, and biogas projects. It also maintains a resolution department for patrons.

Dairy Quality Center

Keith Carlson
801 Shakespeare Avenue
Stratford, IA 50249

Tel: (515) 838-2793
Fax: (515) 838-2788
Email: dqc@agri-ed.com
Website: www.agri-ed.com

Year Established: 1994
of Farm Projects: N/A
of Biogas Projects: N/A

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

Devlar Energy Marketing, LLC

David DeVooght
384 Inverness Pkwy
Suite 150
Englewood, CO 80112

Tel: (303) 683-4242
Fax: N/A
Email: david@devlar.com
Website: www.devlar.com

Year Established: 2005
of Farm Projects: N/A
of Biogas Projects: 1

Devlar Energy Marketing, LLC (Devlar) buys and sells physical natural gas and crude oil nationwide with a focus in the Rocky Mountain West. Devlar can assist biogas developers and purchasers with all their gas transport needs. Specifically, Devlar can transport upgraded biogas from farm to end user nationwide. Devlar's gas transport capabilities can minimize biogas transportation costs.

Missouri Pork Producers Association

Don Nikodim
6235 W. Cunningham Drive
Columbia, MO 65202

Tel: (573) 445-8375
Fax: (573) 446-2398
Email: Pork@mopork.com
Website: www.mopork.com

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

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

South Shore Clean Cities

Carl Lisek
9800 Connecticut Drive
Crown Point, IN 46307

Tel: (219) 644-3690
Fax: N/A
Email: clisek@southshorecleancities.org
Website: www.southshorecleancities.org

Year Established: 1997
of Farm Projects: 3
of Biogas Projects: 3

South Shore Clean Cities is a U.S. Department of Energy nonprofit that promotes alternative fuels. It is also a Smartway Affiliate.



Consultants

Acterra Group, Inc.

Tad Cooper
P.O. Box 160
Marion, IA 52302

Tel: (800) 289-7371
Fax: (319) 377-0075
Email: tad@acterragroup.com
Website: www.acterragroup.com

Year Established: 1958
of Farm Projects: 1
of Biogas Projects: 3

Acterra Group, Inc. provides consulting and construction services to the biogas industry.

Advance Design Consultants, Inc.

Renato O'Neal 998 Park
Avenue
San Jose, CA 95126

Tel: (408) 297-1881
Fax: (408) 294-3186
Email: renato@adcengineers.com
Website: www.adcengineers.com

Year Established: 1984
of Farm Projects: N/A
of Biogas Projects: 5

Advance Design Consultants, Inc. (ADC) is a leader in meticulous design and engineering for the public and private sectors. Their dedication to creative problem solving and exemplary client service using "Advance" Technology makes them a trusted and repeated partner to its clients. Their attention to details shows in the fact that they have less than 1% in construction change orders. Since 1984, ADC has been providing not only engineering and detail designs, but quality facility surveys, preparation of studies, permitting process cost estimates, and construction support services. ADC engineers are dedicated to providing the very best design solutions from initial design to final completion to fulfill your company's needs.

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

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

Agricultural Engineering Associates, Inc. is a broad based engineering firm with four decades of national and international experience. Its focus is on systems integration, sand separation, manure solids separation, and processing. The company has a USDA qualified technical service provided systems design and uses Comprehensive Nutrient Management Plans (CNMP).

Agriment Services, Inc.

Geno Kennedy
P.O. Box 1096
Beulaville, NC 28518

Tel: (252) 568-2648
Fax: (252) 568-2750
Email: agrimentservices@yahoo.com
Website: www.agrimentservices.com

Year Established: 1994
of Farm Projects: N/A
of Biogas Projects: N/A

Agriment Services, Inc. was founded in 1994 to administer technical assistance to producers as they cope with transition regarding the regulatory process. As a waste management consulting firm Agriment Services is prepared to confront transitions related to the needs of producers. Since the inception of the company, Agriment Services has assisted hundreds of swine and poultry producers throughout the Midwest, North Carolina, and Virginia, with one common goal in mind, "Remaining in Compliance." Agriment Services has over 16 years of experience in the field of animal waste management and is on the cutting edge of animal waste management systems.

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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

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

Agri-Waste Technology, Inc. (AWT) is licensed to provide engineering services in 38 states throughout the country. It maintains a full-time staff consisting of engineers, agronomists, licensed soil scientists, Technical Service Providers (TSP), and Geographic Information System (GIS)/Global Positioning System (GPS) mapping specialists. Over the past several years, AWT has worked effectively with over 350 producers in developing Comprehensive Nutrient Management Plans (CNMP) for the Natural Resources Conservation Service (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.

Kristin Taormina
16815 W. Wisconsin Avenue
Brookfield, WI 53005

Tel: (262) 784-7690
Fax: (262) 784-7690
Email: kmtaormina@ati-ae.com
Website: 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 also co-sponsored several seminars throughout the last 20 years on the anaerobic treatment of agricultural and high-strength wastes.

BDS Technologies, Inc.

Taoreed O. Badmus / Freddie
Guerra 11325 Pegasus Street,
E-200
Dallas, TX 75238

Tel: (214) 747-2500
Fax: (214) 747-2567
Email: tbadmus@bdstechnologies.com
Website: www.bdstechnologies.com

Year Established: 1994
of Farm Projects: N/A
of Biogas Projects: 1

BDS Technologies Inc. provides turn-key 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: (208) 413-1180
Fax: (509) 335-2722
Email: king.keving@gmail.com
Website: N/A

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

BEST provides consultant services related to co-digestion, digester related issues, and nutrient recovery process.

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Consultants



BioGreen Engineering, LLC

Charlie Ramos
405 Macarthur Drive
Orlando, FL 32839

Tel: (407) 437-6194

Fax: N/A

Email: cramos@biogreenengineering.com

Website: www.biogreenengineering.com

Year Established: 2008

of Farm Projects: 720

of Biogas Projects: 725

BioGreen Engineering LLC is a U.S.-based company founded in 2008, with a mission to promote renewable energy generation via sustainable greenhouse gas (GHG) reduction and anaerobic digestion waste-to-energy projects. It is a consulting firm specializing in technical and regulatory assistance. It provides clients with a unique combination of full-cycle project management, in-depth regulatory knowledge, and hands-on operational experience in GHG emission reduction and anaerobic digestion projects.

Brendle Group

226 Remington Street, Suite 3
Fort Collins, CO 80524

Tel: (970) 207-0058

Fax: (970) 207-0059

Email: info@brendlegroup.com

Website: www.brendlegroup.com

Year Established: 1996

of Farm Projects: 15

of Biogas Projects: 20

Brendle Group is an environmentally focused engineering consulting firm that leads by example, inspiring and empowering people to make thoughtful choices about the resources they use and helping them create realistic road maps for sustainability. Founded in Fort Collins, Colorado in 1996, Brendle Group serves clients nationwide, leveraging the strength of what its clients do well with their sincere desire to do more for people, profit, and planet. Brendle Group offers years of experience designing, building, and operating on-farm anaerobic digesters. Expertise includes feedstock analysis, preliminary design, permitting and financing support, design review, and operational guidance. Brendle Group staff conducted numerous feasibility studies and performed technical and economic due diligence of European digester technologies.

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

Website: www.brdgstn.com

Year Established: 1988

of Farm Projects: 1

of Biogas Projects: 30

Bridgestone Associates are consultants in the evaluation, design, financing, construction, and operations of animal manure anaerobic digestion, disposal facilities, and renewable energy projects.

Carbon Solutions America

Alex Hernandez
10 Fairway Drive, #114
Deerfield Beach, FL 33441

Tel: (561) 953-8960

Fax: (561) 953-8961

Email: alex@emailcsa.com

Website: www.carbonsolutionsamerica.com

Year Established: 2006

of Farm Projects: 1

of Biogas Projects: 4

Carbon Solutions America (CSA) is a climate change consulting company with a focus on greenhouse gas reduction offsets. It provides a cradle to grave approach in the commercialization of carbon credits.

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Consultants



Cavanaugh & Associates

William Simmons
1904 Eastwood Road, Suite 205
Wilmington, NC 28403

Tel: (910) 392-4462
Fax: (910) 392-4612
Email: gus.simmons@cavanaughhsolutions.com
Website: www.cavanaughhsolutions.com

Year Established: 1995
of Farm Projects: 7
of Biogas Projects: 1

Cavanaugh & Associates provides engineering, utility services, surveying, site development, wastewater treatment, anaerobic digestion, and consulting services.

CEM Engineering

Martin Lensink, P.E.
26 Hiscott St. Ste. 201
St. Catharines, Ontario
Canada L24 1C6

Tel: (905) 935-5915
Fax: (905) 935-7878
Email: info@cemeng.ca
Website: www.cemeng.ca

Year Established: 2001
of Farm Projects: 7
of Biogas Projects: 18

CEM Engineering provides the following services: energy audits; Proof-of-Concept Assessments (POCA) (both technical and economic); identification and implementation of Energy Management Opportunities (EMO); sub-metering of gas, power, and thermal use (within load centers); feasibility studies (including detailed financial analysis); capital cost estimates; conceptual and preliminary engineering (including high voltage electrical interconnect); preparation of design-build, turn-key specifications and bid evaluations; owners-engineer services (such as due diligence and fatal flaw analysis); implementation alternatives (risk/reward, construction, financing, fuel management and procurement); short-circuit analysis, arc flash studies, and protective device coordination using EasyPower[®] software.

Chesterfield Associates

Sylke [Silka] Chesterfield
32 Clearview Terrace
Rensselaer, NY 12144

Tel: (518) 632-4530
Fax: (518) 283-1287
Email: sc@caimc.com
Website: caimc.com/digesters.htm

Year Established: 1995
of Farm Projects: N/A
of Biogas Projects: N/A

Chesterfield Associates has been active in the biogas arena since 2001. Chesterfield Associates assists its clients in their marketing and communications efforts. They facilitate cross-cultural communications; represent their clients at industry events; establish and maintain industry and customer relationships; assist in the development of projects; educate interested parties; engage in grant writing; manage grant applications; and provide other marketing and communication activities.

Cincas International

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

Tel: (619) 520-0733
Fax: (619) 295-6055
Email: bcruz92312@aol.com
Website: N/A

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

Cincas International exports technology and equipment to the agro industries of Mexico and other countries.

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Consultants



Clean Trade Group LLC

Brett Jackson
2020 North 14th Street
Suite 700
Arlington, VA 22201

Tel: (703) 835-9334
Fax: N/A
Email: brettj@cleantradegroup.com
Website: www.CleanTradeGroup.com

Year Established: 2008
of Farm Projects: N/A
of Biogas Projects: N/A

Clean Trade Group (CTG) is a carbon asset consultancy. It works with livestock owners to document, develop, and commercialize offset credits arising from methane avoidance projects.

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

Year Established: 2007
of Farm Projects: 4
of Biogas Projects: N/A

Climate Options group (COg) offers a diverse range of services including project identification, management, design, and engineering. 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 helped register more than 100 Clean Development Mechanism (CDM) projects globally and have successfully worked with United Nations-certified Designated Operation Entities (DOE). COg employees have managed projects that 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.

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

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, energy production, municipal waste/wastewater treatment, air emissions, and economic analysis.

David Bach Electrical Services

David Bach
3398 E. Edson Road
Rockford, IL 61109

Tel: (815) 243-2981
Fax: N/A
Email: churchtuna@yahoo.com
Website: N/A

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

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Consultants



Dennis Gerber, Consultant

Dennis Gerber
P.O. Box 2031
Carmel, CA 93921

Tel: (831) 624-6073
Fax: (831) 624-6073
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.

ecosur

Timothée Lazaroo
2 rue Greuze
Paris, France 75116

Tel: 33-14-755-0678
Fax: 33-14-505-2702
Email: t.lazaroo@ecosur.fr
Website: 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. It develops 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). It proposes legal, financial, and technical expertise to project developers that need to set up the carbon part of their projects and helps them select and implement the appropriate technologies. We help farming activities and local communities benefit from the carbon credits system to enhance their environmental performances.

Electrigaz Technologies, Inc.

Eric Camirand
10301 Ch. Ste-Marguerite,
B.7, Troi-Rivieres, Quebec
Canada G9B 6M6

Tel: (819) 687-2875
Fax: (819) 687-2875
Email: eric@electrigaz.com
Website: www.electrigaz.com

Year Established: 2001
of Farm Projects: 100+
of Biogas Projects: 200+

Electrigaz Technologies specializes exclusively in the research and development of biogas solutions for agricultural producers, industrials, energy developers, plant builders, engineering firms, governments, municipalities, and universities.

Environmental Resource Recovery Group, LLC

Burt Tribble
15789 202 Street
Nortonville, KS 66060

Tel: (913) 886-8051
Fax: (913) 660-0405
Email: btribble@enrrg.com
Website: www.enrrg.com

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

Environmental Resource Recovery Group (EnRRG) is a 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.

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Consultants



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

Year Established: 1967
of Farm Projects: 2
of Biogas Projects: 18

Fox Engineering Associates specializes in environmental and civil engineering services for industrial, municipal, and agricultural sectors. The company focuses on water, wastewater, soil, and air media issues; it 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

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

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

Hall Associates

John H. Martin, Jr. Ph.D.
23 Evergreen Drive
Georgetown, DE 19947

Tel: (302) 855-0723
Fax: N/A
Email: hallassociates@mediacombb.net
Website: N/A

Year Established: 1980
of Farm Projects: 15+
of Biogas Projects: 15+

Hall Associates specializes in providing analysis for prospective owners and possible investors of the technical and financial feasibility of proposed biogas projects for livestock and food processing wastes including proposals by project developers. They also conduct performance evaluations of existing systems.

Hannover, Ltd.

Don Keysser
8276 Kingslee Road, #101
Bloomington, MN 55438

Tel: (612) 710-0995
Fax: N/A
Email: don@hannoverconsulting.com
Website: www.hannoverconsulting.com

Year Established: 1994
of Farm Projects: N/A
of Biogas Projects: 4

Hannover provides business development, project financing, and project coordination services to the alternative energy industry, including assistance in securing capital.

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Consultants



Hard Hat Services

Mark Loerop
932 N. Wright Street, Suite 160
Naperville, IL 60563

Tel: (630) 687-9160
Fax: N/A
Email: Mark.Loerop@hardhatinc.com
Website: www.hardhatinc.com

Year Established: 2000
of Farm Projects: 2
of Biogas Projects: 15

Hard Hat Services is an engineering-construction management firm that works throughout the United States and internationally. They acquired Kouba Engineering LLC. They specialize in anaerobic treatment of high-strength waste including manure and biogas to energy projects.

