

Naval Base Coronado

San Diego, California



Savings Information

- Total Energy and Operational Savings over \$187 Million

Project Size

- \$70.3 Million

Environmental Benefits

- Annual energy savings over 321,000 MBTU
- Annual water savings over 36,709,200 gallons

With a mission to support the U.S. Navy Pacific Fleet, and an emphasis on naval aviation, NASNI serves as the home port for two Navy aircraft carriers, hosts twenty-three aviation squadrons, supports eighty additional tenants, and serves as headquarters for five major Navy flag officer staffs. In an effort to increase energy resiliency in support of its missions and to reduce shore-based operational costs, NASNI sought upgrades to provide significant energy and water consumption savings while improving its capability to enhance both energy supply and distribution capabilities.

Strategies & Solutions

ESG designed, developed, and is implementing infrastructure upgrades that eliminate the costly and aged central steam and compressed air distribution systems. Five ECMs were proposed for development, including most importantly steam decentralization impacting 75 buildings and three aircraft carrier berths. Additional ECMs included compressed air decentralization, solar hot water heating, compressed air system heat recovery, and an expansion of the Area Wide Energy Management System (AWEMS).

The overhaul of this necessary infrastructure will enable NASNI to better serve the two Naval Air Systems Command's (NAVAIR) logistical and industrial operations commands located at the site. This includes Fleet Readiness Center Southwest (FRCSW), a NAVAIR command focused on repairing and maintaining Navy and Marine Corps aircraft for rapid return to the fleet. The resiliency inherent in a more efficient water and energy infrastructure ensures FRCSW and the other NASNI tenant operations are able to carry on their mission critical work with a greater sense of water and energy surety at the shore facilities.

Key Installed Technologies

- Steam Decentralization
- Solar Hot Water Heating
- Compressed Air System Heat Recovery
- Area Wide Energy Management Systems (AWEMS) Expansion
- Compressed Air Decentralization



Energy Systems Group (ESG) is a leading energy services provider that specializes in energy efficiency, sustainability, and infrastructure improvement solutions in the government, education, healthcare, commercial, and industrial sectors. ESG offers a full range of sustainable infrastructure solutions including waste-to-energy, distributed generation, and renewable energy.