The CPV St. Charles Energy Center is a state-of-the-art, combined-cycle, natural gas powered electric generating facility capable of producing up to 725 megawatts -- enough electricity to power more than 700,000 Maryland homes.

Key Benefits of the CPV St. Charles Energy Center

- CPV St. Charles is jointly owned by:
  - Competitive Power Ventures, Inc. ("CPV")
  - Marubeni Corporation
  - Toyota Tsusho
  - Osaka Gas USA
- $775 million private energy infrastructure investment
- Constructed by SNC-Lavalin Constructors
- Managed by CPV’s Asset Management Group ("CPV/AMG"). Operated by EthosEnergy Power Plant Services
- Built by local union labor over a 30-month period
- Achieved commercial operation February 2017
- Delivers electricity into the transmission-constrained SWMAAC zone of PJM to help meet energy demands of consumers

Project Overview
Environmental Benefits

CPV St. Charles will be one of the cleanest generators in the state with its state-of-the-art emissions control technology and design, assisting Maryland in its continuing air quality improvement efforts.

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

2. The project’s advanced technology is designed to ramp up and down quickly, making it an excellent technology partner to support “intermittent” renewable energy sources such as wind and solar.

3. CPV St. Charles will create a net benefit to the region’s air quality by obtaining offsets that will eliminate more emissions than the facility will emit.

4. The project’s use of wastewater for cooling purposes is part of the solution to one of the region’s top environmental priorities: the Chesapeake Bay. Use of reclaimed water can reduce total nitrogen discharge into the Potomac River by up to 18,700 pounds per year and total phosphorous discharge by up to 1,100 pounds per year.

Economic Development

CPV St. Charles will be one of the largest taxpayers in Charles County and will significantly stimulate the region’s economy.

1. Approximately $130 million is being paid directly to Charles County over 20 years in Payments in Lieu of Taxes (PILOT), connection fees, water and sewer user fees, local income taxes and the sale of reclaimed wastewater.

2. Construction of the facility created approximately 600 local union jobs and 100 management jobs.

3. CPV St. Charles currently employs 22 operations professionals in well-paying permanent jobs and creates approximately 75 indirect jobs to support facility operations.

4. The project is one of the most cost-competitive electric generators in the PJM wholesale market, helping to hold down electricity prices.