PROGRESSIVE AGRICULTURE

Anaerobic Digestion on a Third Generation Farm in Ashley, Ohio

quasar energy group

Ringler Energy

For three generations the Ringler family has raised livestock with special emphasis on nutrient utilization, innovative transportation, and by-product management. The livestock division of the Ringler family raises quality pork throughout Pennsylvania, Ohio and Indiana.

THE RINGLER PROJECT

Location: Ashley, Ohio

Project Completion: April 2013

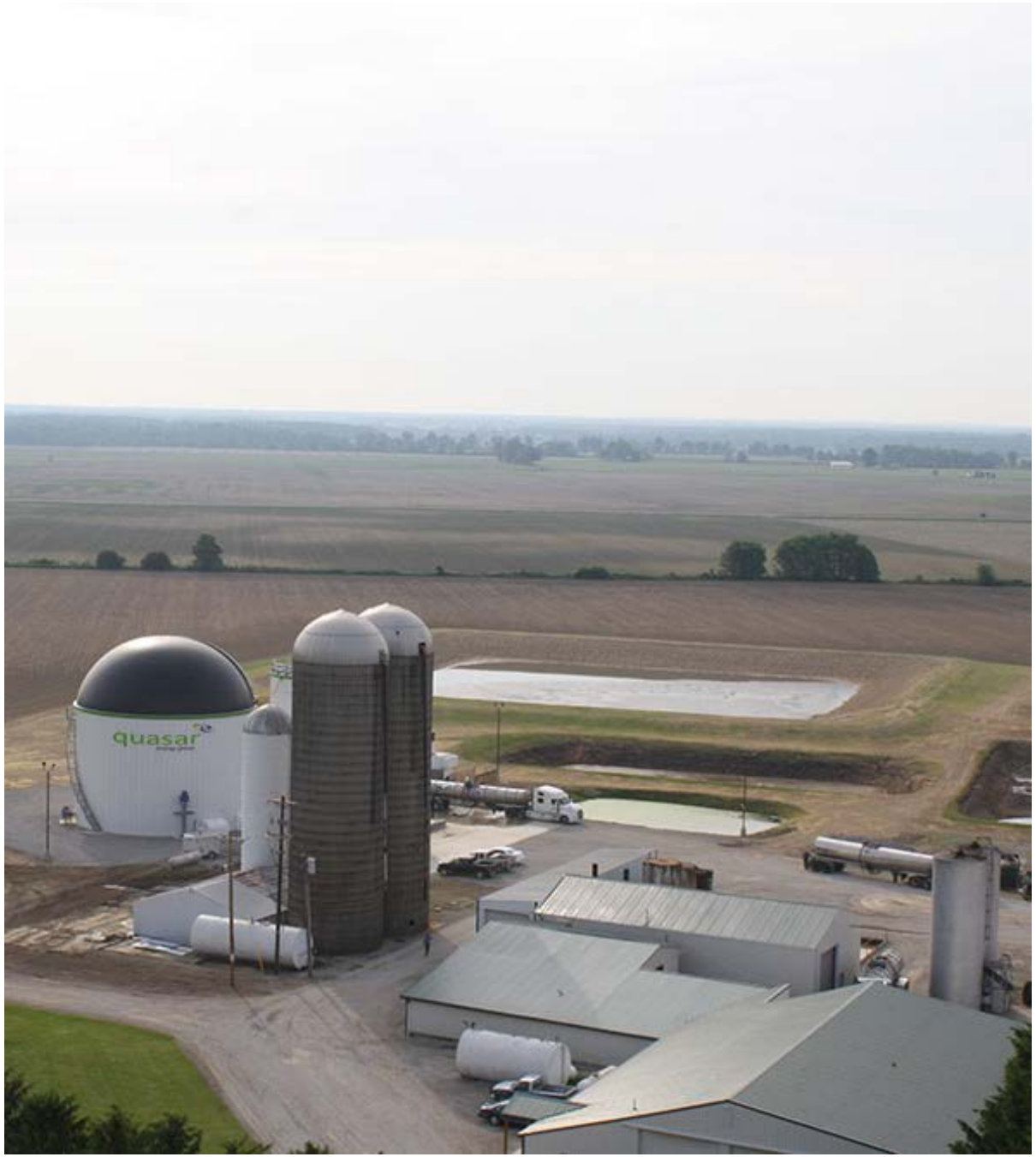
Digester Capacity: 980,000 gallons

Generator: 800 kW

Animals: 7,000

Feedstocks: Manure, Food-Waste, Biosolids, and FOG

Grant: 2011 USDA REAP Award
$500,000 grant
$2,750,000 loan guarantee



WHY ANAEROBIC DIGESTION?

