



Department of Navy (DON)- Renewable Energy Program Office (REPO)

Overview

Updated October 2014



DON Renewable Energy Priorities

- ***Produce/Procure 1 GW of alternative energy***
 - *0.5 GW in Procurement by 2014*
 - *Add'l 0.5 GW in Procurement by 2015*

- ***Achieve 50% shore energy requirement from alternative energy sources by 2020***

- ***Provide a roadmap to integrate renewable energy into the installation electrical grid***



DON REPO Acquisition Models and Features

- **Model 1: “Buy it”**
Off-base Generation for on-base consumption (acquisition: USC/PPA)
- **Model 2: “Book it”**
On-base Generation for off-base consumption (real estate outgrant)
- **Model 3: “Build it”**
On-base Generation for on-base consumption (acquisition: PPA)

	Model 1	Model 2	Model 3
Location	Off-base	On-base	On-base
Electricity Off-taker	DON	Utility/other	DON
RECs	Required if necessary	Not required	Not required
Contract Length	Up to 30 years	Technology-dependent; generally 30 years	Up to 30 years



How are REPO Models Boosting Energy Security?

- *Large-scale renewable energy provides long-term price stability and diversifies power supply*
- *Additional/updated infrastructure is required to create reliable access to on-base renewable energy generation*
- *In models 2 and 3, as in-kind consideration for real estate outgrant to build renewable energy asset, DON will seek additional/updated electrical infrastructure*