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

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

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

Larsen Engineers

Ram Shrivastava
700 West Metro Park
Rochester, NY 14623

Tel: (585) 272-7310
Fax: (585) 272-0159
Email: info@larsen-engineers.com
Website: www.larsen-engineers.com

Year Established: 1955
of Farm Projects: N/A
of Biogas Projects: N/A

Larsen Engineers offers a broad and diverse range of services including civil and environmental engineering, survey, planning, and energy conservation. It has provided services throughout the northeastern part of the United States. Since the company's inception in 1955, Larsen Engineers has focused on and completed a number of projects related to: anaerobic digestion, energy conservation/ audits, wastewater treatment, site development, and surveying. Larsen Engineers is interested in saving clients' money through sustainable solutions.

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.

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Consultants



Maurer-Stutz, Inc.

Terry L. Feldmann
3116 North Dries Lane,
Suite 100
Peoria, IL 61604

Tel: (309) 693-7615
Fax: (309) 693-7616
Email: tfeldmann@mstutz.com
Website: www.mstutz.com

Year Established: 1993
of Farm Projects: 7
of Biogas Projects: 7

Maurer-Stutz is a multi-discipline engineering and surveying firm. The firm's agricultural group consists of four agricultural engineers and a certified crop advisor—all of whom have experience with livestock and poultry waste handling, treatment, and storage systems. Its engineers have performed services for planning and design of methane recovery and/or anaerobic treatment systems including experience with feasibility studies and/or designs for dairy and swine systems. Maurer-Stutz has staff specializing in civil, conservation, environmental, geotechnical, structural, transportation, and water/wastewater engineering along with CAD design and land surveying to complement our agricultural services.

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

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

MCX Environmental Energy Corp. is a distributed energy, infrastructure, and construction management services provider.

National Methane

William J. Lingo, Sr.
1823 Leo Street
Dayton, OH 45404

Tel: (937) 226-0340
Fax: (937) 226-0340
Email: bilingo5@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. It also provides grant writing and public relations services related to on-farm biogas recovery and fee-based speakers for Community Groups and Agricultural Seminars.

North Carolina Energy Partners

Andrew J. Courts, Jr.
1-E Windy Court
Greensboro, NC 27407

Tel: (336) 402-4118
Fax: (336) 292-3718
Email: courts@NCEnergyPartners.com
Website: www.NCEnergyPartners.com

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

North Carolina Energy Partners is a multi-faceted energy efficiency and renewable energy cooperative that works across many industries including commercial, educational, residential, agricultural, and municipalities. They bring together specialists in a myriad of fields to tailor brain power/experience and provide custom solutions to most energy issues.

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Consultants



Northern Lake Service, Inc.

Jim Pilgrim
400 N. Lake Avenue
Crandon, WI 54520

Tel: (715) 478-2777

Fax: (715) 478-3060

Email: jimp@nslab.com

Website: www.nslab.com

Year Established: 1974

of Farm Projects: 20

of Biogas Projects: 30

Northern Lake Service (NLS) has provided high quality, environmental compliance data for over 30 years. Since 1994, NLS has served the biogas industry with specialized laboratory services to determine feed stock potential and system efficiency. NLS maintains working relationships with a number of system manufacturers and industry experts throughout the United States.

NTH Consultants, Ltd

James Wallace, PhD PE
41780 Six Mile Road
Northville, MI 48168

Tel: (248) 324-5256

Fax: (248) 324-5179

Email: jwallace@nthconsultants.com

Website: www.nthconsultants.com

Year Established: 1968

of Farm Projects: 8

of Biogas Projects: 18

NTH Consultants, Ltd provides engineering, environmental, and infrastructure services on projects throughout the United States and select international projects, mostly related to the waste industry. NTH completed projects for the USDA-NRCS on various concentrated animal feedlot operations (CAFOs), mostly in Michigan but also with private farms elsewhere. NTH Consultants received both federal and state-level Conservation Innovation Grants to evaluate and improve existing technology to measure performance of various manure storage structure liner systems using indirect, non-destructive test methods based on observed seepage losses. They are confident this research will provide a useful method to satisfy regulatory requirements while minimizing disruption of farms operations during testing.

Omega-Alpha Recycling Systems

Robert Hamburg
Route 1, Box 51
Orma, WV 25268

Tel: (304) 655-8662

Fax: N/A

Email: bhanomalous7@gmail.com

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.

AgSTAR Industry Directory 2014

Consultants



Optimal Strategies

R Raj Telang
722 Highpoint Drive
Wexford, PA 15090

Tel: (412) 254-8211
Fax: N/A
Email: raj@optimal-strategies.com
Website: www.optimal-strategies.com

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

Optimal Strategies is associated with EHV Engineering of the United Kingdom.

Organix, Inc.

Russell V. Davis
209 S. 2nd Avenue
Walla Walla, WA 99362

Tel: (509) 527-0526
Fax: (509) 527-0528
Email: rdavis@organix.us
Website: www.organix.us

Year Established: 2001
of Farm Projects: 3
of Biogas Projects: 3

Organix is a residuals management firm specializing in adding value to dairy manure through processing, market development, sales, and ongoing research.

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

Year Established: 2005
of Farm Projects: 4
of Biogas Projects: 17

Phase 3 Developments & Investments, LLC 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.

AgSTAR Industry Directory 2014

Consultants



Prime Solutions, Inc.

Shawn Brazo
143 West Street
New Milford, CT 06776

Tel: (203) 482-1743
Fax: (866) 960-9628
Email: sbrazo@primesolutions-inc.com
Website: www.primesolutions-inc.com

Year Established: 2009
of Farm Projects: N/A
of Biogas Projects: 2

Prime Solutions, Inc., ("PSI") is a provider of integrated green-energy design, engineering, sustainability-consulting, and implementation solutions custom-tailored to help its customers achieve their energy efficiency and renewable energy goals. The company operates in the electric utility and the commercial and industrial markets. Its key customers within these markets include utilities as well as electrical cooperatives and a variety of commercial and industrial businesses, in particular, energy intensive businesses such as healthcare and higher education facilities. PSI specializes in helping clients shift to alternative and/or renewable energy sources when it makes financial sense for them to do so. PSI also provides interconnection services to enable clients to make utility connections efficiently and in a timely, cost-effective manner.

R. Alexander Associates, Inc.

Ron Alexander
1212 Eastham Drive
Apex, NC 27502

Tel: (919) 367-8350
Fax: (919) 367-8351
Email: alexassoc@earthlink.net
Website: www.alexassoc.net

Year Established: 1998
of Farm Projects: 10
of Biogas Projects: 20

R. Alexander Associates, Inc. (RAA) is an environmental consulting company specializing in 'organics recycling' (i.e., composting, AD, reuse). RAA provides a full range of technical services (e.g., facility design and evaluation, systems and equipment selection, etc.). It has been acknowledged as a leader in market research and development, and is respected for its expertise in product development, product quality issues, and end use. RAA provides service throughout North America, and internationally; it is known for its practical experience, creative solutions and overall understanding of the organics recycling industry.

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.

RCM International LLC

Angie McEliece
P.O. Box 4716
Berkeley, CA 94704

Tel: (510) 834-4568
Fax: (510) 834-4529
Email: angie@rcmdigesters.com
Website: www.rcminternationalllc.com

Year Established: 1982
of Farm Projects: 85+
of Biogas Projects: 100+

RCM International is in the business of designing, building, and maintaining anaerobic digester systems. Its goal is to provide a profitable project that the owner is proud of. RCM staff has designed and built over 85 successfully operating farm digester systems (in the United States and internationally). Its smallest digesters were a 200-pig digester and a 200-cow digester. Its largest operating digesters include an 8,000-cow dairy, 239,000 finish hog, 5,000sow to wean, and 25,000 hog (farrow-to-finish). Over half of its digesters co-digest other wastes including whey, ice cream, fruit juice, fish breeding, yeast, and grease trap waste. RCM provides design services, equipment specification and procurement, construction management services as well as comprehensive turn-key construction services for the implementation of biogas projects.

AgSTAR Industry Directory 2014

Consultants



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: russjmurray@aol.com
Website: N/A

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

Russell J. Murray & Associates provides design, construction supervision, and start-up of anaerobic digesters for the dairy, food processing, and wine industries.

Selective Site Consultants, Inc.

Terry Super
9900 West 109th Street,
Suite 300
Overland Park, KS 66210

Tel: (913) 438-7700
Fax: (913) 438-7777
Email: tsuper@ssc.us.com
Website: www.ssc.us.com

Year Established: 1997
of Farm Projects: N/A
of Biogas Projects: 3

Selective Site Consultants, Inc. (SSC) is a site development consultant providing site acquisition, engineering, and construction management services for multiple industries, including renewable energy. SSC has developed strategic partnerships with several waste-to-energy experts to deliver turnkey anaerobic digestion system solutions.

Selectra

Rob Cloete

Tel: +27 83 678 5563
Fax: +27 86 124 6427
Email: rob@selectra.co.za
Website:
www.biogaspower.co.za

Year Established: 2005
of Farm Projects: N/A
of Biogas Projects: 1

Selectra provides consulting services as well as implementation support of its unique and revolutionary Anaerobic Wastewater Treatment Bioenergy System. They have implemented five farm projects and have 16 in the pipeline; all are biogas projects. They also completed a feasibility study for one of the world's top 5 gold mining companies on a bioenergy project. The mining company will use bioenergy crops to remediate impacted land whilst producing biogas which will be scrubbed, bottled, and used by the mine in heating applications where it will replace fossil fuel and electrical resistive heating.

AgSTAR Industry Directory 2014

Consultants



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

Sellew & Associates, LLC offers a broad range of experience in manure and industrial organics anaerobic digestion.

Stewart Environmental Consultants, Inc.

Fred Porter
3801 Automation Way
Fort Collins, CO 80525

Tel: (970) 226-5500
Fax: N/A
Email: fred.porter@stewartenv.com
Website: N/A

Year Established: 1957
of Farm Projects: N/A
of Biogas Projects: 4

Stewart Environmental Consultants specializes in wastewater treatment and reuse. They also provide feasibility studies, anaerobic facility design (including building and operating), and financing.

Tetra Tech Inc.

Charles Egigian-Nichols
19803 North Creek Parkway
Bothell, WA 98011

Tel: (425) 482-7802
Fax: (425) 482-7652
Email: charles.enichols@tetrattech.com
Website: www.tetrattech.com

Year Established: 1966
of Farm Projects: 40+
of Biogas Projects: 40

Tetra Tech is a leading provider of consulting, engineering, and technical services worldwide. The firm offers a complete suite of services for optimizing and implementing organics recycling and conversion, including strategic planning, feasibility studies, financial analysis, risk management, design, permitting, construction and start-up. Tetra Tech staff are experienced in the extraction of valuable renewable products and energy from the biomass. These products typically take the form of fiber/compost, heat, power, pipeline-quality renewable natural gas, vehicle fuels (compressed natural gas (CNG), liquefied natural gas (LNG), ethanol, and biodiesel), liquid and gaseous nutrients and other marketable products. By implementing cost-effective solutions, Tetra Tech produces results that help its clients transform waste products, or liabilities, into value-added products.

Tiry Engineering, Inc.

Mike Tiry
P.O. Box 44
Chippewa Falls, WI 54729

Tel: (866) 944-6777
Fax: (715) 723-6842
Email: contact@tiryengineering.com
Website: www.tiryengineering.com

Year Established: 1994
of Farm Projects: 12
of Biogas Projects: 12

Tiry Engineering, Inc. (TEI) was formed in 1994 to provide engineering services to the agricultural community. TEI has designed two digesters in New York and provided supplement design services (i.e., permitting, site design, tank design, and feasibility studies) for numerous digester projects. With over 80 years of combined experience, TEI strives to provide the services clients need through their dedication to both excellence and integrity.

AgSTAR Industry Directory 2014

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

Triple Bottom Consulting, LLC is led by 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. John Norwood has more than 20 years of professional experience in program development and promotion, spanning the public, private and nonprofit 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. 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).

Vertin Valuation Service

Steve Vertin
203 N LaSalle Street, Suite 2100
Chicago, IL 60601

Tel: (312) 558-1478
Fax: (708) 524-8936
Email: svertin@aol.com
Website: www.vertinvaluation.com

Year Established: 1992
of Farm Projects: 15
of Biogas Projects: 20

Vertin Valuation Service provides services from commercial industrial real estate appraisers, with experience appraising several anaerobic digestion systems in the Midwest for financing.

Waterbusters

Ralph Ross
3302 Williams Glen Drive
Sugar Land, TX 77479-2443

Tel: (281) 980-0971
Fax: (281) 980-0971
Email: coinmanross@windstream.net
Website: N/A

Year Established: 2011
of Farm Projects: N/A
of Biogas Projects: N/A

Waster Busters is a new consultant company start-up designed to remove organic waste.

WELTEC BIOPOWER

Craig Wong
6081 Meridian Avenue,
Suite 70-121
San Jose, CA 95120

Tel: (408) 657-0852
Fax: N/A
Email: c.wong@weltec-biopower.net
Website: www.weltec-biopower.com

Year Established: 2001
of Farm Projects: 300+
of Biogas Projects: 300+

Weltec Biopower plans and provides modular, stainless steel biogas facilities around the world. These modular stainless steel digesters are easy to construct, so installations can be designed with experience in Germany and assembled throughout the world to a high tolerance. The use of high quality stainless steel offers superior durability in the corrosive biogas environment. These plants will retain their value over long periods of time, offering the owner flexibility in the future. With over 300 plants around the world in 2013, Weltec Biopower looks forward to assisting the American dairy farmer and food industry create profit from their waste, with reliable stainless steel biogas plants.

AgSTAR Industry Directory 2014

Consultants



Wilson Engineering Services, PC

Thomas H. Wilson, PE
9006 Mercer Pike
Meadville, PA 16335

Tel: (814) 337-8223
Fax: (814) 336-5191
Email: twilson@wilsonengineeringservices.com
Website: www.wilsonengineeringservices.com

Year Established: 2008
of Farm Projects: 1
of Biogas Projects: 2

Wilson Engineering Services (WES) specializes in biomass related energy projects. WES combines extensive knowledge of crop development and waste handling systems with practical design experience to develop energy projects that are economically, environmentally, and socially beneficial. WES is experienced in development of successful applications for grant and loan programs geared towards implementing biomass energy projects. WES guides clients successfully through the red tape required to obtain grants and low interest loans for projects such as anaerobic digesters and biomass boilers.

Zero emissions

Pablo Martin
80 Broad Street, 5th Floor
Suite 628
New York, NY 10004

Tel: (212) 504-2904
Fax: N/A
Email:
pablom.martin@zeroemissions.abengoa.com
Website: www.zeroemissions.com/corp/web/en/

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

Zero emissions provides global solutions for climate change through the promotion, development, and trade of carbon credits, corporate carbon strategy, carbon offset services, and innovation in technologies for greenhouse gas reduction.

Developers

ACTIVA BioGreen, Inc.

