

## BIOENERGY RECOVERY PROJECT

**STATE PROGRAM:** North Carolina Department of Environmental Quality

**ASSISTANCE RECIPIENT:** City of Raleigh Public Utilities Department

**ASSISTANCE AMOUNT:** \$50M



### PROJECT DESCRIPTION

The City of Raleigh is transforming a waste product from its wastewater recovery facility into fuel for their natural gas bus fleet. The City received a \$50 million Green Project Reserve loan for the Bioenergy Recovery Project (BRP), which will allow them to sustainably manage biosolids generated at the City's Neuse River Resource Recovery Facility. The bioenergy facility's innovative thermal hydrolysis pretreatment and mesophilic anaerobic digestion process increases biogas production and produces a high-quality Class A biosolids product. The process will reduce the volume of biosolids produced at the plant by 48%, significantly reducing hauling and disposal costs as well as associated emissions. Captured biogas at the BRP is used as fuel for the City's natural gas bus fleet. To maximize the benefit of the BRP, the City's Transportation Department constructed a compressed natural gas fueling station and purchased 40 compressed natural gas busses with the assistance of the Federal Transit Administration Grant funding program. The fueling station will utilize all the natural gas generated at the bioenergy facility.

To read more about this case study, please visit [https://www.epa.gov/sites/default/files/2019-11/documents/pisces\\_2019\\_compendium.pdf](https://www.epa.gov/sites/default/files/2019-11/documents/pisces_2019_compendium.pdf).