

DoD Solid Waste Diversion

Environment, Energy Security & Sustainability
Symposium & Exhibition

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(Installations & Environment)

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Outline

OSD Policy & Program

Accountability

Issues/Challenges

Future Direction

Solid Waste & Recycling Policy

- I. 10 USC Section 2577
 - establishment of qualified recycling program
- II. 32 CFR 172
 - process for disposal of proceeds from sales of DoD surplus personal property
- III. DoD Instruction 4715.4, “Pollution Prevention,” June 18, 1996
 - A. Established environmental hierarchy for managing wastes
 - B. Required establishment of cost-effective waste prevention and recycling programs to reduce non-hazardous solid waste

Solid Waste & Recycling Policy

- C. Defines “Recyclable Materials” to include paper, newspaper, cardboard, plastic, metal cans, glass, used oil, batteries, and tires.
- D. Defined “Excluded Materials” from recycling to include precious metals, hazardous waste, fuels, material required to be demilitarized or mutilated, scrap from demilitarization, Munitions List items, and Commerce Control items.

Solid Waste & Recycling Policy

- IV. Integrated Solid Waste Management (ISWM)
DUSD(I&E) policy memorandum dated
February 1, 2008
 - A. Based on data successful DoD recycling programs
 - B. Supported Executive Order 13423, “Strengthening Federal Environmental, Energy, and Transportation Management,” January 24, 2007
 - C. Establish solid waste diversion goals for 2010
 - D. Defined ISWM as:
 - A comprehensive approach to managing non-hazardous solid waste that encompasses waste prevention, recycling, composting, and disposal programs.*

Solid Waste & Recycling Policy

E. Re-established hierarchy for eliminating waste

Source reduction



Reuse



Donation



Recycling



Composting/Mulching



Incineration or Volume reductions with energy recovery



Other forms of volume reduction



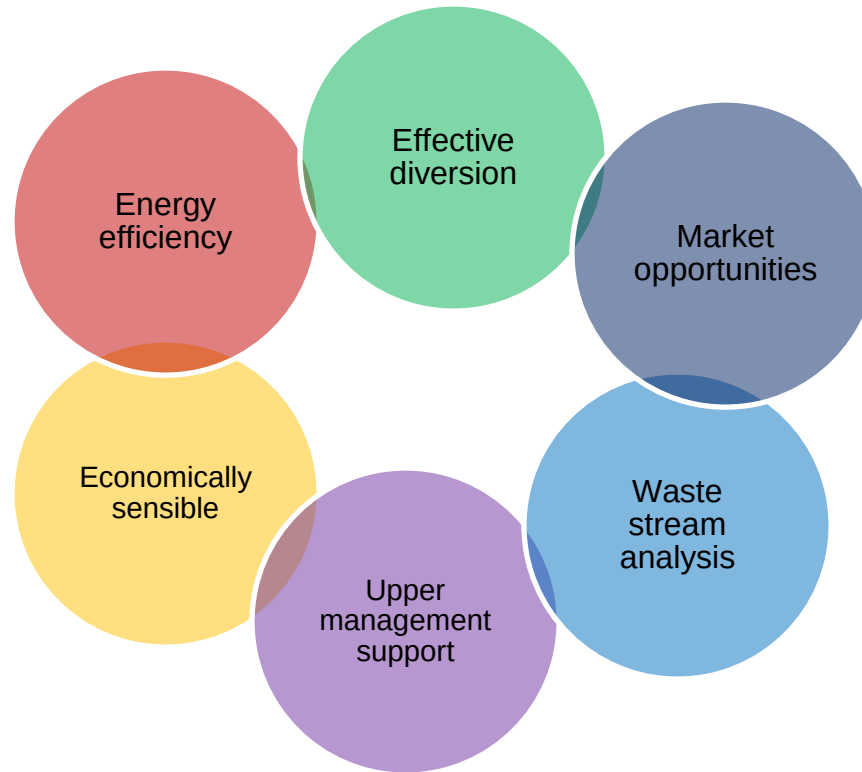
Landfilling

 **Diversion**



Integrated Solid Waste Management (ISWM)

What does ISWM mean?



