

Case #9437 (Modification)

CPV St. Charles Energy Center
5052 Thomas Edison Drive
Waldorf, MD
(Charles County)

Transmission Grid Reliability Project

PPRP Case Manager: Shawn Seaman

CPCN Timeline

CPCN Application filed on January 14, 2022
Applicant Direct Testimony: May 20, 2022
Interveners' Direct Testimony: June 22, 2022
Public Hearing: July 11, 2022 @ 7:00 pm
PSC Evidentiary Hearing: July 14, 2022 @ 10:00 am

Note:

This summary was last updated on
May 23, 2022
For current information, follow this link:
[PSC Docket Case #9437](#)

Note:

This summary is based on
information provided in the CPCN
*Application dated **January 14, 2022***
which is subject to change and has
not yet been fully reviewed by PPRP

Project Location:

The CPV St. Charles Energy Center (CPV St. Charles) is a 745 MW natural gas-fired electrical power generating facility located on a 76 acre site at 5052 Thomas Edison Drive in Waldorf (Figure 1). [Google Map Link](#) The proposed modification (the Project) and all associated laydown areas will be entirely within a portion of the site that has already been developed.

Project Overview:

During a widespread power outage, most generating stations require an offsite power source to restart; therefore, the addition of onsite emergency generators capable of restarting the plant are needed to ensure timely grid recovery and reliability. Otherwise, generating stations must wait for adequate energy to be available on the grid before restarting. In an effort to improve grid recovery and reliability, the regional grid operator (PJM) has selected CPV St. Charles to install such capability.

Project components include four (4) new 3.5 MW emergency generators and a 25-foot high generator stack. The generators will be EPA Tier II-certified engines powered by ultra-low sulfur diesel fuel and will only be operated in the event of a large-scale blackout and will not alter the generating station's capacity.

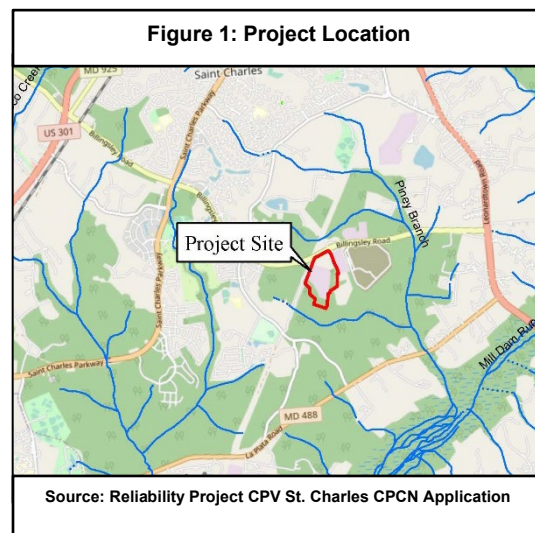
In the event of a widespread power outage, the proposed generators will be started and used only until one of the facility turbines is restarted and running at 10% capacity. In addition, the proposed generators may be operated under non-emergency situations for up to 100 hours per year for testing and maintenance purposes. Historically, widespread power outages have been rare so the Applicant's ERD assumes one event per year for purposes of air emission calculations.

Site Description

The CPV St. Charles facility occupies a 76-acre site, of which approximately 54 acres have been developed to include the electrical generating power block, administration building, and employee parking areas. The remaining portion of the property remains undeveloped to provide a buffer between power block and the property boundary. The Application indicates that the proposed Project would be situated entirely within the developed portion of the site (Figure 2).

The area immediately adjacent to the CPV St. Charles facility remains largely undeveloped, with the exception of several industrial sites, including an asphalt mixing plant and the Charles County Landfill, both located to the east. The nearest residences are located approximately 0.5 miles to the west and Regency Furniture Stadium is located approximately 0.75 miles to the southwest.

Figure 1: Project Location



[illegible]

Source: Reliability Project CPV St. Charles CPCN Application