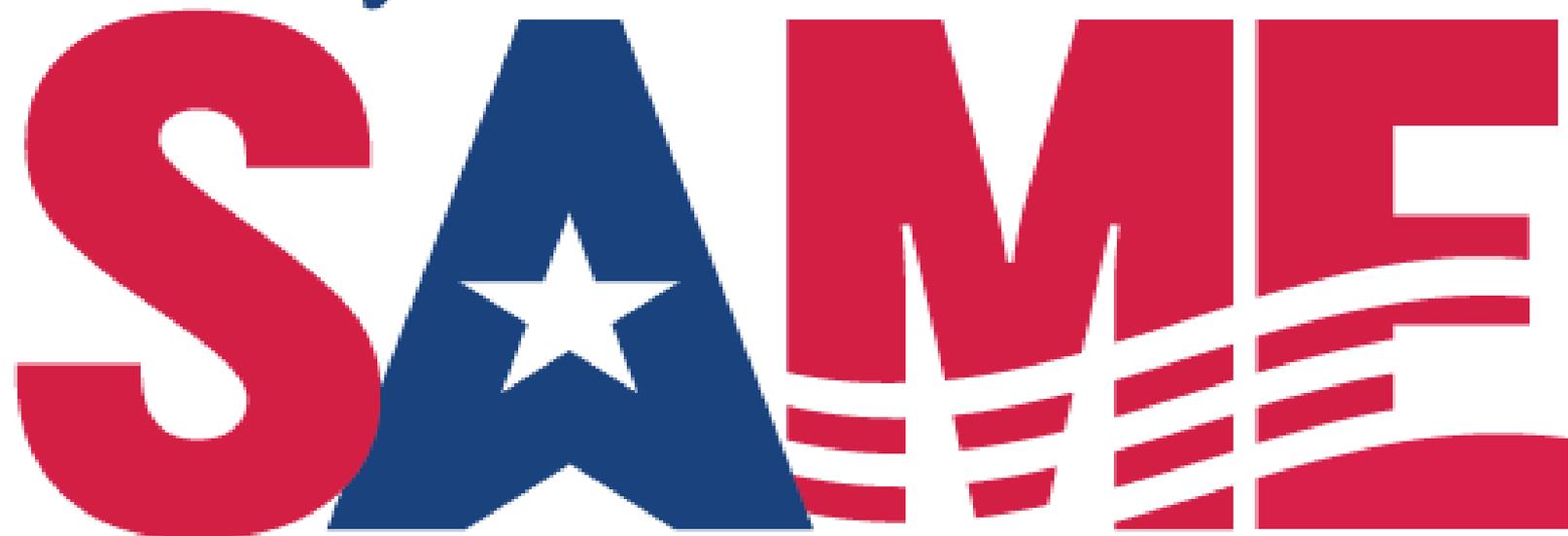


Society of

SAME



American Military Engineers

San Diego Post

Agenda

- | | |
|-------------------|---|
| <u>1100-1130:</u> | Registration & Networking |
| <u>1130-1200:</u> | Welcome, Pledge of Allegiance, Sponsors,
Announcements |
| <u>1200-1220:</u> | Lunch |
| <u>1220-1300:</u> | Navy's Energy Strategy with Mr. Jim McKechnie |
| <u>1300:</u> | Meeting Adjourn |



Thank You to Our Sponsors!

Ninyo & Moore

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<http://www.same.org/San-Diego>

NINYO & MOORE, A SOCOTEC COMPANY SERVICES

BUILDING & REAL ESTATE



BUILDING
ENVELOPE



ENERGY & SUSTAINABILITY



CODE
& PLANNING



OWNER'S PROJECT
MANAGEMENT



FIRE & LIFE
SAFETY



TESTING & SPECIAL
INSPECTIONS

TECHNICAL CONSULTANCY & ADVISORY (TCA)



ADVANCED, FFS & FINITE
ELEMENT ANALYSES



ROOT CAUSE & FAILURE
ANALYSES



NON DESTRUCTIVE
ENGINEERING



FINANCE & ECONOMIC
DAMAGES



PROJECT ADVISORY



DISPUTE RESOLUTION

INFRASTRUCTURE



GEOTECHNICAL ENGINEERING &
TESTING



TESTING & SPECIAL
INSPECTIONS

ENVIRONMENT



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NINYO & MOORE, A SOCOTEC COMPANY GEOGRAPHIC REACH



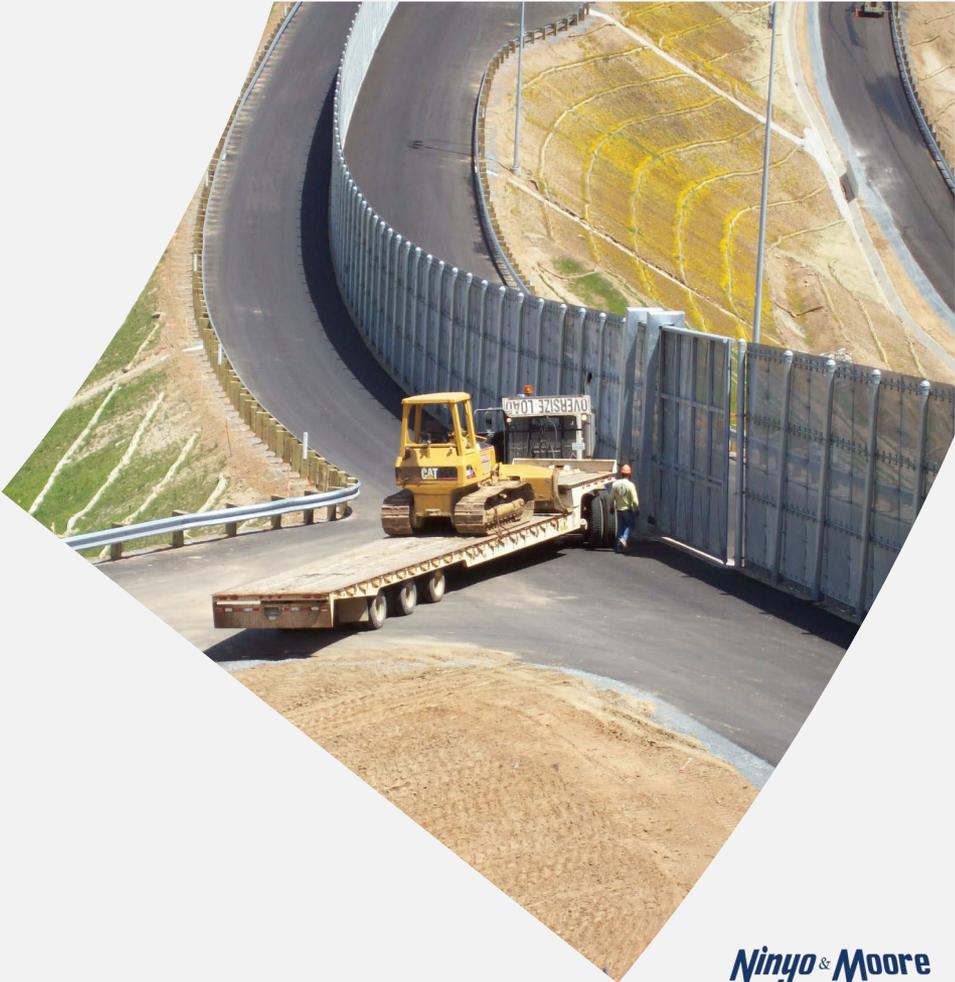
NINYO & MOORE, A SOCOTEC COMPANY

FEDERAL PROJECTS

420 federal projects completed in the last 10 years

Projects types:

