

Conservation Practice Overview

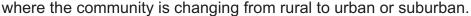
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Anaerobic Digester (Code 366)

An anaerobic digester provides biological treatment of animal waste in the absence of oxygen.

Practice Information

An anaerobic digester can be used to capture the biogas from animal manure so it can be used for energy production. It can also be used to manage odors, reduce the effect of greenhouse gas emissions, and reduce pathogens in the manure. These uses may be important





To use this practice, there must be a sufficient and suitable source of organic feedstock material, meaning that the farm operation would have to be fairly large. A 400-cow dairy would be a good starting size.

This practice may require significant time for operation and management when the biogas is used for energy production. The operator can perform this work or it can be contracted to a consultant.

An anaerobic digester does not change the volume of the material or the amount of nutrients in the waste stream. The by-products from the system will need to be utilized in accordance with the nutrient management plan.

Biogas is flammable, highly toxic, and potentially explosive. The design of the digester and gas components must be in accordance with standard engineering practice for handling a flammable gas.

This practice has a minimum expected life of 25 years. Operation and maintenance of an anaerobic digester will be specific to the type of system selected.

Common Associated Practices

Conservation Practice Standard (CPS) Anaerobic Digester (Code 366) is commonly used with CPSs such as Waste Storage Facility (Code 313), Waste Transfer (Code 634), Waste Separation Facility (Code 632), and Nutrient Management (Code 590). Installation of an anaerobic digester must be included as a component of an agricultural waste management system plan.

For further information, contact your local NRCS field office.