

Protecting America's Environment TODAY



Over the past 10 years, the Department of Defense (DoD) has invested approximately \$42 billion to ensure the success of its environmental programs. In FY2012, DoD obligated approximately \$4.1 billion for its environmental programs – \$2.0 billion for environmental restoration activities; \$1.9 billion for environmental quality activities; and \$213.6 million for environmental technology. These investments protect and sustain the environment while strengthening our operational capacity, reducing our operational costs, and enhancing the well-being of our military members, civilians, and their families and communities.

Compliance

Clean water and clean air are essential to the health and well-being of our communities and ecosystems. DoD management practices reduce discharged pollutants, provide safe drinking water, and protect watersheds. DoD uses commercially-proven solutions to achieve compliance and minimize waste disposal, and promote the development and use of innovative solutions.

- ✓ Invested \$1.4 billion in FY2012
- ✓ Provided safe drinking water to over 2.4 million people served by DoD public water systems
- ✓ Achieved 95% compliance for waste/stormwater control permits
- ✓ Decreased hazardous air pollutant emissions 1.7% between calendar years 2007 and 2011
- ✓ In FY2012, diverted 4.7 million tons or 66% of solid waste from landfills, avoiding approximately \$4 million in costs

Natural and Cultural Resources

DoD manages about 28 million acres of land across the U.S. These lands harbor significant resources, including over 75 species found only on DoD lands, at least eight of which are federally-listed species, and the nation's largest inventory of federally-owned or managed historic properties. DoD provides realistic habitat conditions and uses its historic properties to support the mission, while ensuring the sustainability and stewardship of its natural and cultural heritage. We provided approximately \$4.6 million in FY2012 to support 51 natural and cultural resources projects under the Legacy Resource Management Program.

- ✓ Invested \$387.7 million in FY2012
- ✓ Provided \$10.9 million directly to American Indian and Alaska Natives to mitigate environmental impacts
- ✓ Evaluated approximately 109,000 historic properties (historic buildings, structures, and districts) under the National Register of Historic Places criteria to determine historic significance
- ✓ Managed 72 designated National Historic Landmarks and over 123,000 known archaeological sites
- ✓ Protected over 440 threatened and endangered species and more than 520 species at risk of being listed

Stakeholder Involvement

DoD is a leader in implementing the President's principles of open government through transparency, participation, and collaboration. DoD reports its activities online on DENIX;

invites members of the public to share ideas and expertise; and partners with state, tribal, local, and federal stakeholders. DoD has 10 Regional Environmental Coordinators who help work with stakeholders across the U.S.

- ✓ Invested \$3.9 million for 246 Restoration Advisory Boards (RABs) on 279 DoD installations and properties in FY2012
- ✓ Provided \$139,000 in Technical Assistance for Public Participation (TAPP) funds for cleanup in FY2012
- ✓ Conducted more than 2,200 separate consultations with over 400 federally-recognized tribes regarding pending actions or proposed projects in FY2012
- ✓ Entered into 22 cooperative agreements with tribal governments

Restoration

The Restoration Program addresses hazardous substances, pollutants, and contaminants, and military munitions remaining from military operations at active installations, Base Realignment and Closure (BRAC) locations, and Formerly Used Defense

Sites (FUDS). We have invested approximately \$46 billion over the life of the program and have initiated or completed cleanup at over 36,660 sites. DoD has a goal to complete cleanup at 95% of hazardous waste and munitions sites at active installations and BRAC locations, and hazardous waste sites at FUDS properties, by FY2021.

- ✓ Invested \$2.0 billion in FY2012
- ✓ Active Installations: Completed cleanup at 76% of 25,256 hazardous waste and munitions sites by the end of FY2012
- ✓ BRAC locations: Completed cleanup at 83% of 8,625 hazardous waste and munitions sites by the end of FY2012
- ✓ FUDS Properties: Completed cleanup at 75% of 2,983 hazardous waste sites by the end of FY2012



Protecting America's Environment TOMORROW



"In order to create a clean energy economy that will increase our Nation's prosperity, promote energy security, protect the interests of taxpayers, and safeguard the health of our environment, the Federal Government must lead by example."

