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Navy Shore Energy

For

Naval Energy Forum

13 October 2011



Navy Energy Goals

"Department of the Navy will by 2020 produce at least half of our shore-based energy requirements on our installations from alternative sources." -- Secretary of the Navy Ray Mabus







Navy Shore Energy Strategy

Transform Navy From Culture of Consumption to Culture of Conservation <u>Through Transparency</u> and Accountability

Navy Energy Culture Energy Security: - Redundancy

- Resiliency
- Reliability

ENERGY SECURITY & COMPLIANCE

Energy Efficiency First

The *Right Technology* at the *Right Time*

- Watch
- Partner
- Lead

Renewable Energy & Sustainability

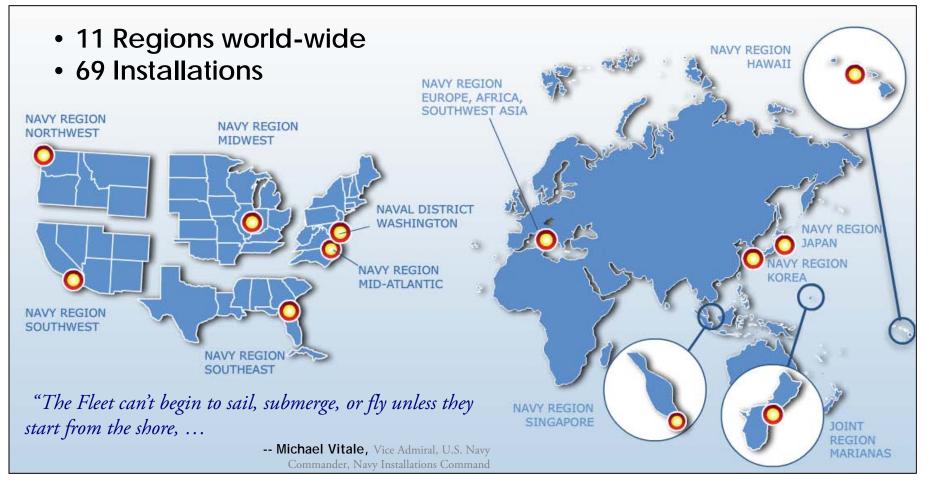
Energy Efficiency

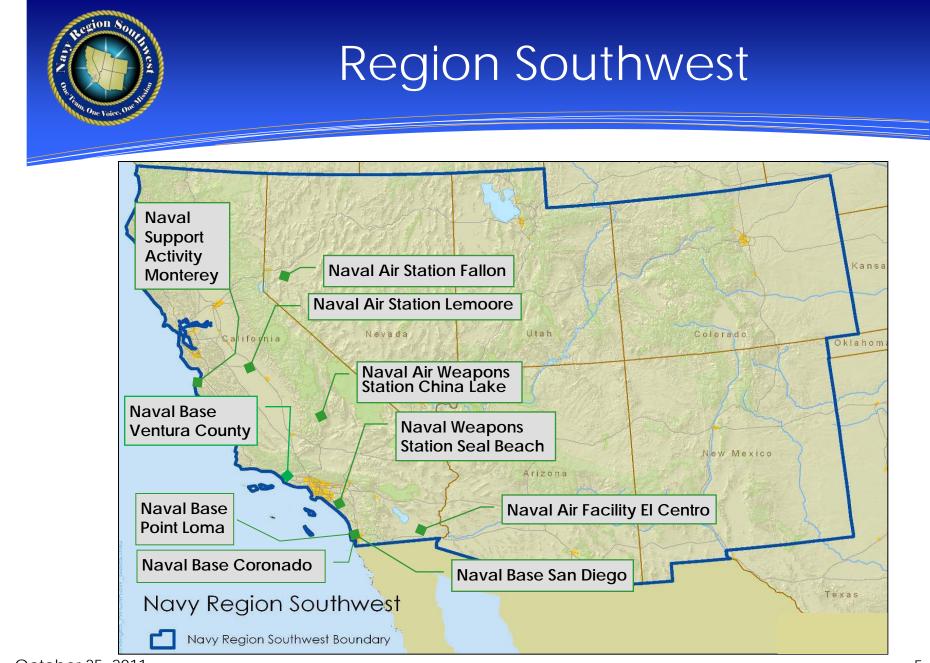
"Compliance" is unique to the Shore



Navy Installations Command

