



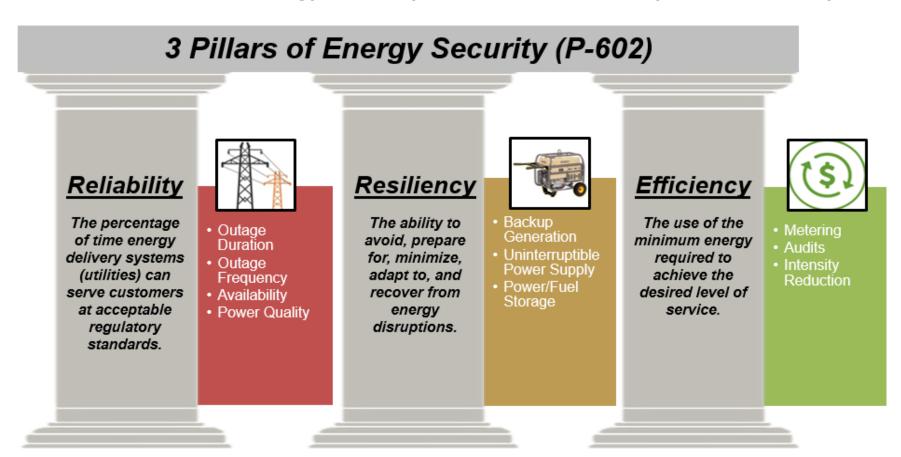
2024 SAME San Diego Post NAVFAC Southwest Industry Day

24-25 February 2025

Presenter: Jim McKechnie, PE NAVFAC SW PW8 Energy

Navy 3-Pillars of Energy Security

The NAVFAC SW PW8 Team focuses on executing projects that support the P-602 Three Pillars of Energy Security: resilience, reliability, and efficiency.

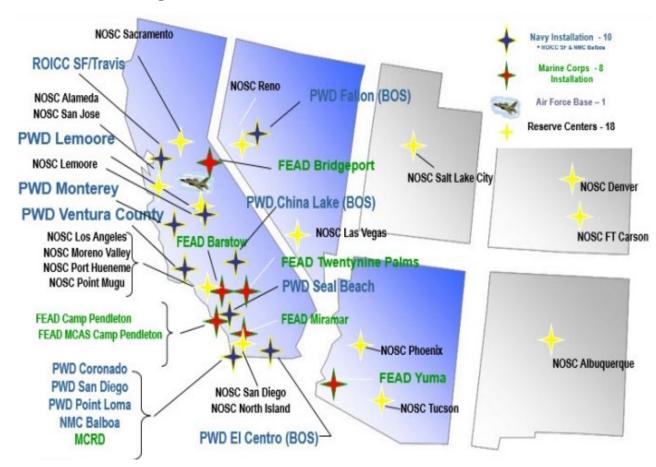


NAVFAC SW & 3PF Projects

Utility Energy Service Contract (UESC) and Energy Service Performance Contract (ESPC) projects are third-party financed (3PF) projects that require no upfront costs. These projects are payed for by the energy savings generated over the length of the contract.

Current SW PW8 Portfolio Summary

- ~11 projects in pre-award/construction
 - 9 are UESC's
- ~23 projects in performance (post construction)
 - \$250M+ of fully implemented project costs
 - 5 Navy ESPCs
 - 18 UESCs
 - □ 6 Marine Corps UESCs
 - □ 12 Navy UESCs
- Small Business Utilities and ESCO's will have their own independent Small Business Plan



Southwest Area of Responsibility

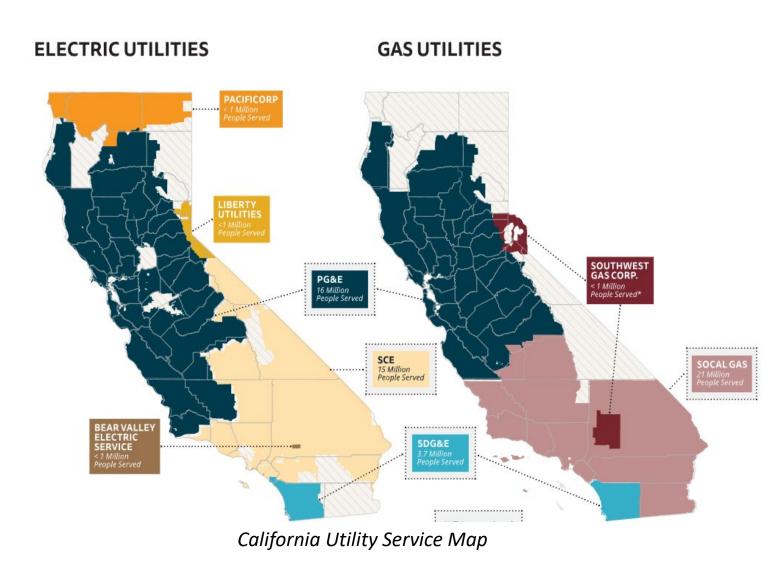
California Utilities

Three primary Utilities we work with for UESC's:

- San Diego Gas & Electric
- SoCal Gas
- Pacific Gas & Electric

Other notes:

