Groton, CT
Energy Savings Performance Contract

NORESCO

(U.S. Navy photo Aerial view of NSB New London/Released)

Naval Submarine Base (NSB) New London ensures and enhances national security by providing the facilities and delivering the services to deploy combat-ready nuclear submarines and their crews and train professional submariners. NSB New London is home to more than 70 tenant commands and employs over 9,500 active duty, reserve, and civilian personnel.

In 2019, NORESCO was awarded an ESPC project at NSB New London. The cornerstone of this ESPC was a 10.75-MW combined heat and power plant providing electrical power generation and steam heat for mission-critical waterfront operations and training buildings. To enhance the resiliency of this service, a new cybersecure microgrid system was installed, enabling NSB New London to island their installation in case of a utility grid outage.

This **$90.1 million** ESPC project will generate more than **$183.8 million** in guaranteed cost savings.

Safety: this project was implemented with **no OSHA violations** or fines.

Energy conservation measures included a **10.75-MW** combined heat and power plant, a new cybersecure **microgrid** system, **electrical infrastructure** upgrades, **steam distribution** system improvements, new **LED lighting**, and a new base-wide cybersecure **energy management controls** system.

During grid outages, the **combined heat and power plant** and **cybersecure microgrid** will support **100%** of the power requirements for NSB New London.

The total job creation impact of this ESPC was approximately **865 jobs**, including the ESCO, installation subcontractors, and manufacturing (Direct Job Impact for ESPC Projects – Federal Performance Contracting Coalition).

This ESPC includes **18 years** of ongoing operations, maintenance, repair, and replacement services.

This ESPC has **exceeded the annual savings guarantees** in every year of performance.

This ESPC reduced carbon dioxide emissions by **48,084 metric tons**, sulfur oxide emissions by **7 metric tons**, and nitrogen oxide emissions by **33 metric tons**, annually.

This ESPC project was profiled in "**The Military Engineer**", Volume 732, celebrating its **innovative approach and alignment** with the Navy's resilience goals.

NORESCO's ESPC work for the Navy dates back to 1997 with our project at Naval Surface Warfare Center – Crane Division, IN. Since 1984, NORESCO projects have saved more than 120 million MMBtu of energy, 20 billion kWh of electricity, and 50 billion gallons of water and provided more than $5 billion in guaranteed energy, water, and resource savings.