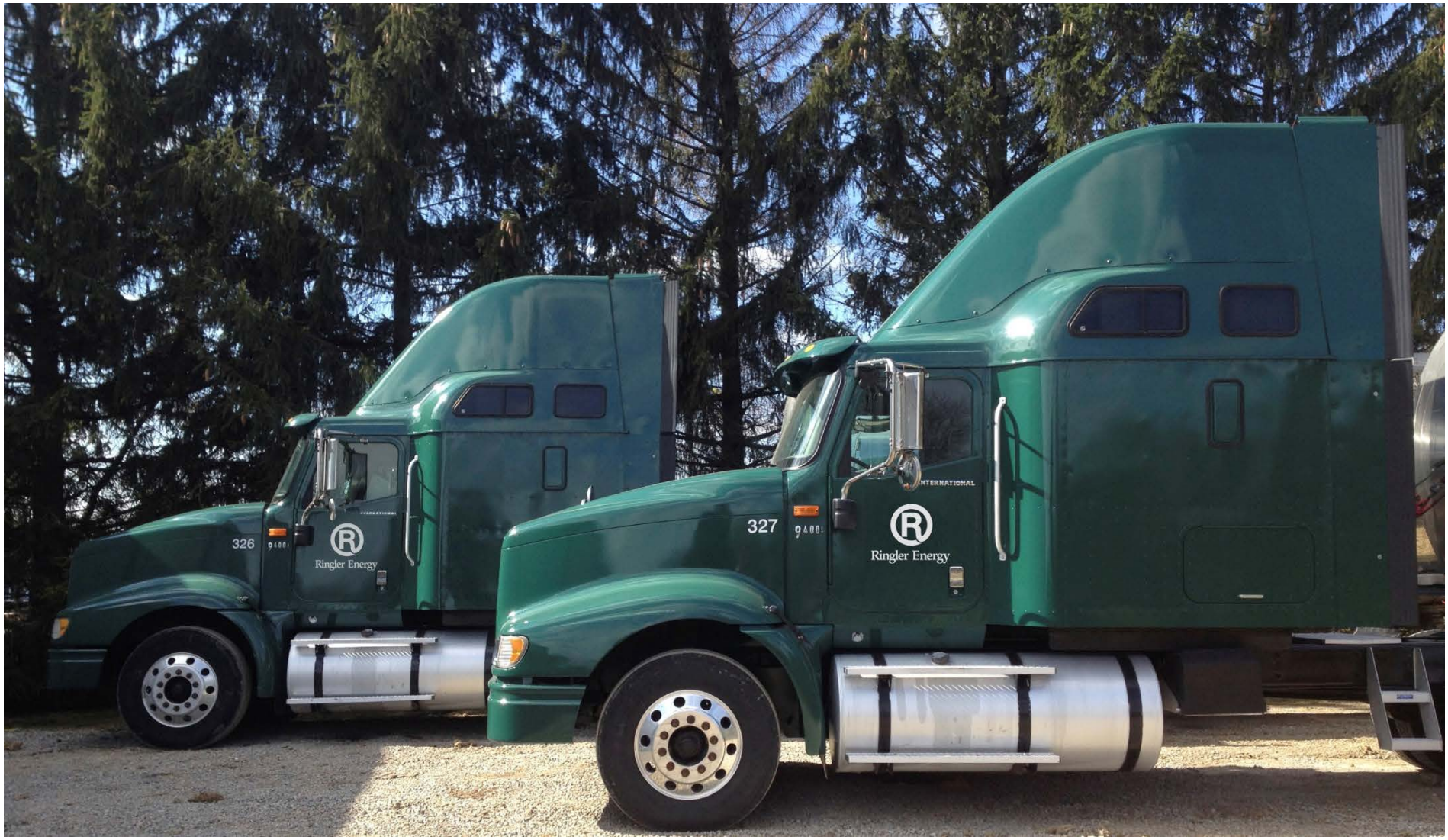
- **Manure Management**
- **Full Service Residual Solution**
- **Control Energy Costs**

  Electricity for on farm use and sale to the grid.

  Heat to cook residuals for hog feed.

  CNG to run fleet of 40 trucks.