- □SoCal Edison no longer operates a UESC program
- □Recently started projects with Southwest Gas at NAS Fallon and MCLB Barstow
- ■CA high utility rates make UESC's attractive



Installation Workload Projections

3PF PROGRAM - PRE-AWARD PROJECTS

Project Title	Value (\$M)	Project Description	Target RFP Issue Date	Target Award Date
NAWS China Lake UESC	\$9.0M	Scope is currently being finalized for RFP release. Project will install PV/BESS at remote well sites, optimize HVAC DDC operation, and install LED lighting	MAR 25	JUN 25
NAF El Centro UESC	\$5.4M	Scope is currently being finalized for RFP release. Measures being explored include chiller plant retrofit and microgrid.	MAR 25	JUN 25
NBSD UESC	\$7.9M	Project is currently on hold, awaiting additional scope to improve financial viability.	HOLD	HOLD
ESPC NB Coronado	TBD	IGA to kickoff Feb 10th. Scope includes PV, BESS, transformer replacement, DDC optimization, and low-flow water fixtures.	DEC 24	MAY 25
NBVC ESPC	\$26.5M	CNIC approval to proceed to IGA received 18 NOV. Scope includes DDC integration, LED lights, and others	NOV 24	JUN 25
NAS Lemoore UESC	\$55M	Working on required documents for RFP. Scope TBD, but will likely include PV/BESS, LED lighting, and electric boilers.	APR 25	NOV 25
MCLB Barstow UESC	TBD	Feasibility Study received and under revie. Scope TBD	APR 25	NOV 25
NAS Fallon UESC	TBD	Southwest Gas preparing for Feasibility Study audit. Scope TBD	AUG 25	FEB 26

3PF PROGRAM - POST-AWARD PROJECTS

ngineering	Project Title	Value (\$M)	Status	Construction Start	BOD Date
Naval Facilities E	NB Coronado UESC (P1003 San Clemente Island)	S38.8M	50% Design Review accepted. Installing wind turbine generation and BESS at remote island	AUG 25	OCT 28
\	MCB Camp Pendleton UESC 23		Construction is nearing completion. Scope includes FRCS Improvement, LED lighting, HVAC replacement, and DDC optimization.	JUN 23	SEP 25 (FRCS Support Ends)



Project Highlight – San Clemente Island UESC

This \$30M+ project will replace three 225 kW existing wind turbines with two 900 kW new turbines and 1MW/250kWh BESS. \$2.2M is projected to be saved annually

- 100% ERCIP funds (no financed scope)
- Original RFP resulted in a bid-bust
 - SoCal Gas offered a solution
- UESC cost exceeded original ERCIP budget
 - More ERCIP funds were allocated from cancelled projects
- WTG manufacturers were limited
 - European manufacturer was the only one found with WTG's the right size
- Awarded barely in time to use expiring ERCIP funds
- Supply chain issues persist



Photo of Existing (Demoed) SCI WTG's

High Interest Real Estate and EUL Projects Portfolio

Enhanced Use Lease (EUL) agreements are also executed by the PW8 program. These projects allows the navy to lease out under utilized land. In return, the navy gets In Kind Consideration (IKC). For instance: steam generation, first rights of refusal for back-up power, access to battery energy storage systems, etc.

ECH III	Project Location	Value Proposition
PAC	Marine Corps Recruit Depot (MCRD) San Diego	Fully automated microgrid leveraging back up generation to provide energy resilience in the event of a utility grid outage; potential shift to IKC to receive power in addition to back up generation
PAC	Naval Weapons Station (NWS) Seal Beach det. Norco	Leverage 8.3 acres of land for full base automated black-start and islanding capability to support critical infrastructure
PAC	Naval Weapons Station (NWS) Seal Beach	EUL project that integrates a microgrid solution consisting of Solar PV, battery storage capacity with ride-through duration and new back-up diesel generators.
PAC	Marine Corps Base (MCB) Camp Pendleton	Improve Resiliency with Infrastructure Upgrades, Additional CFE, and Energy and Water Resilience to support Operational Capabilities
PAC	MCB Camp Pendleton – Haybarn Site	Use the Haybarn Canyon site to install Long Duration Energy Storage (LDES) energy battery systems to improve installation resiliency during grid outages and for military exercises.
PAC	Naval Air Station Lemoore Site 2	Leverage 11,000 acres of land for full base automated black-start and islanding capability to support critical infrastructure. Infrastructure upgrades, and potential CFE.
PAC	Naval Base Point Loma	Provide an integrated energy and water utilities solution to mitigate threats posed to NBPL; include Infrastructure upgrades and potential for additional CFE
PAC	Marine Corps Air Station Yuma	Enhanced Use Lease (EUL) to Improve Resiliency with Infrastructure Upgrades, Additional CFE, and Energy and Water Resilience to support Operational Capabilities
PAC	Naval Air Station Lemoore	Leverage 930 acres of land for full base automated black-start and islanding capability, integrating a microgrid solution consisting of a datacenter, solar generation, battery energy storage, and EV charging stations.

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Questions or Comments

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