

Our Company

As a fast growing company in the emerging renewable energy industry, Phase 3 Renewables (PHASE 3) specializes in the development and commercialization of waste to renewable energy systems. PHASE 3 chooses to focus on farms first. The self sufficiency and flexibility of farmers, ever-rising energy costs and environmental concerns, along with a ready supply of raw materials, make the generation of renewable energy a practical and economically feasible solution for farm operations.

Whether you're looking to reduce odor and pathogens or generate energy or income, we can build a customized, complete turn-key system for your operation. We have the experience, capabilities, resources and products needed to make your project a success.

Our Client Focus

We stand apart in the industry by offering you a full scope of services and products. You can select the level of services and specific products to meet your individual needs.

Because each project has unique aspects and many alternatives, PHASE 3 has developed a proprietary decision-support software tool called PATHWAYS 2 PROFIT™. This tool integrates data from your specific site and other operating systems around the world to provide you the financial and operational perspective needed to make intelligent system choices.

Our Technology Focus

We feel strongly about the importance of investing time and resources in new technologies to make systems both less expensive to buy, build, and operate, and to provide optimum revenue options for your operation.



*Phase 3 Renewables is a trade name of
Phase 3 Developments & Investments, LLC.*

Phone: 513-265-2758

Fax: 330-319-8152

www.phase3renewables.com



PHASE 3
RENEWABLES

3754 N Shore Dr. Akron, OH 44333

www.phase3renewables.com



PHASE 3
RENEWABLES

*Intelligent Options for
Waste, Energy & Revenue*

**Biogas Upgrading
Systems
(BUS™)**

**Design, Equipment
& Installation**



2008 Chevy Silverado C1500 CMG Conversion
California Air Resources Board (CARB) certified



*Contact us today to see how we can
turn your **by-product** into **energy!***

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Our Biogas Upgrading Systems

PHASE 3 has made upgrading biogas to pipeline quality standards a viable option for your farm. PHASE 3 markets two pre-assembled, fully integrated Biogas Upgrading Systems (BUS™).

Each PHASE 3 BUS™ contains the equipment needed for a complete biogas upgrading system. The systems are farm-friendly, easy to operate and maintain, and have low parasitic energy requirements.

The systems have small footprints and require only 30 minutes a day for monitoring and maintenance.

With pre-assembled skids, equipment integration considerations and capacity requirements are already factored in and site construction is minimized.

The equipment components of each BUS™ are relative to its capacity and consist of a heat exchanger, scrubbers, a compressor, an aftercooler, a pressure swing absorption unit, control valves, transmitters, a gas analyzer and an exhaust blower.

PHASE 3 BUS A™ processes between 75-170 scfm of biogas.

PHASE 3 BUS B™ processes between 225-350 scfm of biogas.

Our Process

As a full-service provider, PHASE 3 can assist you every step of the way.

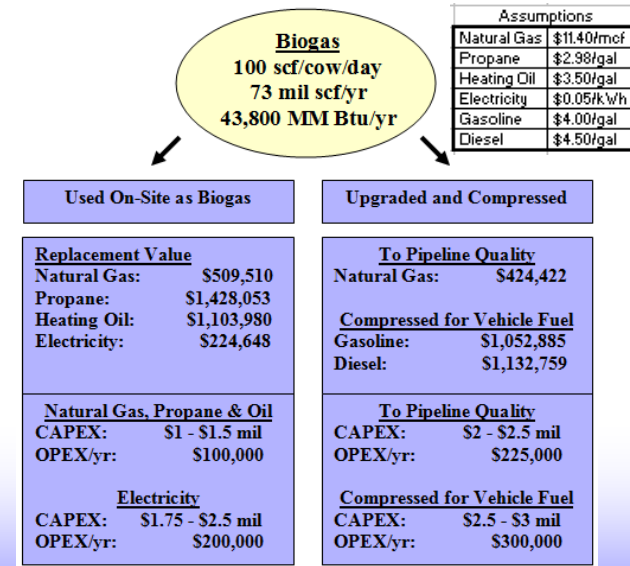
- ◇ Identify your site-specific biogas potential
- ◇ Develop system integration requirements for your current operation and those of your local utility company
- ◇ Provide technical and economic feasibility studies
- ◇ Assist in securing financing
- ◇ Provide detailed engineering of the equipment, distribution and process
- ◇ Construct and install the system, collaborating with the best equipment suppliers and local construction companies in the industry
- ◇ Coordinate and support the start up and commissioning of your system
- ◇ Provide on-going maintenance and service support

Our goal is your successful project!

Consider the Choices

Biogas can be converted for multiple uses: on-site for heating and/or electricity, or upgraded for pipeline quality gas or vehicle fuel.

This chart represents the potential of a 2,000-head dairy operation; its biogas potential, options for biogas use and the relative values of each.



PHASE 3 Intelligent Options for Waste, Energy & Revenue

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