Solid Waste & Recycling Policy

- V. EO 13514, “Federal Leadership in Environmental, Energy, and Economic Performance,” October 9, 2009
 - A. Promote Pollution Prevention and eliminate waste by:
 - 1. Source reduction
 - 2. Diverting non-hazardous solid waste
 - 3. Diverting C&D material and debris
 - 4. Increase diversion of compostable and organic material from waste stream

Solid Waste & Recycling Policy

B. Other areas

1. Reduce energy and water use
2. Reduce greenhouse gases
3. Increase sustainable energy
4. Increase acquisition of sustainable goods
5. Improve electronics stewardship

C. Develop a DoD Strategic Sustainability Performance Plan (SSPP)

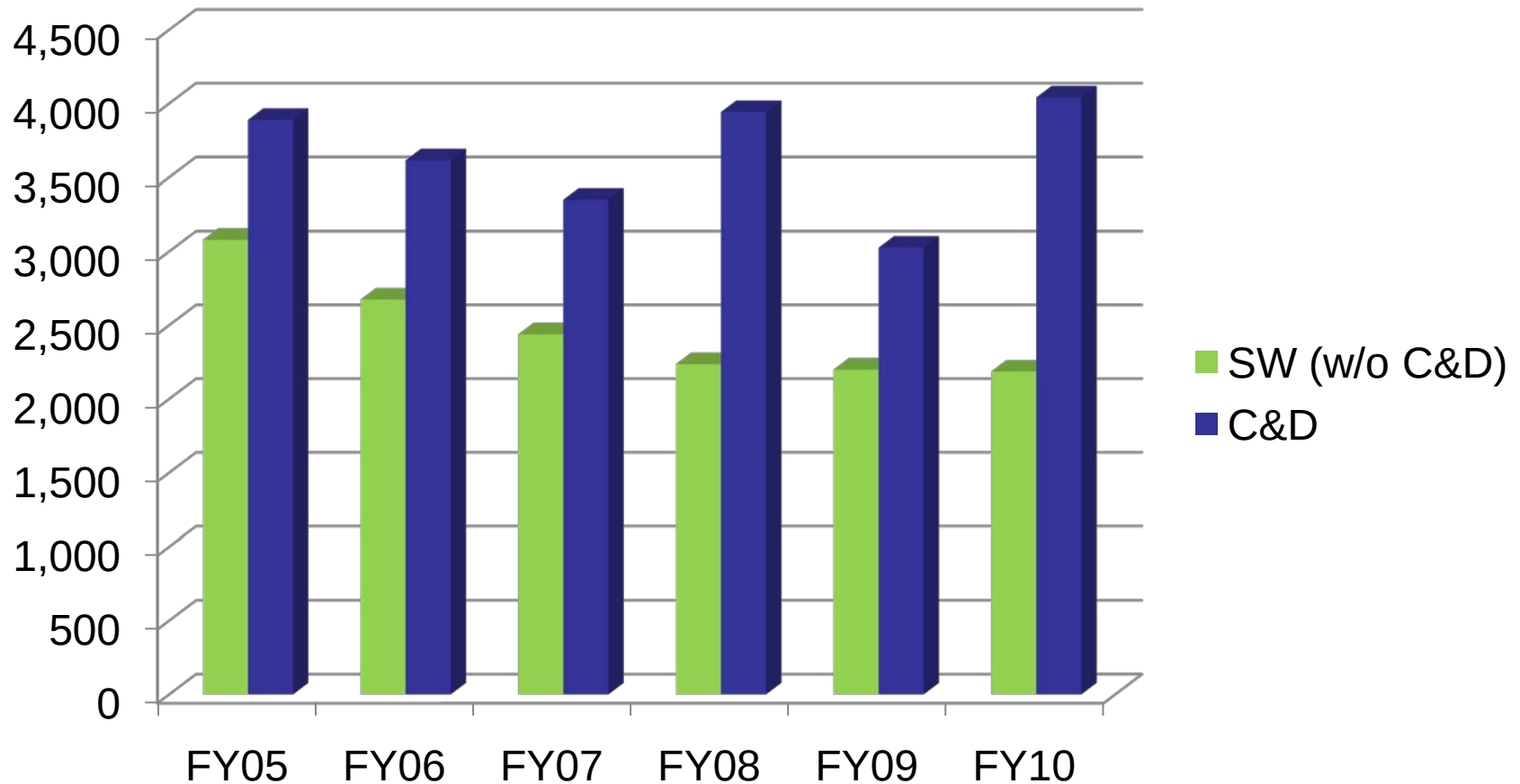
Accountability

- I. Solid Waste Diversion Metrics Progression
 - A. ADUSD(ESOH) Memo dated 10/12/04
 - 1. Per capita generation non-hazardous solid waste
 - 2. Diversion rate of non-hazardous solid waste with and without construction & demolition (C&D) debris
 - 3. Economic benefit
 - 4. Goal – continuous improvement
 - B. 2008 DoD Integrated Solid Waste Management Policy – established 2010 diversion goals
 - 1. 40% for non-hazardous solid waste
 - 2. 50% for C&D debris

