

# PISCATAWAY BIOENERGY PROJECT UPDATE

## SUMMER 2022 NEWSLETTER



Site Overview

## Connecting the Systems

After two years of construction, several major components of the Piscataway Bioenergy project are in place and the staged commissioning of those systems has started. Much of the recent work has been focused on completing the piping and systems that will connect each of the individual process components:



### Conveyor System

The 132-foot conveyor system that will carry the Class A biosolids from the Solids Building has been completed. Once the biosolids are produced, they will be taken off-site by trailer for land application or stored in the Cake Storage Facility until they are ready for use.



### Heat Exchangers

With temperatures reaching over 350 degrees Fahrenheit during the thermal hydrolysis process, heat exchangers are critical to ensure the biosolids are cooled to an appropriate temperature before they are pumped to the anaerobic digesters.



### Piping

A major focus over the last several months has been the installation of piping that will carry biosolids, biogas and water around the site. Biosolids will travel from the thermal hydrolysis reactors to the digesters and then to the Solids Building for dewatering. Biogas, a byproduct of the anaerobic digestion process, will be conveyed to the gas cleaning system where it will be prepared for use as fuel for the boilers and engine generators. Excess gas will be stored or flared. The medium temperature hot water loop will bring water around the site for multiple purposes, including maintaining the sidestream treatment process.



### Substations

In July crews energized two main electrical feeds that will provide power to the project site. This milestone is the first step in providing permanent power to the site and is the beginning of equipment testing and start-up.



# Progress Since Last Update (May 2022)



Completed construction of all electrical ductbanks



Completed installation of all mechanical equipment in the Solids Building



Initial start-up of the new utility water system



Began construction of cake storage bins

## Pipe and Cake Receiving



## Upcoming Work

- Installation of the three Combined Heat and Power engines and boilers
- Initial delivery of gas cleaning system components
- Complete construction of cake storage bins
- Install Solid Screens
- Install Pre-cast UV Treatment Building

## PROJECT TIMELINE



### PLANNING

Completed June 2018



### DESIGN

Completed February 2020



**DEMOLITION AND UTILITY RELOCATION**  
Completed December 2020



### CONSTRUCTION

Underway  
Began June 2020



### TESTING

Underway  
Began Spring 2022



### COMPLETION

Late 2024

## The Piscataway Bioenergy Team

Your WSSC Water Piscataway Bioenergy Team includes:



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