DoD’s Strategic Sustainability Performance Plan:
Part of a Comprehensive Strategy to Address Mission Risks and Lower Costs

Shannon Cunniff
Director, Chemical & Material Risk Management Directorate
ODUSD (Installations & Environment)
Presentation at the E2S2 May 9, 2011
**Report Documentation Page**

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Standard Form 298 (Rev. 8-98)  Prescribed by ANSIStd Z39-18
Overview

- Why Sustainability
- DoD’s Sustainability Plan
- Considerations for Improving Your Sustainability
Global Context

- Greater market competition
- Shrinking budgets
- Global supply chains
- Access to raw materials
- Disposal/recycling equities
- Energy supplies
- Water supplies
- Climate change
Sustainability Executive Orders

- Executive Order 13514 represents a decisive move by the Obama Administration to instill sustainability into government operations

"As the largest consumer of energy in the U.S. economy, the Federal government can and should lead by example when it comes to creating innovative ways to reduce greenhouse gas emissions, increase energy efficiency, conserve water, reduce waste, and use environmentally - responsible products and technologies

Pres. Obama’s Remarks on EO 13514, 5 October 2009
Agency Requirements:
- Establish Sr. Sustainability Official
- Establish GHG emission reduction targets
- Prepare a Strategic Sustainability Performance Plan
- Annual Reports & OMB review

Why this one is different!
What is Sustainability to DoD?

- The ability to operate into the future without decline – either in the mission or in the natural and manufactured systems that support it.

- **Energy Security**
  - Growing risk to operating forces
  - Insecurity of the global commons
  - Grid vulnerability
  - Protect DoD from energy price fluctuations
Climate Change and DoD

- Reshaping the operating environment
- Potentially significant geopolitical impacts
Accelerant of Instability

- Disaster Assistance

- Food Security
- Water Supplies
DoD’s Strategic Sustainability Performance Plan: Key Priorities

- Continued Availability of Resources (energy & water issues)
- Maintaining Readiness in the Face of Climate Change (GHG emissions reduction and climate change adaptation)
- Minimize Waste & Pollution (chemicals & solid waste issues)
- Mgm’t Systems & Practices Built on Sustainability and Community
SSPP Objectives & Goals

OBJECTIVE 1
Continued Availability of Critical Resources
• Goal 1 – Use of Fossil Fuels Reduced
• Goal 2 – Water Resources Management Improved

OBJECTIVE 2
Maintaining Readiness in the Face of Climate Change
• Goal 3 – Scope 1 & Scope 2 GHG Emissions Reduced 34% by 2020, relative to FY08
• Goal 4 – Scope 3 GHGs reduced 13.5% by 2020, relative to FY08

OBJECTIVE 3
Minimize Waste and Pollution
• Goal 5 – Solid Waste Minimized and Optimally Managed
• Goal 6 – Chemicals of Environmental Concern Minimized

OBJECTIVE 4
Management and Practices Built on Sustainability & Community
• Goal 7 – Sustainability Practices Become the Norm
• Goal 8 – Sustainability Built into DoD Management Systems
OBJECTIVE 1
Continued Availability of Critical Resources

Goal 1 - Use of Fossil Fuels Reduced

- Energy Intensity by DoD Facilities Reduced by 30% of FY 2003 Levels by FY 2015 and 37.5% by FY 2020
- 18.3% of Energy Consumed by DoD Facilities is Produced or Procured from Renewable Sources by 2020
- Use of Petroleum Products by Vehicle Fleets Reduced 30% by 2020 Relative to 2005

Goal 2 – Water Resources Management Improved

- Potable Water Consumption Intensity by Facilities Reduced by 26% of FY 2007 Levels by FY 2020
- DoD Industrial and Irrigation Water Consumption Reduced by 20% of FY 2010 Levels by FY 2020
- All DoD Development and Redevelopment Projects of 5,000 Square Feet or Greater Maintain Pre-Development Hydrology to the Maximum Extent Technically Feasible
GHGs 101

Common Sources of Federal Greenhouse Gas Emissions

SCOPE 1:
- Greenhouse gas emissions from sources that are owned or controlled by a Federal agency.
  - Vehicles and Equipment
  - Stationary Sources
  - On-site Landfills & Wastewater Treatment
  - Fugitive Emissions

SCOPE 2:
- Greenhouse gas emissions resulting from the generation of electricity, heat, or steam purchased by a Federal agency.
  - Purchased Electricity
  - Purchased Heating/Cooling
  - Purchased Steam

SCOPE 3:
- Greenhouse gas emissions from sources not owned or directly controlled by a Federal agency but related to agency activities.
  - Transmission and Distribution Losses from Purchased Electricity
  - Business Travel
  - Employee Commuting
  - Contracted Solid Waste Disposal
  - Contracted Wastewater Treatment
  - Others
OBJECTIVE 2
DoD is a U.S. Government Leader in Reducing GHGs

Goal 3 - Scope 1 & Scope 2
Greenhouse Gas Emissions Reduced 34% by 2020, Relative to FY08

