



## What AgrEnergy Can Do for You

If you're considering making energy from biogas, AgrEnergy can supply the least energy-consuming plant available to guarantee the highest net contribution of green energy to the owner and client grid.

Our installations include above-ground, complete-mix digesters fabricated using the latest technology, all managed by Web-based SCADA systems providing project or plant sustainability while minimizing operating and management costs.

At AgrEnergy, we understand that expertise with the latest hardware and software certainly is not a "Holy Grail" to business sustainability for our clients, partners and us. There is an additional human element -- important to providing the highest level client support possible. We presently retain and continuously seek the best talent, who possess considerable technical skills and a thorough understanding of the industry.



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RENEWABLE ENERGY SOLUTIONS

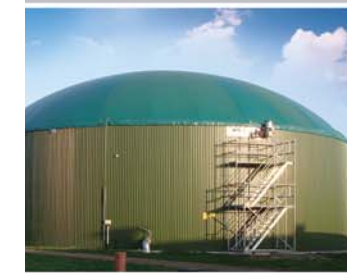


Harvesting America's Energy™

BIOGAS

WIND

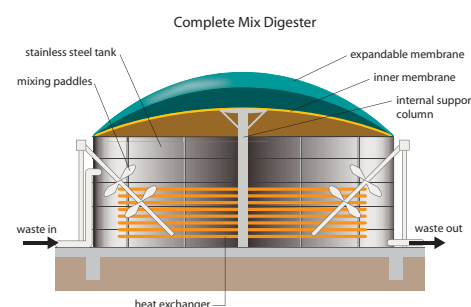
SOLAR



## ■ Anaerobic Digestion

A complete-mix digester uses anaerobic digestion to recycle organic farm waste. Manure is collected in a large stainless steel tank and the methane gas is trapped under an expandable air-tight cover. The captured biogas can be used for electrical and steam generation, and process heating. The organic nitrogen present in the manure is converted to ammonia and the processed manure can be returned to the field as fertilizer.

- Renewable Energy Resource
- Animal Waste Management
- Groundwater Quality Control
- Greenhouse Gas Reduction
- Odor and Insect Control



## ■ Innovation and Progress

The decisive secret of a well-functioning biogas plant is controlled by two factors: stirring and heating. Whether you use internal pipe wall heating or external heat transfer systems, AgrEnergy will provide a custom-made system to meet your specifications.

Our state of the art technology supplies the least energy consuming plant available to guarantee the highest net contribution of green energy to the owner and client grid.

- Customized Individual Solutions
- High Grade Stainless Steel Construction
- Complete Installation
- Training

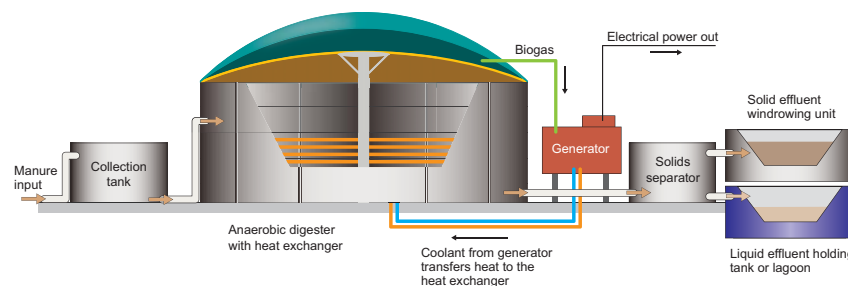


## ■ Biogas Generation

A typical biogas generation system will consist of a container for pre-mixing the organic waste, a digesting tank, and components for storing or using the collected biogas and the liquid and solid by-products of the digested waste material.

If the system is designed to produce electricity, additional components will usually include a combustion engine, generator, waste heat recovery and power conditioning equipment, and a computerized control system.

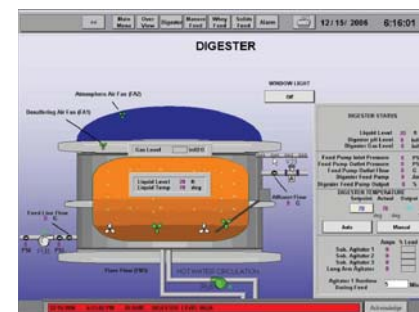
A large system can actually produce enough electricity so that selling electricity back to the local utility company is an option at peak production times.



## ■ Automated Control

The AgrEnergy system includes automated software monitoring of the biogas renewable energy production process. Detailed analysis of the system is available to you 24/7 from any location via web-based management software that minimizes operating costs.

- Energy Management Control
- Power Systems Integration
- Web-based Remote Monitoring
- Technical Support



## ■ Financial Incentives

The cost of implementing a biogas system depends on the specific conditions and requirements of the individual farm. As with just about everything else, biogas systems benefit from economies of scale; the larger the system, the quicker the return on investment.

The biogas generated from a typical digester will normally supply enough energy for a farm's electrical and heating needs. Additional savings include a substantial reduction in the cost of fertilizer and a total elimination of the cost of waste disposal.

Many states offer financial incentives in the implementation of biogas generation systems in the form of grants and tax breaks. Contact your local chamber of commerce or state energy department to find out the programs available in your area.

More information can be found at these websites:

- [www.dsireusa.org](http://www.dsireusa.org)
- [www.focusonenergy.com](http://www.focusonenergy.com)
- [www.agrenergylc.com](http://www.agrenergylc.com)



## ■ More Renewable Energy Solutions

In addition to biogas generation systems, AgrEnergy LLC offers alternate energy using utility grade electrical generators, wind turbines and solar panels to assist in the electrical power needs of agricultural, commercial and residential operations.

Visit [www.agrenergylc.com](http://www.agrenergylc.com) to learn more about these systems.

- Utility Grade Generators for Capacity Fee
- Wind Turbines
- Solar Panels

