



MCB CAMP LEJEUNE

JACKSONVILLE, NC



AWARDS

2016 Secretary of the Navy, Energy Excellence Award

2017 DOE FEMP Federal Energy and Water Management Award Winner

2018 Secretary of the Navy Energy Excellence Award



PROJECT SIZE

14 phases

18-year partnership

\$78.5M



PROJECT SCHEDULE

2000-2018



CONTRACT METHOD

UESC



Known as the home of “Expeditionary Forces in Readiness”, Marine Corps Base (MCB) Camp Lejeune was seeking to reduce their energy usage, reduce carbon footprint, and increase reliability. In the year 2000, MCB Camp Lejeune partnered with Duke Energy and ESG for the first phase of work, which developed into a 14-phase, 18-year partnership with ESG. Over the scope of the partnership, ESG has been able to continually provide Camp Lejeune with innovative energy conservation measures that allow the base to provide leading energy-efficient cost-effective infrastructure to the armed forces.

SOLUTION

The following ECMs were implemented:

- Natural gas-fired hot water condensing boiler systems
- Heat pump systems
- Hot water heating systems with associated equipment: piping, pumps, storage tanks, DDC controls, advanced meters, heat pump units, programmable thermostats, ductwork, insulation, hangars, and electric power
- New energy-efficient lighting fixtures
- Heating, ventilation, and air-conditioning upgrades
- Construction of boiler buildings
- Distributed generation systems including renewable generation assets
- Commercial and residential geothermal heat pumps
- Infrared aircraft hangar bay heating

QUOTE

“Camp Lejeune is excited for the completion of this changeover to cleaner and more efficient natural gas systems as well as the significant long-term benefits that it will have to the base”

- Elizabeth Smith, Installation Energy Manager

RESULTS

The decentralization project alone will save the base nearly \$40 million over the next 15 years, and will result in the reduction of Camp Lejeune’s carbon footprint by 103,815 metric tons over the contract term – the equivalent of planting approximately 85,000 acres of forest.