

Biosolids Recycling Program

2014 Annual Sustainability Report

Greene County, OH

In 2014, the Greene County Sanitary Engineering Department sent 1,755 tons of biosolids (sewage sludge) from the municipal wastewater treatment plant to a regional anaerobic digester. Biosolids are nutrient-rich organic materials resulting from the treatment of domestic sewage in a treatment facility. Anaerobic digestion further processes biosolids while capturing latent energy and retaining the nutrient value of the material. Like manure, biosolids are commonly used by farmers as a natural alternative to chemical fertilizers.

Information below represents the sustainable benefits of processing the County's biosolids and does not take into consideration other materials managed by the anaerobic digester.



* energy

Annual Renewable Electricity: 354 MWh

*That's enough electricity to power **33** homes*

or

Annual Gallons of Renewable Fuel (CNG): 25,399 gge

*Based on material's actual TS & VS.



economy

The use of anaerobic digestion to manage biosolids, as an alternative to incineration or landfill, decreases operational expenses benefiting the municipality, the rate payer and the surrounding community.



environment

Greenhouse Gas Emissions Avoided: 269 Tons of CO₂

*That's the equivalent of emissions from **581,193** mi/yr by passenger vehicles*

Nutrients Returned to the Soil: nitrogen, phosphorous, and potassium

Nutrients are applied at EPA approved agronomic rates based on individual soils samples.