- Administrative Campuses
- Border & Security Facilities
- Border Walls/Fences
- Education & Training Facilities
- Energy & Utility Infrastructure
- Environmental Remediation
- Federal Office Buildings
- Healthcare & Medical Facilities
- Military & Defense Facilities
- Transportation Infrastructure
- Water Resources & Flood Control



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ENERGY PROJECTS

1,940 energy projects completed in the last 10 years

Projects types:

- Compressor Stations
- Energy Centers
- Gas Turbine Plants
- Oil & Gas Pipelines
- Power Plants
- Renewable Energy (Solar, Wind)
- Substations
- Transmission & Distribution



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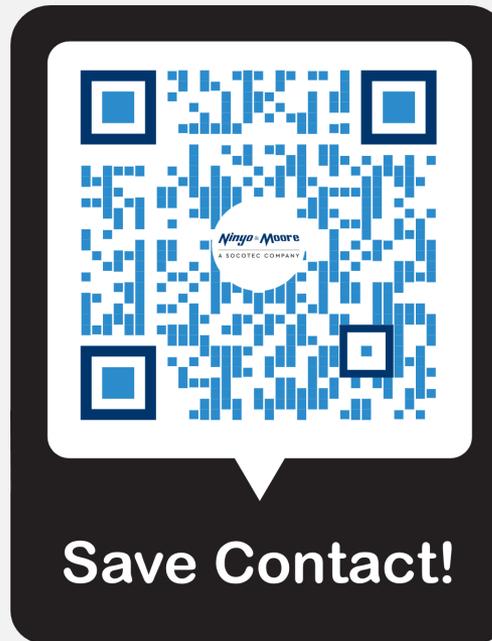
NINYO & MOORE, A SOCOTEC COMPANY CONTACT INFO



Hansol An
Director of Business
Development

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858.576.1000 ext. 11218

Name change to  mid 2026
SOCOTEC



Hansol An

Ninyo & Moore

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Upcoming Events

General Event Information

**SAME San Diego Post Small Business / NAVFAC Industry Forum
on February 26th and 27th, 2026**

Planned presenters include NAVFAC Southwest, NAVFAC Pacific, Defense Logistics Agency and USACE LA District Small Business Representatives; NAVFAC FEAD Teams, Contracting Supervisors and Public Works Officers, NASA

Day 1 – Thursday, February 26, 2026 - 7:00 am to 6:30 pm (including reception)

- Presentations regarding planned major Construction and Architect Engineering Programs for NAVFAC in the region
- Technical Sessions
- Networking Reception to follow

Day 2 – Friday, February 27, 2026 - 7:00 am to 3:30 pm

- Presentations regarding planned major Construction and Architect Engineering Programs for NAVFAC in the region
- Technical Sessions

Following Day 2, you are invited to attend 84th SeaBee Ball from 6:00pm to 11:00pm!
See Save the Date below for more details.

**Join us at the Town and Country Hotel
500 Hotel Circle North, San Diego, CA 92108**

Fees include access to two-day event with the Networking Reception on Thursday evening (two drink tickets included).

Light continental breakfast, lunch and afternoon beverages and snacks are included for both days.

This event will sell out early, so don't delay registering.

Conference Fees

Event Early Registration (Through December 12, 2026)

- DOD (Active or Civilian) (Must Pre-register) \$99
- SAME Member (Small) \$345
- SAME Member (Large) \$425
- Non-Member (Small) \$445
- Non-Member (Large) \$525
- Young Professional (Must Pre-register) \$99
- Speaker \$0
- Student (must Pre-register) Free with volunteer requirements

Late Registration fee is an additional \$50 (December 13 – February 11, 2026)
Registration Cutoff and Cancellation Date – February 11, 2026 (No Refunds Issued After)

**YOUR TICKET TO THE PACIFIC
2026 SAME SAN DIEGO POST
SMALL BUSINESS / NAVFAC
SOUTHWEST INDUSTRY FORUM**

FEBRUARY 26TH & 27TH, 2026



**TOWN AND COUNTRY RESORT
SAN DIEGO, CA**



Society of



American Military Engineers

San Diego Post

Upcoming Events

Join us on **February 27th, 2026** for an unforgettable evening honoring the legacy, strength, and spirit of the United States Navy Seabees, Naval Facilities Engineering Systems Command, and the Civil Engineer Corps. This year's theme—**Forged in Steel, Anchored in Honor**—sets the tone for a night rooted in pride and elevated by tradition.

More than just a theme, it's the story of the Seabees and NAVFAC; it's the resilience built through challenge, the camaraderie shaped through service, and the unwavering commitment that has defined generations. **Forged in Steel**—a tribute to the grit, the craftsmanship, and the unshakeable "Can Do" mindset that turns obstacles into opportunities. Seabees aren't just builders — we're built *different*. **Anchored in Honor**—Because our foundation is our character. Integrity. Pride. Service. These are the anchors that keep us grounded and united, no matter where we serve.

Registration:

<https://www.zeffy.com/en-US/ticketing/2026-san-diego-seabee-ball>

Please see LTJG Kenny Daplas for more information.

Ken.a.daplas.mil@us.navy.mil
(619)917-2669

Gave the Date



Kindly reserve the date for the 84th Seabee Ball



02.27.2026
Marriott Marquis
San Diego, California

Formal invitation to follow

<http://www.same.org/San-Diego>

Upcoming Events

2026 San Diego Seabee Ball Coins



The 2026 Seabee Ball Commemorative Coin has arrived! This limited-edition piece was forged to honor the legacy of San Diego Seabees and the incredible city we proudly serve.

Side A: Seabee Strength, San Diego Pride

This side captures our timeless “Can Do” spirit. A classic Seabee stands resolute before the iconic San Diego skyline and Coronado Bridge—a powerful symbol of the community we build and protect. Look closer, and you’ll find the NAVFAC logo watermarked in the background, because a Seabee’s work is built to last and always leaves its mark.

Side B: A Tribute to a Local Legend

The reverse side pays homage to a true San Diego original: the California Burrito. Built to last and wrapped with purpose, it perfectly symbolizes our region's grit, creativity, and the core belief that anything worth doing is worth doing right. It's a nod to local flavor with a deep respect for the community we build, serve, and call home.

Coins are only **\$20 each**, and all proceeds go directly to supporting the 2026 San Diego Seabee Ball! This is your chance to own a piece of our shared history and support a great tradition.