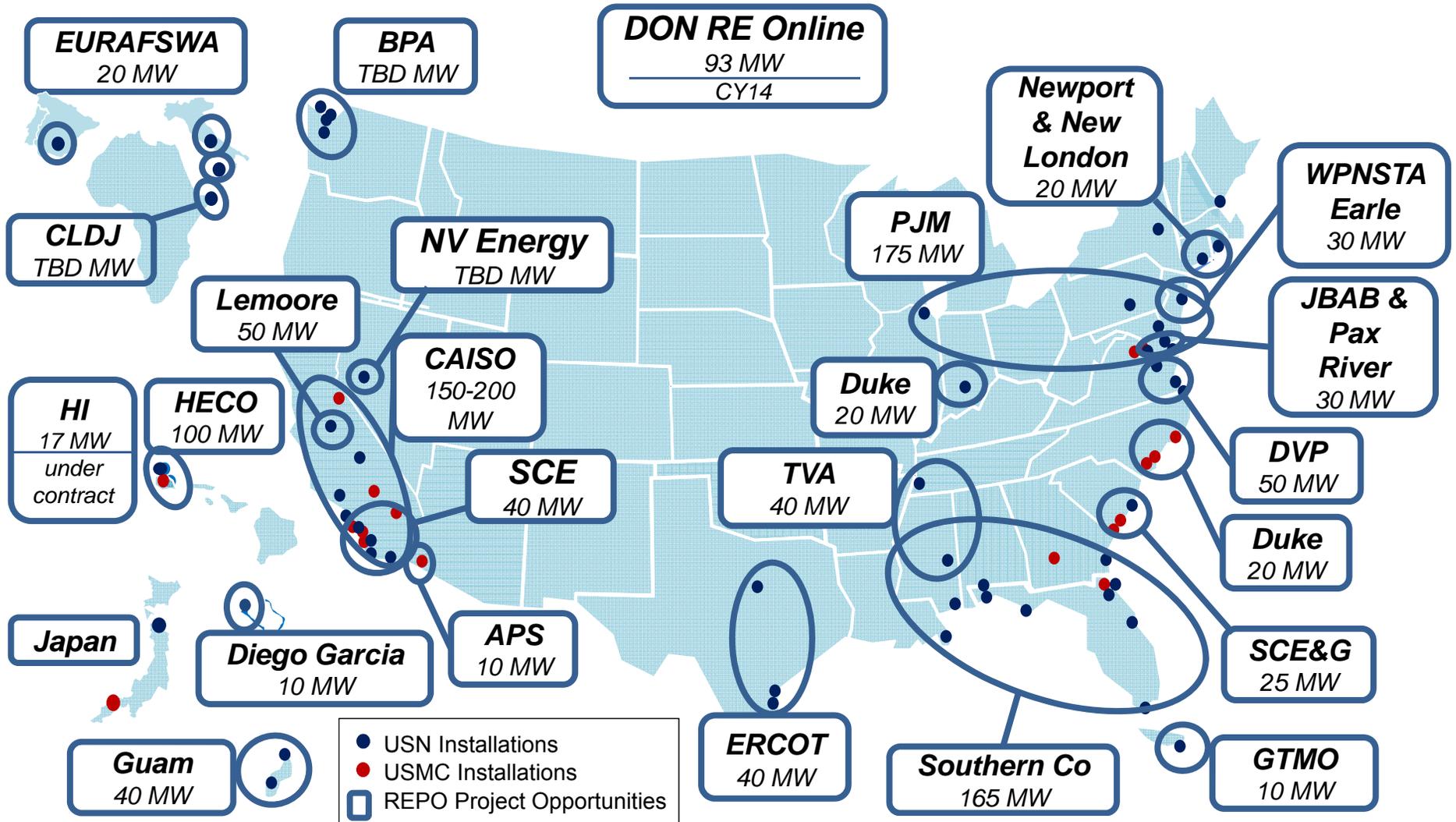
Funding Sources for DON REPO Projects

- ***Third-party financing through traditional PPA (USC 2922 a) for models 1 & 3***
- ***Value upgrades/improvements added to satisfy in-kind benefit for use of DON land***
- ***Leverage finance community from PPV housing initiative***
- ***Exploring DOE Loan Program for advanced batteries on microgrids***



REPO Project Opportunities

(as of Sept 2014)

