



Mission Critical Microgrids at Eglin Air Force Base

SERVICES

MEP Engineer of Record

PROJECT SNAPSHOT

Concord provided Engineer of Record for the design of distributed generation microgrids at Eglin AFB in Niceville, FL.

Concord Engineering Group's expertise in developing microgrid architecture was critical to the success of the concepts.



PROJECT BACKGROUND

This project at **Eglin Air Force Base in Niceville, Florida** emphasized natural gas-powered distributed generation microgrids at several mission-critical facilities within Eglin AFB.

OBJECTIVES & CHALLENGES

- Work with client and local wires utility to assess viable opportunities for microgrids.
- Integrate CHP where feasible.
- Create economic value.
- Develop simple and reliable microgrid-forming architectures.

THE CONCORD DIFFERENCE

- ✓ **Understanding of our client's business strategies and desired economic outcomes to make a project.**
- ✓ **An industry leader in designing energy infrastructure for mission-critical clients.**
- ✓ **Creative thinking for developing microgrid architecture.**
- ✓ **Specialty electrical engineering for load flow analysis, short circuit analysis, and protective relay schemes.**

THE OUTCOME

- Concord provided extensive up-front design and optimization of microgrid operations that provided both resiliency and reductions in energy expenses.
- Microgrid concepts were adopted at three separate mission-critical locations on Eglin AFB including a CHP integrated microgrid at a central chiller plant.
- Microgrids were engineered, constructed, and tested without disruption to mission-critical activities.
- Microgrids have successfully provided mission-critical power for recent hurricane-related loss of grid services.