



Power Distribution Center (PDC) delivery

## Power Distribution Centers: Providing Efficiency and Improving Safety



Over the past several months, work has been underway to deliver power to the WSSC Piscataway Bioenergy project site. Most notably, five power distribution centers (PDC) arrived on site and were placed on their foundations in late 2021. These prefabricated, all-in-one electrical buildings help accelerate the construction schedule and once completed, will provide a safer working environment for plant operators.

The PDCs are fabricated and assembled off-site while the foundations are being poured on site. This concurrent activity can shave

several months off construction activity. Additionally, once the PDCs are on site, the installation takes less than 15 minutes. With just one crane pick, a PDC is removed from the truck, placed on its foundation and is ready to be connected to on-site wiring. Because the PDCs have all been constructed to the same standards, components look and operate similarly from area to area. This improves site safety by reducing the opportunity for error during operation that could damage process equipment or harm operators.

Next, work will begin to install wiring and prepare connections to all the major equipment and facilities on site.



## Since our last update:



Began construction of the Cake Receiving Facility, including the truck unloading ramp, underground receiving hopper and building framework



Digester Control Building built, roofing completed, and interior piping is underway



Installed the gas flare and aerial pipe supports for pipes that will carry gas from the digesters to the Combined Heat and Power system



Started interior work in the Solids Building, including installation of the bridge crane, conveyors, cake piping, plumbing and HVAC



Completed the foundations for the engine generators, transformers and gas cleaning systems and began installing transformers

### PDCs: A closer look



## What's next at the Piscataway WRRF?

- Delivery and installation of the Cambi redundant unit
- Installation of the heat exchangers
- Construction of the Cake Receiving Building framing, bins/silos, and aerial pipe supports
- Construction of the Solids Screening Building and Medium Temperature Hot Water Building
- Begin utility water system improvements
- Installation of piping from the digesters to the gas treatment area

## PROJECT TIMELINE



### PLANNING

Completed June 2018



### DESIGN

Completed February 2020



### DEMOLITION AND UTILITY RELOCATION

Completed December 2020



### CONSTRUCTION

Underway  
Began June 2020



### TESTING

Spring 2022



### COMPLETION

Late 2024

## The Piscataway Bioenergy Team

Your WSSC Water Piscataway Bioenergy Team includes:



### OWNER

[www.wsscwater.com](http://www.wsscwater.com)



### DESIGN-BUILDER

[www.pcconstruction.com](http://www.pcconstruction.com)



### LEAD ENGINEER

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### PROGRAM MANAGER

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