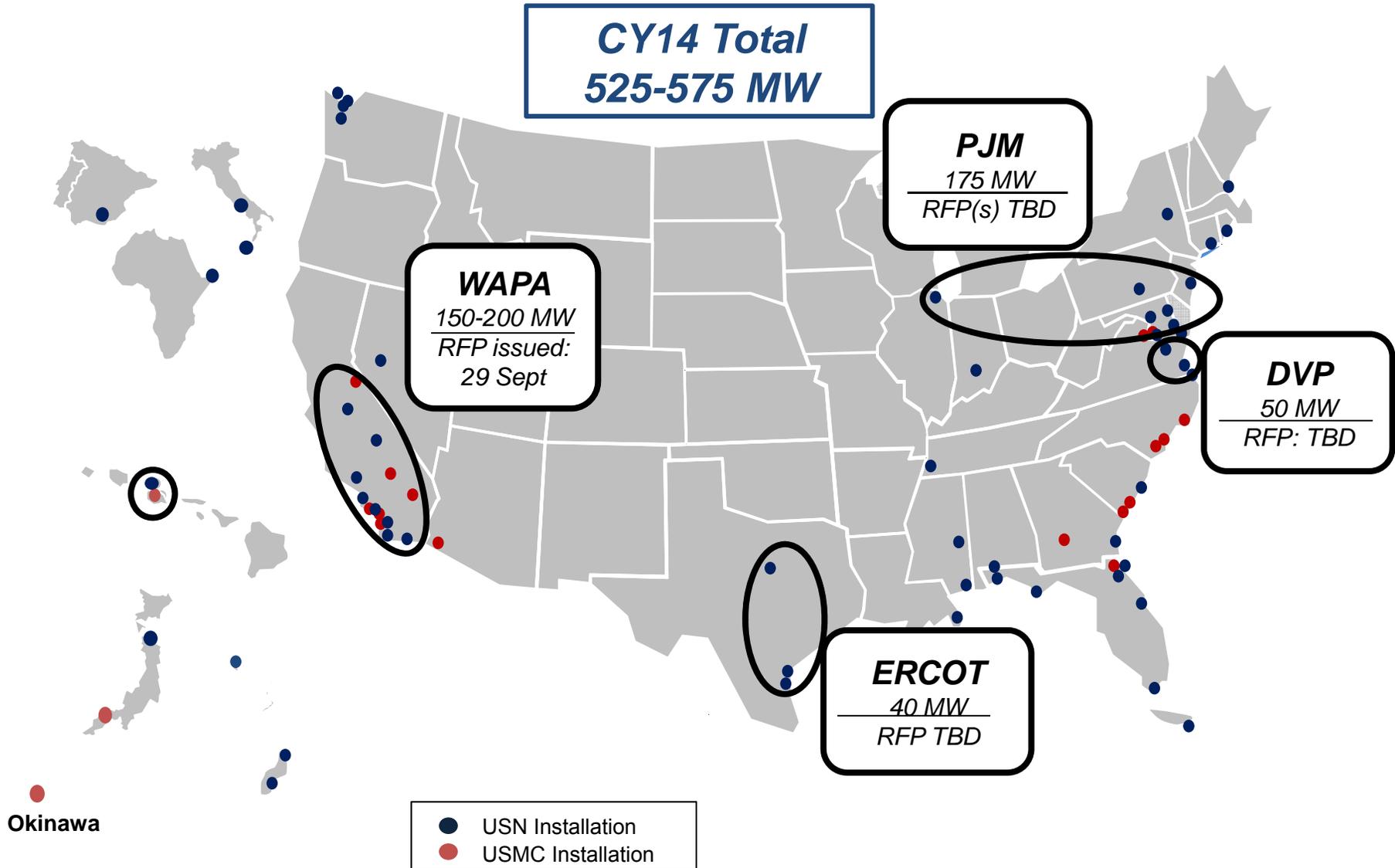


*Projects represent estimates that are subject to change.



REPO CY14 Opportunities

(as of Oct 2014)





Questions?

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Doing Business with the Department of the Navy

Paul Heavey
Contracting Officer
NAVFAC EURAFSWA

•December 2014

The NAVFAC Mission/Vision



From the 2014-2016 NAVFAC Strategic Plan:

Our Mission:

NAVFAC is the Systems Command that builds and maintains sustainable facilities, delivers utilities and services, and provides Navy expeditionary combat forces capabilities.

Our Vision:

Our expertise enables mission success.

Who We Are...



- **Global Engineering/Acquisition Command**
- **20,000 People (Military, Civilians, & Contractors)**
- **Annually deliver over \$16 billion of products and services**
- **Contracts for Construction, A&E, Facility Support, Environmental and other services**



NAVFAC Products & Services



- **Capital Improvements**

- Construction
- Design A&E/In-House
- Specialized Technical Engineering and Services
- Ocean Engineering

- **Environmental**

- Environmental Restoration
- Environmental Quality

- **Asset Management**

- Facilities Planning
- Project Development
- Real Property Acquisition, Mgmt and Disposal

- **Public Works**

- Facility Sustainment
- Utilities and Energy Management
- Base Support Vehicles and Equipment
- Facility Services
- Facilities Support Contract Management

