

# 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 FY2010, DoD invested approximately \$4.2 billion in natural and cultural resource conservation, environmental compliance, pollution prevention, and environmental cleanup, and another \$237 million in 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. We use commercially-proven solutions to achieve compliance and minimize waste disposal, and we promote the development and use of innovative solutions.

- ✓ Investing \$1.6 billion in FY2010
- ✓ Provided safe drinking water to over 3.3 million people served by DoD public water systems
- ✓ Achieved 94% compliance for waste/stormwater control permits
- ✓ Decreased hazardous air pollutant emissions 27%
- ✓ Diverted 2.8 million tons or 55% of solid waste from landfills, avoiding approximately \$163 million in costs

## 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. We have 10 Regional Environmental Coordinators who help us work with stakeholders across the United States.

- ✓ Invested \$3.0 million for 191 Restoration Advisory Boards (RABs) on 218 DoD installations in FY2009
- ✓ Provided \$93,974 in Technical Assistance for Public Participation (TAPP) funds for cleanup in FY2009
- ✓ Ratified a new charter for the Defense State Memorandum of Agreement (DSMOA) Steering Committee in FY2009
- ✓ Entered into 23 cooperative agreements with tribal governments

## Natural and Cultural Resources

DoD manages nearly 29 million acres of land across the United States. These lands harbor significant resources, including 40 species found only on DoD lands 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 \$7.1 million in FY2009 to support 72 natural and cultural resources projects under the Legacy Resource Management Program.

- ✓ Investing \$322 million in FY2010
- ✓ Provided \$10.9 million directly to American Indian and Alaska Natives to mitigate environmental impacts
- ✓ Manages 21,653 historic properties, including 73 National Historic Landmarks, and nearly 160,000 archaeological sites
- ✓ Protects 420 federally-listed species and 523 species at-risk

## Restoration

The Restoration Program addresses hazardous substances, pollutants or contaminants, and military munitions remaining from past military operations at active installations, Base Realignment and Closure (BRAC) installations, and Formerly Used Defense Sites (FUDS). We have invested approximately \$40 billion over the life of the program and have initiated or completed cleanup at over 31,500 sites.

- ✓ Investing \$2.2 billion in FY2010
- ✓ Active Installations: Completed cleanup at 78% of 21,333 hazardous waste sites by the end of FY2009
- ✓ BRAC Installations: Completed cleanup at 79% of 5,126 hazardous waste sites by the end of FY2009
- ✓ FUDS Properties: Completed cleanup at 70% of 2,879 hazardous waste sites by the end of FY2009



# 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

*"New construction must meet LEED Silver standards and/or the five principles of High Performance Sustainable Buildings."*

—Dr. Dorothy Robyn, Deputy Under Secretary of Defense (Installations & Environment)

The Department is investing more to improve the energy and environmental profile of its existing and new infrastructure. The Department's real property portfolio contains approximately 491,094 buildings and structures with a replacement value over \$641 billion. To protect these assets and support its mission, DoD is committed to following the guiding principles for federal leadership in High Performance Sustainable Buildings. As a result, for recent renovations of the Pentagon, a 6.6 million square



Pentagon LEED projects have recycled over 56,942 tons of construction and demolition debris and conserved over 17.8 million gallons of water.

foot National Historic Landmark, DoD received one Leadership in Energy and Environmental Design (LEED) Silver Certified Facility award and five LEED Certified Facility awards.

## Green House Gas Reductions and Energy Efficiency

*"... it is time for us to adapt our approach to installation energy management from one that is primarily focused on compliance to one that is focused on long-term cost avoidance and mission assurance."*

—Dr. Dorothy Robyn, Deputy Under Secretary of Defense (Installations & Environment)

The Department recently announced that, under Executive Order 13514, it will reduce green house gas (GHG) emissions from non-combat activities—largely installations and non-tactical vehicles—by 34 percent by 2020. GHG pollution is due overwhelmingly to direct energy use, and the Department's aggressive GHG target will require energy efficiency at all levels.

## 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, Assistant Deputy Under Secretary of Defense (Installations & Environment)

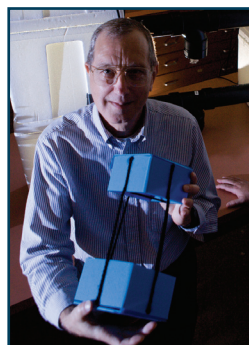
Green remediation uses strategies that consider all environmental effects of remedy implementation and incorporates options to maximize the overall environmental benefit of cleanup actions. The Department uses strategies that use natural resources and energy efficiently, reduce negative impacts on the environment, minimize or eliminate pollution at its source, protect and benefit the community at large, and reduce waste to the greatest extent possible.

## 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 of Environmental Management Office of the Deputy Under Secretary of Defense (Installations & Environment)

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



Pest Management Board research has led to new products, including a collapsible flycatcher that every Medic can tuck in their pocket and carry into combat.

