



PowerSecure



Fort Belvoir Microgrid Bolstering the nation's defense with an integrated microgrid solution

CASE STUDY

About the Customer

Fort Belvoir is a military hub, home to the Army Cyber Command, the Intelligence & Security Command, as well as 10 different Army major commands, 19 different agencies of the Department of the Army, eight elements of the Army Reserve and the Army National Guard, and 26 Department of Defense agencies. Also located here are a Navy construction battalion, a Marine Corps detachment, a U.S. Air Force activity, and an agency from the Department of the Treasury.



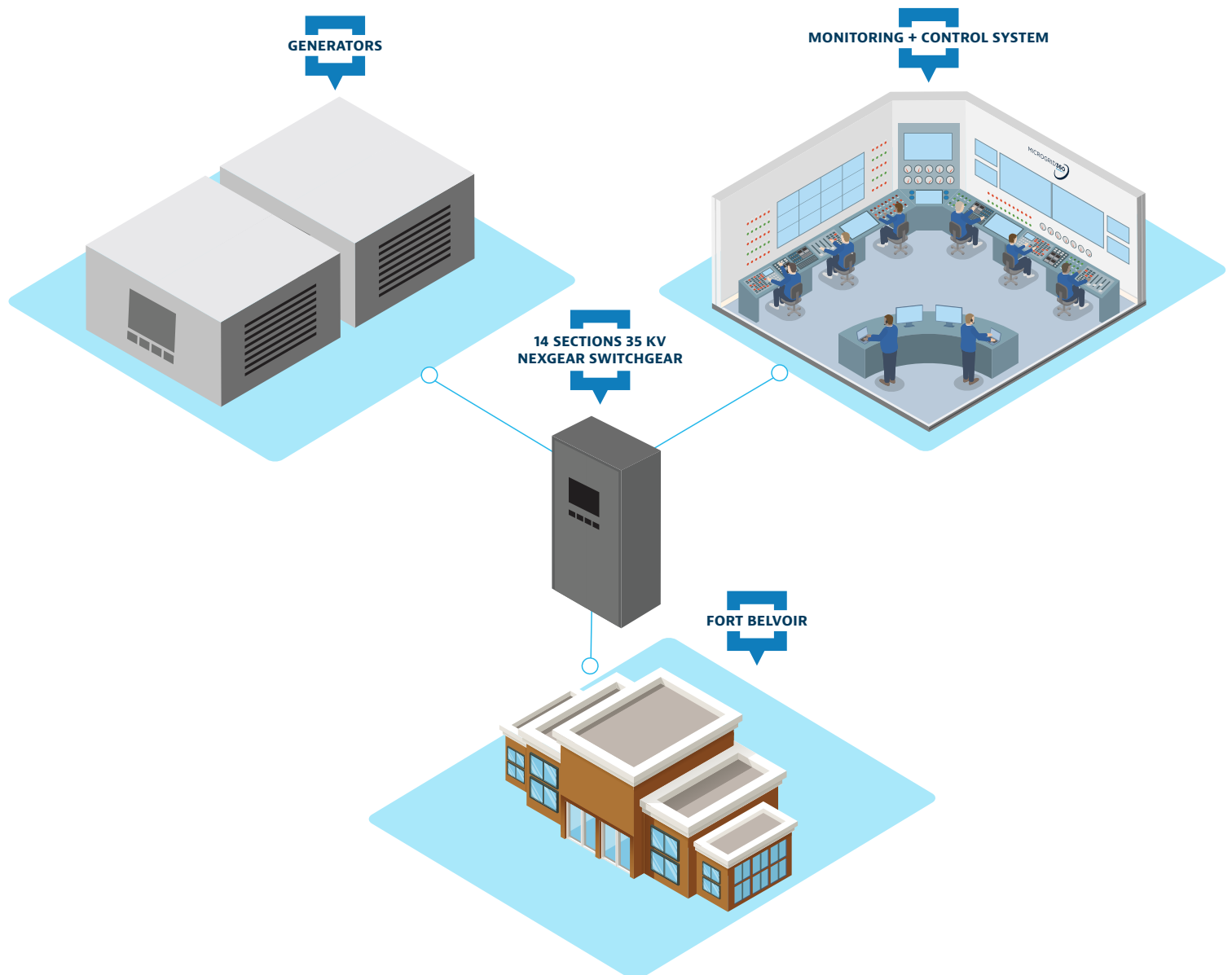
The Challenge

A critical defense and intelligence hub, Fort Belvoir requires uninterrupted power under all conditions. This project required an N+ configuration to ensure redundancy, along with the ability to maintain the frequency stability essential for sensitive operations. The facility would need infrastructure that could withstand hurricanes and severe storms without compromising performance. Additionally, to ensure seamless integration with existing systems and avoid disruption to ongoing mission-critical activities, PowerSecure would have to coordinate closely with local utilities.

The Solution

PowerSecure designed, engineered, constructed and installed a microgrid solution that took the fort's existing 9,750 kW backup generation and coupled it with 14 sections of 35 kV fully integrated NexGear paralleling switchgear and controls.

These reliability assets afford Fort Belvoir the flexibility to add future generation capabilities, protection schemes, 365/24/7 monitoring and demand management/peak shaving.



Benefits to the Customer

With a comprehensive, full-service approach to standby power and demand response, the PowerSecure solution affords Fort Belvoir:

- 1** Greater reliability with standby mode when the system senses loss of utility power
- 2** Future generation capabilities
- 3** Protection schemes
- 4** 365/24/7 monitoring
- 5** Cost-saving with demand management/peak shaving
- 6** Remote system operation

HEADQUARTERS

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