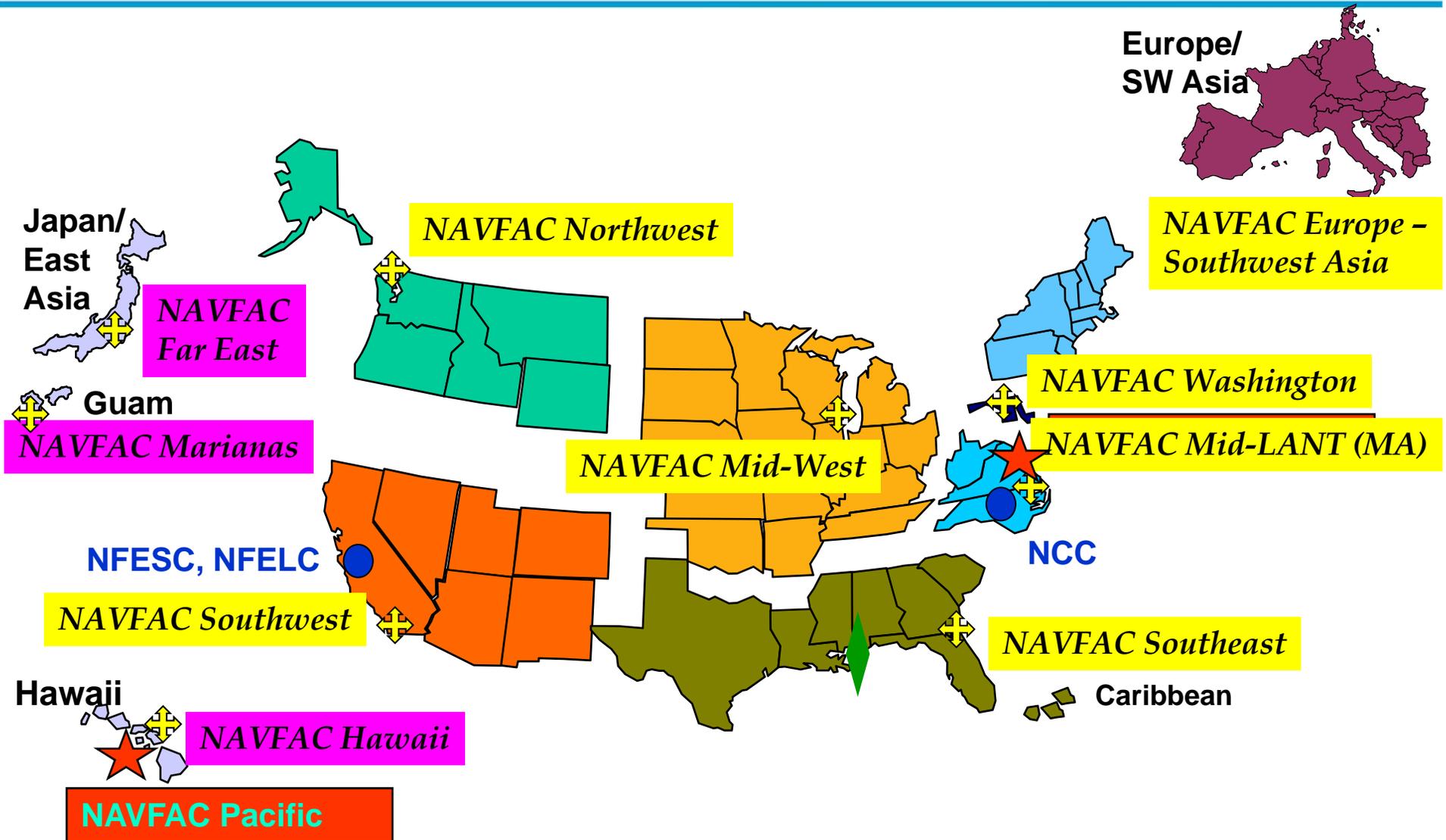
- **Contingency Engineering**

- Disaster Recovery
- Emergent Operations
- Humanitarian Assistance

- **Expeditionary Programs**

- Support Military Operations
- Equipment/Systems Acquisition

NAVFAC Areas of Responsibility: A Global, Interdependent Team



NAVFAC EXECUTION GOALS



- Zero safety accidents
- Minimize unplanned cost and schedule growth
- Turnkey procurement approach for Furniture, Fixtures & Equipment (FF&E)
- LEED Silver
- Energy reduction for existing buildings
- Implement Low Impact Development (LID)
- Meet DOD Small Business Goals

NAVFAC EURAFSWA FY14 TOP 10 NAICS



NAICS Code	NAICS Description	Dollars Obligated
23	Construction	\$175,516,635
56	JANITORIAL, ADMINISTRATIVE AND SUPPORT, WASTE MANAGEMENT, AND REMEDIATION SERVICES	\$122,221,925
54	PROFESSIONAL, SCIENTIFIC, TECHNICAL, AND ENGINEERING SERVICES	\$11,949,994
53	REAL ESTATE AND RENTAL AND LEASING	\$6,267,439
22	UTILITIES	\$ 100,000,000
48	TRANSPORTATION	\$608,992
	TOTALS	\$416,564,985

