

DVO, Inc.

- Formerly GHD, Inc.
- Based in Chilton, Wisconsin
- Our 1st digester (patented design) in 2001



- DVO is the USA market leader, with 88 digesters at 66 sites in these U.S. states:
 - FL, GA, IA, ID, IL, IN, MA, MI, MN, NY, OH, VA, VT, WA, WI
- 25 digesters are under construction at 19 sites:
 - FL, IA, IL, KY, NC, NY, OR, VT, WA, WI
- Currently under construction at first international projects:
 - Canada, Chile, Serbia and South Korea





Mixed Waste Examples

- Organic Wastes Added to Our System In Addition to Manure:
 - Restaurant/Casino/Institution Kitchen Grease & Wastes
 - Spent Supermarket Produce
 - Cheese Whey and Milk
 - Distillers Grain
 - Cannery Waste (Vegetable and Fruit)
 - Waste from a Ravioli Sauce Plant
 - Silage Spoilage
 - Slaughterhouse Waste
 - Many, many more

Power by Biogas Gensets

- Renewable ("Green") Energy Production
 - Four Cows = 1 kW continuously (without substrate)
 - Reliable: **GENSET** run-time average 92-98%
 - Low Parasitic Load: Average <10%

Greenhouse Gas Emission Reduction

• CH4 (methane) is a 21 times more powerful greenhouse gas than CO2. DVO digesters contain and consume the methane, dramatically reducing greenhouse gas emissions from farm wastes.



Odor Control

- 97% Volatile Fatty Acid (VFA)
 Destruction per EPA AgSTAR study
 - All the waste is collected and completely contained, then the odor is "burned" in the biogas engines.
 - The digested liquid can be land applied without complaint.
 - Facilities can be located closer to populated areas (for shorter waste transport distances).
 - To obtain a farm permit, some communities are now requiring a DVO digester for odor and pathogen control.



Pathogen Destruction

Environmental Benefits

- Pathogens such as e-coli and salmonella are reduced in the digested waste – often to the point of undetectability.
- BOD and COD levels greatly reduced



Digestate Land Application

Liquid Fertilizer

- N, P and K are not destroyed by the digester. Instead, they are transformed to an inorganic state that is "plantavailable". Liquid nutrients can be land-applied to a growing crop.
- By restoring these valuable nutrients to the land, less artificial fertilizers need to be employed.
- DVO owners report increased crop yield using digested liquid fertilizer.
- Lessened likelihood of runoff
- Liquid can be pivot-irrigated

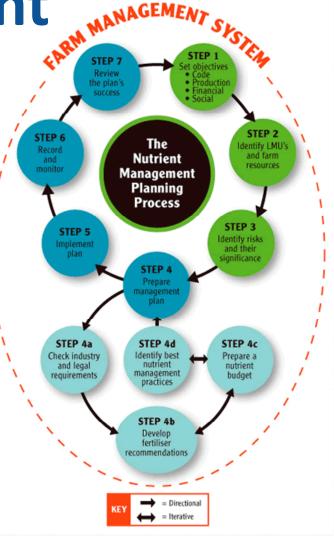


Nutrient Management

A Continuous Plan

 Reduced nitrogen & phosphorus loading by separating liquids from solids

- Lower nutrient levels allows increase in application volume per acre
- Helps farmers prepare for tighter government regulations.



Separated Solids

- Valuable & Versatile
 - High-quality cow bedding
 - Pathogen reduction
 - Somatic cell count/herd health
 - Clean cows
 - Fertilizer
 - Peat moss replacement
 - Additional revenue stream
 - Particle board



Additional Economic Benefits

- Steady Digester Revenue Helps Dairy Farmers Weather Volatility In Dairy Industry
 - "Next" generation more willing to enter industry
- Rural Economic Development!
 - Rural construction projects/jobs
 - Concrete
 - Electrical
 - Engineers, etc.
 - Potential third party investors

Questions?





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