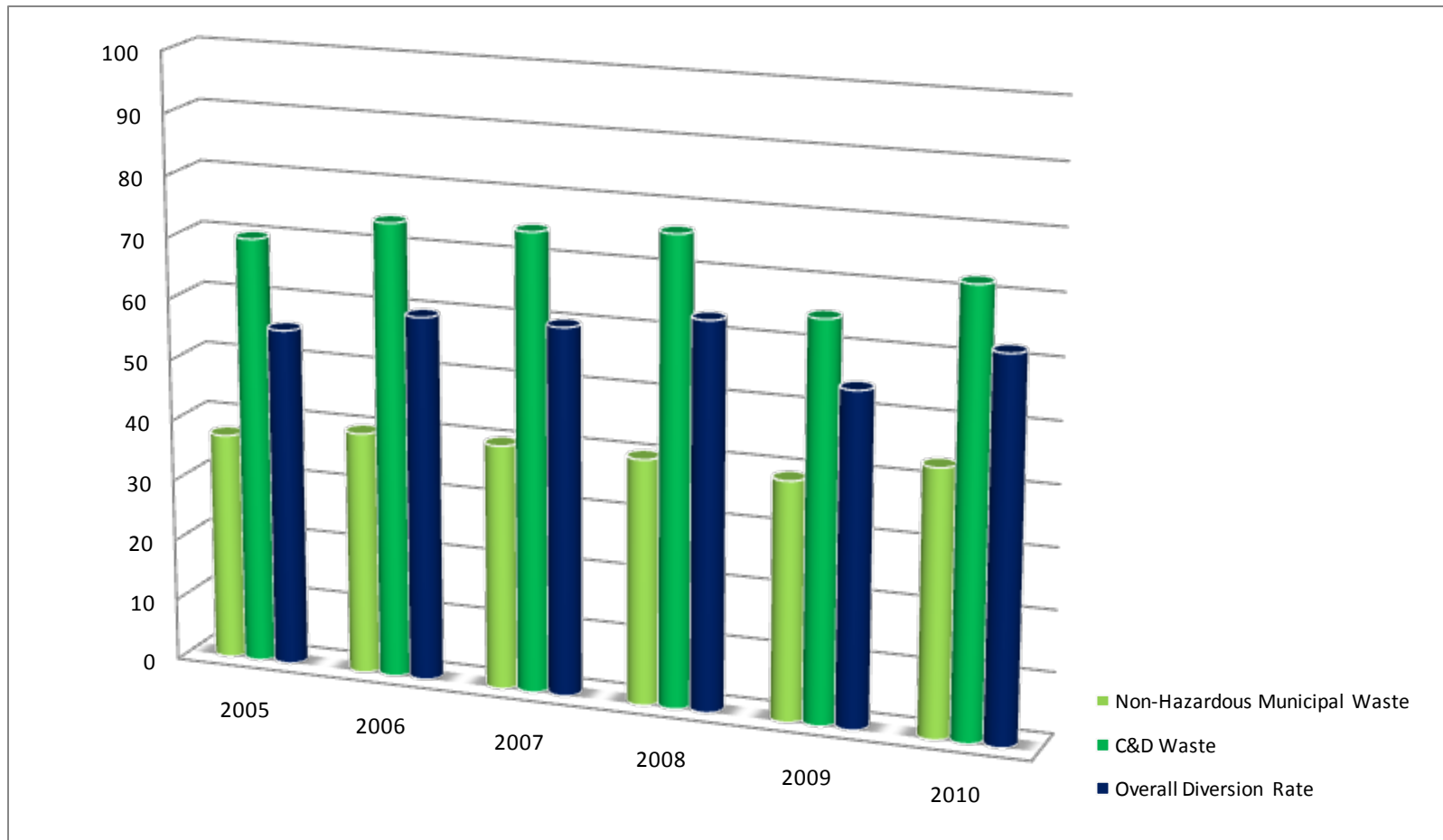
Accountability

- C. Annual Reporting in DoD SSPP (per EO 13514) - diversion goals for 2015
 - 1. 50% non-hazardous solid waste and
 - 2. 60% for C&D debris
- D. Other Reporting Requirements
 - 1. **OSD Environmental Management Reviews** – metrics and other hot issues
 - 2. **Annual Report to Congress** on Defense Environmental Programs
 - 3. **RCRA 6002 biennial report to Congress** – Federal agency compliance with recycled content and bio-based procurement requirements

