



DON ENERGY MISSION INTEGRATION GROUP (EMIG)

12 March 2020



THE EVOLUTION OF EMIG

2017



Assistant Secretary of the Navy, Energy, Installations & Environment (ASN (EI&E)) formalized the Energy Security Framework (ESF) that defined the Resiliency, Reliability, and Efficiency benchmarks necessary for Installations to deliver assured energy.

2018



The DON developed the Energy Mission Integration Group (EMIG), a governance body responsible for ensuring highest priority mission critical gaps are mitigated using the best overall financial and technical solutions.

2019



EMIG ensures an Enterprise-wide approach to managing Installation energy security investment and execution by prioritizing energy security gaps, creating courses of action, and approving project development to close critical energy gaps.

2020



EMIG manages water and electricity energy security investments and develops roadmap to introduce additional commodities in future years.

FY20-21 Focus Areas



Increased Integration with Mission Assurance: EMIG and Mission Assurance have identified additional integration points to ensure EMIG is prioritizing the most critical infrastructure requirements.



Additional Commodities: EMIG will be analyzing water in addition to electricity in FY21 across the Enterprise, and is scoping additional commodities to integrate in the future.

EMIG PURPOSE AND PARTICIPATION

The Energy Mission Integration Group (EMIG) manages Installation energy security investments in alignment with the DON's strategic priorities to improve **Resiliency, Reliability, and Efficiency** across the enterprise. The EMIG utilizes a data-driven approach in prioritizing energy security gaps, developing courses of action, and programming projects for development and execution to optimize energy security.

Value of EMIG



Portfolio Management: Centralizes work induction process to leverage relationships with utilities and industry partners to properly allocate third party financing and mission funding.



Bundling: Groups solutions that are composed of similar mission gaps to focus limited resources, harness economies of scale, and create synergies



Data Driven: Enterprise wide data call incorporates inputs from authoritative databases and Installation and Region level SMEs to inform EMIG decision making process.



Business Alignment: Aligns with SMIG, Mission Assurance, and Installation Energy Plans (IEPs) to apply technical and acquisition solutions across DON Installations in support of the warfighter's needs.