Hyo Lee
One Tiffany Pointe, Suite 100
Bloomington, IL 60108

Tel: (630) 238-3111
Fax: (630) 238-3151
Email: hyo.lee@activasns.com
Website: www.activasns.com

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

ACTIVA BioGreen, Inc. is a new venture company specializing in waste treatment, using the concept of far infra-red rays.

ADI Systems Inc.

Scott Christian
370 Wilsey Road
Fredericton, NB E3B 6E9
Canada

Tel: (506) 452-7307
Fax: (506) 452-7308
Email: systems@adi.ca
Website: www.adisystemsinc.com

Year Established: 1989
of Farm Projects: N/A
of Biogas Projects: 170

ADI Systems Inc. has been involved in over 170 full-scale anaerobic installations in 30+ countries. Several of these systems treat agri-waste from food-related processing, while the remainder is treating brewery, beverage, pulp and paper, and some chemical wastes. These systems involve 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.

AgSTAR Industry Directory 2014

Developers



Advance Design Consultants, Inc.

Renato O'Neal
998 Park Avenue
San Jose, CA 95126

Tel: (408) 297-1881
Fax: (408) 294-3196
Email: renato@adcengineers.com
Website: www.adcengineers.com

Year Established: 1984
of Farm Projects: N/A
of Biogas Projects: 6

Advance Design Consultants (ADC) understands the need to address, plan, and most importantly act on renewable/sustainable efforts to reduce the carbon footprint. They have experience with the design and implantation of: Cogeneration and Trigeration Plants; Photovoltaic Systems; Solar to Steam for Power Generation; Solar to Hot Water Systems; Biogas Power Plants; Geothermal Power Plants; Wind Power Plants; Non Potable/Recycled Water Systems; and will continue to strive for efficient designs that impact the world. ADC has found with some, if not most, of these systems that the return on investment (ROI) is typically five years. However, with new government programs and local incentives, they find the ROI rapidly decreasing. ADC understands the need to implement capital projects and operational modifications that reduce the ownership, operation, and maintenance costs of energy-consuming systems and equipment for immediate results. That is why they initiated the "ADC Challenge" for customers looking for immediate results.

AGAMA Biogas

Greg Austin
9b Bell Crescent Close
Westlake Business Park
West Lake, S. Africa 7945

Tel: +27(0)21 701-3364
Fax: +27(0)21 702-4920
Email: greg.austin@agama.co.za
Website: www.agama.co.za

Year Established: 2000
of Farm Projects: 6
of Biogas Projects: 18

AGAMA Biogas is a fully owned subsidiary of AGAMA Energy, a long established and leading consultant to the energy sector with a clear focus on renewable energy and energy efficiency. AGAMA Biogas consults to the waste industry and other stakeholders that generate ongoing 'problem' waste that typically is difficult to manage and/or lands up in landfill sites. As a company focused on quality solutions, AGAMA Energy designs engineer and implement energy from waste projects. Our three core focus areas are the larger systems pertaining to animal wastes and wastes from the food and beverage industry, on site sanitation for the built environment, and provision of thermal energy to households using a prefabricated biogas digester.

AgrEnergy LLC

Daniel DeBuhr
S79 W16459 Woods Road
Muskego, WI 53150

Tel: (262) 617-1570
Fax: (262) 244-1455
Email: tes@wi.rr.com
Website: www.agrenergyllc.com

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

AgrEnergy LLC is an anaerobic Kit supplier with full turn-key capabilities and project financing capacity as well.

AgSTAR Industry Directory 2014

Developers



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
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.

Agriculture Solar

Chuck Helmke
6890 Sunrise Drive,
Suite 120-261
Tucson, AZ 85750

Tel: (520) 204-4223
Fax: (520) 844-1003
Email: ChuckHelmke@agricultureSolar.com
Website: www.AgricultureSolar.com

Year Established: 2008
of Farm Projects: 4
of Biogas Projects: 4

Agriculture Solar integrates renewable energy technologies to create a renewable energy system appropriate to each customer's particular electrical power needs. Agriculture Solar's products and services cover the analysis, development, manufacture, integration, installation, operation, service, and marketing of complete renewable energy systems. Agriculture Solar renewable energy system components include solar, bio-diesel, biomass, anaerobic digestion, geothermal, thermal electric generation, hydrogen generation, and hydrogen fuel cell technology. They specialize in "global" consulting and project system development using solar, waste utilization, and greenhouse farming technologies, especially for supported agriculture. They have experience with the design and implantation of: Solar Photovoltaic Systems; Solar to Steam for Power Generation; Solar to Hot Water Systems; Biogas Power Plants; Geothermal Power Plants; and will continue to strive for efficient designs that impact the world.

AgroEnergien Meiners

Burkhard Meiners
Brunner Street 18
26316 Varel,
Germany

Tel: +49(0)4453-98-58-00
Fax: +49(0)4453-98-58-02
Email: meiners@agroenergien.de
Website: www.agroenergien.com

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

AgroEnergien Meiners is a 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.

Anaergia Inc.

Kurt Rohmann
4210 South Service Road
Burlington, Ontario
Canada L7L 4X5

Tel: (905) 766-3333
Fax: N/A
Email: kurt.rohmann@anaergia.com
Website: www.anaergia.com

Year Established: 2009
of Farm Projects: 1600
of Biogas Projects: 1500

Anaergia Inc. is a global leader in providing sustainable solutions for the generation of renewable energy and the conversion of waste to resources. Through its subsidiaries such as UTS Biogastechnik in Europe, Anaergia is trusted at more than 1,600 operational renewable energy projects over its 20 year history. Anaergia operates out of 16 offices across North America, Europe, and Asia.

AgSTAR Industry Directory 2014

Developers



Anchor-International-LLC

Paul D. Wells
2242 Grafton Street
El Cajon, CA 92020

Tel: (619) 261-1142
Fax: (619) 596-2575
Email: wellsng@aol.com
Website: www.anchor-international-llc.com

Year Established: 2008
of Farm Projects: N/A
of Biogas Projects: N/A

Anchor-International LLC is a Service Disabled Veteran Owned Small Business and biogas developer.

Avatar Energy

Erin Wood / John Anthony
1981 North Broadway,
Suite 430
Walnut Creek, CA 94596

Tel: (925) 274-7600
Fax: (925) 210-9070
Email: ewood@avatarenergy.com
Website: www.avatarenergy.com

Year Established: 2005
of Farm Projects: 5
of Biogas Projects: N/A

Avatar Energy is an innovative energy company that produces an affordable modular anaerobic digester which reduces dairy costs while providing a renewable source of energy for dairy farmers regardless of herd size. The digester converts manure waste into electricity, bedding, fertilizer, and other useful by-products. Avatar Energy is unique in the alternative energy industry because it provides an "off-the-shelf" yet customized solution for manure waste management and energy generation. Its revolutionary anaerobic digester is the first scalable system to employ a tubular, modular design platform suitable for any size farm.

BalanceCO2

Selva Kumar
103 Ascension Drive
Wilmington, DE 19808

Tel: (302) 494-9476
Fax: (302) 633-1325
Email:
selva.kumar@balanceco2.com
Website: www.balanceco2.com

Year Established: 2007
of Farm Projects: 3
of Biogas Projects: 3

BalanceCO2 provides end-to-end project management of farm-scale anaerobic digestion with an emphasis on emissions reduction and sale of carbon credits. Converting animal and plant waste into energy can be a triple-hitter: it not only helps reduce waste going to landfills or from being released as gas into the atmosphere, it also saves energy and money.

Bio-Digester Management Services include: feasibility analysis of waste management projects; bio-digester technology assessment and selection; Waste to Energy (WTE) facility design and engineering; engineering design and implementation of Bio-Digester; farm-scale anaerobic digestion; aggregating emissions reductions for sale in carbon trading market; and help with financing the project.

BDI-BioEnergy International AG

Parking 18
Grambach/Graz 8074

Tel: +43 316 4009-100
Fax: +43 316 4009-110
Email: sales@bdi-bioenergy.com
Website: http://www.bdi-bioenergy.com

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

BDI – BioEnergy International AG is market and technology leader in the construction of customized BioDiesel plants using the Multi-Feedstock Technology the company has developed itself, which can manufacture BioDiesel from different raw materials, such as Vegetable Oils, Used Cooking Oils and Animal Fats. BDI has specialized in the development of technologies that make optimum use of resources in the industrial processing of by- and waste products ever since it was established in 1996 and owns an extensive patent portfolio that has resulted from its in-house research and development activities. As a leading constructor of special plants, BDI also supplies efficient plant concepts in the "from waste to value" field that are designed to produce BioGas from industrial and municipal waste. The range of services includes public authority, basic and detailed engineering, installation and start-up as well as after-sales support.

AgSTAR Industry Directory 2014

Developers



Bio-en Power, Inc.

Earl Brubacher
4 Athur Street N.
Elmira, Ontario,
Canada N3B 3A2

Tel: (519) 669-5171
Fax: (519) 669-5982
Email: earlb@marbro.com
Website: www.bio-en.ca

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

Bio-en Power, Inc. is a full service anaerobic digester (AD) company serving the North and Central America market. Bio-en provides design, engineering, project management, construction, commissioning, and operator training for AD facilities. It serves the agricultural, industrial, and municipal markets including decontaminating systems for food waste, electrical generation, and purifying biogas for gas grid injection and vehicle fuel. It is a one-stop for all AD needs from 100 kW to 5 MW. Its technology is leading edge and able to handle some of the most difficult feed-stock material and maintain biological stability.

BIOFerm Energy Systems

Daniela Rumpf
617 N. Segoe Road,
Suite 202
Madison, WI 53705

Tel: (608) 467-5523
Fax: (608) 233-7085
Email: info@biofermenergy.com
Website: www.biofermenergy.com

Year Established: 2001
of Farm Projects: N/A
of Biogas Projects: 30

BIOFerm™ Energy Systems, a Viessmann Company, is a world leader in the development of dry fermentation renewable energy facilities. BIOFerm™ designs and constructs anaerobic digestion plants that use unique dry fermentation technology to produce biogas. Biogas can be utilized in a wide array of energy generation applications (heat, electric, fuel). Because organic waste and biomass are the primary inputs, energy is recovered from untapped sources creating carbon neutral energy production and waste management solutions.

Biogas Energy, Inc.

Brian Gannon
4509 Interlake Ave N #222
Seattle, WA 98103

Tel: (815) 301-3432
Fax: (815) 301-3432
Email: info@biogas-energy.com
Website: www.biogas-energy.com

Year Established: 1996
of Farm Projects: 1
of Biogas Projects: 1

Biogas Energy, Inc. designs and builds complete mix anaerobic digesters.

Biothane

Ryan Johnston
2500 Broadway
Camden, NJ 08104

Tel: (856) 541-3500
Fax: (856) 541-3366
Email: ryan.johnston@veoliawater.com
Website: 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.

AgSTAR Industry Directory 2014

Developers



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

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, CO₂, 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.

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

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 turn-key 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

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

California Power Partners, Inc. (Calpwr) is a total turn-key provider of services to the distributed generation and cogeneration industry. Calpwr's services include financial and technical analysis, engineering, equipment supply, project management, construction, financing, operations and maintenance, etc.

CCI BioEnergy Inc.

Kevin Matthews
390 Davis Drive, Suite 301
Newmarket, Ontario
Canada L3T 7T8

Tel: (416) 230-9391
Fax: (905) 830-0416
Email: kmatthews@ccibioenergy.com
Website: www.ccibioenergy.com

Year Established: 1994
of Farm Projects: N/A
of Biogas Projects: 3

Using a partnership model, CCI BioEnergy's (CCI) mission is to assemble teams to design, build, operate, and sell, in any combination, projects that recover the value in residential, commercial, and agricultural organic wastes. The solution nucleus, the BTA® Process, is a robust technology platform that integrates industry leading pre-processing systems with proven methods of AD and the by-product utilization systems.

AgSTAR Industry Directory 2014

Developers



CH Four Biogas, LLC

Benjamin Strehler or
Ethan Werner
102-1390 Prince of Wales Drive
Ottawa, Ontario
Canada K2C 3N6

Tel: (613) 224-8308
Fax: (613) 224-1642
Email: info@CHFourBiogas.com
Website: www.CHFourBiogas.com

Year Established: 2006
of Farm Projects: 13
of Biogas Projects: 15

CH Four Biogas, LLC offers all services necessary for effective project development, implementation, and operation. Services include site assessment, feasibility studies, permitting, design, construction, and operational support. With its proprietary modeling software, the company further provides feedstock optimization and digester rescue services, as well as feedstock sourcing and system financing through its partner companies. Implementation methods include all variations of design/build/own/operate. CH Four's expertise is grounded in more than 20 years of European and 20 years of North American biogas experience. The company is headquartered in Ottawa, has offices in British Columbia and representatives in the United States.

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

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.

Clear Horizons

Leo Maney
5070 N 35th Street
Milwaukee, WI 53209

Tel: (414) 831-1264
Fax: (414) 462-7711
Email: leo.maney@pieperpower.com
Website: www.clearhorizonsllc.com

Year Established: 2005
of Farm Projects: 3
of Biogas Projects: 5

Clear Horizons is a developer of biogas energy systems headquartered in Milwaukee, Wisconsin. Clear Horizons is a subsidiary of PPC Partners, Inc. Clear Horizons provides complete technical services, all required construction services, and the ability to operate and maintain the system for the customer. This greatly reduces the time commitment typically required from the customer, provides one source of responsibility for the entire project, and develops a partnership with the customer for the life of the project.

DLS EnviroSolutions Inc.

John van Logtenstein
6403 Egremont Drive
Komoka, Ontario
Canada N0L 1R0

Tel: (519) 666-1404
Fax: (519) 666-0627
Email: john@dairylane.ca
Website: www.dlsevenrosolutions.ca

Year Established: 2006
of Farm Projects: 6
of Biogas Projects: 8

DLS EnviroSolutions Inc. (DLS) is a full service digester development company serving the North American market place. DLS is actively involved in all stages of the development process, including project feasibility, system design, engineering, construction, system service, and biological support. The DLS approach to digester design/construction/support is centered on the operator, whereby DLS provides the level of support required to bridge the operator's comfort level and ensure the successful realization of the plant's performance specifications.

AgSTAR Industry Directory 2014

Developers



DMK Ingeniería, 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

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

DMK Ingeniería, S.L. is an environmental engineering company located in Northern Spain that is 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.

DVO, Inc. (formerly GHD, Inc.)

Steve Dvorak
P.O. Box 69
Chilton, WI 53014

Tel: (920) 849-9797
Fax: (920) 849-9160
Email: info@dvoinc.net
Website: www.dvoinc.net

Year Established: 1989
of Farm Projects: 80
of Biogas Projects: 81

DVO, Inc. provides engineering and system installation experience in the anaerobic digester industry. DVO, Inc., with its patented mixed plug flow digester design, has over 80 operating anaerobic digesters at more than 60 farms in the United States.