CONTRACTS WITH NAVFAC



- **Technical capabilities**
 - Tailored for the specific procurement
- **Past Performance**
 - Contractor Performance Assessment Reporting System (CPARS)
 - Past performance Questionnaires
- **Safety**
- **Price**

- **Other considerations:**
 - System for Awards Management (SAM) www.sam.gov
 - Dun & Bradstreet number (DUNS number)
 - Commercial and Government Entity (CAGE Code)
 - Currency of contract (Euro/Dollars/other)

Typical Acquisition Tools



- **Full and Open Competition**
- **Multiple Award Construction Contracts**
 - Small Business set-aside within MACC (at Contracting Officer discretion)
 - Fair Opportunity within MACC
- **Indefinite Delivery Indefinite Quantity A&E Contracts**
 - Follow-on Task Orders are negotiated
- **Indefinite Delivery Indefinite Quantity Construction Contracts**
 - Paving, Roofing, Painting, Utilities, other specialty trades
- **Facility Support Service Contracts**
 - Vehicle Rental, Maintenance, Custodial, Grounds, etc.

Announcements



Please continue to monitor FedBizOpps and NECO for actual announcement as these projections are subject to change.



www.FBO.gov



www.EURO.NECO.NAVY.mil

Wrap-up



- **How can you help us?**
 - Watch for opportunities on our websites
 - Respond to sources sought if you are qualified and responsible
 - Follow instructions in proposal
 - Stay safe!



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???Questions???

NAVFAC EURAFSWA Public Works Utilities

Energy Technical Overview

ENERGY INDUSTRY FORUM

Rome, 2 December 2014

Summary



- **US Navy electrical services in Italy**
- **Electrical Power data and locations**
 - NSA Naples
 - NAS Sigonella
- **Load profiles**
- **Renewable power: definitions**
- **Renewable power projects**

US NAVY INSTALLATIONS in ITALY



NSA NAPLES

- NSA Capodichino
- Support Site
- LP Transmitter Station
- Carney Park

NAS SIGONELLA

- NAS Airfield
- NAS Support Site
- Navy Hospital
- NRTF Niscemi

Electrical Power - NSA Naples



MV Services (6)	Annual Consumption [GWh]	Demand Peak [MW]	Load Factor [%]
NSA Capodichino	31.0	5.6	63.2%
Support Site (2)	22.1	5.0	50.5%
Support Site (1)	13.9	3.6	44.1%
LP Transmitter	3.9	0.6	74.2%
Carney Park	0.8	0.3	30.4%
Warehouse	0.5	0.25	22.8%
LV Services (7)			
Aggregate	0.2	0.1	N/A
TOTAL Naples	72.4	15.5	53.5%

