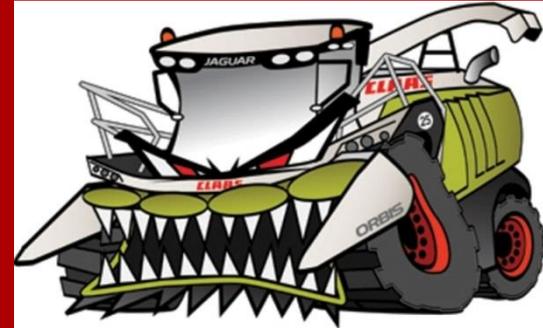


Bach Farms, LLC
Bach Digester, LLC

Steven and Linda Bach
Owner



Bach Digester -

With our Dairy expansion projects a new venture was started in 2009 with the formation of Bach Digester, LLC and expanded in 2013 to include a second digester vessel. This is an anaerobic digester that uses the manure produced by the dairy to produce methane gas that powers two 300 KW generators to produce enough electricity to power 450 homes in the surrounding area.

Mix Tank use with our Digester

- The manure, through gravity, flows from the freestall barns through 24 inch pipes into a tank which is called the “mix tank”.
 - Along with this liquid manure, 2 – 700 bushel box spreaders full of dry bedding pack, spoiled feed waste, and manger cleanings are added to the mix tank.
 - This mix tank holds 100,000 gallons of manure waste.
 - This mix may be too thick in consistency, liquid waste that is left over from the solid separation process, is added to the mixture to achieve the right thickness.
 - A portion of the mixture then enters the digester process every 30 minutes, passing into 3 different compartments (stages) of processing to produce the methane gas, which is approximately 21 days.
 - Each digester holds approximately 1 million gallons of manure
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Substrate Tank use

- We have added a separate 10,000 gallon substrate tank to our digester for storage space to allow us to control how much and when any additional substrate is added to the mix tank
- We add approximately 8,000 gallons of substrates to our digester on a daily basis

Heating Use

- The Heat that is produced by the engines is used by the farm to heat the water that is used throughout the farm. As well as heating the entire parlor, house, shops and barns.
 - This heat is also used in the digester wash bay building, heating the wash water, the building itself.
 - Heat is also used in the pasteurizer to pasteurize milk for feeding our calves.
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Steven Bach - Bach Digester, LLC

Steven and Linda Bach started farming in 1983 taking over the family farm that included 60 cows and 250 acres, from his parents and has since expanded the operation to include a 1600 head milking herd, a 1500 head replacement heifer raising facility, a 1200 head steer operation and approximately 7500 acres of farm land. And in his free time runs a custom chopping operation with 4 Claas choppers.

Bach Farms, LLC is a family farm consisting of Steven and Linda, his son Chad and his wife Cathy, and his son Nick, in Dorchester, WI.
