

ENVIRONMENTAL SUSTAINABILITY PROGRAM BRIEF - NAVY REGION MIDWEST

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Regional Environmental Director

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Roles and Responsibilities



Commander, Navy Region Midwest - RDML T. Payne

**REC – Regional Environmental Coordinator,
USEPA Regions 5 & 7**

Responsible for coordination of environmental compliance consistency, community relations, legal review, and regulatory interface

NOSC – Navy On-Scene Coordinator for 16 States

Responsible for planning, preparedness and incident coordination for Oil and Hazardous Substance releases

NAVFAC MW AREA OF RESPONSIBILITY (AOR)



- Naval Station Great Lakes, IL
- Naval Support Activity Crane, IN
- 19 Navy / Marine Corps Reserve Centers
- Naval Communications Facilities
- Navy Recruiting Stations

Navy / Marine Corps Facilities in Michigan



- **MCRC Battle Creek**
- **MCRC Grand Rapids**
- **NOSC and MCRC Saginaw**
- **NOSC Detroit and MCR Mt Clemens (ANG Selfridge)**
- **NOSC Grand Rapids (moving to Fort Custer Battle Creek)**
- **NOSC and Lansing (moving to Fort Custer Battle Creek)**

MCRC = MARINE CORPS RESERVE CENTER

NOSC = NAVY OPERATIONAL SUPPORT CENTER

Navy Region Midwest Initiatives



- **Enhance Environmental Management Systems**

- *ISO-14001 Conforming EMS in-place at all R5 Installations*
- *External Auditing Performed in 2011*
- *Completed Second Cycle of Objectives & Targets*
- *Significant Achievements in Targeted Areas*
 - ❑ *Increased Solid Waste Diversion from 23% to 49%*
 - ❑ *Reduced Energy use by 8%*

- **Improve Compliance**

- *Headquarters inspections of Installations Initiated in 2011*
- *Increased Focus on USEPA Priority Programs*

- **Mitigate Reduced Resources in FY-12 and Beyond**

- **Strengthen Community and Stakeholder Outreach**

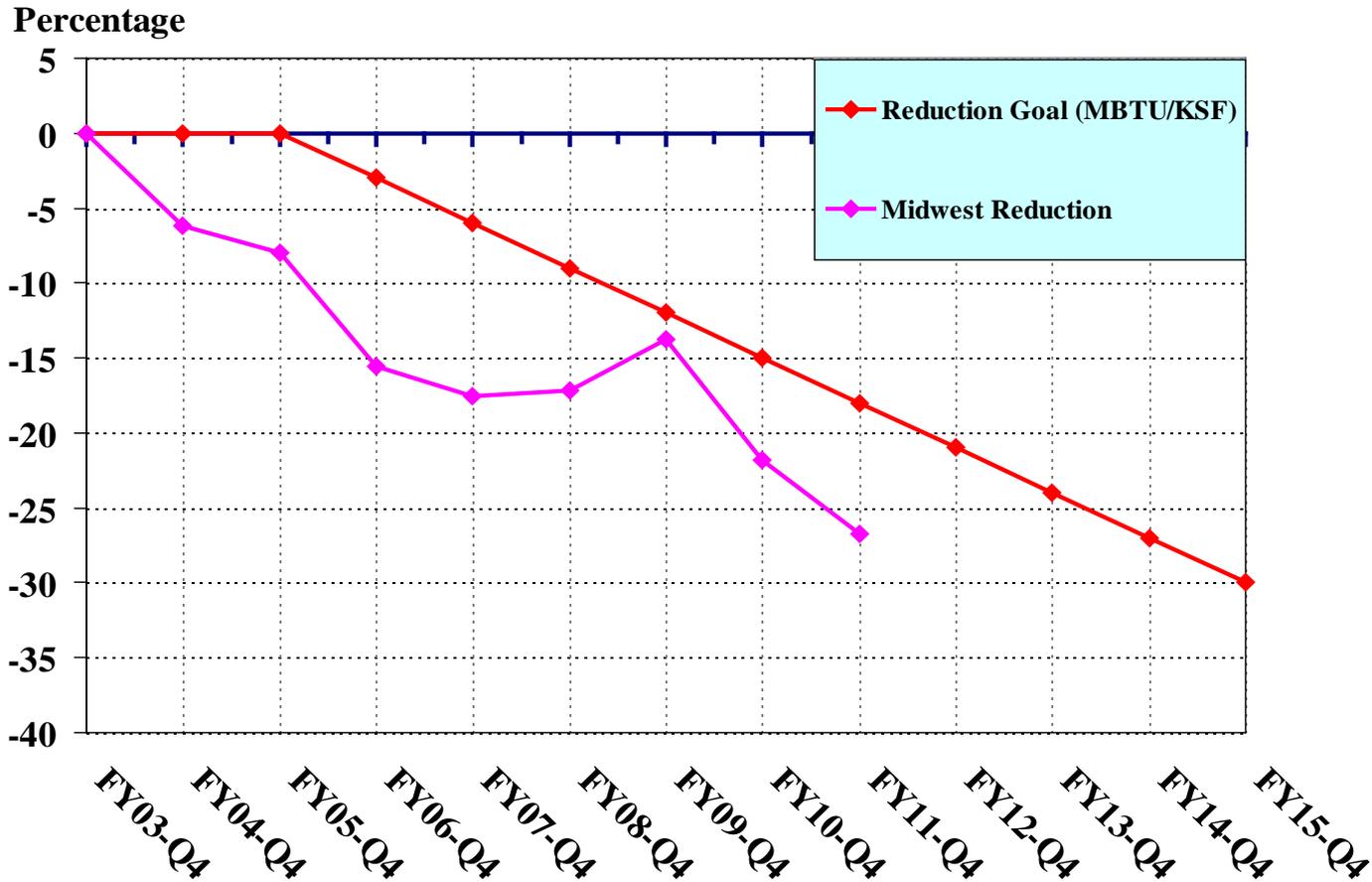
- **Support Energy Initiatives – Executive Order/Navy Goals**

