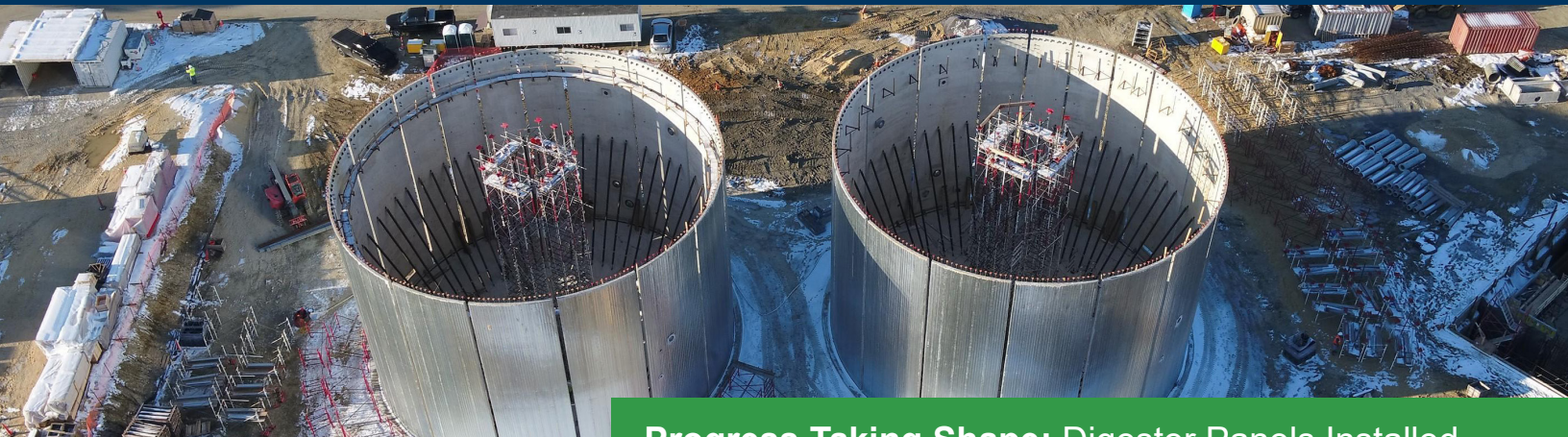
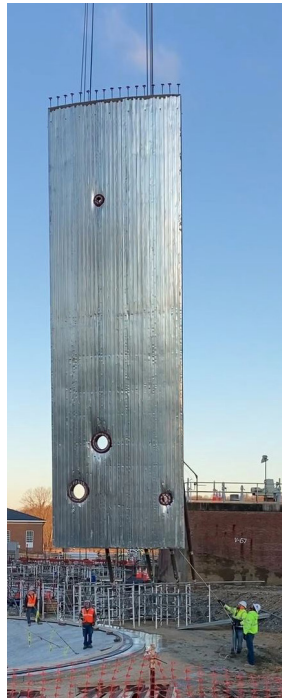


PISCATAWAY BIOENERGY PROJECT UPDATE

WINTER 2021 NEWSLETTER



Progress Taking Shape: Digester Panels Installed



We've achieved a significant milestone for the Piscataway Bioenergy Project, where progress is now visually apparent – and shiny! Work is underway to complete the installation of two new 1.5-million-gallon anaerobic digesters. These digesters will be a key component in our ability to produce bioenergy and are a true sign that something new and exciting is taking place at the Piscataway Water Resource Recovery Facility (WRRF).

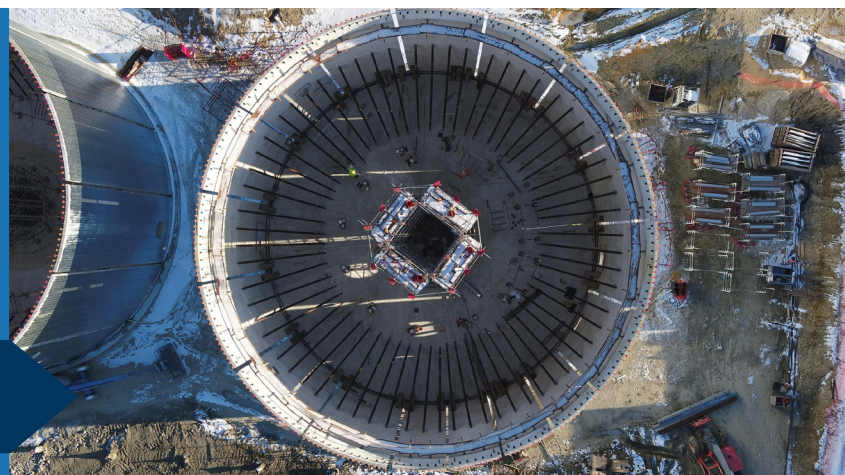
Each circular prestressed concrete tank consists of 17 individual panels that are 50 feet tall and vary in width to create an approximately 78-foot-diameter tank. The largest panel weighed in at more than 30 tons. The panels were cast on site in eight casting beds, four near each tank location, then fitted with stacked panels. The panels were lifted from their beds and flown into place using a 500-ton crane.

Now that the panels are installed, work can begin on the shoring and formwork to cast the digester domes. The tank joints still need to be infilled and the tanks wrapped with prestressing wire and coated with shotcrete. The tanks are expected to be fully constructed by Spring 2021.

What is a Digester, Anyway?

Anaerobic digesters are oxygen-deficient environments that help transform solids with the use of microbes. The bio-gas produced from this process will help WSSC Water power the Piscataway WRRF.

The current interior view of the digesters, soon to be secured with a concrete dome





Now that major demolition is complete and the installation of yard and under-building piping and supporting concrete structures is done, construction progress will be exciting to watch on site. We're hard at work making our next chapter of technology and sustainability a reality.

Since our last update:



Early Work Package completely closed out



Majority of building foundations and slabs are in place



Digester panels installed

What's next at the Piscataway WRRF?

- Complete digester tank construction
- Complete ductbanks to install power and controls wiring
- Finish building structures
- Start interior piping for chemicals and process support
- Regrade earthwork around the new structures
- Initiate sidestream tank construction

PROJECT TIMELINE



PLANNING

Completed June 2018



DESIGN

Completed February 2020



DEMOLITION AND UTILITY RELOCATION

Completed December 2020



CONSTRUCTION

Underway – Began June 2020



TESTING

Summer 2023



COMPLETION

Late 2024

The Piscataway Bioenergy Team

Your WSSC Water Piscataway Bioenergy Team includes PC Construction, Design-Build, Stantec/Hazen, Lead Engineers, and HDR Engineering, Program Managers.



OWNER

www.wsscwater.com



DESIGN-BUILDER

www.pcconstruction.com



Hazen

LEAD ENGINEER

www.stantec.com
www.hazenandsawyer.com



PROGRAM MANAGER

www.hdrinc.com

www.wsscwater.com/bioenergy