NAVAL AIR STATION JACKSONVILLE

JACKSONVILLE, FL

AWARDS

2011 Secretary of the Navy Energy and Water Management Award (Navy Large Shore Category)

2012 Presidential Installation Excellence Award

2012 DOE Federal Energy Management Program Federal Energy and Water Management Award

2018 Secretary of the Navy Energy Excellence Gold Level Achievement

PROJECT SIZE

Phase 1: $3.4M

Phase 2: $16M

CONTRACT METHOD

UESC

Naval Air Station (NAS) Jacksonville is one of the largest Navy bases in the United States, supporting U.S. and allied forces in anti-submarine warfare and training. NAS Jacksonville has partnered with Teco Peoples Gas and Energy Systems Group (ESG) since 2008, carrying out multiple phases of energy and infrastructure improvements at its facilities through utility energy service contracts (UESC) to reduce Base energy use, greenhouse gas emissions, and improve operations.

SOLUTION

- Renewable Energy Systems – Solar pool hot water heating; solar domestic hot water heating
- Mechanical Retrofits – Steam to gas conversion; new infrared heaters; new water heaters; new boilers; retro-commissioning and HVAC upgrades
- Lightings Systems – Upgrades in 68 buildings; AHU UV lighting
- Water Retrofits – Water conservation measures in nine buildings
- LED Lighting – Upgraded interior/exterior fixtures in 21 buildings
- HVAC Controls – Installed and expanded HVAC control systems
- Chiller / HVAC System – Upgraded AHUs, boilers, and VFDs; installed infrared heating; replaced a rooftop-mounted chiller and chilled water pump and VFD.
- Electrical Systems – Installed new TP-1 designed transformer units
- Water Conservation – Flow restrictors on faucets, low GPF urinal and flush valves, new water closet and flush valves, low-flow shower heads

RESULTS

From their partnership with ESG, NAS Jacksonville now has an innovative package of solutions that dramatically improves its energy and water self sufficiency for the Base. The first phase of work provided more than $2 million annual cost savings and more than 65,000 MBtu in annual energy savings at NAS Jacksonville. The second phase projected annual cost savings of more than $1 million.

esg
energy systems group