<http://www.same.org/San-Diego>

2026 San Diego Seabee Ball Coin
Can-Do Cali Style!!

\$20

VENMO

ZELLE

SAN DIEGO SEABEE BALL

Upcoming Events

**Registration is now open for the
2026 Golf Tournament!**

Questions? Email Sabrina
Mohazzabfar

(smohazzabfar@burnsmcd.com)



MADERAS
GOLF CLUB



SAVE THE DATE

**SAME SAN DIEGO POST
2026 GOLF TOURNAMENT
22 APRIL 2026
MADERAS GOLF CLUB, POWAY**



Society of
SAME
American Military Engineers
San Diego Post

Join us for a day of golf and networking at the SAME San Diego Post Golf Tournament on April 22, 2026! Enjoy a friendly competition with unique on-course experiences, raffle prizes, and more. Don't miss out on this chance to connect, compete, and make an impact!

<http://www.same.org/San-Diego>

Upcoming Events



Society of
SAME
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San Diego Post

**2026 SAME SAN DIEGO POST
SCHOLARSHIP PROGRAM**

APPLICATIONS DUE BY:
FRIDAY, FEBRUARY 27, 2026

The 2026 application window for the San Diego Post of the Society of American Military Engineers (SAME) scholarship program is now open!

Once again, the SAME San Diego Post will be granting scholarships to local college and university students majoring in STEM and architecture.

Applications are accepted directly from students online. The candidates must be undergraduate or graduate students and display enthusiastic promise in their studies. Grade point average will not be the only consideration. Involvement in other activities and organizations, employment and internship history, future plans, and financial need are among other key considerations.

The application portal can be accessed here:
<https://same.secure-platform.com/a/solicitations/182/home>

The application portal will close at 11:59 Pacific Time on February 27, 2026!

Upcoming Events



- If you know a teen with an interest in STEM and ready to take on the challenge, encourage them to apply today to one of six competitive engineering and construction camps! Discover more and apply today: <https://bit.ly/4g9uz0Y>
- Do you know a high school student passionate about science, technology, engineering, and math—someone who thrives on creative challenges and hands-on learning? Get ready for an unforgettable summer! The SAME STEM/Engineering & Construction Camp portal is officially OPEN. Discover more and apply today: <https://bit.ly/4g9uz0Y>
- Searching for an educational summer camp for high school students? SAME STEM/Engineering & Construction Camps deliver a comprehensive experience for teens eager to explore STEM skills and careers. Learn more and apply now: <https://bit.ly/4g9uz0Y>
- Each year, SAME's Engineering & Construction Camps provide unmatched opportunities for high school students—hands-on activities, real-world problem-solving, and mentoring professionals in military engineering and the A/E/C fields. Apply before March 11, 2026: <https://bit.ly/4g9uz0Y>
- Curious about what it takes to become a STEM professional—or even a military engineer? SAME STEM/Engineering & Construction Camps let students explore that curiosity through hands-on projects, teamwork, and leadership development. Application deadline: March 11, 2026. Learn more and apply today: <https://bit.ly/4g9uz0Y>
- Don't miss the deadline! Applications for SAME's STEM/Engineering & Construction Camps close March 11, 2026. Students will engage in hands-on engineering and construction activities under the mentorship of SAME professionals and volunteers from the local engineering community. Apply now: <https://bit.ly/4g9uz0Y>

<http://www.same.org/San-Diego>

Los Angeles District (SPL)/USACE

SPL will hold its business opportunity open house (BOOH) on March 18 in Phoenix. Please see the SAM notice for further info. Please register early as seating is limited. During the BOOH, we will either have personnel on hand and/or we will be making presentations on the following projects:

- DB SATOC for VA Projects in AZ (W912PL26S0002)
- Border Infrastructure
- Opportunities at: YPG, DMAFB, LAFB, Ft Huachuca
- F-47 Beddown
- AE Construction Phase Services MATOC
- AE Vertical MATOC
- \$4.3B DB/DBB MATOC
- FUDS MATOC
- Other Projects

On a related note, the Districts below will be holding their BOOHs on the following dates. Notice in SAM will be posted soon

- San Francisco District, March 12
- Albuquerque District, February 25
- Sacramento District, April 16

Upcoming Events



VOLUNTEERS NEEDED

SAME SAN DIEGO POST NEEDS YOU!

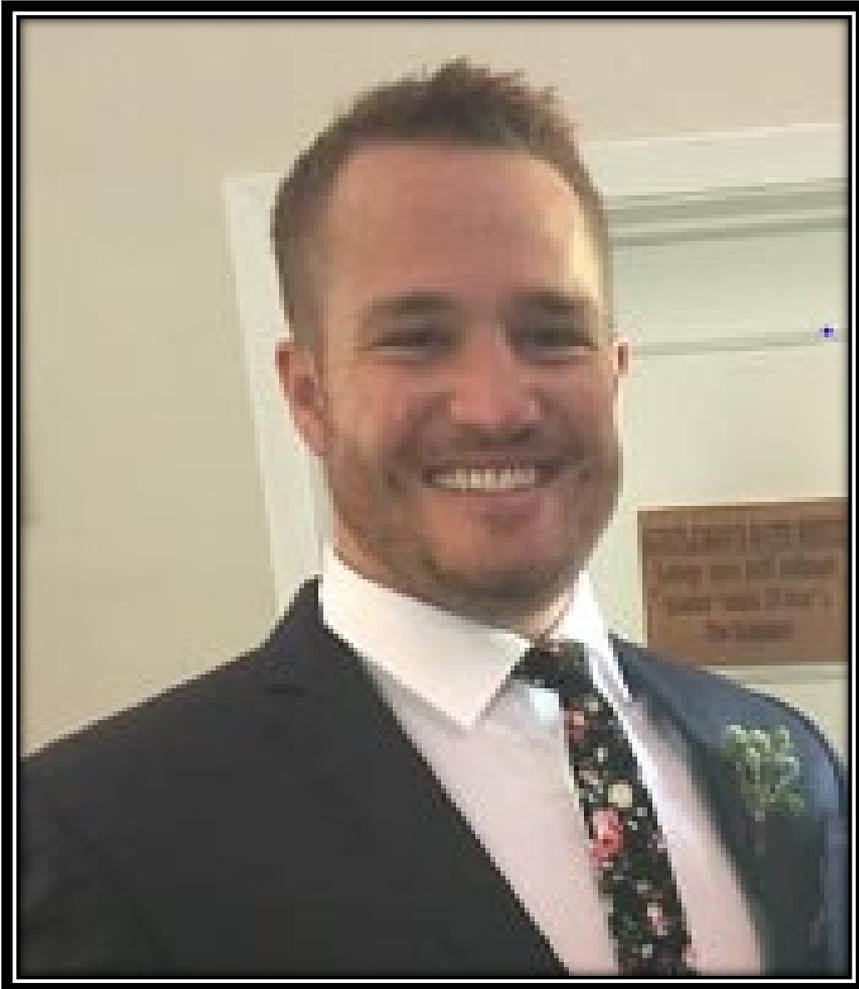


We have many ways to give back through over a dozen Post committees, including STEM, Philanthropies, Post events, and many more! Visit the link below for more information.