Navy Green Fuels Program



- **Growing “Green Fleet” (Midwest Region):**
 - *927 E-85 and CNG Alternative Fueled Vehicles (40%)*
 - *48 Electric Vehicles*
 - *192 BD-20 Bio-Diesel medium and heavy duty trucks (95%)*
 - *All new purchases are AFVs, where available*
- **Rail Engines – operate on BD-20 (100%)**
 - *Retrofitting with 75% more efficient Gen-Set Engines*
- **Innovative Fuel Management System**
 - *Dictates use of Alternative Fuel in flex fueled vehicles*
- **45% of Total Fuels used are Alternative Fuels (E-85 and CNG)**
- **100% Ultra-Low Sulfur Fuels for turbine trainers / generators**

NAVFAC MW Energy Usage Reduction



•Source: Activity Energy Progress Reports - EAR16 posted on <https://navyenergy.navy.mil/index.htm>

Increase Affordability/Cost Reduction Reduce Energy Consumption



• History

➤ Great Lakes

- NSGL has invested over \$120M since 1997 in Energy Projects with a combined savings of \$14M/yr
- All financed projects (9 of 12 projects paid-off)
- Not included is Energy Efficient RTC Recapitalization project

➤ Crane

- ESPC and ECIP boiler improvement projects

➤ Mid-South

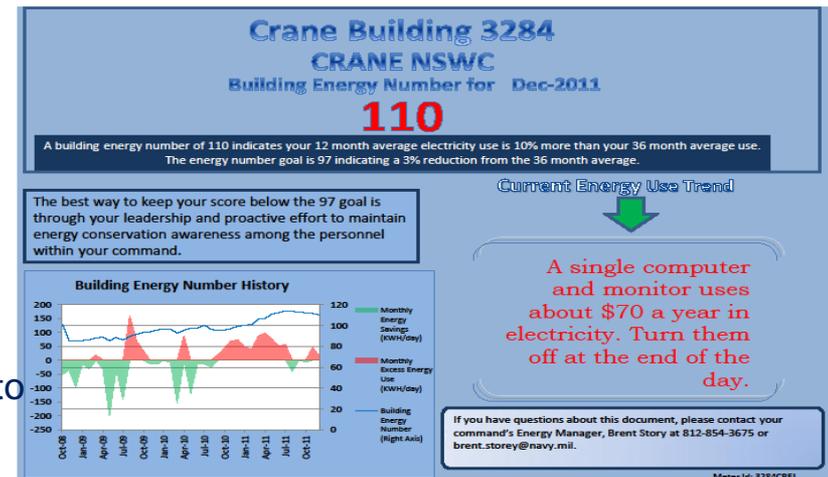
- \$13.2M boiler decentralization UESC completed in 2000 (paid-off)
- Water reduction initiatives (irrigation, etc.)
- TECHVAL (CO2 HVAC controls)

• Current

➤ Energy Audits – currently auditing 4.2M SF of facilities across AOR (Including NOSCs)

➤ Building Energy Number

- User level energy awareness program
- Provides weather adjusted energy use relative to historical use by building
- Creates a sense of competition to drive users to become energy conscious



•Midwest has a long history of proactive energy management and implementation of energy reduction initiatives

Atlantic Fleet Drill Hall, NAVSTA Great Lakes 1st LEED NC Gold Certification - 2009



- **More stringent LEED Rating System**
 - LEED NC version 2.2
- **Energy - ASHRAE 90.1-2004; ASHRAE 55**
- **Water - EPA Act 1992**



NAVFAC | Atlantic Fleet Drill Hall 1st LEED NC Gold Certification



- **Low Impact Development**
- **Alternative Transportation:**