CHAIR



CNIC
N44

MEMBERS



CPF NAVFAC USFF NAVSEA BUMED NAVAIR DASN
N464 HQ PW N464 O4X4 M41 Fac 7.10 RDT&E

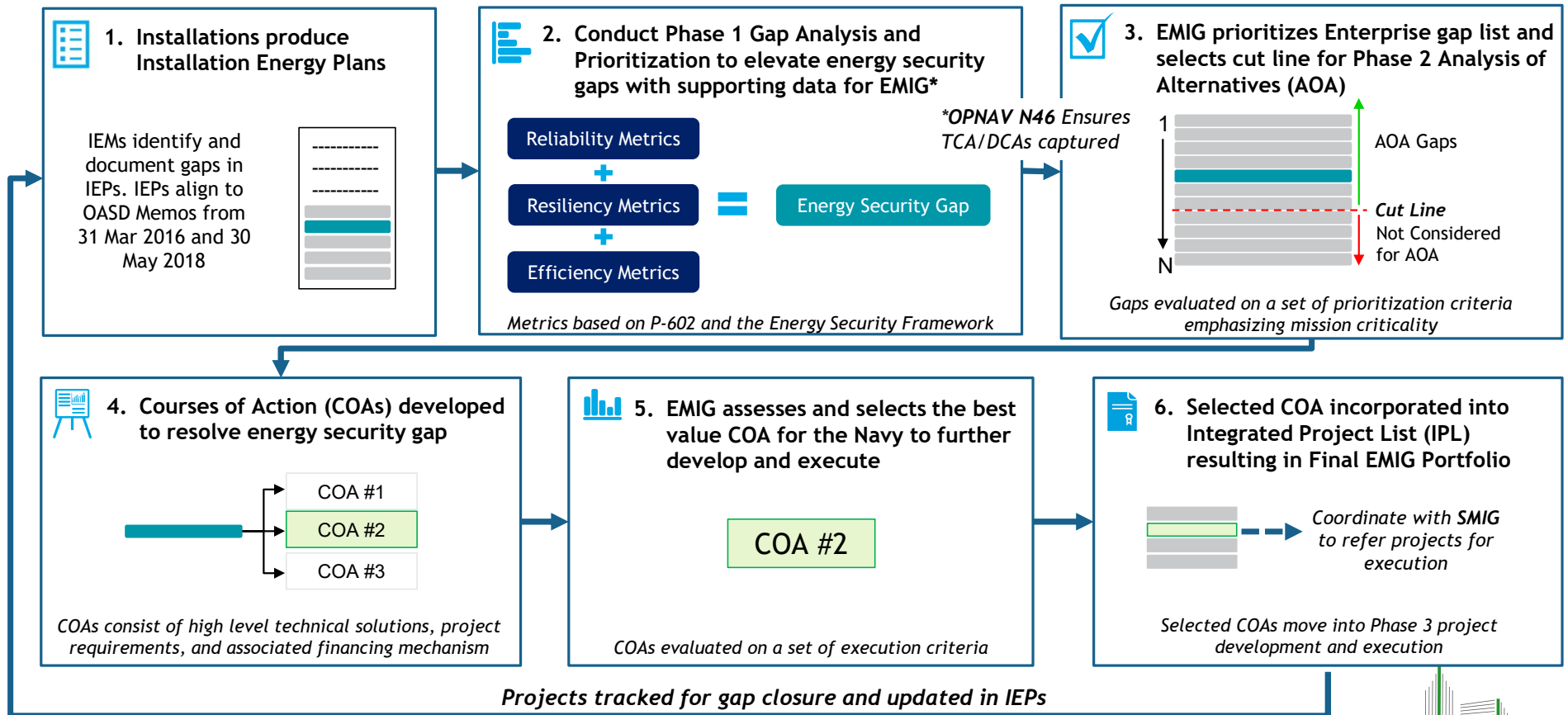
ADVISORS



ASN (EI&E) OPNAV N46B
Shore Energy Shore
Readiness

ENERGY SECURITY GAP PROCESS

EMIG PROCESS OVERVIEW



FY19 EMIG PORTFOLIO

In FY19, EMIG prioritized 113 of the highest critical energy security gaps across the Enterprise, 40 of which were selected to be further analyzed during Phase 2. EMIG analyzed the COAs developed to address these high-priority gaps and selected 14 project COAs based on a set of execution criteria to inform the final FY19 EMIG Portfolio. NAVFAC is currently working across multiple geographies, project maturities, and financing mechanisms to execute the 10* programmed and conditionally approved new start projects.



FY19 EMIG Project Portfolio is worth an estimated value of \$741M



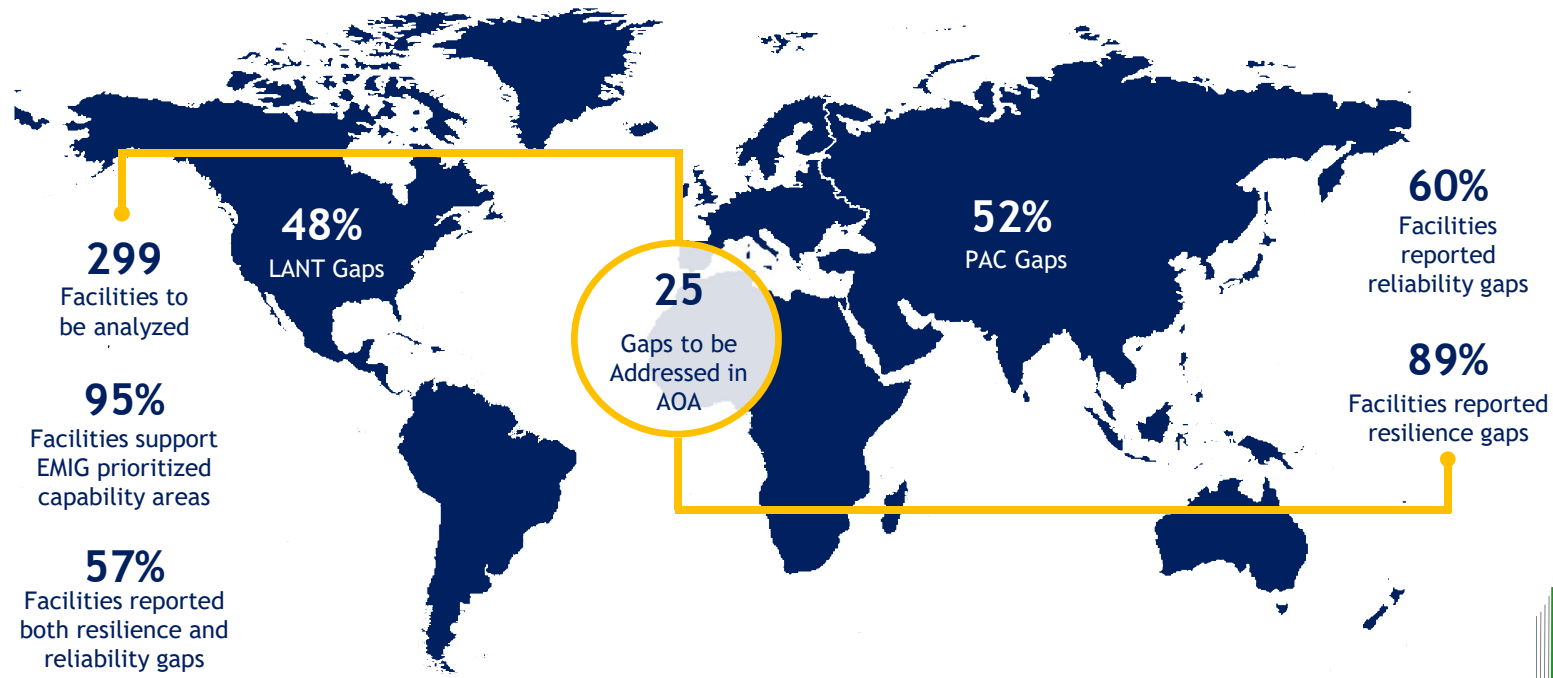
2 EULs providing combined 80MW on-site backup generation across the 2 Kitsap sites