US NAVY INSTALLATIONS NSA Naples – MV services location



Electrical Power - NAS Sigonella



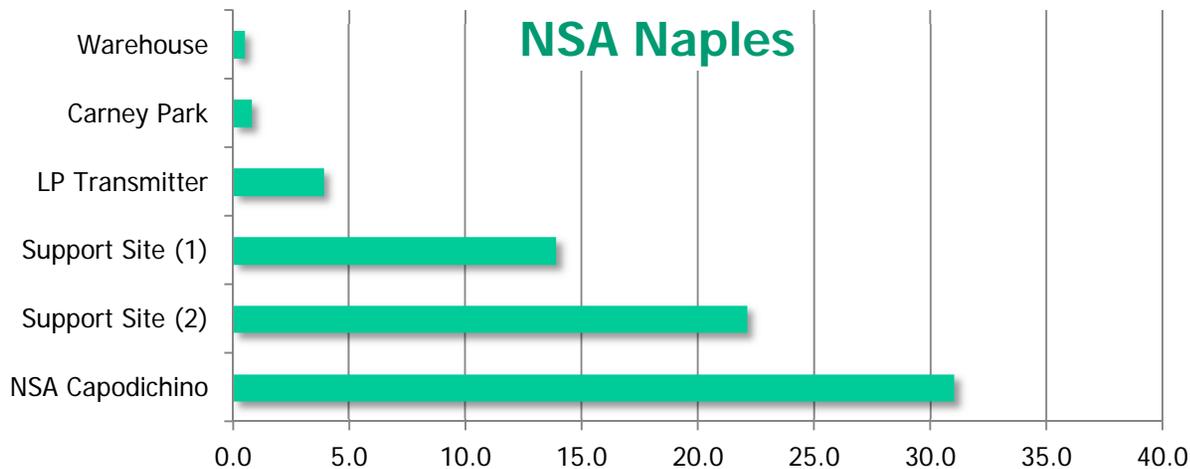
MV Services (6)	Annual Consumption [GWh]	Demand Peak [MW]	Load Factor [%]
Airfield (NAS 2)	27.8	5.6	56.7%
Support Site (NAS 1)	17.2	4.2	46.7%
Housing Compound	8.4	2.3	41.7%
Navy Hospital	5.4	0.9	68.5%
NRTF Niscemi	3.9	0.8	55.7%
Wells station	0.3	0.1	34.2%
LV Services (7)			
Aggregate	0.4	0.1	N/A
TOTAL Sigonella	63.4	14.0	51.7%

US NAVY INSTALLATIONS

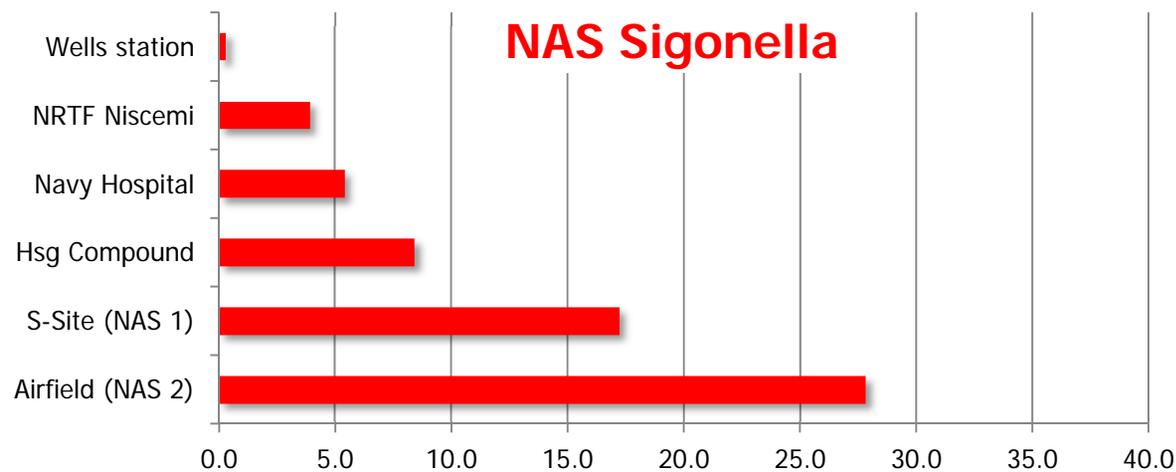
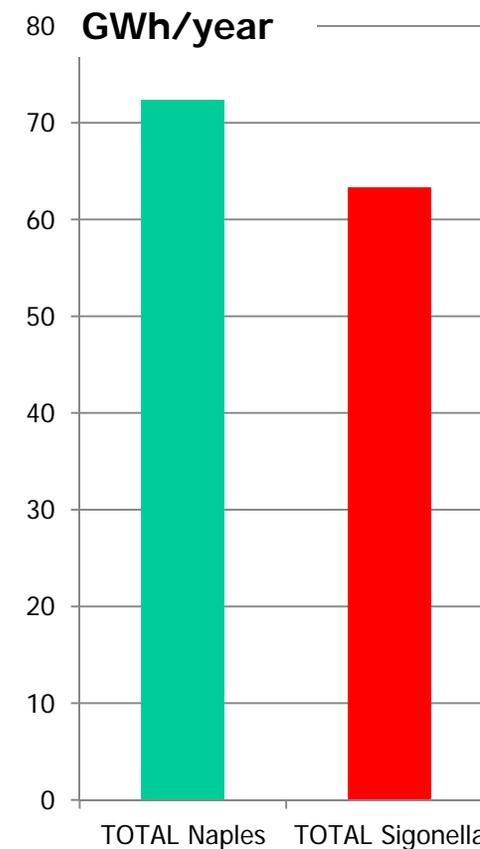
NAS Sigonella – MV services location