- Greenhouse Gas Emissions from Employee Air Travel Reduced 15% by FY 2020 Relative to FY 2011
- 30% of Eligible Employees Teleworking at Least Once a Week, on a Regular, Recurring Basis, by 2020
- 50% of Non-Hazardous Solid Waste Diverted from Disposal in Landfills Not Owned by DoD by 2015 and Thereafter Through 2020

Goal 4 - Scope 3 GHGs
Reduced 13.5% by 2020, Relative to FY08
OBJECTIVE 3
Minimize Waste and Pollution

• All DoD Organizations Implementing Policies by FY 2014 to Reduce the Use of Printing Paper
• 50% of Non-Hazardous Solid Waste Diverted from the Waste Stream by 2015 and Thereafter Through 2020
• 60% of Construction and Demolition Debris Diverted from the Waste Stream by 2015, and Thereafter Through 2020
• Landfills Recovering Landfill Gas for Use by DoD: Two by FY 2012 and Ten by 2020

• 15% Reduction of On-Site Releases and Off-Site Transfers of Toxic Chemicals by 2020, Relative to 2007
• 100% of DoD Excess or Surplus Electronic Products Disposed of in Environmentally Sound Manner
• 100% of DoD Personnel and Contractors that Apply Pesticides Properly Certified Through 2020

Goal 5 – Solid Waste Minimized and Optimally Managed

Goal 6 – Chemicals of Environmental Concern Minimized
FY 10 Version of OBJECTIVE 4
Management and Practices Built on Sustainability & Community

Goal 7 – Sustainability Practices Become the Norm

- 95% of Procurement Conducted Sustainably
- 15% of Existing DoD Buildings Conform to the Guiding Principles on High Performance and Sustainable Buildings By FY 2015, Holding Through 2020

Goal 8 – Sustainability Built into DoD Management Systems

- All Environmental Management Systems Effectively Implemented and Maintained
- The Sustainability of Transportation and Energy Choices in Surrounding Areas Optimized by Coordinating with Related Regional and Local Planning
- All DoD Installations Have Integrated Pest Management Plans Prepared, Reviewed, and Updated Annually by Pest Management Professionals
SSPP Reporting

- SSPP reporting includes all Military Services and Defense Agencies
  - Department of the Army
  - Department of the Air Force
  - Department of the Navy (includes Marine Corps)
  - Defense Contract Management Agency (DCMA)
  - Defense Commissary Agency (DeCA)
  - Defense Finance and Accounting Service (DFAS)
  - Defense Intelligence Agency (DIA)
  - Defense Logistics Agency (DLA)
  - Missile Defense Agency (MDA)
  - National Geospatial-Intelligence Agency (NGA)
  - National Security Agency (NSA)
  - TRICARE Management Activity (TMA)
  - Washington Headquarters Services (WHS)

- Agency has a submitted Implementation Plan (as of 4/22/11)
Reporting to OMB

- Semi-annual reporting on goals
  - OMB Scorecards (January /June)
  - FY10 SSPP (approved by OMB 8/10)
  - FY11 SSPP (formal coordination occurring soon, due to OMB from OSD on 6/6/11)

- Progress reported on DoD-wide basis
  - Except energy reporting -- 3 Mil Depts broken out

- Using existing systems for data collection wherever possible
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<td>Scope 3 GHG Emission Reduction Target</td>
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<td>Reduction in Energy Intensity</td>
<td>Reduction in energy intensity in goal-subject facilities compared with 2003: 11.2% and not on track</td>
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<td>Use of Renewable Energy</td>
<td>Use of renewable energy as a percent of facility electricity use: 11.3% from any renewable source (including thermal)</td>
<td>YELLOW</td>
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<td>Reduction in Potable Water Intensity</td>
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<td>Reduction in Fleet Petroleum Use</td>
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<td>Green Buildings</td>
<td>Sustainable green buildings: 0.06% of buildings sustainable 0.46% GSF of inventory sustainable</td>
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FY 2011 SSPP
Covers FY 10 Progress

- Due June 6
- OMB Reviews
- Final Released (Aug – Sept??)
  - Will be first report on progress on all metrics
  - Will include OMB Scorecard on progress
  - Will include DoD climate change adaptation policy
SSPP Governance Structure

Senior Sustainability Officer
USD(AT&L)

Senior Sustainability Council

Core Sustainability Integration Working Group

Committee
Committee
Committee
Committee

Non-tactical Fleet
Facilities Infrastructure
DoD Energy
Green Procurement
Chemical Mgmt
Planning & Realizing Sustainability Gains

- Actions that provide direct mission benefits
- High return on investment
  - Look for activities that contribute to more than one goal (energy, water, green procurement, recycling)
- Change behaviors
  - 100s of individual practices add up
  - Life cycle thinking in decision making
  - Purchase safer, greener products
- Seek gains in process efficiency
- Adopt - Adapt - Spread
  - Experts/Tiger teams
  - Make successes go viral.....
http://www.denix.osd.mil/sustainability
Key Take Aways

- Sustainability supports the mission
- Sustainability should lower costs
- Sustainability performance is measurable
  - Once measured, it can be managed

Contact: Dave Asiello, OUSD(I&E)
Sustainability Implementation Working Group
david.asiello@osd.mil