

AGRICULTURE SUCCESS STORY

Ringler Energy Anaerobic Digestion/Electricity Generation Ashley, Ohio, United States

quasar energy group

OVERVIEW OF AGRICULTURE PROJECT:

Ringler Energy is a model for sustainable agriculture. The anaerobic digestion (AD) system will enable responsible manure management, while providing radiant heat to the operation as well as electricity that will be sold to the public utility grid. Regional businesses are given the opportunity to manage their organic waste at the facility, which will generate 800 kW hours of electricity or 550 gasoline gallon equivalents of vehicle fuel per day. The compressed natural gas fueling station is phase two of the project, and will provide cleaner burning fuel to the farm's fleet. The AD process also generates a nutrient-rich byproduct that can replace chemical fertilizers and improve soil quality. The system creates a closed loop model that can be replicated on other large-scale hog and dairy farms.

PROJECT EXPECTED START DATE: Early 2013

ACTUAL ANNUAL EMISSION REDUCTIONS: 4,265 MTCO₂E

PROJECT DETAILS

- **Site Name:** Ringler Energy
- **Geographic Location:** Ashley, Ohio, United States
- **Type of feed stock(s):** Manure, regional organic residuals
- **Installed cost:** Approximately US \$5 million
- **System type and components:** Anaerobic digestion system, composed of biomass receiving, biomass equalization tank, 750,000-gallon main digester tank with membrane roof, combined heat and power (CHP) unit, flare and control system.

PROJECT HIGHLIGHTS

- The system creates a closed loop model that can be replicated on other large-scale hog and dairy farms.



Ringler Farm in Ashley, Ohio, United States

FOR MORE INFORMATION

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