USN Electrical consumption - Italy



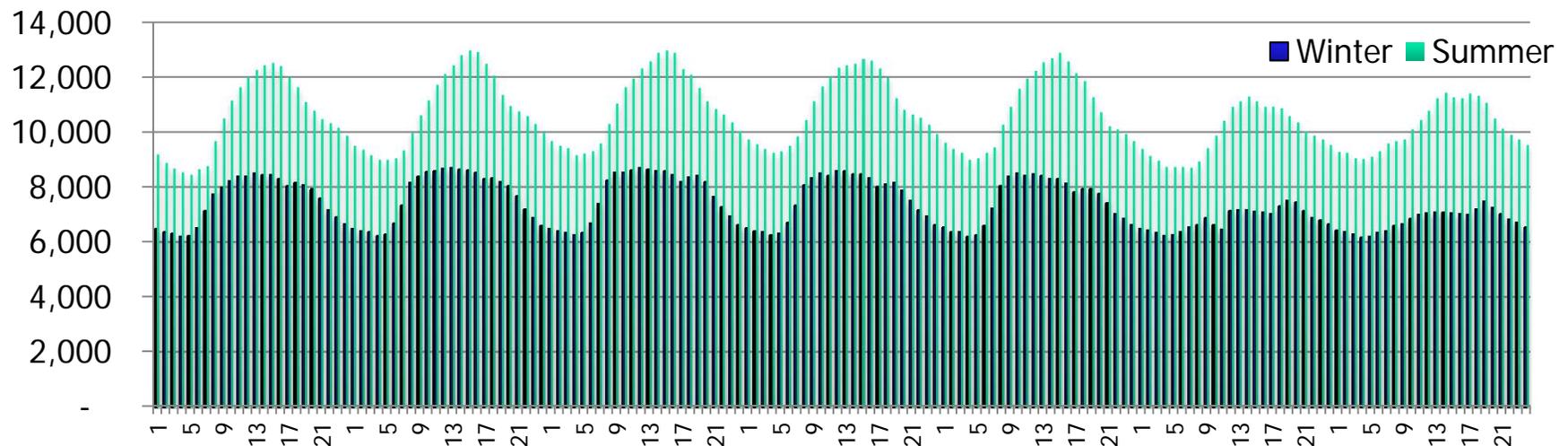
TOTAL Italy: 135.8 GWh/yr



USN aggregate load profiles NSA Naples



TYPICAL WEEKS - SUMMER / WINTER



Average winter demand: 6.5 - 7 MW

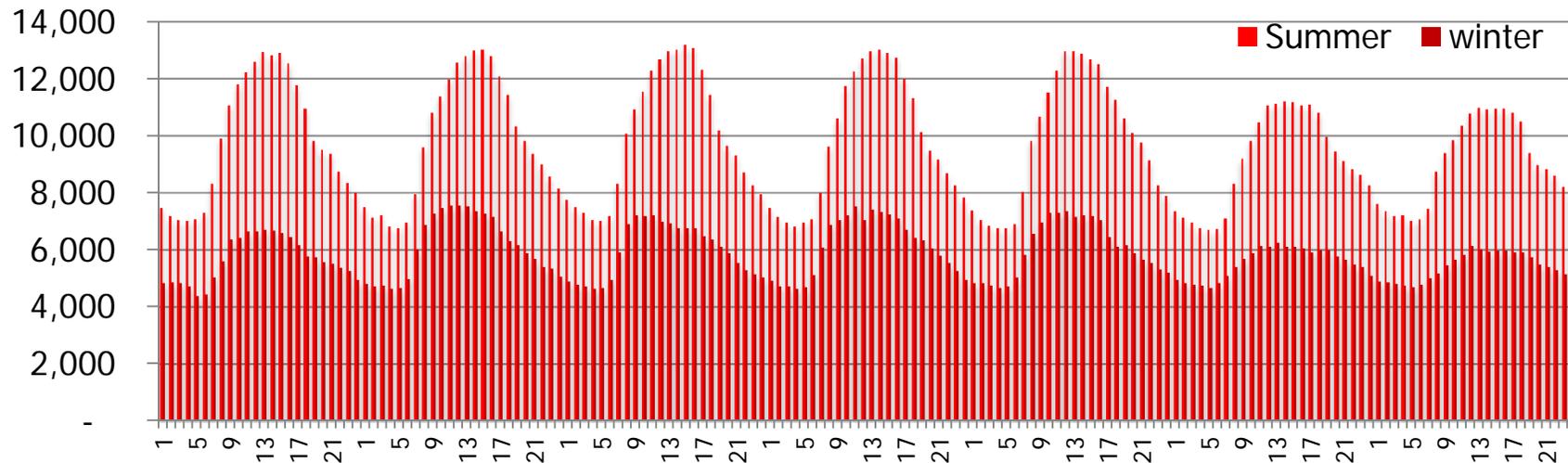
Average summer demand: 10 MW

Average MINIMUM demand (winter): 6 MW

USN aggregate load profiles NAS Sigonella



TYPICAL WEEKS - SUMMER / WINTER



Average winter demand: 6 MW

Average summer demand: 10 MW

Average MINIMUM demand (winter): 4 MW

Renewables: EU definition



DIRECTIVE 2009/28/EC of 23 April 2009 on promotion of the use of energy from renewable sources

- **ARTICLE 2: Definitions – Energy from renewable sources**
 - Wind
 - Solar (*photovoltaic and thermal*);
 - Aerothermal
 - Geothermal
 - Hydrothermal and ocean energy
 - Hydropower
 - Biomass
 - Landfill gas
 - Sewage treatment plant gas
 - Biogases

Renewables: US definition



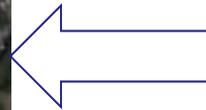
Energy Policy Act (EPACT) of 2005

- **ARTICLE 2: Definitions** – Energy from renewable sources
 - Wind
 - Solar (*photovoltaic and thermal*)
 - Geothermal
 - Ocean (*including tidal, wave, current, and thermal*)
 - Biomass
 - Landfill gas
 - Municipal solid waste
 - New hydroelectric generation capacity achieved from increased efficiency or addition of new capacity at an existing hydroelectric project