Sustain the Fleet, Enable the Fighter, Support the Family





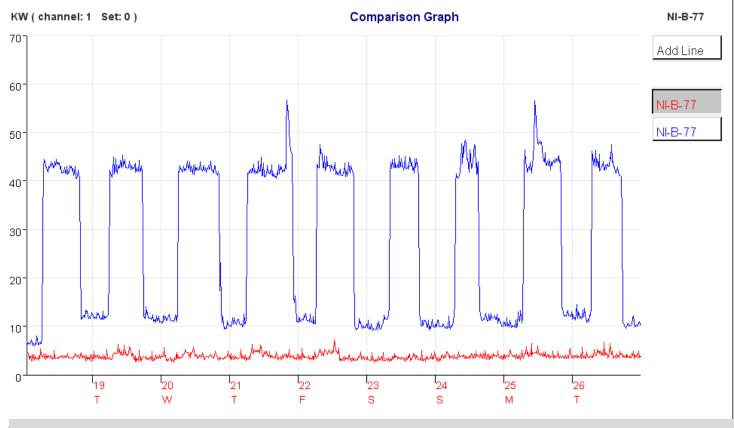


NB Coronado - Warehouse

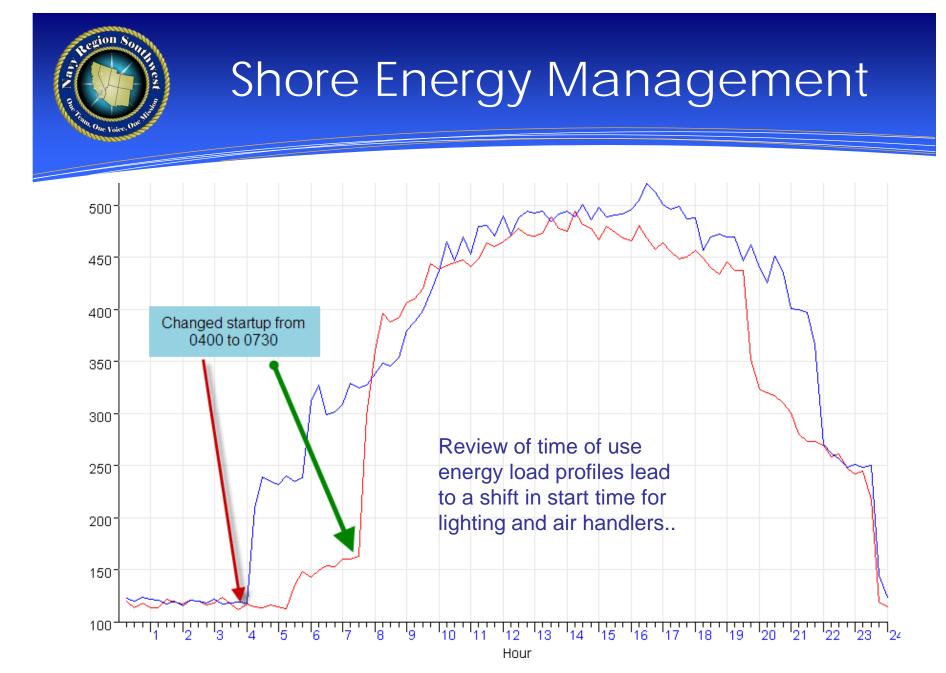




Warehouse Lighting/ Daylighting



\$33,000 annual cost reduced to \$5,000





Flight Simulator



Naval Base Coronado - Building 352

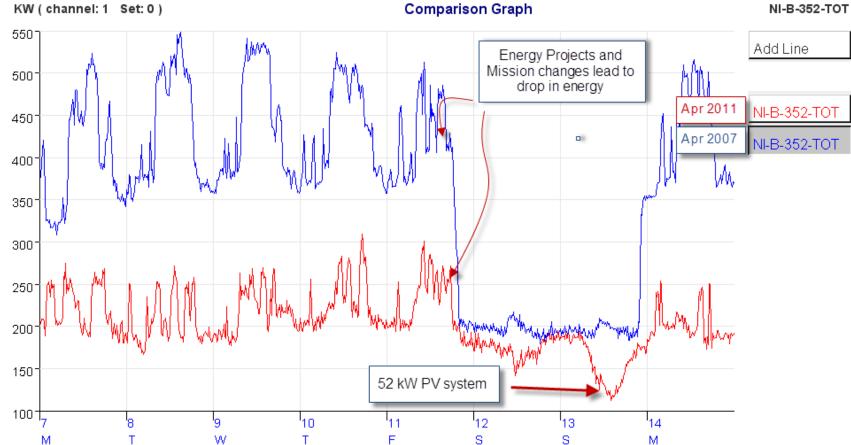


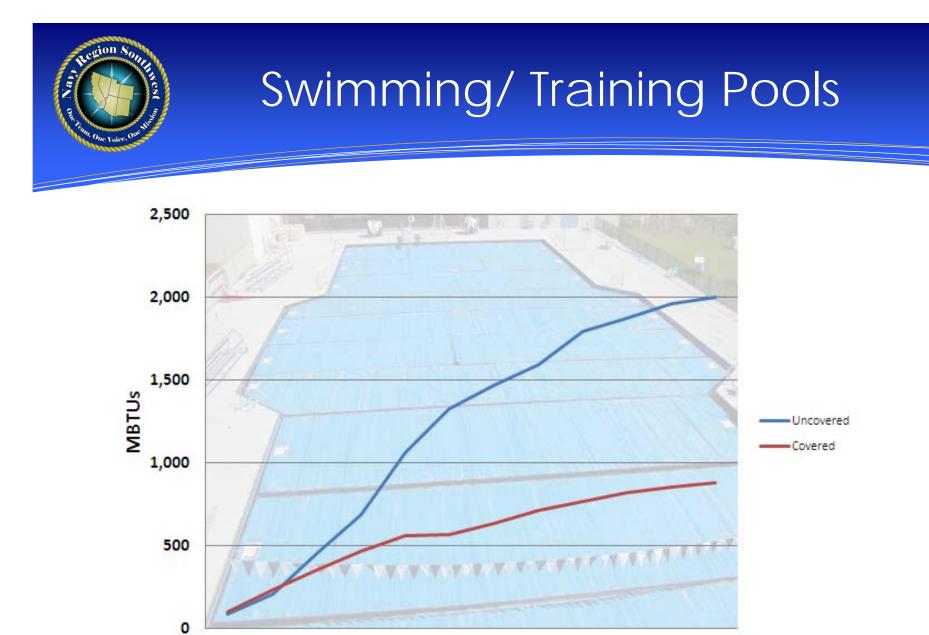
Helicopter Flight Simulator



Flight Simulator Building

KW (channel: 1 Set: 0)

