



Altoona Westerly Treatment Plant GESA Biosolids Treatment Improvements

Allegheny Township

Blair County

Bassett Engineering Inc.

Bassett Engineering is a subconsultant to Energy Systems Group (ESG) tasked with securing all necessary permits and providing site/ civil engineering for the Altoona Westerly Wastewater Treatment Plant Biosolids Treatment Improvements project.

The project includes the installation of two new anaerobic digesters which will produce biogas that will beneficially be reused as means of fuel for new biosolids volume reduction dryer and new/existing heating boilers. This will reduce Westerly's reliance of energy produced by fossil fuels as increasing the quality of the biosolids to class A being land-applied on farm fields and other agricultural practices.

Bassett Engineering also was responsible for modeling the waste-stream impacts of the digester installation in order to negative impacts on the BNR project. Which could reduce final effluent quality beyond that permitted by Westerly's NPDES.

ESG is operating under a Guaranteed Energy Savings Contract (GESC) to offer a full turnkey design-build Waste-To-Energy solution for the Altoona Water Authority. Under the GESC terms and PA Guaranteed Energy Systems Agreement (GESA) law, the project is providing both revenue and savings guarantees associated with the performance of installed equipment over a 20 year term.

Energy Systems Group

Subconsultant:

Bassett Engineering, Inc.

Project Cost:
\$33,000,000

Project Team:

Britt Bassett, PE
Keith Miller, PE
Sean McCormick, EIT
Connor Bassett, EIT
Ira Fedder, EIT

Contractor:
HRI Inc.

Timeline:
2018-2022

DEP permits obtained:

- Chapter 102 General NPDES Stormwater
- Chapter 105 Waterway Encroachment
- Water Quality Management Part II
- Air Quality Management Plan Approval



Municipal Permits obtained:

- Land Development
- Stormwater Management
- Floodplain Development



Bassett Engineering

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