ECOCORP

Dr. John Ingersoll
1211 South Eads Street
Arlington, VA 22202

Tel: (703) 979-4999
Fax: N/A
Email: jgingersoll@ecocorp.com
Website: www.ecocorp.com

Year Established: 1998
of Farm Projects: 3
of Biogas Projects: 15

ECOCORP has extensive, international experience with the design and implementation of biogas facilities and the production of bio methane as a renewable, alternative fuel. Wet or dry as well as mesophilic or thermophilic anaerobic digestion processes are offered. Biogas upgrading to pipeline quality natural gas, carbon dioxide sequestration, organic fertilizer processing, and waste water treatment are also integral parts of the ECOCORP process. Services include project feasibility studies, substrate selection, sampling and testing, permitting, engineering, construction support and/or management, start-up support, commissioning, facility operation and management. Additional services include greenhouse gas offset calculations and carbon credit verification. Clients include agricultural and industrial entities as well as communities and municipalities. The ECOCORP team of engineers, scientists and managers has been involved in the realization of over 15 large commercial biogas installations and several smaller ones, has a broad area of expertise, and will tailor the anaerobic digestion process and biogas facility design to meet the unique needs of your project.

Ecovation, Inc.

Waste Solutions Group
Eastgate Square
50 Square Dr. Suite 200
Victor, NY 14564

Tel: (585) 421-3500
Fax: N/A
Email: info@ecovation.com
Website: www.ecovation.com

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.

AgSTAR Industry Directory 2014

Developers



EISENMANN Corporation

Tom Gratz
150 E. Dartmoor Drive
Crystal Lake, IL 60014

Tel: (815) 455-4100
Fax: N/A
Email: es.info@eisenmann.com
Website: www.eisenmann.us.com

Year Established: 1977
of Farm Projects: 80
of Biogas Projects: 80

EISENMANN Corporation's proprietary BIOGAS technology utilizes anaerobic digestion to convert high solid waste organics to biogas. The biogas can either be directed to a combined heat and power (CHP) system to produce electrical power or it can be cleaned/compressed and fed into the natural gas pipeline or utilized as a transportation fuel alternative.

entec biogas USA

Thomas Gratz
4520 North State Road 37
Orleans, IN 47112

Tel: (812) 865-3232
Fax: (812) 865-1490
Email: tom.gratz@layne.com
Website: www.entecbiogasusa.com

Year Established: N/A
of Farm Projects: 20
of Biogas Projects: 40

With the increased global emphasis placed on energy and the environment today, there has never been a better time to implement responsible, efficient waste management strategies. To address this challenge, Layne Heavy Civil. of Orleans, Indiana and entec biogas gmbh of Fussach, Austria, have partnered together as entec biogas USA. Offered exclusively in North America through a teaming agreement, entec biogas USA combines the benefits of proven European biogas technology with the full service capabilities of a nationally recognized construction company. Speciliazing on the design of mid and large scale biogas plants, entec biogas USA has significant experience with a wide range of applications: agriculture industry, food, and bio waste collecting and processing companies, food production industry (solid waste/waste water), abattoirs, rendering plants, distilleries, bioethanol and biodiesel producers, and municipal digester plants. Projects performed by entec biogas USA are delivered in a performance based Engineer Procure Construct (EPC) package.

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

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

Environmental Developers, Inc. developed a patented technology that has the smallest, fastest, and 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

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.

AgSTAR Industry Directory 2014

Developers



Environmental Products & Technologies Corporation (EP&T)

Marvin Mears
4216 S. Mooney Boulevard
Suite 131
Visalia, CA 93277

Tel: (559) 201-6484
Fax: (818) 992-7529
Email: marvin@eptcorp.com
Website: www.eptcorp.com

Year Established: 1996
of Farm Projects: 3
of Biogas Projects: 3

Environmental Products & Technologies Corporation's (EP&T) Closed-loop Organics Management System (CLOMS) technology is a combination of patented and licensed technologies that use anaerobic digestion and bioreactor technology to take organic feedstock (manure, food waste, waste oils, and greases) to generate biogas (methane) which is conditioned and injected into the utility gas line distribution system or can be delivered to third party buyer via tube trailers. The solids from the CLOMS technology process are made into organic certified compost for commercial and residential use. The CLOMS creates renewable energy from a base source that is available 24 hours a day, seven days a week, every day of the year.

Environmental Systems

Steven Childs
9211 East Harry #2110
Wichita, KS 67207

Tel: (316) 652-0479
Fax: (316) 652-0479
Email: stevenlchilds@aol.com
Website: www.environmentalsystems.info

Year Established: 2009
of Farm Projects: N/A
of Biogas Projects: N/A

Environmental Systems was founded by an environmental engineer experienced in site remediation. It provides crews for installation of subsurface drip irrigation systems as well as the management of livestock waste, including capture of biogas.

Fagen, Inc.

Steven P. Stokke
501 Hwy 212 West
Granite Falls, MN 56241

Tel: (320) 564-3324
Fax: (320) 564-3278
Email: sstokke@fageninc.com
Website: www.fageninc.com

Year Established: 1988
of Farm Projects: 2
of Biogas Projects: 2

Fagen, Inc. was founded on the principle of making its clients successful. From local, agricultural grassroots initiatives to construction management for Fortune 500 companies, Fagen, Inc. has the broad range of skills and services necessary to be a single source contractor.

Farm Power Northwest, LLC

Kevin Maas
1934 South Wall Street
Mount Vernon, WA 98273

Tel: (360) 424-4519
Fax: N/A
Email: farmpowernw@gmail.com
Website: www.farmpower.com

Year Established: 2007
of Farm Projects: 1
of Biogas Projects: 1

Farm Power Northwest, LLC organizes, owns, and operates community anaerobic digesters. Our first project processes manure from two neighboring dairy farms and compensates them with enough digested fiber to bed their cows. Farm Power has gained significant expertise by doing all its own feasibility-study, grant-writing, permitting, financing, political, and regulatory work.

AgSTAR Industry Directory 2014

Developers



First Carbon Credits Corporation

Robert Coulter
5912-60 Street Olds
Alberta, Canada T4H1Y2

Tel: (403) 556-0605
Fax: (888) 719-6091
Email: robert.coulter@shaw.ca
Website: N/A

Year Established: 2010
of Farm Projects: 50
of Biogas Projects: 3

Robert Coulter and his partners have introduced the process of viewing waste generated from one process as an energy or food source for another, providing environmentally friendly methods to the agricultural community. They called this technique "the closed loop." In 2003, Mr. Coulter as part of a team completed a Manure Management study on behalf of Canadian Forage, using Canadian Agricultural and Rural Diversification – Saskatchewan district grants. This report evaluated three manure management styles: covered lagoons, anaerobic digestion, and composting. Robert Coulter is an environmental pioneer with significant name recognition in the field of agricultural ecology. He has steadfastly evolved the ECC business model for carbon credits trading over many years, beginning with his early environmental work in 1999 and gradually refining his systems and procedures to meet the needs of a rapidly expanding global industry.

Greentech Development Corp.

Kinza
244 5th Avenue, Suite G-204
New York, NY 10001

Tel: (212) 252-2640
Fax: (845) 371-9098
Email: kinza@greentechodf.com
Website: www.greentechodf.com

Year Established: 2009
of Farm Projects: 1
of Biogas Projects: 3

Greentech Development Corp. comprises developers of anaerobic digestion, cogeneration, and fertilizer manufacturer. They also conduct projects for agriculture and industry.

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

Hanusa worked for four years developing Alliant Energy's Digester Program projects, and developed four farm projects. They determined there is a need for projects on smaller farms in the 150-500 cow range.

Hoffland Environmental, Inc.

Robert Hoffland
10391 Silver Springs Road
Conroe, TX 77303

Tel: (936) 856-4515
Fax: (936) 856-4589
Email: rh@hoffland.net
Website: www.hoffland.net

Year Established: 1970
of Farm Projects: 2
of Biogas Projects: 6

Hoffland Environmental Inc. is a developer of technology that turns animal waste into electricity. The first USA plant is in North Carolina and utilizes swine waste (manure) to create a biogas that, in turn, is sent to a gen-set to produce electricity for the grid. This Wayne County, North Carolina facility will eventually have a rated nameplate capacity of 4.99 Megawatts.

KEAN Project Engineering, Inc.

Kirk Nadeau
P.O. Box 303
Turner, ME 04282

Tel: (207) 225-3688
Fax: N/A
Email: knadeau@keanengineering.com
Website: N/A

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

KEAN Project Engineering is a New England based firm specializing in project development, project management, project engineering, and maintenance engineering. The company is actively developing AgEnergy and Wind Energy projects in New England.

AgSTAR Industry Directory 2014

Developers



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

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

Micro-Bac International is a biotechnology company specializing in microbial solutions that biodegrade hydrocarbon contaminants.

Modern Technology Methods, LLC

Billy Ivy
P.O. Box 3292
Thompson Bridge Road #276
Gainesville, GA 30506

Tel: (404) 287-2624
Fax: (404) 287-2624
Email: info@moderntechnologymethods.com
Website: www.moderntechnologymethods.com

Year Established: 2009
of Farm Projects: 2
of Biogas Projects: 2

Modern Technology Methods, LLC products and services include the following: project engineering feasibility; economic analysis studies; engineering, procurement and construction; environmental engineering; permitting; 3rd party ownership; project development; long-term service agreements; and O&M.

Offering thermophilic poultry anaerobic digestion systems designed to cleanly and efficiently convert waste into high quality methane gas with commercial, industrial, and agricultural applications. Modern Technology Methods, LLC offers cogeneration facilities providing a dedicated energy supply designed specifically to deliver facility energy savings with increased reliability. We deliver all aspects of onsite generation. With representatives across the southeast USA, Modern Technology Methods, LLC is committed to the renewable/sustainable energy business.

MT-ENERGIE USA, Inc.

Daniel Mann
4915 Calloway Drive
Suite 102
Bakersfield, CA 93312

Tel: (661) 829-6900
Fax: (661) 829-6901
Email: biogas-us@mt-energie.com
Website: www.us.mt-energie.com

Year Established: 1995
of Farm Projects: 140+
of Biogas Projects: 140+

MT-ENERGIE USA, Inc. is a subsidiary of MT-ENERGIE Germany. MT-ENERGIE designs, builds, and maintains anaerobic digesters and biogas-upgrading/injection systems for North America. MT-ENERGIE helps to produce clean biogas from organic waste and for this task employs the most advanced and proven technology available today. MT-ENERGIE USA delivers cost-effective, suitable, and profitable solutions for the American agriculture and renewable energy industry. MT-ENERGIE Germany is proud of more than 15 years of experience in the industry, has built more than 140 turn-key biogas facilities, and is one of the leading biogas companies in Europe. MT-ENERGIE Germany has subsidiaries in six European countries and in the United States.

National Methane

William J. Lingo, Sr.
1823 Leo Street
Dayton, OH 45404

Tel: (937) 226-0340
Fax: (937) 226-0340
Email: bilingo5@netzero.com
Website: N/A

Year Established: 1986
of Farm Projects: 27
of Biogas Projects: 31

National Methane consults, designs, and builds entire systems of multiple benefit anaerobic digesters and CaCO₃.

AgSTAR Industry Directory 2014

Developers



Northern Biogas

Grant Grinstead
P.O. Box 643
Fond du Lac, WI 54936

Tel: (920) 948-3216
Fax: (866) 301-3075
Email: info@northernbiogas.com
Website: www.northernbiogas.com

Year Established: 2009
of Farm Projects: 9
of Biogas Projects: 9

Northern Biogas was formed by a professional group including Wisconsin dairy producers and licensed engineers. Its purpose is to design, build, and manage renewable energy projects specifically for the dairy and agricultural industry. The goal of Northern Biogas is to provide a reliable and affordable anaerobic digester system that manages waste and odor with economic value to the owner and community. Its professional services include system design and engineering, construction management, feasibility studies, grant applications, permitting assistance, comprehensive operations training, and ongoing operations and maintenance.

Organic Alchemy

Hope Blaythorne
711 Moulder Loop Road
Smith's Grove, KY 24171

Tel: (215) 862-0784
Fax: N/A
Email: hope@organic-alchemy.com
Website: www.organic-alchemy.com

Year Established: 2007
of Farm Projects: 1
of Biogas Projects: 1

Organic Alchemy creates continuous process digesters with more efficient methane capture processes and highly efficient cycle times.

PacaPower, LLC

Michelle Rehmann
7353 Lowell Blvd.
Westminster, CO 80030

Tel: (303) 717-5236
Fax: N/A
Email: pacapower@live.com
Website: N/A

Year Established: 2009
of Farm Projects: 2
of Biogas Projects: 5

PacaPower, LLC is a woman-owned small business engaged in consultation for design and development of sustainable renewable energy projects for the Alpaca ranching industry. The principals have innovated approaches for meeting the demands of diverse environmental, energy development, and carbon reduction projects, while adapting to legal, technical and social forces that have generated regulatory change, environmental awareness, and global energy demands. PacaPower's experience teams with the Alpaca ranching community to develop sustainable anaerobic digester projects that will benefit their industry and surrounding agricultural communities. It is PacaPower's vision that the ultimate development of safe, economic, and environmentally friendly Alpaca waste digester projects, that are scalable to ranch requirements or agricultural communities, will bring sustainable green energy projects to support a variety of their state's agricultural sectors and communities.

Phinix, LLC

Dr. Subodh Das
P.O. Box 11668
Lexington, KY 40577-1668

Tel: (859) 619-8386
Fax: (859) 523-9398
Email: skdas@phinix.net
Website: www.phinix.net

Year Established: 2008
of Farm Projects: 1
of Biogas Projects: 1

Phinix, LLC provides carbon management services for manufacturing, agricultural and renewal energy sectors, including, anaerobic digesters, and energy and electricity production from dairy and landfill methane.

AgSTAR Industry Directory 2014

Developers



PlanET Biogas USA Inc.

Derek Hundert
56-113 Cushman Road
St. Catharines, Ontario
L2M 6S9

Tel: (877) 266-0994
Fax: (905) 935-7498
Email: info@planet-biogas.ca
Website: www.planet-biogas.ca

Year Established: 1998
of Farm Projects: 200
of Biogas Projects: 300+

The name PlanET stands for "Planning and Application of Energy Technology". PlanET ranks among the leading biogas plant builders worldwide. PlanET has designed, constructed and services more than 300 anaerobic digestion systems in worldwide. PlanET specializes in the design, construction, and service of advanced biogas plants. PlanET started more than 10 years ago, and now has over 150 employees, and 300 operating biogas plants.

