

BIOSOLIDS ENERGY EFFICIENCY PROJECT

STATE PROGRAM: Florida Department of Environmental Protection

ASSISTANCE RECIPIENT: City of Lakeland

ASSISTANCE AMOUNT: \$11.2M



PROJECT DESCRIPTION

The City of Lakeland partnered with Schneider Electric to construct a comprehensive biosolids energy efficiency project at their Glendale Wastewater Reclamation Facility. This project encompasses both process-related capital improvements and the installation of a combined heat and power system that will capture and condition previously flared biogas from the plant's anaerobic digesters. The captured energy will power a 400-kW generator, reducing the facility's electricity needs by over 41%. Lakeland is also improving its sludge pumping and mixing systems, which will ensure continued production of Class AA biosolids and minimize transportation and disposal costs. This project will save the City more than \$1.4 million in avoided utility, operation, maintenance, and capital costs in the first year following completion, while averaging nearly \$680,000 annually thereafter. The City will also engage with the local community and schools through educational programs and student enrichment activities held at the wastewater reclamation facility.

To read more about this case study, please visit https://www.epa.gov/sites/default/files/2019-11/documents/pisces_2019_compendium.pdf.