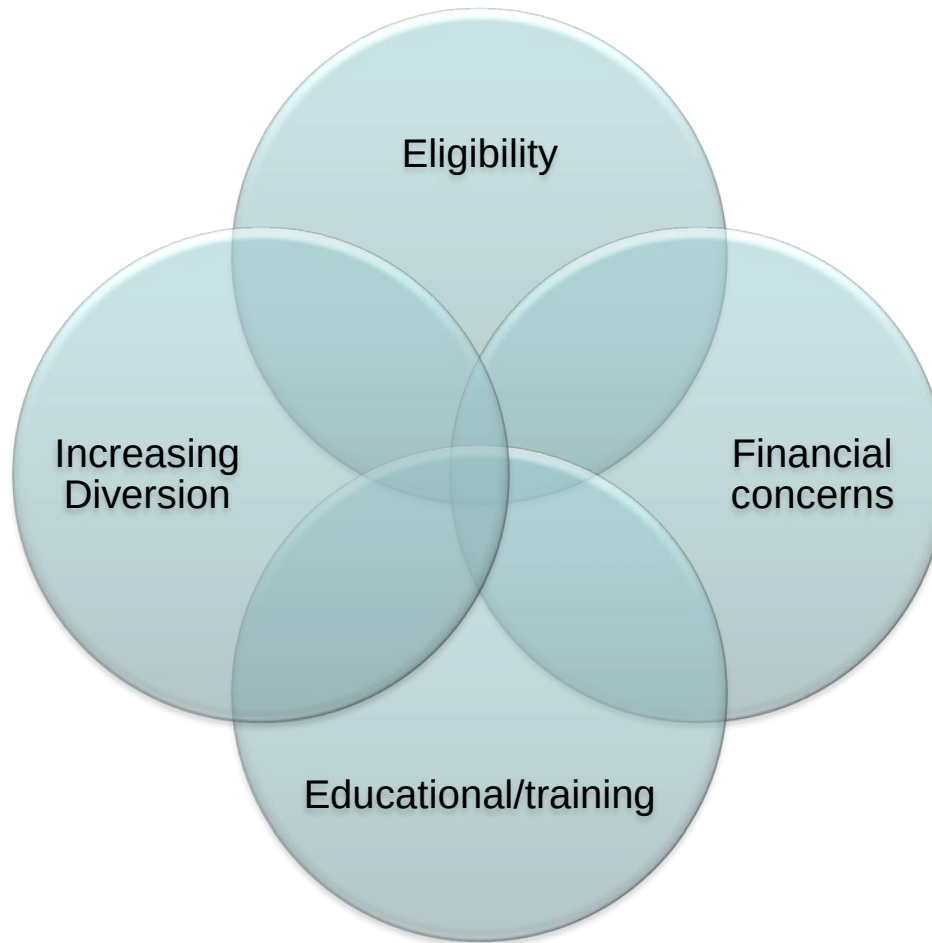
DoD Solid Waste Generated (K Tons)



DoD Solid Waste Diversion Rate (%)



Issues/Challenges



Future Direction

I. Implement DoD's SSPP

- A. Build stronger requirements for recycling and composting
- B. Report increased diversion rates

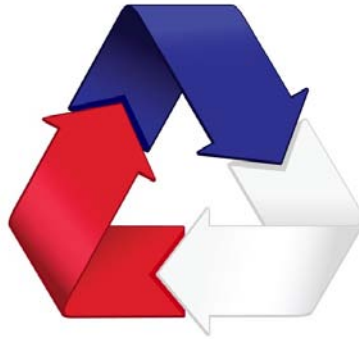
II. Develop new DoD Instruction

- A. Consolidate various policies
- B. Compliance with Federal, State, and local recycling requirements
- C. Require ISWM approach with involvement of base commander and facilities manager

Future Direction

- III. Improve qualified recycling program management accountability
 - A. Training program and opportunities
 - B. Inspection and audits
 - C. Development of Solid Waste Diversion list
- IV. Develop guidance on sale of small arms ammunition per Section 346 of the FY11 National Defense Authorization Act

Questions ?



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