1st DON PPA executed abroad, diversifying CLDJ's energy supply back up fuel

*7 New Start Projects and 3 projects to continue execution as part of FY19 EMIG Portfolio. Additional projects subject to change during project development and execution.



FY20 PHASE 1 RESULTS



FY20 PHASE 2 GAPS

LANT

FEC	Installation	Gap Type
EURAFCENT	NAS SIGONELLA IT	Reliability
EURAFCENT	NAVSUPPACT BAHRAIN	Resilience
MA	NAVSUPPACT HAMPTON ROADS VA	Resilience & Reliability
MA	JNTEXPBASE LITTLE CREEK FS VA	Resilience & Reliability
MA	NAVSUPPACT MECHANICSBURG	Resilience & Reliability
MA	NSS PORTSMOUTH NAVY SHIPYARD	Reliability
MA	NAVAL SUPPORT STATION NRFK NSY	Resilience & Reliability
SE	NAVSTA GUANTANAMO BAY	Reliability
SE	NAVSTA MAYPORT FL	Resilience & Reliability
SE	SUBASE KINGS BAY GA	Resilience & Reliability
SE	NAS KEY WEST FL	Resilience

PAC

FEC	Installation	Gap Type
Far East	COMFLEACT YOKOSUKA JA	Resilience
Far East	NAVSUPPFAC DIEGO GARCIA	Resilience, Reliability & Efficiency
Hawaii*	JBPHH PEARL HARBOR HI	Resilience & Reliability
NW	CNI NAVMAG INDIAN ISLAND	Resilience & Reliability
NW	NAS WHIDBEY ISLAND WA	Resilience & Reliability
NW	NAVAL BASE KITSAP BREMERTON**	Resilience
SW	NAS LEMOORE CA	Resilience (water)
SW	NAVBASE CORONADO SAN DIEGO CA	Resilience (water)
SW	NAVBASE CORONADO SAN DIEGO CA	Resilience & Reliability
SW	NAVBASE CORONADO SAN DIEGO CA	Resilience & Reliability
SW	NAVBASE SAN DIEGO	Resilience & Reliability

*Hawaii has three gaps with the same overall requirements

**FY19 EMIG EUL will address this gap

CHALLENGES FOR EMIG

- 1 Internal DON coordination on goals for acquisition mechanism balance within the resulting portfolio
- 2 Gap prioritization criteria does not consider availability of savings to support ESPCs
- 3 Appetite and funding availability to pay for ESPCs (UT)
- 4 Minimal time for ESCOs to provide input into the development of COAs before submitting to CNIC
- 5 Address ESCO community concerns that ESPCs are valued correctly by EMIG