



VETERANS INTEGRATED SERVICE NETWORK - 21

NORTHERN CALIFORNIA



PROJECT SIZE

7 VISN sites

\$83M



PROJECT SCHEDULE

10/3/2017-9/16/2019



CONTRACT METHOD

UESC



SAVINGS INFORMATION

Energy and operational savings over \$20M



Energy Systems Group (ESG) and Pacific Gas and Electric (PG&E) partnered with the Veterans Integrated Service Network (VISN) 21 on several phases of work that were carried out through a utility energy service contract (UESC). The partnership between ESG, PG&E and VISN 21 developed projects across seven sites in the VISN 21 network.

SOLUTION

VISN 21 San Francisco (\$55.9M) - retrofitted and replaced air handling units (AHU)s, retrofitted the main boiler plant with three 500 HP steam boilers, installed new LED lamps and occupancy sensors, updated the HVAC control system software and unit scheduling

Additional Work at VISN San Francisco - replaced and expanded the central chiller plant, carried out boiler plant structural improvements, replaced AHUs in two additional buildings and VAVs, recommissioned a solar PV array, and replaced the 30,000 sq. ft. building roof as well as the main electrical service transformers and switchgear

VISN 21 Livermore (\$11.3M) - replaced existing steam plant off-line, constructed a new modular plant to provide steam to the campus, installed and replaced condensate return piping/valve insulation

VISN 21 Mather, McClellan, Martinez (\$3.89M) - replaced two air cooled chillers and BMS at Mather, the addition of direct digital controls at both Mather and McClellan, and LED lighting upgrades at all sites

VISN 21 Menlo Park (\$5.6M) - installed interior and exterior LED lighting, upgraded the building automation system (BAS), installed new steam boiler burners to reduce greenhouse gas emissions, replaced a 200,000-gallon irrigation water tank, replaced steam traps, installed a new solar photovoltaic system

VISN 21 Fresno (\$6.5M) - replaced AHUs, chillers, and boilers, using Covid-19 relief funds, implemented a \$2M pandemic AHU replacement project

RESULTS

These projects have renewed the VA's infrastructure and provided significant energy and cost savings across the VISN 21 network.