DEPARTMENT OF THE NAVY
ENERGY PROGRAM

Tom Hicks
Deputy Assistant Secretary of the Navy for Energy
PERCEPTION
REALITY
PROTECT GLOBAL COMMONS

USS Carl Vinson (CVN 70), USS Bunker Hill (CG 52), and USS Halsey (DDG 97)
Indian Ocean
COUNTER PIRACY OPERATIONS

Visit, board, search and seizure team from USS Pinckney (DDG 91)
Gulf of Aden
HUMANITARIAN ASSISTANCE

MH-60S Sea Hawk picks up supplies USNS Matthew Perry (T-AKE 9)
2011 Earthquake/Tsunami in support of Operation Tomodachi
Off the coast of Kesennuma, Japan
CONDUCT OPERATIONS
F/A-18F Super Hornet
USS Abraham Lincoln (CVN 72)
Arabian Sea
SECNAV ENERGY GOALS

- Increase Alternative Energy Department-wide
- Increase Alternative Energy Sources Ashore
- Reduce Non-tactical Petroleum Use
- Sail the “Great Green Fleet”
- Energy Efficient Acquisitions
Pacific Ocean USS Princeton (CG 59) pulls oiler USNS Henry J. Kaiser (T-AO 187)

Royal Australian Navy S-70B Sea Hawk helicopter

2012 GGF DEMONSTRATION

SECNAV and CNO aboard USS Chafee

USS Princeton (CG 59) , USS Nimitz (CVN 68)
F/A-18
Naval Air Station Patuxent River, MD
USS Makin Island (LHD 8)
Homeport: Naval Base San Diego
ENERGY EVALUATION FACTORS IN THE ACQUISITION PROCESS

MEMORANDUM FOR DISTRIBUTION

SUBJECT: Energy Evaluation Factors in the Acquisition Process

References:
(a) DOD Instruction 5000.12
(c) Defense Federal Acquisition Regulation Supplement 215.103

Secretary Massay set forth five ambitious goals that will transform the way the Department of the Navy (DoN) uses energy on our installations and in our operational forces. DoN’s energy strategy emphasizes energy security and force capability enhancements for platforms and weapons systems as well as non-tactical shore operations. Among Secretary Massay’s goals is DoN’s commitment to reforming its acquisition processes to include energy performance criteria in its acquisition processes.

This memorandum provides guidance concerning the use of energy-related factors in acquisition planning, trade-off analyses, technology development, and competitive source selections for platforms and weapon systems. A future memorandum will provide guidance on energy-related factors in non-tactical shore operations.

Energy Performance in Acquisition

As part of its energy strategy, the Department will take substantive measures to include energy performance in the acquisition of platforms and weapon systems. The following ambitious DoN policy for implementation of energy considerations into the acquisition process.

1. Mandatory Calculation of Fully-burdened Cost of Energy (FBCE)

The FBCE estimates the energy-related costs to sustain operational missions, including procurement of energy, the logistics needed to deliver it where and when needed, related infrastructure, and force protection for those logistics forces directly involved in energy delivery (reference). The purpose of calculating the FBCE is to

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Entry Control Point
1st Battalion, 8th Marines
Afghanistan
1GW of renewable energy enough to power 250,000 homes or a city the size of Honolulu, HI
POWER PURCHASE AGREEMENT
JOINT VENTURE PROJECT
FINANCED PROJECTS
SOLAR
WIND

Guantanamo Bay, Cuba
CULTURE CHANGE
Waste-to-Energy (WTE)

Liquid Desiccant Cooling (LDAC)

Control Module
Gasifier
Gas Conditioning
Flare

Feedstock Processor

Combined PV / Thermal (PV-T)

Energy Management System (EMS)

HAWAII/GUAM TECHNOLOGY DEMONSTRATION

System Foot Print: 30’ x 30’
THANK YOU