

World's largest on-farm livestock waste biodigesters installed in Indiana, the U.S

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One of the world's largest on-farm biodigesters was recently unveiled in Reynolds, Indiana. DVO technology powers the core of the facility. The site is operated by BioTown BioGas LLC.

DVO digesters process more agricultural waste than any other biogas company globally. It has installed more than 170 digesters on livestock and poultry facilities in the U.S. to process animal waste and convert it to valuable products. Its Two-Stage Linear Vortex[®] digester is a patented, engineered system designed to handle manure and other organic wastes. The process produces biogas, which is then converted to renewable energy, including electricity and natural gas.

The BioTown BioGas facility in Reynolds, Ind. uses DVO technology to process mixed organic waste and generate renewable natural gas, renewable electricity and fertilizer.

"BioTown BioGas keep turning to DVO as their waste stream grows. Our digesters handle multiple waste streams, we can scale to meet large volumes, and we can generate multiple forms of renewable power" said Steve Dvorak, president and founder of DVO.

Following the initial Two-Stage Linear Vortex[®] digester installation in 2011, the site was expanded in 2013 and again in 2022 with DVO technology to produce renewable natural gas. It previously only generated electricity. The facility now utilizes seven DVO Two-Stage Linear Vortex[®] anaerobic digesters to generate renewable natural gas and renewable electric power. It creates biogas from food waste, dairy manure, beef manure, swine and poultry waste, as well as other agricultural

waste.

According to BioTown BioGas calculations, the facility is expected to generate more than 42-million kilowatt-hours of renewable power per year, along with more than 3-million gallons of renewable fuel. Their digester system provides a level of carbon mitigation equivalent to removing 160,000 tons of CO₂ from the atmosphere annually.

Chad Hoerr, General Manager of BioTown BioGas believes that DVO digesters design delivers more biogas than other options in the market. DVO was responsible for system layout, digester design, and heating and mixing controls. In addition to generating biogas, the system separates and captures ammonia for fertilizer production. It also relies on DVO technology for total processing of solid inputs and heat recovery.