<https://www.same.org/sandiego/san-diego-post-volunteer-opportunities/>

<http://www.same.org/San-Diego>

Guest Speaker



Navy's Energy Strategy

Mr. Jim McKechnie

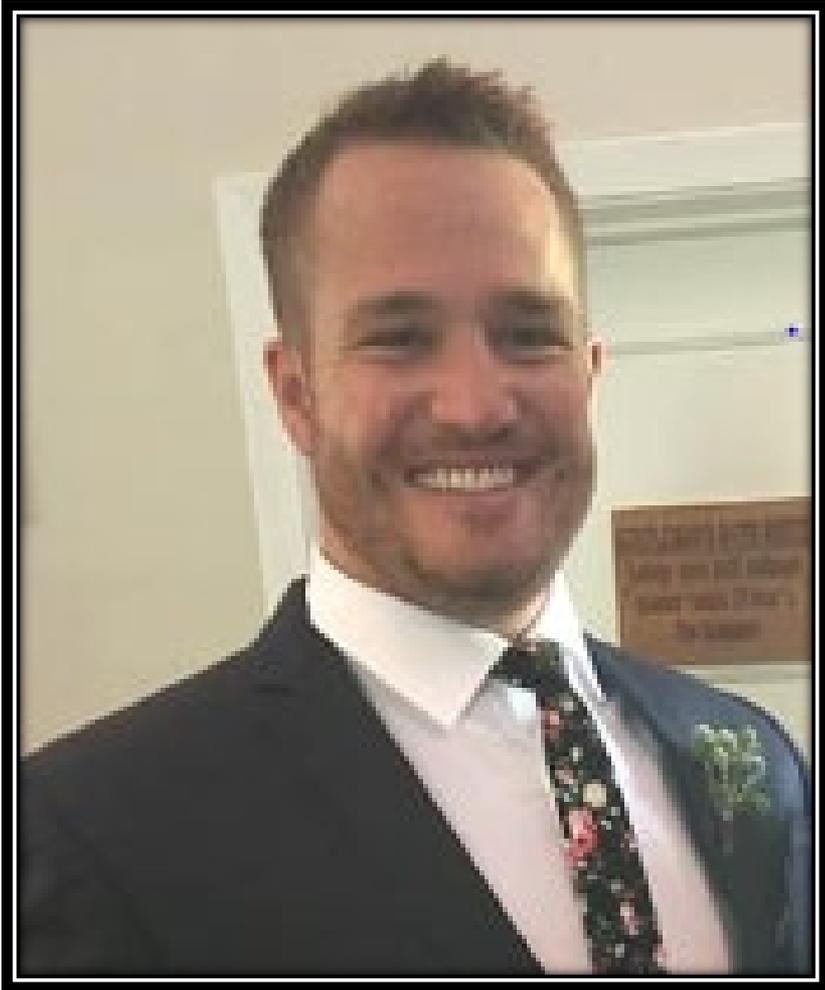
**NAVFAC Southwest
PW8 Energy**



SAME SD Luncheon 14 January 2026

**Presenter: Jim McKechnie, PE
NAVFAC SW PW8 Energy**

Biography



Jim McKechnie is the Team Lead for the NAVFAC Southwest PW68 team. He proudly leads his team of project managers to execute energy program projects at Navy and Marine Corps installations in the Southwest area. Mr. McKechnie has spent 7+ years in the Navy and was previously an Installation Energy Manager at Naval Base San Diego. Prior to that, he spent 7 years working in the private sector in energy consulting.

NAVFAC SW Utility Acquisition AOR

FY19 (Navy Only)

Electricity*

- Combined Peak Load: 240 MW
- Annual Consumption: 1.16M MWh
- Annual Cost: \$114.8M

*Includes PPAs at Miramar and China Lake

Natural Gas

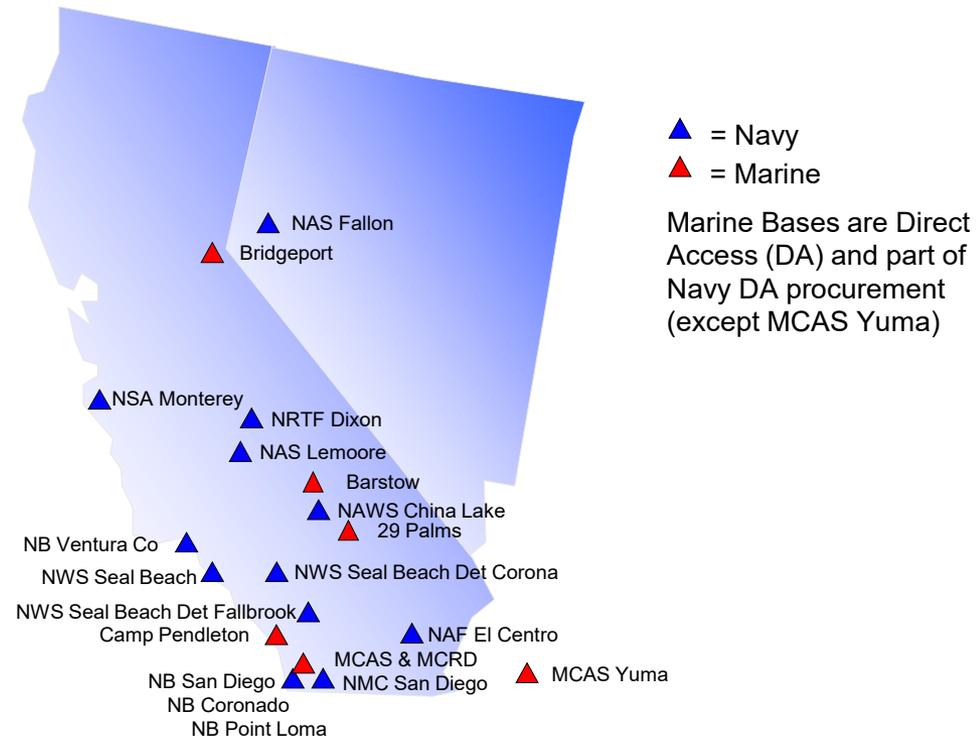
- Annual Consumption: 14.8M therms
- Annual Cost: \$11.7M

Water

- Annual Consumption: 3.0M KGAL
- Annual Cost: \$9M

Wastewater

- Annual Units: 2.15 KGAL
- Annual Cost: \$9M



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.

3 Pillars of Energy Security (P-602)

Reliability

The percentage of time energy delivery systems (utilities) can serve customers at acceptable regulatory standards.



- Outage Duration
- Outage Frequency
- Availability
- Power Quality

Resiliency

The ability to avoid, prepare for, minimize, adapt to, and recover from energy disruptions.



- Backup Generation
- Uninterruptible Power Supply
- Power/Fuel Storage

Efficiency

The use of the minimum energy required to achieve the desired level of service.