- **Reduce normal farm odors**
- **Ringler is in talks with quasar to build a second project in Dayton, Ohio.**

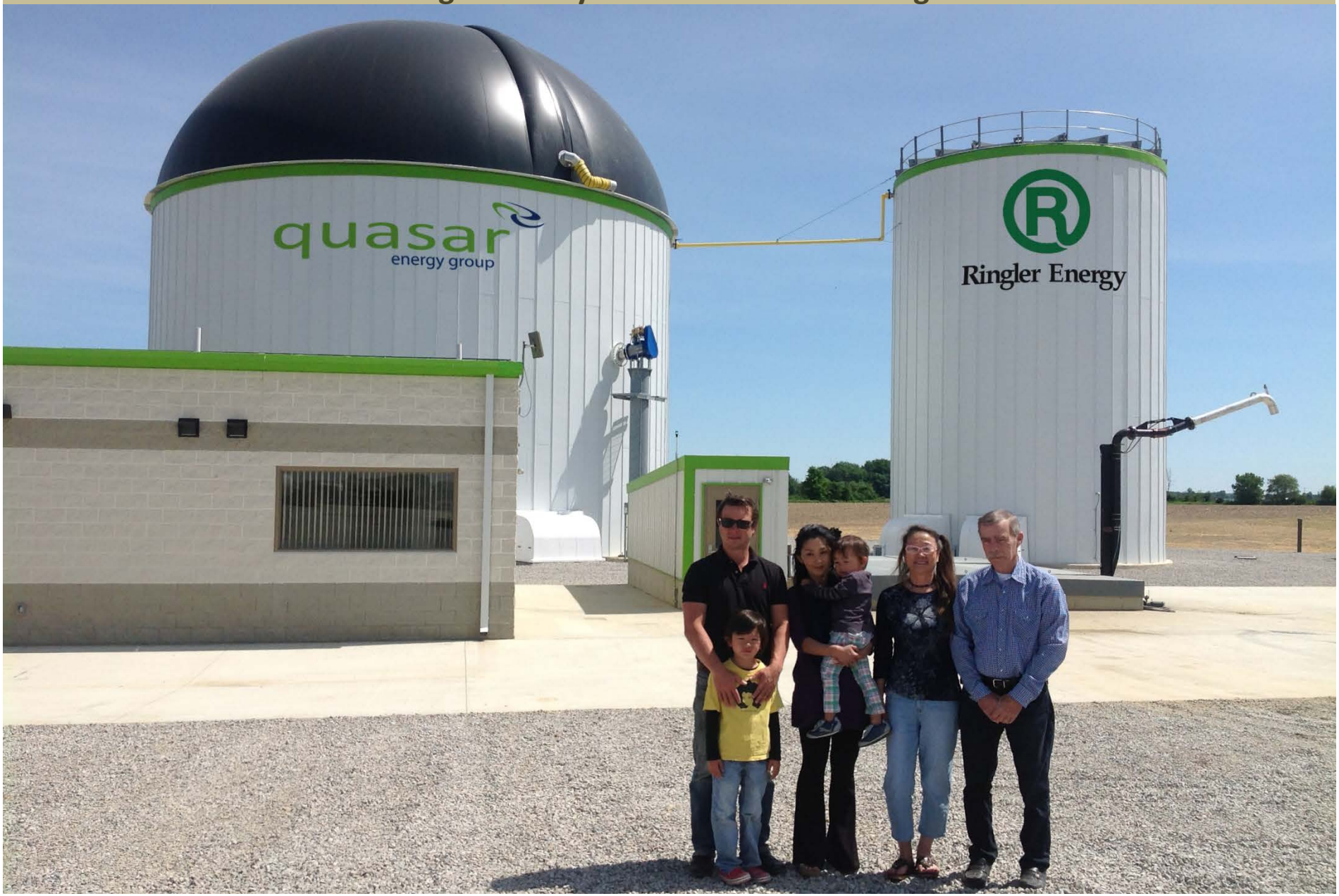


CNG Fuel from BioGas: Ringler is already planning Phase II of the project which will include the installation of biogas upgrade equipment and a CNG fueling station. Most of the fuel will be used to power our fleet of 40 trucks that are used to transport within our operations. We expect the fueling station will **reduce our fuel costs by one-third to two-thirds** depending on the market value of diesel fuel.

HOW DO WE ENCOURAGE MORE SWINE DIGESTER PROJECTS?

Progressive Agriculture: to stay competitive we need to constantly progress.
Successful digester projects need to step up as examples to other farmers who could also benefit from energy generation, manure management, odor reduction and stronger relationships with residual sources. The technology is not new – and we are demonstrating that it works in Ashley, Ohio.

The Ringler Family and their Anaerobic Digester



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