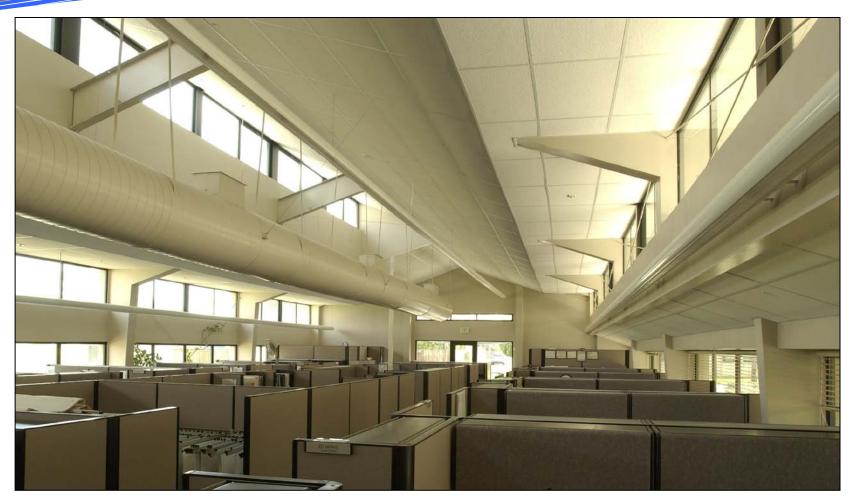




Oct Nov Dec Jan Feb Mar Apr May Jun Jul Aug Sep



Energy Efficient Buildings





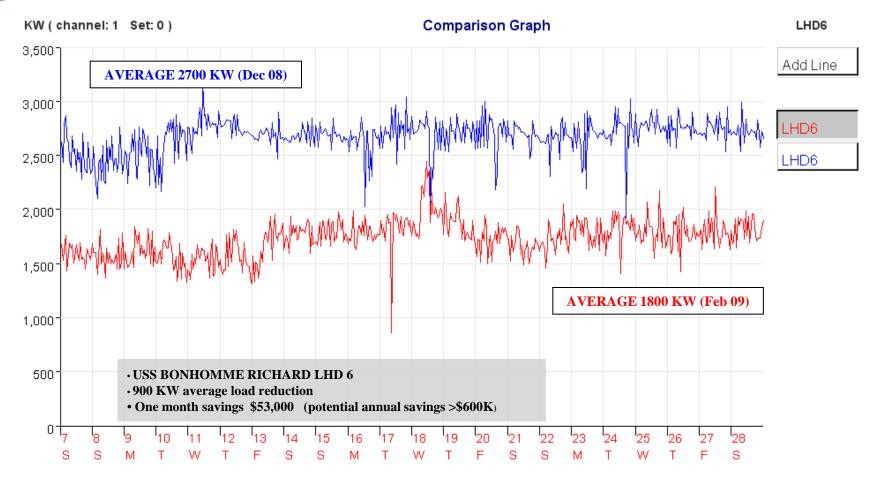
Shipboard Shore Energy Management







Shipboard Shore Energy Management





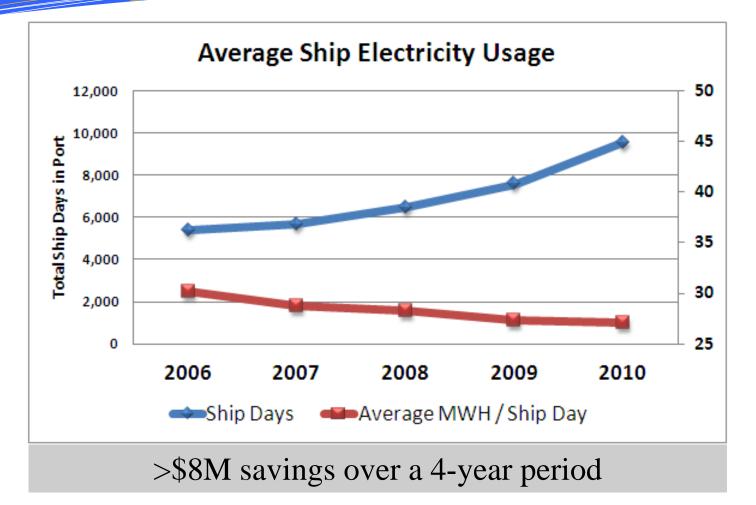
Shipboard Shore Energy Management FY10 Biggest Losers



<u>FY10 Most Efficient Cold Iron Ship</u> Cruiser CG - USS Antietam CG-54 Destroyer FLT I - USS John Paul Jones DDG-53 Destroyer FLTII - USS Stockdale DDG-106 Frigate - USS Rentz FFG-46 LHA/LHD - USS Boxer LHD-4 LPD WI Class - USS Dubuque LPD-8 LPD SA Class - USS New Orleans LPD-18 LSD - USS Comstock LSD-45 MCM - USS Devastator MCM-6