- Metering
- Audits
- Intensity Reduction

Top Energy Priorities

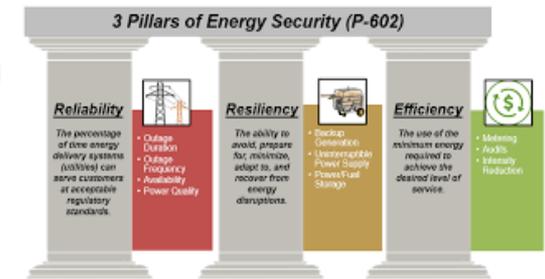
Resiliency

1. NBPL Islanding (NRSW, NPS, Stanford Collaboration)
2. NBSD ERCIP P-1301 Microgrid & CEC Grant Project
3. NASNI Extended Duration Storage for Installations (EDSI)
4. San Clemente Island Wind Turbine Project
5. NBVC & NBC Energy Saving Performance Contracts include Microgrids



Energy Dominance (EO 14154)

1. Geothermal Feasible at NAFEC & NASF
2. Small Nuclear Generators (SNG)
3. Photovoltaics
4. Hydrogen



Leverage Partnerships (OPM)

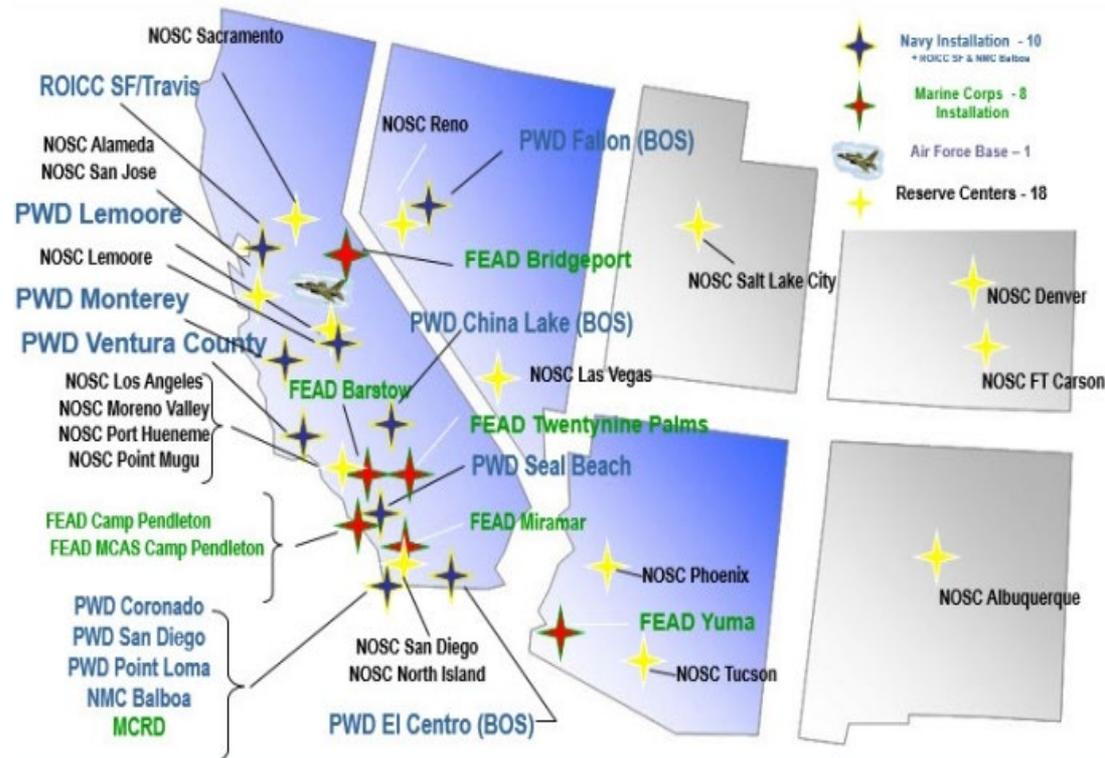
1. Low Carbon Fuel Standard (LCFS) with Port of San Diego(PSD) @NBSD, **Current IKC Value \$22.5M**
2. CA Energy Commission (CEC) & Electric Power Research Inst (EPRI) **Grants Value \$10.2M**
3. DOE/FEMP AFFECT Grants for 5 Installations totaling **\$15.1M**
4. 3rd Party Financing (3PF) UESC, ESPC
5. Enhanced-Use Leasing In-kind consideration, estimated value **\$106M**
6. Energy Resilience Conservation Investment Program (ERCIP), part of MILCON
7. San Diego Gas & Electric – Demand Reduction, Customer Programs

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 paid for by the energy savings generated over the length of the contract.

Current SW PW8 Portfolio Summary

- ~12 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 UESC's
 - 6 Marine Corps UESC's
 - 12 Navy UESC's

