



PowerSecure



The City of Bennettsville Microgrid

A microgrid designed to power a city
through natural disaster

CASE STUDY

About the Customer

The City of Bennettsville, located in Marlboro County, South Carolina, is a historically significant community recognized as the state's "First Great Town." Like many communities along the Eastern Seaboard, Bennettsville has faced repeated disruptions from annual storms and hurricanes. The devastating impact of Hurricane Michael served as a catalyst for the city to take decisive action toward energy resilience.



The Challenge

Bennettsville required a reliable system capable of providing automatic standby power to the entire city. The goal was twofold: to ensure uninterrupted power during natural disasters and to reduce overall energy costs.

The Solution

In response, the Marlboro Development Team partnered with municipal and regional utilities to explore advanced energy solutions. They selected PowerSecure to develop, own, and operate a comprehensive microgrid system tailored to the city's needs.

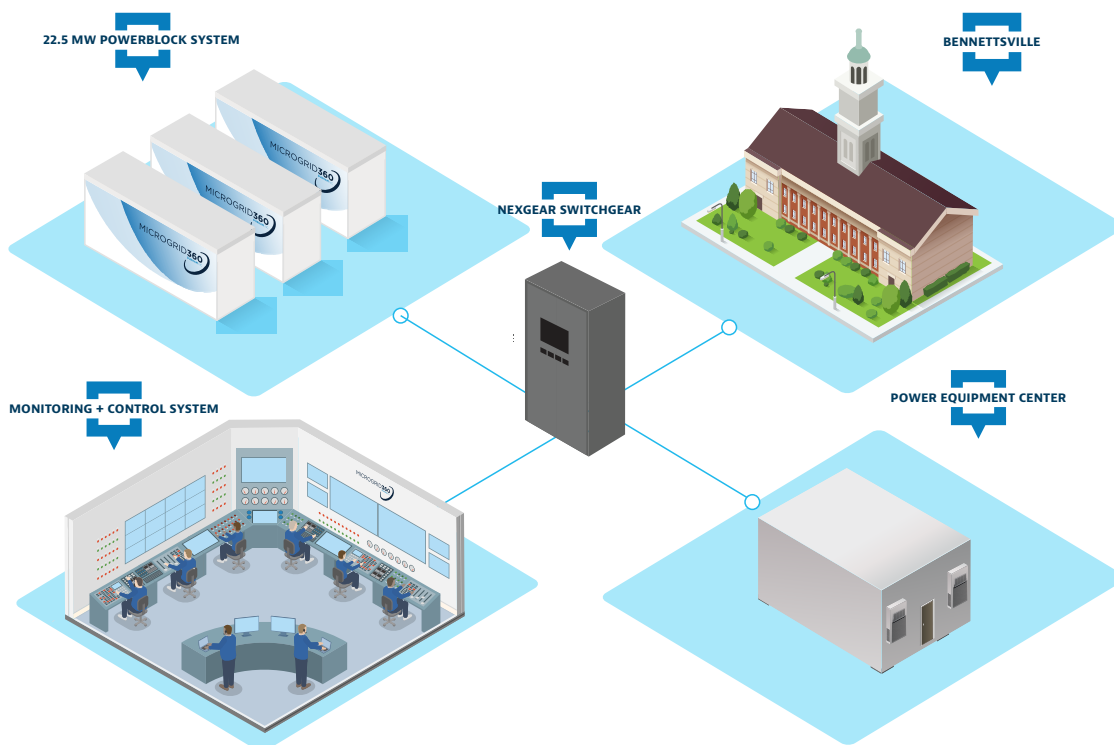
Leveraging its vertically integrated model, PowerSecure managed the entire project lifecycle, including:

- Design and engineering
- Construction and distribution system upgrades
- Commissioning and start-up
- 24/7 Monitoring

PowerSecure designed and engineered a 22.5 MW community microgrid that integrates directly into the city's substation. This microgrid includes:

- Standard generation modules integrated directly into the City's substation with automatic throw-over and island-mode capabilities.
- Load management functionality to mitigate costly peak demand tariffs.
- Tier 4 Final PowerBlock™ and NexGear™ switchgear for enhanced performance and reliability.

The microgrid operates in parallel with the main grid, allowing it to manage energy peaks and reduce associated costs. It is monitored 24/7 by PowerSecure's PowerControl® Operations Center, ensuring continuous oversight and rapid response capabilities.



Benefits to the Customer

The implementation of the microgrid has delivered substantial benefits to the City of Bennettsville:

- 1** 100% standby power for the entire city
- 2** Dramatically increased system reliability
- 3** Continuous grid monitoring by PowerSecure's 24/7 Operations Center
- 4** Enhanced economic competitiveness through reduced energy costs and improved infrastructure resilience



HEADQUARTERS

4068 Stirrup Creek Drive
Durham, NC 27703
919-556-3056
info@powersecure.com

HR INQUIRIES

919-556-3056
careers@powersecure.com