Positive Energy Alternatives, LLC

Delroy Leslie
P.O. Box 11
Menomonie, WI 54751

Tel: (715) 664-6162
Fax: (715) 232-8824
Email: info@posengalt.com
Website: www.posengalt.com

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

Positive Energy Alternatives, LLC determines biogas supply; scopes out the project; conducts feasibility analysis; determines digester type; selects equipment; creates a financial pro forma; negotiates the Utility Agreement; obtains environmental and site permits; gains regulatory approval; assists in the research of financing; contracts with engineering, construction, and equipment supply firms; supervises the construction of the digester; identifies potential customers for mulch and fertilizer; and provides equipment maintenance.

Pro-Act Biotech

Bill Donohue
P.O. Box 345
Warren, RI 02885

Tel: (800) 772-3775
Fax: (401) 633-6270
Email: Bill@proactbiotech.com
Website: www.proactbiotech.com

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

Pro-Act Biotech (formally known as Pro-Act Microbial, Inc.) 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.

Proteus Energy Development, LLC

Jon Gordon James
104 Crocker Place
Williamsburg, VA 23185

Tel: (757) 220-2129
Fax: N/A
Email: j.g.james@cox.net
Website: N/A

Year Established: 2010
of Farm Projects: N/A
of Biogas Projects: N/A

Proteus Energy Development, LLC offers alternative energy development.

AgSTAR Industry Directory 2014

Developers



Quantum BioEnergy USA

Bill Beckett
Lionel Freedman
Lea Beckett
650 North 250 West
Tetonia, ID 83452

Tel: (727) 432-0400
Fax: (727) 446-7893
Email: wbeckett1@tampabay.rr.com
Website: www.bioenergy.net.au

Year Established: 2003
of Farm Projects: 3
of Biogas Projects: 3

Quantum BioEnergy USA is a full service funding, design, installation, service, and maintenance provider of biomass to energy systems for the dairy, swine, poultry, abattoir, and food processing industries.

RealEnergy, LLC

Kevin Best
6712 Washington Street
Yountville, CA 94599

Tel: (707) 944-2400
Fax: (707) 944-2420
Email: kbest@realenergy.com
Website: 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.

Schmack BioEnergy, LLC

Mark Suchan
7624 Riverview Road
Cleveland, OH 44131

Tel: (216) 986-9999 x112
Fax: (216) 986-9999
Email: msuchan@schmackbioenergy.com
Website: www.schmackbioenergy.com

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

Schmack BioEnergy 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. With 265 plants worldwide, SBE employs the best available AD technology existing in the world today to produce biogas from organic residuals.

Stellar Cascade Energy

Mike Costanti
1363 Down River Drive
Woodland, WA 98674

Tel: (406) 579-6164
Fax: (866) 903-9951
Email: mcostanti@cascadeenergypartners.com
Website: N/A

Year Established: 2010
of Farm Projects: N/A
of Biogas Projects: 6

Stellar Cascade Energy looks for late-state opportunities to develop, finance, construct, and operate dairy digester projects in the West.

AgSTAR Industry Directory 2014

Developers



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

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.

Symbios Technologies, LLC

Justin Bzdek
200 W. Mountain Avenue
Suite C-104
Fort Collins, CO 80521

Tel: (970) 797-2543
Fax: (970) 797-2546
Email: justin@symbiostechologies.com
Website: www.symbioenergy.com

Year Established: 2008
of Farm Projects: N/A
of Biogas Projects: N/A

Symbios Technologies LLC is a waste-to-energy project developer working to reduce clients' greenhouse gas impacts while improving waste disposal and energy economics. Clients include municipalities, animal and food processing plants, and animal feeding operations. Symbios uses proprietary process simulation and design software to evaluate, design, and optimize integrated renewable energy facilities to produce clean energy and water, organic fertilizer, and other valuable products from waste. Symbios integrates public and private funding, on-the-ground engineering, and technology to make waste-to-energy projects economically feasible.

UEM Inc.

Nina Kshetry
1818 S Australian Avenue
Suite 110
West Palm Beach, FL 33409

Tel: (561) 294-0138
Fax: (561) 683-2996
Email: nkshetry@uemgroup.com
Website: www.uemgroup.com

Year Established: 1990
of Farm Projects: 2
of Biogas Projects: 100

UEM Inc. is an international multi-disciplinary environmental services firm, specializing in providing turn-key design, construction, and O&M services in water and wastewater treatment for industries and municipalities. One of UEM's core wastewater solution offerings is anaerobic digestion. UEM has a long history in providing anaerobic digestion solutions, starting with distillery waste digesters in the 1980s. Since then, UEM's portfolio of projects has expanded to include a diverse variety of waste including industrial waste, food processing waste, slaughter house waste, agricultural waste, sewage sludge, and several other high organic content waste streams. UEM has executed over 100 digester projects worldwide.

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.com
Website: www.valleyairsolutions.com

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

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

AgSTAR Industry Directory 2014

Developers



Waterleau

Laetitia d'Ursel
1300 Adams Ave, # 32P
Costa Mesa, CA 92626

Tel: (714) 727-7607
Fax: N/A
Email:
laetita.dursel@waterleau.com
Website: www.waterleau.com

Year Established: 2000
of Farm Projects: 15
of Biogas Projects: 350

Waterleau is one of the few global players with a complete portfolio of environmental protection patented technologies, including treatment of wastewater, sludge, polluted air, waste, production of process water or drinking water, energy recovery applications and generation of renewable energy from waste or biomass through anaerobic digestion. With more than 350 environmental engineers and specialists, we provide services from technology development, consultancy, design, engineering, procurement and construction to operations and maintenance. Technological packages, turn-key plants or BOOT solutions are available in all fields, with a proven track record of over 1,500 references in more than 80 countries.

Williams Engineering Associates

Doug Williams
18039 Blue Winged Court
Woodland, CA 95695

Tel: (530) 669-7236
Fax: (530) 669-7982
Email: wmsengr@thegrid.net
Website: N/A

Year Established: 1985
of Farm Projects: 10
of Biogas Projects: 10

Williams Engineering Associates has been in the business of design, feasibility, research, and supervision of start-up of anaerobic digesters for on-farm operations for 23 years. Doug Williams, principle and owner was a professor of BioResource and Agricultural Engineering for 22 years at Cal Poly.

Yield Energy, Inc.

Rolfe Philip
49040 SE Middle Fork Road
North Bend, WA 98045

Tel: (425) 273-4325
Fax: (425) 273-4325
Email: rolfe.philip@yieldenergy.com
Website: www.yieldenergy.com

Year Established: 2007
of Farm Projects: 2
of Biogas Projects: 10

Yield Energy, Inc. is focused on designing, developing, constructing, and providing ongoing operational assistance to farm-based anaerobic digestion facilities that intend to utilize off-farm feedstock's to supplement biogas production. They have developed a sophisticated anaerobic digester simulation tool, substrate testing, and micro nutrient supplement regime that ensures optimal biogas production and stable plant operations. Yield offers self-cleaning in-tank systems for grit & light plastic removal which ensures continual digester operation and efficiency. Yield is also launching a new product in 2014, the APAS unit, which is an in-line bicarbonate testing unit for operational digesters. This unit assists plant operators in maximizing biogas yield from operational digesters by removing the manual process required for testing biological characteristics of the in situ digestate.



Energy Service Providers

Alliant Energy Corporation

2777 Columbia Drive
Portage, WI 53901-9483

Tel: (608) 742-0888
Fax: (608) 742-0890
Email: customercare@alliantenergy.com
Website: 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.

Alternative Carbon Resources, LLC

Zack Hedrington
2047 Hickory Trail
Pella, IA 50219

Tel: (319) 333-2000
Fax: (888) 316-0829
Email: zach@alternativecarbonresources.com
Website: www.alternativecarbonresources.com

Year Established: 2010
of Farm Projects: 6
of Biogas Projects: 10

Alternative Carbon Resources, LLC provides all different kinds of feedstock to anaerobic digesters for conversion into methane and subsequent energy generation. They deliver anywhere in the United States, and can be a huge asset for an operation trying to get off the ground or increase capacity.

Eco-Cure, Inc.

Jim Kritchever
1525 Casa Buena Drive, Suite
D Corte Madera CA 94925

Tel: (888) 924-8450
Fax: N/A
Email: jimkritchever@yahoo.com
Website: www.eco-cure.com

Year Established: 2000
of Farm Projects: 10
of Biogas Projects: 10

Eco-Cure, Inc. is a producer of an enzyme product that increases methane, reduces H₂S, and shortens retention time.

Santee Cooper

Elizabeth Kress
PO Box 2946101
Moncks Corner, SC 29461

Tel: 843-761-8000
Fax: N/A
Email: eakress@santeecooper.com
Website: www.santeecooper.com

Year Established: 1934
of Farm Projects: N/A
of Biogas Projects: N/A

Santee Cooper is a public power authority of the State of South Carolina; it has developed numerous renewable energy projects across the state including biomass digesters.

Smart Drilling Tech

Mahicon Astuyauri
504 Plaza Village Drive
Lafayette, LA 70506-5118

Tel: N/A
Fax: N/A
Email: mahj_ast@hotmail.com
Website: N/A

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

Smart Drilling Tech specializes in drilling and energy.



Financing Specialists

Cat Power Finance

Paul Owen
2120 West End Avenue
Nashville, TN 37203

Tel: (615) 341-8626

Fax: (615) 341-8027

Email: Paul.Owen@cat.com

Website: www.catpowerfinance.com

Year Established: 1981

of Farm Projects: 5

of Biogas Projects: 20+

Cat Power Finance offers financial services for renewable energy projects utilizing Caterpillar power generation equipment.

Climate Action Reserve

Scott Hernandez
601 West 5th Street, Suite 650
Los Angeles, CA 90071

Tel: (213) 542-0295

Fax: (213) 623-6716

Email: shernandez@climateactionreserve.org

Website: www.climateactionreserve.org

Year Established: 2001

of Farm Projects: 57

of Biogas Projects: 194

The Climate Action Reserve is a national offsets program working to ensure integrity, transparency, and financial value in the U.S. carbon market. It does this by establishing regulatory-quality standards for the development, quantification and verification of greenhouse gas (GHG) emissions reduction projects; issuing carbon offset credits generated from such projects; and tracking the transaction of credits over time in a transparent, publicly-accessible system. The Reserve's Livestock Project Protocol and Organic Waste Digestion Protocol allow for the generation of credits by projects that install new biogas control systems to digest livestock manure, MSW food waste, and certain other agro-industrial wastewater streams. There is also a version of the Livestock protocol for use in Mexico, and one under development for Canada.

Consortium Capital

Stefan Kershow
3299 K Street NW, Ste. 700
Washington, DC 20007

Tel: (202) 478-7557

Fax: (202) 333-3323

Email: skershow@consortiumcapital.com

Website: www.consortiumcapital.com

Year Established: N/A

of Farm Projects: N/A

of Biogas Projects: N/A

Consortium Capital is a specialized finance company with a focus on tax credits. It is a project finance company with a renewable energy group that will invest in and selectively co-sponsor biogas projects.

AgSTAR Industry Directory 2014

Financing Specialists



Edgewood Holdings

457 Cider Mill Road
Cornwall, VT 05753

Tel: (802) 462-3483
Fax: (802) 462-3217
Email:
investments@edgewoodholdings.com
Website: edgewoodholdings.com

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

Edgewood Holdings is a private equity firm that finances biogas projects.

Environmental Credit Corp. (ECC)

Sharad Deshpande
1070 Cleveland Avenue
Batavia, IL 60510

Tel: (630) 326-9299
Fax: N/A
Email: sharaddesh@hotmail.com
Website: www.envcc.com

Year Established: 2005
of Farm Projects: 50+
of Biogas Projects: 50+

Environmental Credit Corp. (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.

Everest Financial Network

Lee Burnett
5668 Red Fern Court
Suite 300
Littleton, CO 80125

Tel: (303) 948-9999
Fax: (303) 948-2242
Email: leeburnett@e-f-n.com
Website: www.e-f-n.com

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

Everest Financial Network and its affiliates have arranged over \$3 billion of agriculture, municipal, and commercial funding. It is seeking opportunities for the development of integrated manure wastewater processing systems. Project and term financing is available including both hard and soft costs; therefore, financing is available for anaerobic digesters, gensets, loaders, piping, pumps, power inverters, and engineering and consulting expenses. Everest Financial Network is eager to assist in arranging the optimum blend of private and public financing for the installation.

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

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

Meridian Capital Investments, Inc. 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.

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Financing Specialists



NativeEnergy, Inc.

Brian Killkelley
3 Main Street, Suite 212
Burlington, VT 05401

Tel: (802) 861-7707
Fax: (802) 861-7717
Email: brian.killkelley@nativeenergy.com
Website: www.nativeenergy.com

Year Established: 2001
of Farm Projects: 6
of Biogas Projects: 1

NativeEnergy, Inc. is a U.S. marketer of carbon credits and renewable energy credits (REC). NativeEnergy directly sources from qualified renewable energy projects including wind, farm based anaerobic digesters, and landfill gas, typically under long-term forward purchase contracts. The resulting carbon offsets and RECs are sold to business customers and individuals.

Sterling Planet

Doug Mitchell/Tim Swanson
3500 Parkway Lane
Suite 500
Norcross, GA 30092

Tel: (678) 650-7500
Fax: (678) 325-3174
Email: dmitchell@sterlingplanet.com
Website: www.sterlingplanet.com

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

Sterling Planet is a national leader in retail sales of renewable energy, both in the regulated and voluntary markets. As the nation's leading retail Renewable Energy Certificate (REC) provider, Sterling Planet supports hundreds of renewable projects nationwide. Sterling Planet was the first company to offer RECs to every U.S. home and business as a way to support sustainable energy production that benefits the environment, the economy and society in general. It also helps utilities develop green pricing programs for their customers, manage their REC portfolios, and sell their excess RECs to other utilities or purchase RECs to satisfy their own voluntary or mandated portfolio requirements. By leveraging ten years of experience and expertise in REC markets, Sterling Planet can manage the full cycle of project documentation, fulfillment, tracking and delivery – allowing generators to focus on their core business.

Vermont Energy Investment Corporation

Paul Scheckel
244 South Champlain St
Burlington, VT 05401

Tel: (802) 456-7097
Fax: (802) 658-1643
Email: scheckel@sover.net
Website: www.veic.org

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.



Manufacturers/Distributors 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

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.

EC Applications, Inc. (ECA)

Christopher Fore
650 N. Batavia Street
Orange, CA 92868

Tel: (714) 921-9848
Fax: (866) 475-1225
Email: cfore@biogascovers.com
Website: www.biogascovers.com

Year Established: 2005
of Farm Projects: 28
of Biogas Projects: 6

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

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: dshanklin@environmentalfabrics.com
Website: 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.