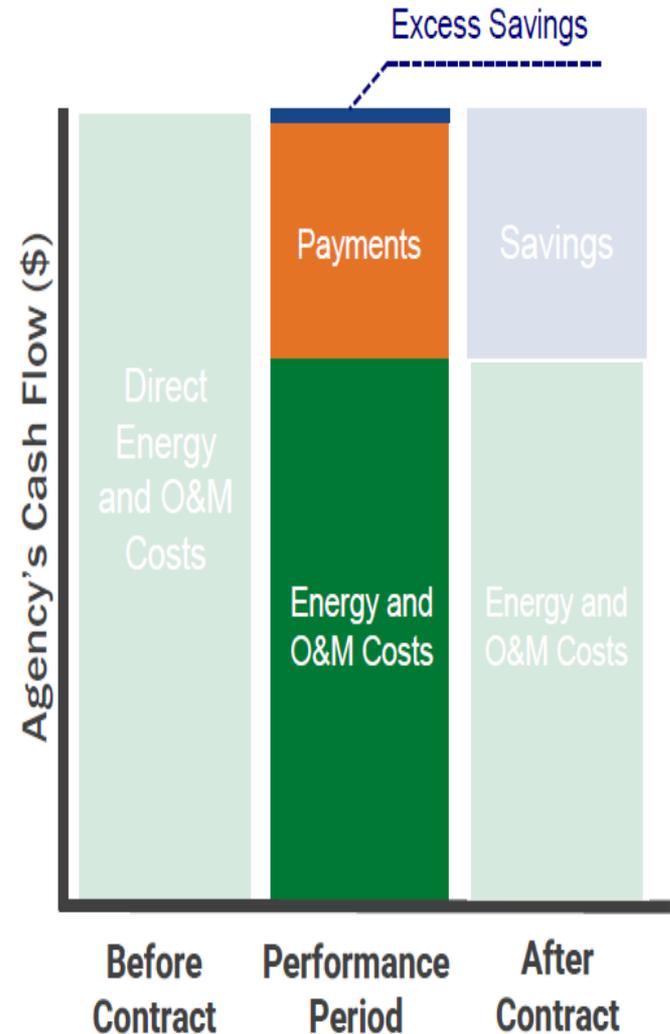


Southwest Area of Responsibility

Savings Pay for Financing

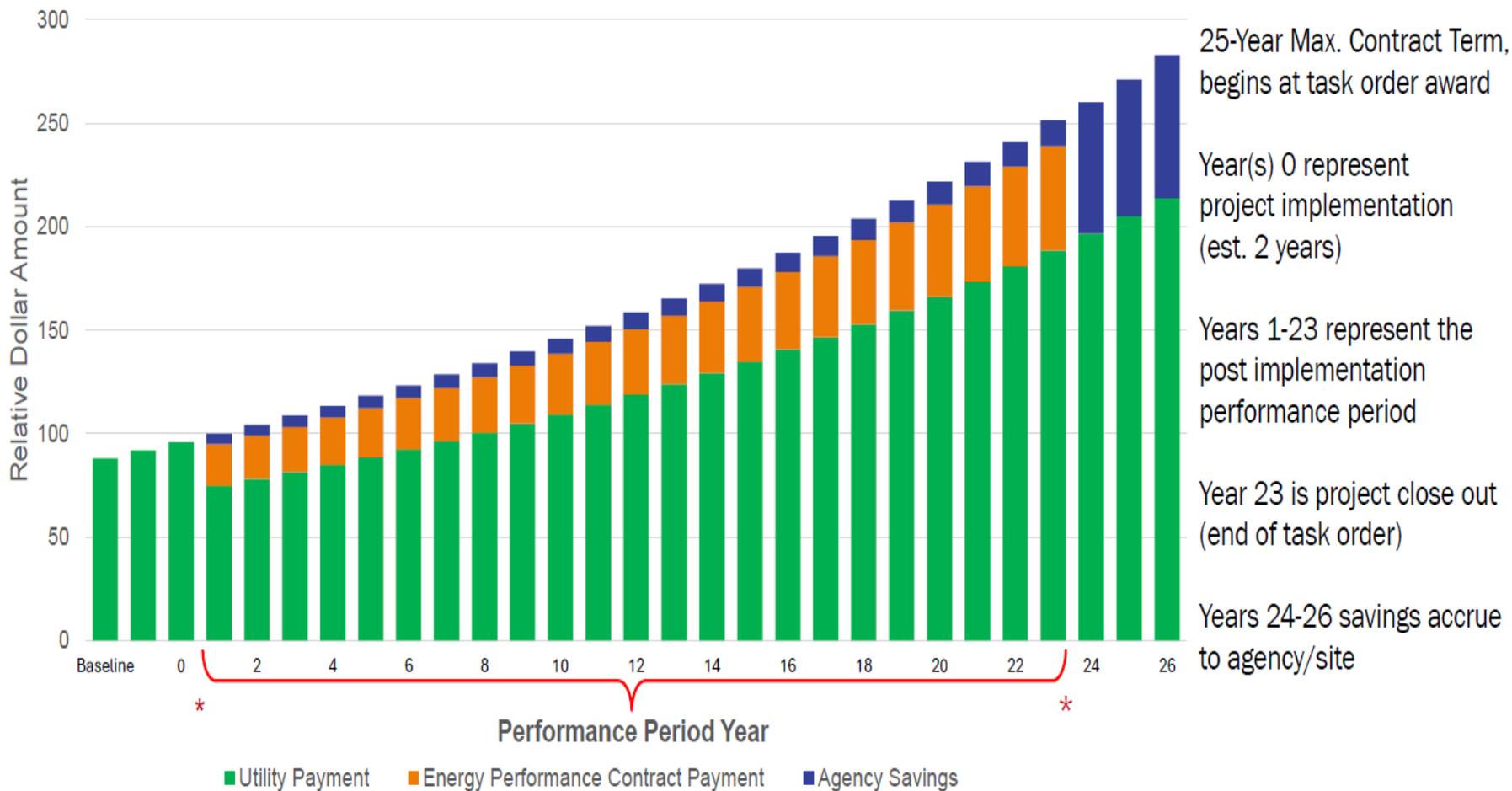
The difference between the pre-project energy costs and post-project costs are used to pay for the contract.

- **Payments are structured over time** (up to 25 years) to ensure annual savings equal or exceed annual payments
 - **ESPC (42 U.S.C. § 8287)**: Legally requires that the total contract payments do not exceed the savings achieved
 - **UESC**: Not legally required but typically structured to ensure cost neutrality
- **Excess savings** during performance period are typically limited
- A portion of the savings is used during the performance period to cover O&M payments and repair and replacement costs (if included in contract)
 - Costs for O&M performed by contractor are built into contract payments but are not financed



Savings Pay for Financing

The Long-Term Picture



Types of Energy Savings

Typical Energy Conservation Measures (ECM's):

- Lighting Retrofits in Office Buildings and Warehouses
- Heating Ventilation and Air Conditioning (HVAC) Repairs or Replacements
- Window Replacements
- Controls Upgrades
- Compressed Air Upgrades
- Steam/Boiler Plant Retrofits

*Bundling of ECM's; greater facility improvements.
Longer payback ECM's benefitting from shorter
payback
ECM's*

