

PRAIRIE'S EDGE DAIRY FARM, LLC in Fair Oaks, IN

18,000 COWS

Type of digester: Modified plug flow

Manure input:
450,000
gallons/day

Average temperature of digestion:
101
degrees Fahrenheit

Peak generation:
1,400
SCFM
&
1,000
kilowatts

Residence time:
15
days

Average generation:
1,000
SCFM
&
1,000
kilowatts

System designer:

Date of installation:

Total capacity of the digester:

Co-products used:

End products from digester:

Generated electricity used on farm:

Excess electricity sold:

Solids used on farm:

Solids sold off farm:

DVO & Trident Equipment

2007-2008 digester, 2015 nutrient recovery

7,000,000 gallons

No

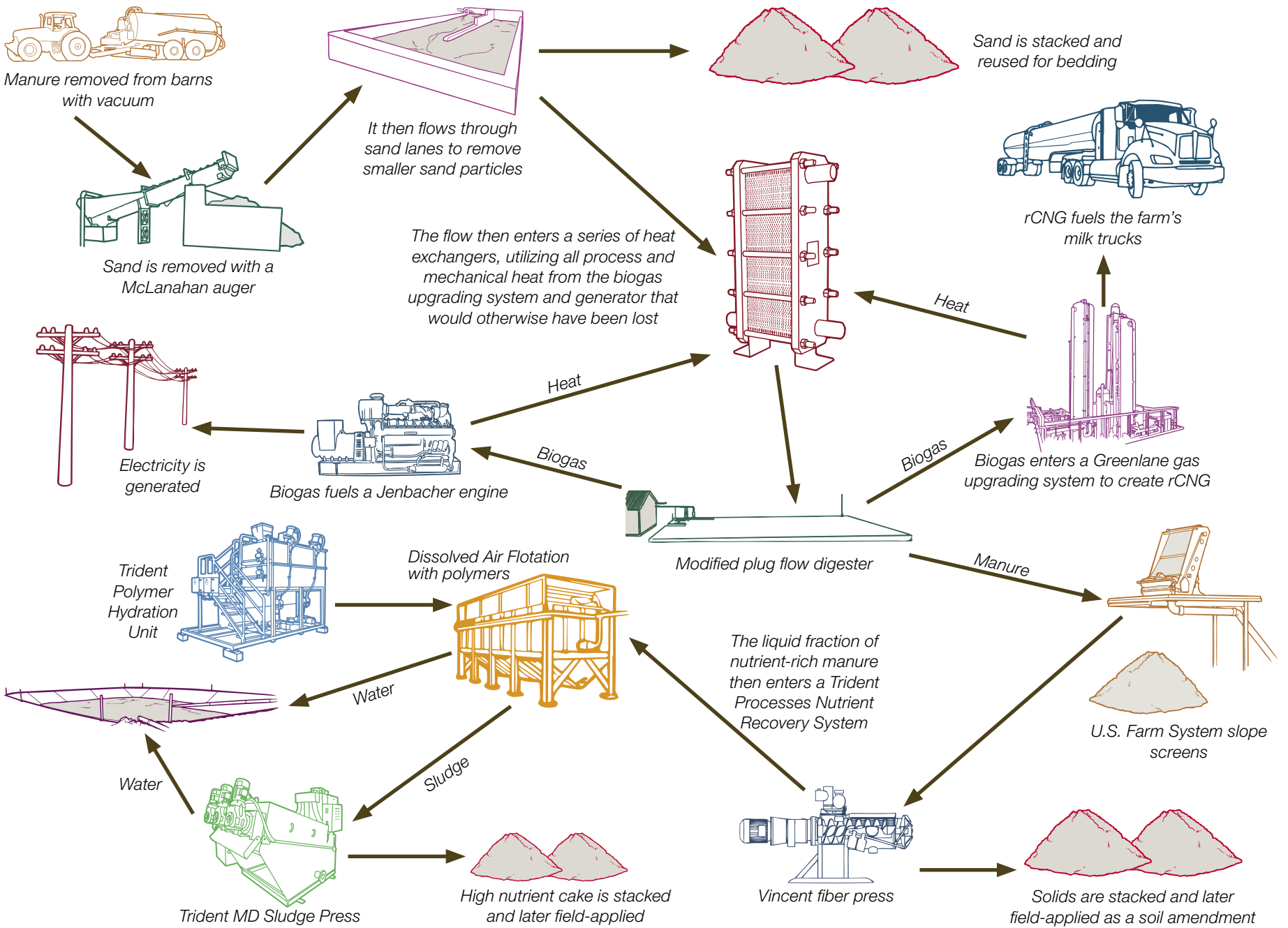
rCNG to our fleet of tanker trucks and utility supply, fiber, hi-phosphorous solids, electricity

Yes, 90 percent of electricity is used on the farm. In addition, 50 percent of rCNG is used to deliver bulk milk, and the balance is sold to the local utility company.

Yes

No

Yes



Prairie's Edge Dairy on path toward producing manure-based commercial fertilizer

Progressive Dairyman Editor **Karen Lee**

AT A GLANCE

Indiana dairy uses digester and nutrient recovery system to maximize manure's value.

Nearly a decade ago, Prairie's Edge Dairy Farm LLC in Fair Oaks, Indiana, began looking at manure as more than a byproduct of milk production. The owners decided to install an anaerobic digester to harvest the biogas and begin monetizing the value of the farm's manure.

Not only did the digester produce biogas used to fuel the farm's tanker trucks, as well as generate electricity, it started the farm on a path to explore manure's full potential as a farm commodity.

"We were able to at least monetize manure value through

biogas production in the early phases of what we have done, then after that, we have continued to look at ways to monetize manure and nutrient harvest," says Carl Ramsey, environmental manager, Prairie's

Continued on page 74