—President Barack Obama, Executive Order 13514

Sustainable Infrastructure

As budgets decline, the Department is ensuring every infrastructure investment it makes results in the most efficient sustainable facility possible. The Department's real property portfolio contains approximately 500,000 buildings and structures with a replacement value over \$641 billion. DoD is committed to transforming that portfolio to reduce operating costs and improve environmental stewardship by following the guiding principles for federal leadership in High Performance Sustainable Buildings. To reinforce this commitment, the Department published its Sustainable Buildings Policy in FY2011 to help reduce costs, enhance mission effectiveness, and conform to the guiding principles. Executive Order 13514 requires that 15% of buildings over 5,000 square feet meet the guiding principles by 2015. DoD has over 56,000 buildings meeting that criteria. In FY 2012, the Department completed a new building code (i.e., Unified Facilities Criteria) that set minimum standards for all new construction, major renovation, and system retrofits. The new standards will ensure compliance with all federal requirements including the Guidelines Principles.

"The Department of Defense is committed to be more efficient and environmentally sustainable. To achieve this objective, the Department has made a commitment to continuous improvement, pursuit of greater efficiency, and adoption of new technologies."

—Mr. John Conger, Acting Deputy Under Secretary of Defense (Installations & Environment)

Greenhouse Gas Reductions and Energy Efficiency

Under Executive Order 13514, the Department has a goal of reducing Greenhouse Gas (GHG) emissions from DoD-controlled non-operational activities by 34% and by 13.5% for non-DoD-controlled non-operational activities by 2020. Since the goal was set in FY2008, the Department has improved energy efficiencies at its facilities, reduced non-tactical vehicle fossil fuel use, and increased its use of renewable energy. The Department also is implementing sustainable management practices in its procurement processes, environmental management systems, and building maintenance and construction. As a result of these actions, the Department has cut its GHG emissions from 34.5 million metric tons of carbon dioxide equivalent (MMTCO_{2e}) overall emissions in FY 2008 to 32.0 MMTCO_{2e} in FY 2012.

Green Remediation

"Green Remediation allows us to safely clean up our bases while we work with communities to provide a cleaner tomorrow for both."

—Mr. John Conger, Acting Deputy Under Secretary of Defense (Installations & Environment)

Green remediation uses strategies that consider all environmental effects of remedy implementation and incorporates options to maximize the overall environmental benefit of cleanup actions. The Department employs strategies that use natural resources and energy efficiently, reduce negative impacts on the environment, minimize or eliminate pollution at its source, protect and benefit the community at large, and reduce waste to the greatest extent possible. Through employing green remediation strategies at many of its sites, DoD has increased the net environmental and economic benefit of cleanup and decreased project costs and timeframes while continuing to meet aggressive cleanup goals.

Armed Forces Pest Management Board

"We are protecting the warfighter now and in the future by conducting cutting-edge research today on safer, more effective pesticides, repellents, and equipment."

—Ms. Maureen Sullivan, Director, Environment, Safety, and Occupational Health Office of the Deputy Under Secretary of Defense (Installations & Environment)

The Armed Forces Pest Management Board (AFPMB) directly supports our Warfighters against insect-borne diseases and threats from venomous animals. The AFPMB is a world leader in medical entomology and pest management, collaborating with such agencies as the U.S. Department of Agriculture, U.S. Environmental Protection Agency, Centers for Disease Control and Prevention, and the World Health Organization. The AFPMB Website averages over 10,000 inquiries per month from people in over 140 countries. The AFPMB administers the Deployed Warfighter Protection research program, an annual \$5 million effort to find better ways to control disease-carrying insects and protect deployed personnel. Visit <http://www.afpmb.org> for more information.