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Manufacturers/Distributors of Covers



Firestone Specialty 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.firestonebpco.com

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

Firestone Specialty Products Company manufactures a variety of ethylene propylene diene monomer (EPDM) and RPP geosynthetic products used within the agricultural arena. Firestone Specialty Products Company 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.

Frank Santini Farms

Frank Santini
819 marble hill road
Phillipsburg, NJ 08865

Tel: (908) 406 7859
Fax: (908) 454-8710
Email: santini819@mybluelight.com
Website: N/A

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

Geomembrane Technologies, Inc. (GTI)

Darin Evans
5150 Race Court
Denver, CO 80216

Tel: (506) 452-7304
Fax: (506) 452-6625
Email: covers@gticovers.com
Website: www.gticovers.com

Year Established: 1991
of Farm Projects: 5
of Biogas Projects: 120+

Converting biogas into energy has been a cornerstone of GTI's business for over thirty years. Several custom-designed cover types are offered including floating gas collection covers, structurally supported, and suspended. GTI designs, fabricates, installs, and maintains complete cover and liner systems. These are installed on agricultural, municipal, and industrial wastewater treatment plants, tanks, and lagoons at sites around the world.

Gundle/SLT Environmental (GSE) Lining Technology, Inc.

Ryan Blanchard
19103 Gundle Road
Houston, TX 77073

Tel: (281) 230-8655
Fax: (281) 230-6739
Email: rblanchard@gseworld.com
Website: www.gseworld.com

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

Gundle/SLT Environmental (GSE) Lining Technology, Inc. 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 customers' varying project requirements.

Industrial & Environmental Concepts, Inc. (IEC)

Mike Morgan
6009 Chapel Drive
Minneapolis, MN 55439

Tel: (952) 829-0731
Fax: (952) 829-9770
Email: mmorgan@ieccovers.com
Website: www.ieccovers.com

Year Established: 1989
of Farm Projects: 50
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. IEC also installs liners in ponds and tanks.

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Manufacturers/Distributors of Covers



Layfield Environmental Systems Corporation

1166 Fesler St. Suite B
El Cajon, CA 92020

Tel: (800) 377-8404
Fax: (619) 562-1150
Email: sandiego@layfieldgroup.com
Website: www.layfieldgroup.com

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

Layfield Environmental Systems Corporation 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

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.

MT-ENERGIE USA, Inc.

Daniel Mann
4915 Calloway Drive
Suite 102
Bakersfield, CA 93312

Tel: (661) 829-6900
Fax: (661) 829-6901
Email: biogas-us@mt-energie.com
Website: www.us.mt-energie.com

Year Established: 1995
of Farm Projects: 140+
of Biogas Projects: 140+

MT-ENERGIE USA, Inc. is a subsidiary of MT-ENERGIE Germany. MT-ENERGIE USA produces, installs and distributes covers for digester tanks. MT-ENERGIE Germany has more than 15 years of experience in the industry, completed more than 140 turn-key biogas facilities, and is one of the leading biogas companies in Europe. MT-ENERGIE Germany has subsidiaries in six European countries and in the United States.

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: 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. They 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: ri@reefindustries.com
Website: www.reefindustries.com

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

Reef Industries manufactures and distributes covers for biogas systems.

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Manufacturers/Distributors of Covers



Shand & Jurs Biogas, An L&J Technologies Co.

Michael Landato
5911 Butterfield Road
Hillside, IL 60162

Tel: (708) 236-6000
Fax: (708) 236-6006
Email: mlandato@ljtechnologies.com
Website: www.ljtechnologies.com

Year Established: 1922
of Farm Projects: 5
of Biogas Projects: 100+

Shand & Jurs Biogas is a manufacturer of anaerobic digester cover and gas stream safety equipment including pressure and vacuum vents, flame arresters, sediment and drip traps, flame trap assemblies, and waste gas burners.

Varec Biogas

Regina M. Hanson
6101 Ball Rd., Suite 201
Cypress, CA90630

Tel: (714) 220-9924
Fax: (714) 952-2701
Email: Regina.hanson@varec-biogas.com
Website: 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 customers for over 75 years. With a 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.

WesTech Engineering, Inc.

Matthew J. Williams
3625 S. West Temple
Salt Lake City, UT 84115

Tel: (801) 290-1191
Fax: N/A
Email: mwilliams@westech-inc.com
Website: www.westech-inc.com

Year Established: 1972
of Farm Projects: N/A
of Biogas Projects: 250+

WesTech Engineering, Inc., an employee-owned company, supplies process equipment for water, wastewater, and industrial applications worldwide. Specific to anaerobic digestion, WesTech's DuoSphere gasholders and covers, and Extreme Duty Digester Mixers provide durable and reliable solutions. WesTech has grown to become one of the major suppliers in the process equipment industry today.

WOG Technologies, Inc.

Dev Pandey
6801 Lake Worth Rd. #215
Lake Worth, FL 33467

Tel: (561) 429-6889
Fax: (561) 429-6879
Email: dpandey@woggroup.com
Website: www.woggroup.com

Year Established: 2010
of Farm Projects: N/A
of Biogas Projects: 15

WOG Technologies Inc. (a part of WOG GROUP) engaged in the water and wastewater treatment plant project, engineering with anaerobic digester cover manufacturing unit located in Florida. They also supply complete anaerobic systems with biogas utilization.



Manufacturers/Distributors 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

Year Established: 1984
of Farm Projects: 10+
of Biogas Projects: 50+

Capstone Turbine Corporation manufactures microturbines that can burn biogas with as little as 35% 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%. 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/

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

6907 Brookpark Road
Cleveland, OH 44129

Tel: (216) 749-2992
Fax: (216) 398-8403
Email: info@combustionsafety.com
Website: 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 two farm-scale biogas projects.

2G CENERGY Power Systems Technologies, Inc.

Michael J. Turwitt
205 Commercial Drive
St. Augustine, FL 32092

Tel: (904) 579-3217
Fax: (904) 406-8727
Email: mturwitt@2g-cenergy.com
Website: www.2g-cenergy.com

Year Established: 1995
of Farm Projects: 3,000+
of Biogas Projects: 3,500+

2G CENERGY Power Systems Technologies Inc. is a U.S. manufacturer of advanced biogas combined heat and power (CHP) cogeneration systems. 2G CENERGY is part of the 2G ENERGY AG Group, the largest biogas energy conversion system manufacturer in Germany, publically traded at the Stock Exchange. The company's CHP cogeneration power plants guarantee extreme high energy efficiency, extracted and generated from biogas, landfill gas, sewage gas, coal mine gas, and natural gas. With more than 3,500 biogas CHP systems supplied and in operation, 2G CENERGY offers integrated and commercially attractive solutions, highly efficient biogas power plants, and unmatched experience in the farm digester biogas market. As leading manufacturer 2G CENERGY provides technologically advanced and clean systems to generate electricity and heat, while reducing CO2 emissions and greenhouse gases. All plants are of modular design and manufactured "plug & play connection-ready."

AgSTAR Industry Directory 2014

Manufacturers/Distributors 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

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

CGP Resources, LLC produces gas generator sets and cogeneration based on combustion engines; it also manufactures 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

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 landfill-gas-to-energy (LFGTE) 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: www.steadypower.com

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

Coffman Electrical Equipment is a distributor of a variety of biogas generators and micro-turbines. It also works as a consultant in directing clients to the best possible digester design for maximum generation capability. It offers a variety of gas scrubbing and material drying systems.

Curtis Engine & Equipment, Inc.

Tom Koch
3915 Benson Avenue
Baltimore, MD 21227-1516

Tel: (410) 536-1203
Fax: (410) 536-2098
Email: tkoch@curtisengine.com
Website: www.curtisengine.com

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

Curtis Engine & Equipment, Inc. sells, services, and maintains biogas reciprocating engines; they also develop biogas projects on a turn-key basis.

Enerflex Energy Services

Jim Jodice
11151 E. 51st Ave.
Denver, CO 80239

Tel: (303) 373-8100
Fax: (303) 373-0115
Email: jjodice@enerflex.com
Website: www.enerflex.com

Year Established: 1968
of Farm Projects: N/A
of Biogas Projects: 6

Enerflex Energy Services is a distributor for Waukesha Engines and Generator packages. It is also a manufacturer of customer power generation and gas compression packages.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of Engines



Energy Choice, Inc.

Manda Schulman
20 Holland Street, Suite 406A
Somerville, MA 02144

Tel: (617) 939-0160
Fax: (617) 939-0176
Email:
manda.schulman@energychoice.com
Website: www.energychoice.com

Year Established: 2005
of Farm Projects: N/A
of Biogas Projects: 1,053

Energy Choice is a supplier of highly efficient modular cogeneration, power generation, and peaking plants. Our state-of-the-art technology provides cost effective and reliable solutions for utility, community, commercial, and industrial customers. Plants can function on various fuel types including biogas (ADG), landfill gas, natural gas, or coal mine gas. The pre-packaged, all-inclusive design streamlines implementation and yields projects that are scalable and customizable.

FlexEnergy, Inc.

Gary Joubert
9601 Irvine Center Drive
Irvine, CA 92618

Tel: (949) 428-3841
Fax: (949) 450-0567
Email: gary.joubert@flexenergy.com
Website: www.flexenergy.com

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

FlexEnergy, Inc. 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.

Ingersoll Rand (IR)

Holly Emerson
800A Beaty Street
Davidson, NC 28036

Tel: (704) 655-4051
Fax: (704) 655-4327
Email: holly_emerson@irco.com
Website: www.energy.ingersollrand.com

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

Ingersoll-Rand (IR) 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.

Inland Power Group

Jon Going
210 Alexandra Way
Carol Stream, IL 60197-5942

Tel: (262) 825-5562
Fax: N/A
Email: jgoing@inlandpowergroup.com
Website: www.inlandpowergroup.com

Year Established: 1958
of Farm Projects: 12
of Biogas Projects: 30

Inland Power Group is the Midwest Distributor of GE Jenbacher gas engines. Jenbacher products, ranging from 330 kWe to 3 MWe, are highly developed and tested, and well matched to each customer's specific requirements. Its scope of delivery comprises generator sets for onsite 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
Website: www.kraftpower.com

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

Kraft Power provides industrial engine and power generation sales and service. It is also a Waukesha engine distributor.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of Engines



MacAllister Power Systems

Chris Cummings
7575 E 30th Street
Indianapolis, IN 43219

Tel: (317) 860-4410
Fax: N/A
Email: chriscumings@macallister.com
Website: www.macallisterpowersystems.com

Year Established: 1945
of Farm Projects: 1
of Biogas Projects: 15

MacAllister Power Systems is a subsidiary of MacAllister Machinery, a Midwestern dealer of Caterpillar equipment. MacAllister Power Systems offers a customized approach to bioenergy projects through equipment sales, local equipment O&M, and turn-key project consultancy.

Martin Machinery, LLC

Marcus R. Martin
39425 Excelsior Drive
Latham, MO 65050

Tel: (660) 458-7000
Fax: (660) 458-7100
Email: mmartin@martinmachinery.com
Website: N/A

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

Martin Machinery, LLC 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.

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

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, Northeast Energy Systems provides comprehensive application, sales engineering, systems integration, and parts and service capabilities.

TEDOM s.r.o.

Lubos Nedvedicky
Vycapy 195
Trebic 674 01
Czech Republic

Tel: +420-568-837-111
Fax: +420-568-837-100
Email: nedvedicky@tedom.cz
Website: www.tedom.eu

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

TEDOM is a producer of gas generator sets and cogeneration based on combustion engines. It manufactures combustion engines for stationary application for natural gas and biogas.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of Engines



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 livestock entities, and food waste. Their 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 their 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 the client.

Western Energy Systems (WES)

Steve Hall
499 Nibus Street, Unit B
Brea, CA 92821

Tel: (619) 741-4088
Fax: (619) 374-2346
Email: shall@weesys.com
Website: www.weesys.com

Year Established: 1994
of Farm Projects: 2
of Biogas Projects: 24

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



Manufacturers/Distributors of System Components

Advanced Systems Technologies, Inc. (ASTI)

Terry R. Schartel
P.O. Box 298
Mertztown, PA 19539

Tel: (610) 682-0610
Fax: (610) 682-0605
Email: CABatASTI@aol.com
Website:
www.advancedsystemstechnologies.com

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

Advanced Systems Technologies, Inc., (ASTI) designs and fabricates process control systems, specializing in industrial gas handling, blending, generating and purifying systems, and biogas and fuel blending/mixing systems. ASTI's mission is to provide at reasonable prices, high quality engineering design services and fabricated systems to industrial gas manufacturers and end users throughout the world. ASTI can enter a project at any point: from complete turn-key systems specification through fabrication, installation, and start-up, to simple fabrication from customer supplied prints and specifications.

Air Products and Chemicals, Inc.

John Hoffmann 11444
Lackland Road
Saint Louis, MO 63146

Tel: (314) 995-3361
Fax: (314) 995-3500
Email: hoffmaje@airproducts.com
Website: www.airproducts.com

Year Established: 1940
of Farm Projects: 14
of Biogas Projects: 20

Air Products and Chemicals, Inc. offers a broad portfolio of gas products, technologies, and engineering expertise that can help improve the productivity, economics, and safety of many bioenergy processes. Whether involved with an existing operation or developing a new project, they can help. As one of the world's leading suppliers of oxygen, nitrogen, hydrogen, and other industrial gases, Air Products and Chemicals, Inc. can apply their know-how in combustion and gasification, cryogenics, gas clean-up and separations, power generation, and process optimization. Their Prism Membrane modules employ hollow fiber membranes which selectively separate methane from carbon dioxide molecules, providing a robust and dependable method of upgrading biogas streams to high purity methane.

American Refining Group, Inc.

Kenneth M. Tyger
77 North Kendall Avenue
Bradford, PA 16701

Tel: (814) 368-1210
Fax: (814) 368-1328
Email: ktyger@amref.com
Website: www.amref.com

Year Established: 1881
of Farm Projects: 40+
of Biogas Projects: N/A

The American Refining Group, Inc. (formerly the Kendall Refinery), manufacturers of Brad Penn Lubricants, located in Bradford, Pennsylvania is the oldest continuously running lube refinery in the world and the only fully integrated major refinery that processes 100% Pennsylvania Grade Crude Oil. In addition to producing a wide range of lubricants, we they are proud to be the manufacturer of the Brad Penn® Biogas Engine Oils, specifically designed and tailored for use in engines fueled by biogas generated from anaerobic digestion of manure, compost, or landfill residue. The Brad Penn® Biogas Engine Oils offer not only the sufficient levels of reserve alkalinity required to effectively neutralize acidic components generated by combustion of biogas, but also enhanced anti-wear and detergency to provide outstanding engine component protection as well as the potential for increased oil drain intervals.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of System Components



Bio-Methatech Canada, Inc.