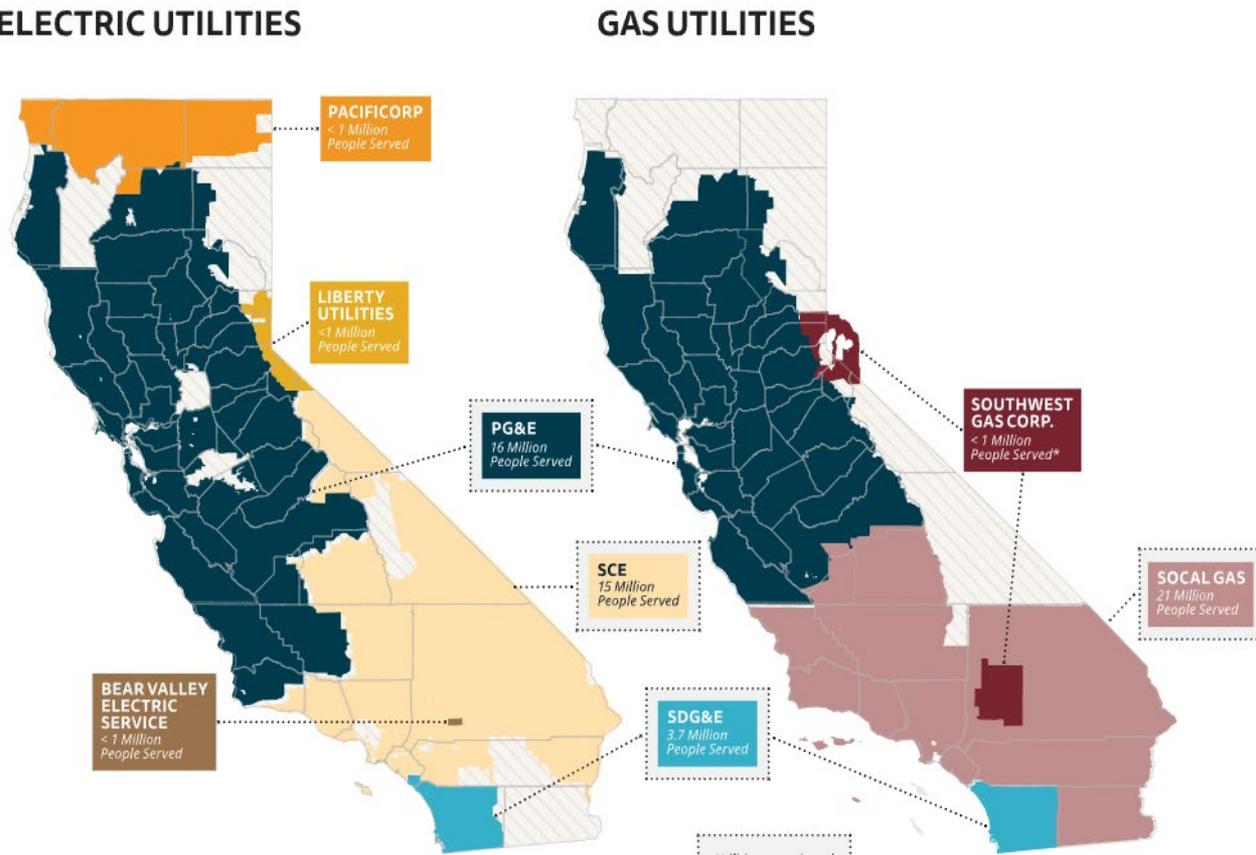
California Utilities

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



California Utility Service Map

Installation Workload Projections

3PF PROGRAM – PRE-AWARD PROJECTS

Project Title	Approximate Value (\$M)	Project Description	Target Award Date
NB Ventura County ESPC	\$26.5M	ESCO is finalizing IGA. Project will be done in two phases, with aims to repair SNI wind mill, PV/BESS, water resiliency, and lighting upgrades	APR 26
NB Coronado ESPC	\$167M	ESCO is finalizing IGA. Possible SOW of microgrid/PV/BESS at SCI, Silver strand, NOLF, and NAB sites.	APR 26
NAF EI Centro UESC	\$7M	Revising savings calculations based on latest utility rates. Once SOW is determined, RFP should be released within a few months.	Aug 26
NB Point Loma UESC	\$9M	Revising savings calculations based on latest utility rates. Once SOW is determined, RFP should be released within a few months.	Sep 26
NAWS China Lake UESC	\$9M	Needs more AFFECT funds to be financially viable. Looking to reallocate AFFECT funds from NASL UESC. HQ wants to wait for NASL to finish FS so it can optimize AFFECT funds for best ROI on both projects	TBD
NAS Lemoore UESC	TBD	Undergoing redo of Feasibility Study as original electrification goals are no longer required. ANCCR utility Rates may not be delivered until early spring	Oct 26
NAS Fallon UESC	TBD	PWD is selecting ECM's to include in RFP	May 26
MCB Camp Pendleton	\$58M	SDG&E finalizing proposal. Includes FRCS support, lighting, HVAC, AMI, PV, and transformer optimization.	FEB 26
MCRD San Diego	\$8M	PWD has finalized ECM list, RFP development in progress. SOW focusses on PV restoration	JUN 26

3PF PROGRAM – POST-AWARD PROJECTS

Project Title	Value (\$M)	Status	Construction Start	BOD Date
NB Coronado UESC (P1003 San Clemente Island)	\$39M	50% Design Review accepted. Installing wind turbine generation and BESS at remote island	AUG 25	OCT 28
MCB Camp Pendleton UESC 23	\$27M	Construction is nearing completion. Scope includes FRCS Improvement, LED lighting, HVAC replacement, and DDC optimization.	JUN 23	SEP 25 (FRCS Support Ends)
MCAS Miramar UESC 2	\$18M	Finalizing approval of design for some ECM's, while construction of lighting and other ECM's moves forward	NOV 24	NOV 26

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
- New scrutiny of wind turbine projects



Photo of Existing (Demoed) SCI WTG's

High Interest Real Estate and EUL Projects Portfolio

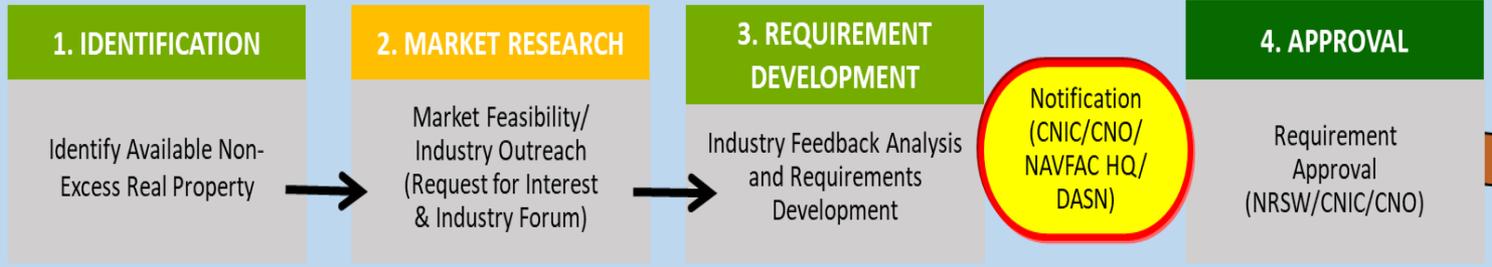
Enhanced Use Lease (EUL) agreements are also executed by the PW8 program. These projects allows the navy to lease out under utilized land. In return, the navy gets In Kind Consideration (IKC). For instance: steam generation, first rights of refusal for back-up power, access to battery energy storage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

Out leasing Process

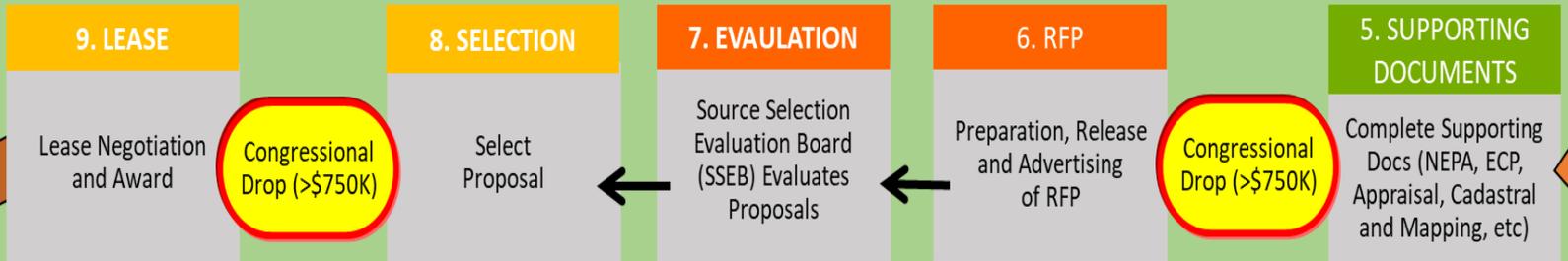
PHASE 1. REQUIREMENTS PHASE

ROLES: Installation (Lead) with NRSW & NAVFAC SW (Support)



PHASE 2. EXECUTION PHASE

ROLES: NAVFAC SW (Lead)



PHASE 3. LEASE MANAGEMENT PHASE (Lifetime of Lease + Options)

ROLES: NAVFAC SW (Ongoing Consultation and Support)



Based on One (1) Sr. Realty Specialist FTE



DON's CA Energy EUL Project Portfolio

DON is executing multiple projects at Marine Corps and Navy installations throughout California to enhance our **energy resilience** and support the CA electric grid.

