

# CPV St. Charles Energy Center

## *Responsible Energy Starts With Us*



**Location**  
Waldorf, Maryland



**System Information**

- 2x1 combined-cycle power plant
- Featuring two GE fast-start 7F 5-series gas turbines and a D-11A steam turbine with associated generators



**Total Installed Capacity**  
745 MW



**Supply Capacity**  
700,000 homes



**Investment**  
\$775 million



**Local and Regional Employment**

- 22 full-time plant staff and approximately 75 ancillary jobs
- 600 union labor workers over 30-month construction period



**In Operation Since**  
February 2017



### Project Overview

The CPV St. Charles Energy Center generates enough reliable electricity on average to power more than 700,000 Maryland homes and offset carbon dioxide emissions equivalent of taking more than 795,000 cars off the road each year. Through our use of General Electric's (GE) advanced power generation

technology, CPV St. Charles provides safe, reliable, cost-effective and environmentally responsible power for MD. CPV St. Charles pairs well with less reliable power sources like wind and solar because it provides a backstop to maintain grid reliability when the wind or sun cuts out.



## CPV's Commitment to the Community

Making lives better is what drives CPV to modernize the country's power system. Underlying our goal is the positive impact we're having on the communities where we build and operate power generation facilities. Our commitment to being a good corporate citizen in our communities means integrating Environmental, Social and Governance (ESG) matters into the business. Our focus on ESG and track record of success have enabled us to grow into one of North America's premier energy companies.



## Environmental Benefits

### AIR QUALITY

Avoided an estimated 3.6 million tons of CO<sub>2</sub>, the equivalent of taking more than 795,000 passenger vehicles off the road for one year



CPV St. Charles is powered by two highly efficient GE 7F.05 gas turbines and a GE D11 steam turbine that combined, achieve an efficiency rating of 60 percent. This means less fuel consumed and far fewer emissions, than older, less efficient facilities.

### WATER USE

Repurposed water use reduces discharge into the Potomac River by up to 20,000 lbs/yr and total phosphorus discharge by up to 1,100 lbs/yr, reducing environmental loading



The project's use of reclaimed grey water from Mattawoman processing facility addresses one of the region's top environmental priorities: the cleanup of the Chesapeake Bay.

### LEARN MORE:

**About the Project** | [www.cpvstcharles.com](http://www.cpvstcharles.com)

**About CPV** | [www.cpv.com](http://www.cpv.com)

### CONTACT US:

[info@cpvstcharles.com](mailto:info@cpvstcharles.com)

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## Social Benefits

### SCHOOL SUPPORT

Our local school support ties to Science, Technology, Engineering and Math (STEM), including the development and funding of new STEM labs, classroom visits, career coaching from CPV staff and guided tours of CPV St. Charles.



- Project Lead The Way (PLTW) \$20,000 grant for two units, including one Energy and the Environment unit

### FOOD PANTRIES

COVID-19 has been impacting CPV's host communities in various ways, and one of the major



consequences of the pandemic has been an increase in food insecurity. Job losses and furloughs have led to a 30%

increase or more in demand for food at pantries in our host communities

- \$5,000 to the Southern Maryland Food Bank

### EMERGENCY RESPONDERS

CPV St. Charles supports emergency responders in Waldorf and the surrounding area by working closely with the police and fire departments and providing them with much-needed resources to better support local public safety.

