

Fort George G. Meade Green Meade Plan 2010

Purpose and Scope

This document describes the Installation Commander's vision to reduce the Installation's environmental footprint that will include all services, programs and infrastructure. The Commander's goal is to create and implement a culture of sustainability that will meet the current and future challenges of reduced resources faced by Commanders, Soldiers, Families and Civilians.

Fort Meade will create an enduring culture of stewardship of the land and natural resources entrusted to our care, of the buildings and infrastructure that support our missions, and of the equipment and materials purchased to implement our programs. This plan will support higher headquarters' efforts on development and implementation of Strategic Sustainability Performance Plans required by Executive Order (E.O.) 13514 (Federal Leadership in Environmental, Energy and Economic Performance, signed on October 5, 2009).

In addition, this plan supports Fort Meade's dedicated commitment to meeting sustainability goals and objectives identified in the IMCOM Campaign Plan and Annex A regarding the procurement of products and services that minimize environmental impacts (i.e. Green Procurement). This means the identification and utilization of environmentally beneficial alternatives to products and services acquired through new and existing procurement processes and sources of supply (e.g. credit card purchases, contracts, purchase orders, etc.) and other means.

Commander's Intent

As one of the largest workforces in Maryland, Fort Meade is committed to the goals and objectives set forth in the Installation's Environmental Management System, E.O. 13514, E.O. 13423 (Strengthening Federal Environmental, Energy and Transportation Management, signed January 24, 2007), and the IMCOM Campaign Plan. The following two statements on sustainability and stewardship are taken verbatim from the Installation Management Campaign Plan and form the backbone of the Green Meade Plan.

“Sustainability - We will operate in a manner that ensures we perform both today's and tomorrow's missions to standard. We will manage resources, conserve and secure energy, operate, and build future capabilities to achieve the Army's Triple Bottom Line of Mission, Community and Environment. We will integrate the application of sustainability principles into daily operations in much the same way that safety has become an integral part of day-to-day activities. It is essential that we assume a “sustainability mindset” in all aspects of our operations.”

“Stewardship - We will be good stewards of the resources entrusted to us. Effective stewardship balances our need to train and maintain a high state of readiness and quality of life with its mandate to be responsible members of the communities with

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which we co-reside. We share both an environment of declining resources and the responsibility to consume fewer resources with our surrounding communities. We will operate in a cost culture environment enabling well-informed resource management decisions to ensure that taxpayers dollars are spent wisely and responsibly. We will establish a resource framework directly linked to performance across the entire scope of Army Installation Management, supported by relevant and reliable metrics.”

Current Assessment

The Army has been setting goals for waste reduction - recycling, energy and water conservation and construction sustainability through specific Army Pollution Prevention, Water and Energy Programs and MILCON requirements to adhere to Leadership in Energy and Environmental Design (LEED) standards for several years. However, these goals have been in some cases superseded and amplified in importance with new sustainability requirements when Presidential E.O. 13423 and E.O. 13514 went into effect. The more recent E.O. 13514 expanded upon the energy reduction and environmental performance requirements of E.O. 13423.

This plan establishes four main objectives that align with the broader specific goals/requirements outlined above and found in Annex A and reflect the Installation's current challenges. Each Directorate shall incorporate the following objectives across its business processes, report annually the progress of implementation to the Environmental Quality Control Committee (EQCC), and discuss new initiatives supporting these objectives at the annual Environmental Management System Management Review. Tenant organizations shall support this effort by periodically assessing and sharing with the Garrison their respective organization's sustainability efforts' alignment with the principles outlined in this document.

Objective 1 – Reduce Waste and Prevent Pollution

Guiding principles:

- Identify activities that produce waste and pollute or have the potential to pollute
- Integrate, develop and implement programs to reduce waste and pollution
- Track and evaluate the effectiveness of these programs
- Market the results of these programs to reinforce results and educate new members of the workforce

[Periodically answer the following: Are we doing the right things? Are we doing things right? What are we missing?]

What Right might look like?

- Minimize volume of hauled trash and maximize volume of trash recycled and sold
- Ensure that the life cycle of buildings includes using recycled construction materials to facilitate recycling upon building demolition

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- Purchase recycled materials to minimize pollution and waste
- Make double sided copies/prints
- Minimize fossil fuel consumption and greenhouse gas emissions (e.g. use of alternative fuels, electric/hybrid vehicles, and other resources as applicable)
- Maximize water conservation with improved plumbing design and water conservation education programs
- Maximize Low Impact Development designs to reduce stormwater quantity and improve stormwater quality entering the Chesapeake Bay Watershed
- Ensure that all contract actions have incorporated provisions to maximize Objective 1

Objective 2 – Energy Conservation and Increased Energy Efficiency

Guiding principles:

- Identify activities that use energy excessively or inefficiently
- Integrate, develop and implement programs to reduce energy use and increase efficiency
- Track and evaluate the effectiveness of these programs
- Market the results of these programs to reinforce results and educate new members of the workforce
- Ensure that goals and objectives of the Energy Independence and Security Act of 2007 (EISA) and the National Defense Authorization Act (NDAA) Section 332 (2010) are met.