Francois Guay
85 St-Paul West
Montreal, Quebec
Canada H2Y 3V4

Tel: 418-933-7754
Fax: (514) 847-1125
Email: mbrown@bio-methatech.com
Website: www.bio-methatech.com

Year Established: 2006
of Farm Projects: N/A
of Biogas Projects: 500+

Bio-Methatech Canada, Inc. is a renewable energy company that designs, builds, installs, and supports the LIPP digester technology. The LIPP technology has over 35 years of operational experience and 500+ biogas systems in farming, food waste, and municipal waste water industries in 80 countries worldwide. The LIPP patented construction process enables the automated and efficient installation of high-quality digester systems that have a long service life. The unique LIPP methanization technology allows for continuous and uninterrupted operation focused on maximizing the delivery of a system's various product revenue streams.

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

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

Clean Water Technologies, Inc. provides a patented process which eliminates the hydrogen sulfide while increasing the methane generated in an 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

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

Conserval Systems, Inc. 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.

EPG Companies

Gregory Burns
19900 HWY. 81
Rogers, MN 55374

Tel: (763) 424-2613
Fax: N/A
Email: gburns@epgco.com
Website: http://epgco.com

Year Established: 1985
of Farm Projects: N/A
of Biogas Projects: N/A

EPG is a manufacturer of portable skid mounted, solar powered, active biogas flare systems.

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

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

FCI Fluid Components International is a leading manufacturer of gas flow meters for digester gases, biogas, and all fuel gases for applications in wastewater treatment facilities, landfills, farm waste-to-energy, and ag-to-energy.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of System Components



Flotech Services NA Ltd.

Sean Mezei
#253-5489 Byrne Rd.
Burnaby, British Columbia,
Canada V5J 3J1

Tel: (604) 805-8532
Fax: N/A
Website: www.flotech.com
Email: sean.mezei@flotech.com

Year Established: 1986
of Farm Projects: 18
of Projects: 40

Biogas Flotech Services NA Ltd. and its subsidiary Greenlane Biogas are the leading worldwide developer and supplier of technology for upgrading biogas to renewable natural gas for use in pipelines and vehicle fuel. Flotech has more than 20 years of experience upgrading biogas, with installations in Canada, France, Germany, Iceland, Japan, New Zealand, South Korea, Spain, Sweden, and the United States. Flotech's process uses a water scrubber process in combination with our proprietary PSA / TSA system to reliably deliver high quality biomethane. Flotech also backs up its systems with the most comprehensive guarantees available in the market.

Garrison Minerals, LLC

Mac McCreless
2054 Broadway
Denver, CO 80205

Tel: (720) 389-7609
Fax: (720) 889-9470
Email: mac@garrisonminerals.com
Website: www.garrisonminerals.com

Year Established: 2008
of Farm Projects: N/A
of Biogas Projects: N/A

Garrison Minerals, LLC provides various chemicals for anaerobic digestion systems, specifically pH adjustment, (i.e., magnesium hydroxide, etc.).

Gateway Products Group

Gregg Schneider
11220 Wilshire Chase Dr.
Duluth, GA 30097

Tel: (636) 922-5092
Fax: (636) 922-5093
Email: g.schneider@gpgsparkplugs.com
Website: www.gpgsparkplugs.com

Year Established: 2001
of Farm Projects: N/A
of Biogas Projects: 100

Gateway Products Group specializes in Beru and GPG spark plugs for natural gas, landfill, and biogas applications.

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

Year Established: 1981
of Farm Projects: 5
of Biogas Projects: 18

Guild Associates, Inc. is a leading supplier of compression and gas clean-up systems for biogas to pipeline/LNG/CNG quality under the Molecular Gate technology. The systems are noted for the use of fully regenerated media (that does not require replacement) and the single step removal of any levels of water vapor, H₂S, siloxanes, volatile organic compounds (VOC), and CO₂.

HRS HEAT EXCHANGERS

Carlos Cobian
5035 N. 55th Avenue, Suite 6
Glendale, AZ 85301

Tel: (623) 913-4328
Fax: (623) 939-6168
Email: carlos@hrs-americas.com
Website: www.hrs-heatexchangers.com

Year Established: 2003
of Farm Projects: N/A
of Biogas Projects: 100+

HRS Heat Exchangers manufactures and sells heat exchangers for sludge (sludge-water and sludge – sludge for energy recovery), sludge pasteurization, and evaporation technology for concentration of digestate.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of System Components



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
Website: 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. Their 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. Their linings are EPA-SPCC compliant Title 40, Part 112.

Infilco Degremont, Inc.

Jongmin Kim
8007 Discovery Drive
Richmond, VA 23229

Tel: (804) 756-7623
Fax: (804) 756-7643
Email: jongmin.kim@infilcodegremont.com
Website: www.degremont-technologies.com

Year Established: 1894
of Farm Projects: N/A
of Biogas Projects: 300+

Infilco Degremont, Inc. provides high-performance livestock waste treatment solutions for any size waste flow and virtually any influent condition. They are involved in every stage of a project – from process design to equipment supply to operations training. Careful evaluation of each application means our customers receive the most efficient combination of technology and products at the lowest overall cost. The design engineers look at the entire treatment line to find ways to improve waste treatment efficiency, thus minimizing solids to be disposed and maximizing biogas generation to ensure faster return on investment. They also handle drinking water treatment and wastewater applications like primary, secondary, wastewater reuse, and stormwater management for municipalities around the country. Industries, too, benefit from diverse solutions, including physical-chemical treatment, packed-bed demineralization, ion exchange, reverse osmosis, and aerobic/anaerobic biological systems.

Innovative Environmental Products

Frank Miller
28 Main Street, PO Box 72
Livonia, NY 14487

Tel: (585) 346-3789
Fax: (585) 346-9061
Email: FCMiller-IEP@rochester.rr.com
Website: www.iepworld.com

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

Innovative Environmental Products provides a patented process for the capture and control of manure nutrients in liquid manure pre or post digestion. They can achieve remarkable manure nutrient and solids reduction. Levels of removal of constituents from the manure in the filtrate include: phosphate – 98+% reduction; organic nitrogen – 90% reduction; fecal matter – 99% reduction; and manure solids – >95% reduction.

INTEGRITY Ag Systems

Tim Rensch
4755 Innovation Way
Chambersburg, PA 17201

Tel: (717) 261-5711
Fax: (717) 263-7399
Email: trensch@integrityagsystems.com
Website: www.integrityagsystems.com

Year Established: 2001
of Farm Projects: 10
of Biogas Projects: 10

INTEGRITY Ag Systems provides a wide array of customizable clean-tech products, equipment, and solutions for cost-effective manure management. INTEGRITY systems help farmers reduce reliance on non-renewable fossil fuels through anaerobic digester and supporting technology. INTEGRITY systems help farmers more effectively protect surrounding watersheds from nutrient overloading and control odor for better community relations.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of System Components



John Zink Company, LLC

Aron Katz
11920 East Apache
Tulsa, OK 74116

Tel: (918) 234 2791
Fax: N/A
Email: Aron.Katz@johnzink.com
Website: www.johnzink.com

Year Established: 1929
of Farm Projects: N/A
of Biogas Projects: 800+

With more than 800 biogas flare systems in operation, John Zink Company, LLC is the leader in advanced landfill flare systems. We offer standard or custom landfill systems including enclosed, elevated, and rental systems, blower skids, and our Ultra Low Emissions (ZULE) flare system which offers the lowest emissions and highest destruction efficiency available. John Zink also provides advanced technology for CDM and carbon credit projects in the landfill, waste water, and agricultural markets. We have engineering representatives, licensees, and distributors in more than 60 countries, and are able to manufacture and offer design and sales support locally.

Karl Dungs, Inc.

Erik Tate
524 Apollo Drive
Lino Lakes, MN 55014

Tel: (651) 792-8919
Fax: (651) 792-8912
Email: etate@karldungsusa.com
Website: www.dungs.com

Year Established: 1997
of Farm Projects: 6+
of Biogas Projects: 6+

Karl Dungs, Inc. is a wholly owned subsidiary of Karl Dungs GmbH, a German manufacturer of gas controls. Our product line consists of fuel supply controls, suitable for Bio Methane, including: Manual and Automatic Shut-off Valves, Gas Filters, Pressure Reducing and Zero Governor Regulators. Dungs can also supply "Pre-Engineered" value added fuel trains from 1" (DN25) - 8" (DN200). Inventory in the U.S. carrying UL/UR, FM, CSA, and/or CE approvals, suitable for NFPA37, UL2200, and/or CSA B149.1 & B149.3. They service North and South American markets.

Kompogas AG

W. Schmid Rohrstrasse 36
Glattbrugg, CH-8152

Tel: (411) 809-7100
Fax: (411) 809-7110
Email: info@kompogas.ch
Website: www.kompogas.ch

Year Established: 1991
of Farm Projects: 3
of Biogas Projects: 30

Kompogas AG 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 North America, Inc.

David Millan
850 S. Via Lata, Suite 112
Colton, CA 92324

Tel: (909) 783-3636
Fax: (909) 825-0591
Email: dmillan@landtecna.com
Website: www.landtecna.com

Year Established: 1991
of Farm Projects: 22
of Biogas Projects: 300+

The LANDTEC system is a comprehensive solution that begins with in-line gas flow measurement and sampling devices, includes portable gas analyzers, continuous stationary monitoring systems, and world class analytical software. Decades of experience and field proven technology evolved into the means to maximize gas production and still maintain a healthy anaerobic process. Given the dynamic nature of biogas generation, constant evaluation of this process is necessary for success. The LANDTEC system provides the tools for this continuous cycle. The LANDTEC system expedites the process of submitting reports for: CDM Carbon Credit exchange; Gas-to-Energy gas production; and Environmental Compliance.

AgSTAR Industry Directory 2014

Manufacturers/Distributors of System Components



Maintenance-free Exteriors

Ken Vaughn
P.O. Box 1639
Port Aransas, TX 78373

Tel: (800) 738-0000
Fax: (888) 360-9752
Email: rhinoken@gmail.com

Year Established: 1992
of Farm Projects: N/A
of Biogas Projects: N/A

Website: www.rhinomembranes.com

Maintenance-free Exteriors authorized sales and installation of Rhino waterproofing membranes for in situ geomembrane pits, tanks, ponds, lagoons, lakes, and more. They offer support for sales, design, building, and renovation. They can do it for clients or set clients up to install their own monolithic liners and coatings. Corrosion prevention with Rhino Membranes are VOC free, monolithic, seamless, UV resistant, sustainable, and last forever. They offer free estimates.

Measurement Technology, Ltd

Phil Dixon
3413 N. Sa,
Houston Parkway W., Suite 210
Houston, TX 77086

Tel: +441582435600
Fax: +441582400901
Email: hitechsales@cooperindustries.com

Year Established: 1981
of Farm Projects: 500
of Biogas Projects: N/A

Website: www.hitech-inst.co.uk

For over 30 years, Measurement Technology, Ltd (MTL) has been a world leader specializing in the design and manufacture of continuous online biogas analyzers, wireless communications, and surge protection equipment for anaerobic digester plant installations. Instruments manufactured include portable, fixed, and custom built analyzers, complete with sample conditioning systems. As part of the global Cooper Industries Group and our regional offices and global distributor network, we are well positioned to assist customers wherever they may be.

Melfast

Victoria Lim
Fairfield, NJ 07004

Tel: (800) 486-0045
Fax: (973) 227-4024
Email: victoria@melfast.com

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

Website: www.melfast.com

Melfast is a distributor of fasteners and hardware who offers a wide range of hardware items and materials such as fasteners, screws, nuts, bolts, heads, and drives for all industries and applications. For over 25 years, Melfast has provided many industries with its highest quality fasteners, screws, nuts, bolts, heads, drives, and other hardware items. Industries served include: Alternative/Renewable Energy, Water Treatment, Steel Fabricators, Railroad Construction, Rackmount Manufacturers, Pump Manufacturers, Modular Building, Conveyor Systems and Dry-Cleaning, Mining Equipment, Highway Construction, Pallet Racking Hardware, Water Purification Plants, and Train Accessories and Components. Wholesale, bulk, and custom orders are available, including those that are difficult or one-of-a-kind items.

Modern Technology Methods, LLC

Billy Ivy
P.O. Box 3292
Thompson Bridge Road #276
Gainesville, GA 30506

Tel: (404) 287-2624
Fax: (404) 287-2624
Email: info@moderntechnologymethods.com

Year Established: 2009
of Farm Projects: 3
of Biogas Projects: 3

Website: www.moderntechnologymethods.com

Modern Technology Methods, LLC, a 100% American owned company, offers turn-key thermophilic anaerobic digestion systems designed to cleanly and efficiently convert chicken waste into high percentage methane (biogas) and fertilizer with commercial, industrial, and agricultural applications.

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Manufacturers/Distributors of System Components



Measurement Technology, Ltd

Phil Dixon
3413 N. Sa,
Houston Parkway W., Suite 210
Houston, TX 77086

Tel: +441582435600
Fax: +441582400901
Email: hitechsales@cooperindustries.com
Website: www.hitech-inst.co.uk

Year Established: 1981
of Farm Projects: 500
of Biogas Projects: N/A

For over 30 years, Measurement Technology, Ltd (MTL) has been a world leader specializing in the design and manufacture of continuous online biogas analyzers, wireless communications, and surge protection equipment for anaerobic digester plant installations. Instruments manufactured include portable, fixed, and custom built analyzers, complete with sample conditioning systems. As part of the global Cooper Industries Group and our regional offices and global distributor network, we are well positioned to assist customers wherever they may be.

Melfast

Victoria Lim
Fairfield, NJ 07004

Tel: (800) 486-0045
Fax: (973) 227-4024
Email: victoria@melfast.com
Website: www.melfast.com

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

Melfast is a distributor of fasteners and hardware who offers a wide range of hardware items and materials such as fasteners, screws, nuts, bolts, heads, and drives for all industries and applications. For over 25 years, Melfast has provided many industries with its highest quality fasteners, screws, nuts, bolts, heads, drives, and other hardware items. Industries served include: Alternative/Renewable Energy, Water Treatment, Steel Fabricators, Railroad Construction, Rackmount Manufacturers, Pump Manufacturers, Modular Building, Conveyor Systems and Dry-Cleaning, Mining Equipment, Highway Construction, Pallet Racking Hardware, Water Purification Plants, and Train Accessories and Components. Wholesale, bulk, and custom orders are available, including those that are difficult or one-of-a-kind items.

Modern Technology Methods, LLC

Billy Ivy
P.O. Box 3292
Thompson Bridge Road #276
Gainesville, GA 30506

Tel: (404) 287-2624
Fax: (404) 287-2624
Email: info@moderntechnologymethods.com
Website: www.moderntechnologymethods.com

Year Established: 2009
of Farm Projects: 3
of Biogas Projects: 3

Modern Technology Methods, LLC, a 100% American owned company, offers turn-key thermophilic anaerobic digestion systems designed to cleanly and efficiently convert chicken waste into high percentage methane (biogas) and fertilizer with commercial, industrial, and agricultural applications.