NAS Lemoore (150+ Acres)

- 40+ MW Solar PV, 20MW/40 MWh BESS
- 5 MW backup diesel generators, microgrid controls

NWS Seal Beach (59 Acres)

- 10 MW Solar PV, 10 MW BESS
- 1.95 MW backup diesel generators, microgrid controls

NWSSB Det. Norco (8.3 Acres)

- 2.5 MW Solar PV, 2.5 MW BESS
- 2.2 MW backup diesel generators, microgrid controls

MCRD San Diego (1.53 Acres)

- 25 MW BESS
- 2.9MW backup diesel generators, microgrid controls

****New Starts for Camp Pendleton, MCAS Yuma, Naval Base Point Loma, and MCAS Miramar**



DON recognizes its role as a CA grid stakeholder, and sees the opportunity to develop projects that support market-driven grid needs and achieve national defense resiliency objectives.

Resiliency via ERCIP

Approved / In Progress:

- FY19, P1003 Upgrade San Clemente Island Wind Turbines and add Energy Storage; \$21M; Target Award of SEP 2023
- FY20, P613 NB Ventura County San Nicolas Island Energy Storage System; \$5.75M; awarded Jan 2021 and Design in Progress.
- FY21, P839 NSA Monterey Cogeneration Plant at B236; \$10.5M; Target Award of SEP 2023.
- FY22, P815 NAWS China Lake Solar Energy Storage System; \$15.7M; initial funds provided, DB RFP in development.
- FY23, P615 Naval Base Ventura County/San Nicolas Island Ground Mounted PV; \$13.4M; Target Award of DEC 2023.

Submitted:

- FY24-FY29 = \$173M (6 projects)

Innovations: Combining P1003 with an UESC for Maximum Return

Key Efforts

Plugged In



Low Carbon Fuel Standard

- Sept 2022 - IGSA w/ Port of San Diego
- ~\$25M/yr Electrification Upgrades

Unplugged



Demand Response

- Sept 2022 - California Heat Wave
- 21 MW Load Reduction for 10 days

One Team, One Voice, One Mission

Ingredients for Success

- **Early effort pays off later:** Early details in initial concept sets the groundwork for project outcome
- **Communication:** Include whole PWD for project feedback early and often
- **Scheduling:**
 - Be mindful of scheduling if there are expiring funds
 - Build in lag times for supply chain issues
- **Over-Budget:** account for inflation and rising costs of supply chain issues

....and ingredients for challenges:

- Funded portions are not budgeted appropriately, leading to bid-bust (cost estimates may be several years old)
- Lack of initiative from the base leadership
- Key project team members leave with lack of continuity (from both Navy and Contractor teams)

Energy Challenges

- **DoN Strategy: Resiliency, Reliability, Efficiency**
 - It's hard to quantify benefits of resiliency in terms of dollars saved
- **Aging Infrastructure**
 - Increasing failures due to vast WWII utility infrastructure
- **Increased Demand vs. Demand Response**
 - Mission growth due to Strategic Laydown and Dispersal (SLD)
 - New platforms – e.g. Joint Strike Fighter, Ford Class Carrier
 - Sept 2022 - California Heat Wave; pulled ships off grid (21 MW reduction for 10 days)
- **Limited Appropriated Resources**
 - Limited financial return on investment for resiliency improvements
 - Low hanging fruit for UESC/ESPC projects is running out
- **Uncertainty of Future of Energy Program**
 - Many EO's and policies revoked
 - DRP of leadership roles

NRSW Resiliency Activities

NBPL Islanding Concept (Team: NRSW, NPS, Stanford)

- **Summary:** Develop modular/scalable zonal microgrids to sustain installation operations during electric grid outages for minimum 30 days.
- **Status:** 23 July REGCOM update: O&M cost estimating, modeling interzone power flow. Project on track.
- **Next Steps:** NBPL developing EPSP ERCIP brief & project package (ROM costs, DD1391 for FY26 ERCIP submission. Next REGCOM update 1300 13 Aug.

NBSD ERCIP P-1301 Microgrid & CEC LDES Grant Project (Team: NRSW, CEC, FEAD, EXWC)

- **Summary:** P-1301 ERCIP installs Microgrid to support EOC. CEC \$8M grant to upsize Long Duration Energy Storage to 1MW/8MWH Zinc Hybrid for Tech Eval. CCD 29 Mar 2027.
- **Status:** Eos & Synergy in negotiations, CRADA in development by EXWC and Eos.
- **Next Steps:** Working with ACQ, Counsel and FEAD on path forward. EXWC POAM pending.

NASNI Extended Duration Storage for Installations (EDSI):

- **Summary:** NASNI & DIU developing a 4.8 MW/5.24 MWh flow BESS adjacent to Substation Lima serving high (MDI) buildings. Recently added scope is portable 1MW BESS to support ships.
- **Status:** Concept design done;
- **Next Steps:** Researching funding sources.

NRSW Partnership Activities

Low Carbon Fuel Standard (LCFS) with Port of San Diego (PSD)

- **Summary:** NRSW partner PSD to access LCFS Program at NBSD. Credits earned for shore power use. Current credit value is **\$22.5M**.
- **Status:** State Lands Commission approved 2nd IGSA 02 Apr. Accumulated credit value for NBC is \$3.6M and NBPL is \$36K (estimated). First IKC project at NBSD 100% designed, award in 10/25, CCD 11/27.
- **Next Steps:** Approval package sent early May to ASN via tasker DON-250417-C9VS, currently with DOJ for legal review. ETA : TBD

AFFECT Grant funding

- **Summary:** DOE Grants targeted 3PF and Resilience projects. Current grant awardees: NBVC ESPC \$944K, NAFEC UESC \$2M, NASL UESC \$10M, NAWSCS UESC \$1.9M, NSAM Study \$100K. Total \$15.1M. No year funds.
- **Status:** Funding to flow through CNIC Energy HPD, all recipients moving forward. SOPO Tasker closed
- **Next Steps:** Estimated Grant funding dates: NBVC Nov 2025, NAFEC Dec 2025, NASL Q4 FY26.

NRSW Geothermal Feasibility Studies @ NASF & NAFEC

- **Summary:** Defense Innovation Unit (DIU) funded GPO for Geothermal Pre-feasibility studies.
- **Status:** Leadership and Stakeholder brief provided by DIU on 16 Jul.
- **Next Step:** EXWC Geothermal Program Office requesting more information from vendors.

Current NRSW Energy Activities

Black Start Exercises

- **Summary:** (4) NRSW Installations scheduled in FY25.
- **Status:** Pending NWSSB AAR, NBSD & NBC granted Complies w/ comments, pending AAR.
- **Next Steps:** NBPL BSX (12 AUG).

Grid Stress Studies (LBNL, CEC-funded):

- **Summary:** Study to determine electric infrastructure capability to handle increased loads. Locations are NBSD, NBVC and NASL.
- **Status:** Pending funding to complete, then ARE brief.

Questions or Comments



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- The Military Engineer magazine, January 1920



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