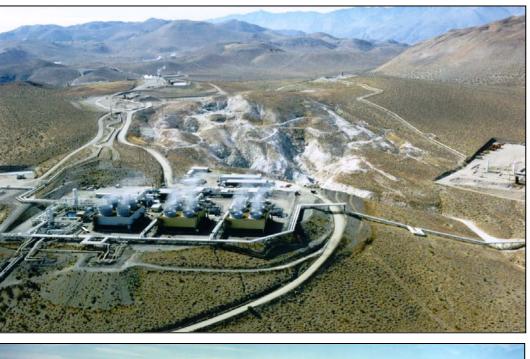
Ships Electricity Usage Trend





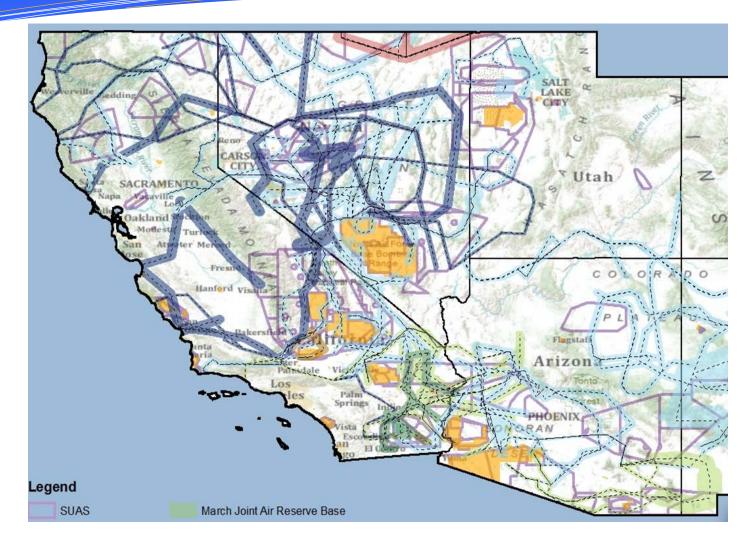
Renewable Energy

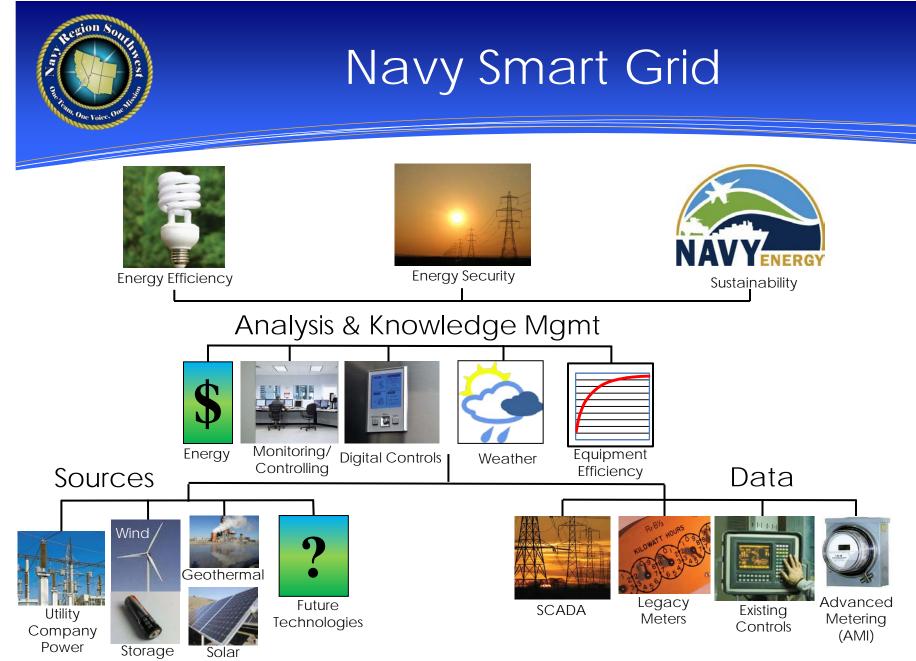






Mission Compatibility Assessment Tool (MCAT)







Enabling the Warfighter