NETZSCH Pumps North America, LLC

John Yacilla
119 Pickering Way
Exton, PA 19341

Tel: (610) 363-8010
Fax: (610) 363-0971
Email: marketing@netsch.com
Website: www.netschusa.com

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

NETZSCH Pumps North America, LLC is the North American subsidiary of the globally operating group of NETZSCH companies. For over five decades NETZSCH has been manufacturing and supplying NEMO[®] Progressing Cavity Pumps and TORNADO[®] Rotary Lobe Pumps, screw pumps, macerators/grinders, dosing systems and accessory equipment for custom built and challenging solutions for your applications. As the world's market leader of Progressive Cavity Pumps our innovative, premium quality products are known and valued all over the world.

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Manufacturers/Distributors of System Components



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.

OMI Industries, Inc.

Stephen Lattis
1 Corporate Drive, Suite 100
Longrove, IL 60047

Tel: (847) 304-9111
Fax: (847) 304-0989
Email: lattis@omi-industries.com
Website: www.omi-industries.com

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

OMI Industries is a leading developer of safe and effective industrial odor management solutions for a wide variety of applications.

Organic Waste Systems (OWS), Inc.

Norma McDonald
7155 Five Mile Road
Cincinnati, OH 45230

Tel: (513) 535-6760
Fax: (513) 233-3395
Email: norma.mcdonald@ows.be
Website: www.ows.be

Year Established: 1985
of Farm Projects: 4
of Biogas Projects: 28

Organic Waste Systems (OWS) is composed of two divisions: (1) laboratory services for biogas potential testing and biochemical monitoring, and (2) biogas plant design build services including dry, high solids digestion.

Pneumatech, LLC

Jim Donohue
4909 70th Avenue
Kenosha, WI 53144

Tel: (262) 658-4300
Fax: (262) 658-1945
Email: jdonohue@pneumatech.com
Website: www.pneumatech.com

Year Established: 1966
of Farm Projects: 100+
of Biogas Projects: 100+

Pneumatech, LLC is a manufacturer of biogas dryers and treatments equipment.

Pro-Act Biotech

Bill Donohue
P.O. Box 345
Warren, RI 02885

Tel: (800) 772-3775
Fax: (401) 633-6270
Email: Bill@proactbiotech.com
Website: www.proactbiotech.com

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

Pro-Act Biotech, 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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Manufacturers/Distributors of System Components



ProSonix, LLC

Tom Podwell
P.O. Box 26676
Milwaukee, WI 53226-0676

Tel: (800) 849-1130
Fax: (414) 755-7177
Email: tpodwell@psxllc.com
Website: www.pro-sonix.com

Year Established: 2006
of Farm Projects: 10+
of Biogas Projects: 10+

ProSonix, LLC specializes in the design and manufacture of Direct Steam Injection heating solutions for water, slurry, sludge, and aggressive fluids. Their products are capable of handling difficult to pump fluids with high viscosity or high solids, and contain fibrous materials. They have expertise in industrial and municipal wastewater, anaerobic digestion, and biogas recovery.

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

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

Proteus Texas Power comprises experts in natural gas transportation, marketing, and project development.

Renewable Carbon Management, LLC

Jim McNelly
44 28th Avenue North, Suite J
Saint Cloud, MN 56303

Tel: (320) 253-5076
Fax: (320) 253-4976
Email: rcm@composter.com
Website: www.composter.com

Year Established: 1975
of Farm Projects: N/A
of Biogas Projects: N/A

Since 1992, Renewable Carbon Management, LLC has designed and built in-vessel, containerized intermodal based digestion systems, and aerobic and dry anaerobic digesters with heat exchange, for managing a variety of biomass residuals, including wastewater treatment solids, manure, and food scraps.

Ro-Flo Compressors, LLC

Dennis Wacker
2611 E. Winslow Avenue
Appleton, WI 60004

Tel: (847) 421-4862
Fax: (920) 574-2654
Email: dwacker@roflocompressors.com
Website: www.roflocompressors.com

Year Established: 2007
of Farm Projects: N/A
of Biogas Projects: 300+

Ro-Flo Compressors, LLC is the leading supplier of rotary sliding vane compressors to the Oil and Gas, Biogas, and Industrial markets. Ro-Flo's proven designs are in service in over 40 countries. Ro-Flo applications compress the most challenging gas streams in the world's most difficult locations. Ro-Flo's Rapid Ship™ programs yield same day parts shipments, two-day lead on select compressor models, and best-in-class lead times on build-to-order compressors. Recognized for the ability to handle wet and corrosive gas streams, Ro-Flo is the acknowledged compression technology choice for the "nastiest" gas. Ro-Flo's Rotary Test Center (RTC) is capable of objective performance testing of compressors, pumps, turbo expanders and other equipment. The RTC offers rapid and expert response to test inquiries and projects.

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Manufacturers/Distributors of System Components



Sage Metering, Inc.

Bob Steinberg
8 Harris Ct. D-1
Monterey, CA 93940

Tel: (831) 242-2030
Fax: (831) 655-4965
Email: bob@sagemetering.com
Website: www.sagemetering.com

Year Established: 2002
of Farm Projects: 12
of Biogas Projects: 36

Sage Metering, Inc. manufactures high performance NIST Traceable Thermal Mass Flow Meters for digester gas, biogas, and landfill gas. The popular Sage Prime Flow Meter is easy to install and provides a display of instantaneous flow rate, totalized flow (consumption), and temperature; as well as 4-20 ma outputs of flow rate, pulsed outputs of totalized flow, and modbus[®] communication. Sage has many unique features and diagnostics, such as an in situ "field zero calibration check" that takes only one minute to check the sensor's performance, to verify that the sensor is clean, and to assure that there is no shift or drift in the flow meter. In addition, the Sage technology has tremendous sensitivity with negligible pressure drop, and hence can detect extremely low flow rates, typical of landfill gas and biogas applications. Sage Flow Meters feature a turn down of at least 100 to 1 with resolution of 1000 to 1.

Spencer Turbine Company

Chet Adamczyk
600 Day Hill Rd
Windsor, CT 06095

Tel: (860) 688-8361
Fax: N/A
Email: cadamczyk@spencerturbine.com
Website: www.spencerturbine.com

Year Established: 1892
of Farm Projects: 10
of Biogas Projects: 400

Spencer Turbine Company offers a wide selection of gas boosting blowers to include cast, hermetically sealed, and regenerative units. Capabilities include turn-key, gas filtering, and boosting skids to include all controls.

Streisal GmbH

Peter Starz
Pettermandstraße 2
Württemberg, D-88239

Tel: +49-7522-80450
Fax: +49-7522-707965-0
Email: p.starz@streisal.de
Website: www.streisal.de

Year Established: 1988
of Farm Projects: 800
of Biogas Projects: 700

Founded in 1988 as a manufacturer of submersible motors, Streisal GmbH develops, manufactures, and globally markets innovative agitators and mixing systems for biogas plants, wastewater technology and industrial applications, such as: Submersible mixers from 1-18,5 kW (medium and slow-speed, with propeller diameters of up to 2,8 m), rod agitators, long-axis agitators, and vertical agitators. Based on many years of experience and knowledge gained from numerous mixing experiments in their fluid mechanical laboratory, they are able to supply custom solutions for unusual problems beside a comprehensive range of standard components. Services include expert advice, professional servicing and maintenance, and spare parts supply and repair.

SUMA America, Inc.

Eugene Smith
855 North Wood Dale Rd., Ste. A
Wood Dale, IL 60191

Tel: (312) 945-9049
Fax: (630) 354-6840
Email: gene@gosuma.com
Website: www.gosuma.com

Year Established: 1957
of Farm Projects: 1000+
of Biogas Projects: 1000+

Founded in Germany in 1957 as a manufacturer of mixers for manure handling, SUMA entered the biogas market at its conception in Europe and has grown with it. Today, with subsidiaries, partner companies or representatives in the USA, Canada, Brazil and Thailand, SUMA is a global leader and innovator of mixers and agitators for anaerobic digesters and related applications. SUMA products are installed in thousands of installations in more than 20 countries in Europe, Turkey, the USA, Canada, Brazil, Thailand, Indonesia, South Korea, Japan and China. In North America, SUMA is well established to support its customers, with multiple inventory points as well as factory trained service personnel. Based on decades of experience and dedication to the biogas market, SUMA provides customers with the most reliable and cost effective mixing solutions possible.

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Manufacturers/Distributors of System Components



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

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. It also manufactures a complete line of heavy-duty chopper pumps.

Vogelsang

Rich Owens
7966 SR-44
Ravenna, OH 44266

Tel: (330) 296-3820 x301
Fax: (330) 296-4113
Email: richo@vogelsangusa.com
Website: www.vogelsangusa.com

Year Established: 1929
of Farm Projects: 1200+
of Biogas Projects: 2000+

As a World leader, manufacturing high quality, extremely dependable sludge and manure handling products for the world's industrial, municipal, and agricultural markets. Our positive displacement, rotary lobe pump has pulsation free operation through the entire range of pumping. Suction lift to 25ft, run dry, bi-directional, and flows up to 5,500 US gpm & 232 PSI. RotaCut, effectively reduces solids to small particles for better digestion. It uses self-sharpening blades, multiple cutter screen configurations, and a rock trap for high efficiency. X-Ripper provides larger solids grinding like entire hogs & food waste down to digestible size solids. EnergyJet & Quickmix provide dry fermenter mixing without a pit with increased gas production for food waste and silage. BioCrack high voltage cell lysing provides higher electro kinetic breakdown of cells for higher gas production.

Xebec Adsorption, Inc.

Valerie Sorschak
730 Boul. Industrie
Blainville, Quebec, J7C 3V4
Canada

Tel: (450) 979-8728
Fax: (450) 979-7869
Email: vsorschak@xebecinc.com
Website: www.xebecinc.com

Year Established: 1967
of Farm Projects: 7
of Biogas Projects: 13

Xebec Adsorption, Inc. is a global provider of biogas upgrading equipment. Xebec's mission is to ensure its customers receive the maximum revenue from their biogas stream whether it is from an anaerobic digester, landfill, or waste water plant. Xebec offers skid or containerized upgrading systems, and with its partners, engineering, procurement, and construction management (EPCM). Xebec's technology is based on a proven, rapid cycle PSA system which delivers high recovery and gas purity to pipeline specification. Benefits of Xebec's second generation Xebec's upgrading technology include a one step process to remove CO₂, N₂, O₂, and H₂O. Xebec's upgrading systems ensure low installation and operating costs while at the same time optimizing system uptime and availability.



Manufacturers/Distributors of Tanks

Engineered Storage Products Company

Dick Nelles
345 Harvestore Drive
DeKalb, IL 60115

Tel: (815) 756-1551
Fax: (815) 756-1659
Email: dnelles@cstindustries.com

Website:
www.cstindustries.com/products/slurrystore

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.

Octaform

Lee Drever
520 - 885 Dunsmuir Street
Vancouver, Ontario
Canada V6C1N5

Tel: (604) 408 0558
Fax: N/A
Email: lee.drever@octaform.com
Website: <http://info.octaform.com/biogastanks>

Year Established: 1997
of Farm Projects: 6
of Biogas Projects: 6

Octaform is a PVC, stay-in-place concrete forming system that is ideal for the intense demands of anaerobic digestion. In one step, Octaform forms and protects concrete, leaving a built-in, watertight, and corrosion-resistant finish that is perfect for biogas tanks.



Publishers

BioCycle Magazine

Rill Ann Miller
63 S. Seventh Street
Emmaus, PA 18049

Tel: (610) 967-4135
Fax: (610) 967-1345
Email: biocycle@jgpress.com
Website: www.biocycle.net

Year Established: 1960
of Farm Projects: N/A
of Biogas Projects: N/A

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

BioMass Magazine

Howard Brockhouse
308 2nd Ave. N., Suite 304
Grand Forks, ND 58203

Tel: (866) 746-8385
Fax: (701) 746-5367
Email: service@bbiinternational.com
Website: www.biomassmagazine.com

Year Established: 1995
of Farm Projects: N/A
of Biogas Projects: N/A

BioMass Magazine is a monthly trade publication tailored to serve companies and organizations engaged in producing or utilizing biomass power and heat, advanced biofuels, biogas, wood pellets, and biobased chemicals. In addition to policy, regulation, project finance, technology and plant management, the publication maintains a core editorial focus on biomass logistics: generating, cultivating, collecting, transporting, processing, marketing, and procuring and utilizing sustainable biomass.

Universities

Cornell University, Workplace Health and Safety Program

Nellie J. Brown, MS, CIH 237
Main Street, Suite 1200
Buffalo, NY 14203

Tel: (716) 852-1444
Fax: (716) 852-3802
Email: njb7@cornell.edu
Website:
<http://www.ilr.cornell.edu/workerinstitute/>

Year Established: 1986
of Farm Projects: 11
of Biogas Projects: 7

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. 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 Dairy Environmental Systems Program website: <http://www.manuremanagement.cornell.edu/HTMLs/Safety.htm>.

Rutgers University EcoComplex

David Specca
Bordentown, NJ 08505

Tel: (609) 499-3600
Fax: (609) 499-3647
Email: specca@aesop.rutgers.edu
Website: <http://ecocomplex.rutgers.edu>

Year Established: 1995
of Farm Projects: 3
of Biogas Projects: 6

The Rutgers University EcoComplex Research and Development Center has expertise in biogas cleanup, alternative energy, biogas to fuel technologies, and cogeneration especially for greenhouse production. They can provide consulting services for project development.

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Universities



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
Website: www.biogas.ifas.ufl.edu

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

Dr. Ann C. Wilkie (Professor, Soil and Water Science Department, University of Florida - Institute of Food and Agricultural Sciences) specializes in BioEnergy and Sustainable Technology, with particular emphasis on anaerobic microbiology and biomass to biofuel conversion. An internationally recognized expert in anaerobic digestion and biogas technology, Dr. Wilkie's research interests include: renewable energy production from biomass and organic residues; livestock waste management technology for odor control, bioenergy production, nutrient recovery and water quality improvement; feedstock co-digestion and diversion of food waste from landfills; biogas generation from bioethanol and biodiesel by-products; algal biotechnology for biofuel production and nutrient recovery; agricultural and industrial waste treatment, and greenhouse gas mitigation.

University of Massachusetts Amherst

Dr. Chul Park, Ph.D.
18 Marston Hall
Amherst, MA 01003

Tel: (413) 577-3272
Fax: (413) 545-2202
Email: cpark@ecs.umass.edu
Website: <http://cee.umass.edu/>

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