Navy Renewables Italy: existing PV plants



Base: NSA Naples Capodichino
Location: Naples, Italy
Rated output: 280 kWp
Date: Jan 2013
Install: on roof mounted carport



Base: NAS Sigonella
Location: NAS 1 Support Site
Rated output: 80 kWp
Date: Mar 2013
Install: on ground mounted carport

Navy Renewables Italy: existing PV plant Sigonella



Location:	NAS 1 Support Site (CT)
Rated output:	80 kWp
Expected production:	112 MWh (<i>0.6% of total</i>)
Date:	Mar 2013
Install:	on ground mounted carport

Navy Renewables Italy: existing PV plants



- PV systems are NOT in island, are grid connected
- Electrical Power generated by US Navy systems is 100% for self consumption;
- No power is transferred to the public grid;
- “Condizioni generali per le Connessioni attive” and “Regolamento di Esercizio” have been executed with ENEL Distribuzione for each of the two existing PV plants;
- For the “Condizioni Generali”, specific clauses have been negotiated with ENEL Distribuzione, Network Commercial Services Department, to address the status of US Government descending from Italy – USA agreements.

Navy Renewables Italy: Projected PV plant



Base: Nas Sigonella
Location: NAS 2 Airfield tech area
Rated output: 950 kWp
Date: targeted 2016
Install: ground mounted



Questions and Answers



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