- **60% of site as Open Space**
- **Mitigating Urban Heat Island at Roof and at Grade with materials with high SRIs**
- **Stormwater Runoff Reduction of 35%**
- **Removal of 81% of pollutant load from Storm Runoff**
- **Native Landscaping Supports Water Conservation by Reducing Irrigation Burden – Buffalo Grass used as Turf Alternative**



Oil and Hazardous Substance Spills

Clean Water Act, Oil Pollution Act of 1990



- **Regional Participation in Regional Response Teams (5 & 7) and USCG Area Committees**
- **Resources**
 - *Oil Spill Team to support 16 state region*
 - *Rapid Response Skimmer, Boom Handling Boat, 2 Utility Boats and 8,000 Feet of containment boom*
 - *BOA Contracts in place, NAVSEA SUPSALV Support*
- **Exercises**
 - *Participate in major exercises (SONS 07, Area Exercises in MO, IL, IN, OH, & MI)*
 - *Annual Response Exercises at NAVSTA Great Lakes (August)*

Navy Response in Gulf of Mexico



Near Shore Booming



Transportation & Boom Support



Near - Shore Skimming



Off - Shore Skimming - SUPSALV

Regional Installation Restoration Program



- **Installation Restoration Program – Investigation and Remediation of Legacy Waste**
- **137 Restoration Sites** **83% Complete**
 - *34 High Risk sites* *(32 Complete)*
 - *35 Medium Risk sites* *(24 Complete)*
 - *68 Low Risk sites* *(59 Complete)*
- **Metric: All Pre-FY10 IR Sites RIP/RC by FY14**
- **99% Completion Projection, 1 Site beyond FY14 (budget restraints)**
- **\$97M Cost-To-Complete, \$18M Programmed Through 2014**
- **\$5.3M Planned for FY12 (Continuing Resolution constrained)**
- **All Projects Complete in Michigan!**

Ship Building & Trials in Lake Michigan



- ❑ Littoral Combat Ship (USS Freedom Class) contract to build 10 ships at Marinette Shipyard, Marinette, WI
- ❑ Second LCS (USS Fort Worth) is 85% complete, planned delivery in 2012
- ❑ Two new ships named (USS Milwaukee and USS Detroit)



War of 1812 - 200th Year Anniversary



- ❑ Events being planned for Aug/Sep 2012
- ❑ Navy warship visits to Detroit and Windsor, and other Great Lakes ports
- ❑ Frigate (USS DE WERT) and two patrol craft