[Periodically answer the following: Are we doing the right things? Are we doing things right? What are we missing?]

What might Right look like?

- Maximize the energy efficiency of all new buildings exceeding minimum efficiency standards when feasible based upon best available technology
- Ensure all office equipment and lighting is on only when needed to reduce the amount of energy used
- Ensure that the “sleep” mode is activated during periods of non-use (i.e. overnight/weekends) for continuous use office equipment.
- Maximize the number of buildings, new construction and existing, with advanced utility meters connected to an enterprise-wide energy management system
- Ensure thermostats are set within the range of authorized temperature settings for the heating and cooling seasons per Army Regulations
- Ensure that all contract actions have incorporated provisions to maximize Objective 2

Objective 3 – Integrated Multi Modal Transportation Systems

Guiding principles:

- Identify activities that produce high traffic volumes, travel delays or stress on available parking areas
- Integrate, develop and implement programs to reduce traffic volume and delays, reduce demand on available parking space and create alternative travel options to the single occupant vehicle
- Track and evaluate the effectiveness of these programs
- Market the results of these programs to reinforce results and educate new members of the workforce

[Periodically answer the following: Are we doing the right things? Are we doing things right? What are we missing?]

What might Right look like?

- Standardize new road designs to serve automobiles, bicyclists and pedestrians
- Maximize the number of employees in the telework program
- Create incentives for employees to establish van and carpools
- Promote flexible work schedules to reduce peak hour traffic volumes
- Expand a post shuttle system to serve the non-driving commuter population
- Link recreational trails with office and commercial centers
- Maximize access control points to reduce traffic congestion

Objective 4 – Preserve Natural Resource Areas for future generations

Guiding principles:

- Identify activities that impact the health of our streams, forests, wetlands and open spaces
- Integrate, develop and implement programs to preserve and protect our streams, forests, wetlands and open spaces
- Track and evaluate the effectiveness of these programs
- Market the results of these programs to reinforce results and educate new members of the workforce

[Periodically answer the following: Are we doing the right things? Are we doing things right? What are we missing?]

What might Right look like?

- Implement programs to control invasive vegetative species that crowd out native plants
- Establish and protect forest conservation areas within the floodplain that will be protected from future development

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- Restore eroded stream beds to reduce sediment loading to the watershed
- Minimize the application of nutrients and pesticides on recreational fields
- Manage and control the deer population to ensure health and safety
- Continue partnerships with area Federal landowners to identify and implement regional approaches for maintaining healthy forests

Implementation

The Green Meade Plan will be implemented through the EQCC. The purpose of the EQCC as stated in its charter is to develop policies and strategies to protect the environment and health and well being of all personnel within the immediate vicinity of Fort Meade. With the EQCC's Installation wide membership and extensive knowledge of the Installation's activities currently underway and planned for the future, progress in achieving the four objectives is certain.

The implementation process will include the establishment of subcommittees for each of the four objectives with an identified subcommittee chair/champion. The subcommittees will develop specific actions in support of each objective and reporting measure to gauge the progress.

At least annually, each designated Activity/Unit will brief the EQCC on the progress for each objective as it specifically relates to their mission and reporting measures. The EQCC members will make recommendations to address both positive and negative outcomes of the action plans. EQCC meetings are held quarterly and at the beginning of the Fiscal Year a briefing schedule will be established.

The Garrison Public Affairs Office will coordinate the dissemination of the progress of the Green Meade Plan throughout the Fort Meade Community.

This plan is a living document and, as such, will be continually fine-tuned as needed to reflect current needs, trends, and resources.

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ANNEX A

The goals established by the Executive Orders include:

- Vehicles: Increase purchase of alternative fuel, hybrid and plug-in hybrid electric vehicles when commercially available (E.O. 13423)
- Petroleum Conservation: Reduce petroleum consumption in fleet vehicles by 2% annually through 2015 (E.O. 13423)
- Alternate Fuel Use: Increase alternative fuel consumption at least 10% annually (E.O. 13423)
- Energy Efficiency: Reduce energy intensity by 3% annually or 30% by 2015 (E.O. 13423)
- Greenhouse Gases: By reducing energy intensity by 3% annually or 30% by 2015, reduce greenhouse gas emissions (E.O. 13423)
- Renewable Power: At least 50% of current renewable energy purchases must come from new renewable sources (in service after January 1, 1999) (E.O. 13423)
- Building Performance: Construct or renovate buildings in accordance with sustainability strategies, including: resource conservation, reduction, and use; siting; and indoor environmental quality (E.O. 13423)
- Water conservation: Reduce water consumption intensity by 2% annually through 2015 (E.O. 13423)
- Procurement: Expand purchases of environmentally-sound goods and services, including biobased products (E.O. 13423)
- Pollution Prevention: Reduce use of chemicals and toxic materials and purchase lower risk chemicals and toxic materials from top priority list (E.O. 13423)
- Electronics Management: Annually, 95% of electronic products purchased must meet Electronic Product Environmental Assessment Tool standards where applicable; enable Energy Star[®] features on 100% of computers and monitors; and reuse, donate, sell or recycle 100% of electronic products using environmentally sound management practices (E.O. 13423)
- Environmental Management Systems: Implement EMS at all appropriate organizational levels to ensure use of EMS as the primary management approach for addressing environmental aspects of internal agency operations and activities (E.O. 13423)
- Greenhouse Gas (GHG) Emission Reductions from reducing energy intensity in agency buildings; increasing agency use of renewable energy; implementing renewable energy generation projects on agency property; reducing use of fossil fuels by: using low GHG emitting vehicles, including Alternative Fuel Vehicles; Optimizing the number of vehicles in the agency fleet; reducing vehicle petroleum use by 2% annually through FY2020 (Baseline FY2005); pursuing opportunities with vendors and contractors to reduce GHG emissions; implementing low-carbon strategies for acquisition, transit, travel, and conferencing; developing and pursuing other innovative policies and practices to reduce scope 3 emissions (E.O. 13514)
- Improve Water Efficiency and Use: Achieve 2% annual reduction in:

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- Potable water intensity by FY2020 or 26% total reduction (Baseline FY2007); in industrial, landscaping, and agricultural water consumption by FY2020 or 20% total reduction (Baseline FY2010); identify, promote, and implement water reuse strategies which reduce potable water consumption; implement and achieve objectives of Stormwater Guidance (E.O. 13514)
- Promote Pollution Prevention and Eliminate Waste: Minimize waste and pollutant generation through source reduction By FY2015, achieve a 50% or higher: solid waste diversion rate, and construction and demolition diversion rate; reduce paper use and use 30% post-consumer recycled paper; reduce acquisition, use, and disposal of toxic and hazardous materials and chemicals; increase organic and compostable materials diverted from waste stream; implement integrated pest management and other landscape management practices; increase use of alternative chemicals and processes; report according to Emergency Planning and Right-to-Know Act (E.O. 13514)
 - Advance Regional and Local Integrated Planning: Participate in regional transportation planning and recognize existing community infrastructure; align federal policies to increase effectiveness of local planning for energy choices; ensure planning of new facilities and leases is transit-oriented and emphasizes existing or planned town centers; identify and analyze impacts from energy usage and alternatives in all EISs and EAs for proposed new or expanded facilities; coordinate with regional programs for all levels of ecosystem, watershed, and environmental management programs (E.O. 13514)
 - Implement Sustainable Federal Buildings: Ensure that all new buildings that begin the planning process in 2020 or after are designed to achieve zero-net-energy by 2030; ensure that all new agency construction and renovation complies with the Guiding Principles; ensure that 15% of existing Federal building inventory of the agency (existing and leased) meet the Guiding Principles by FY2015, and continue towards 100% compliance for all building inventory; encourage cost-effective, innovative strategies (cool roofs and green roofs) to reduce energy, water, and material use; identify opportunities to dispose and consolidate unused property assets; ensure retrofitting and renovation of federally owned historic properties promotes long-term viability (E.O. 13514)
 - Advance Sustainable Acquisition: Ensure that 95% of all new contracts including contract modifications (with the exception of weapons systems) for products and services are: energy-efficient, water-efficient, biobased, environmentally preferable, non-ozone depleting, contain recycled-content, non-toxic or less-toxic alternatives (E.O. 13514)
 - Promote Electronics Stewardship: Ensure EPEAT-registered electronic product procurement preference; ensure procurement of Energy Star and FEMP designated equipment; establish and implement policies to enable power management, duplex printing, and other energy efficient or environmentally preferable features; use environmentally sound disposal practices for electronics; implement best practices in energy efficient management of servers/data centers (E.O. 13514)
 - Sustain Environmental Management: Continue implementation of existing environmental management systems to achieve performance necessary to meet goals of the order (E.O. 13514)

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Reviewed and

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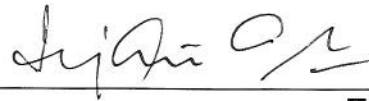


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