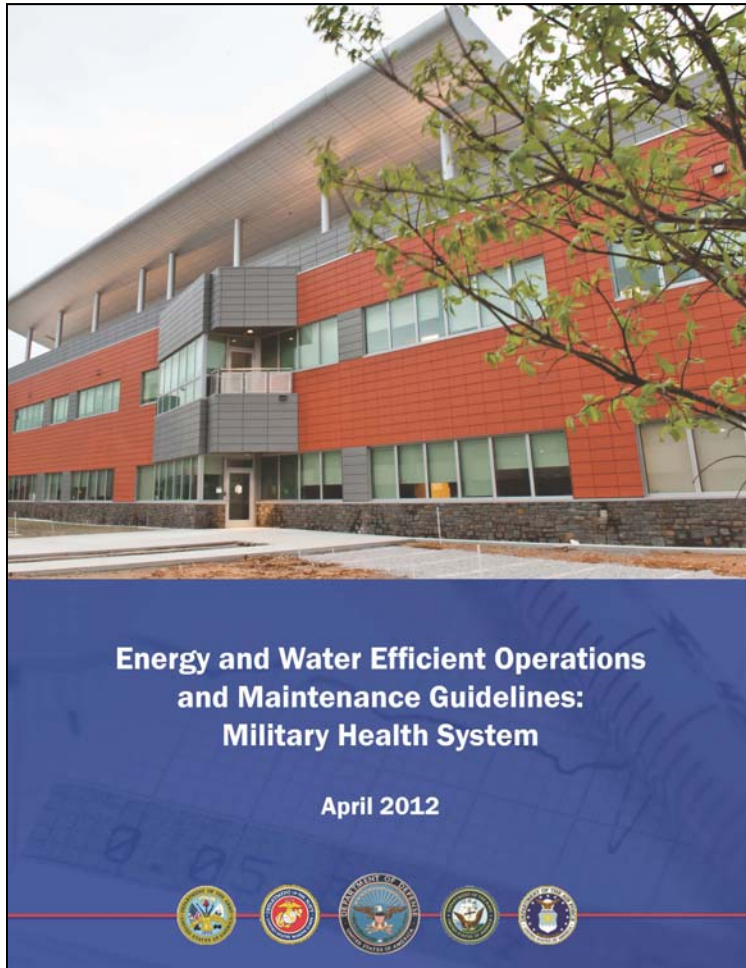




Energy and Water Efficient Operations and Maintenance Guidelines: Military Health System



“Applying a systematic framework for improving sustainability involves a wide range of practices that span much of the Department’s day-to-day activities and military operations, and DoD personnel are learning to apply this mindset to improve mission performance and reduce lifecycle costs.”

- DoD FY 2011 Strategic Sustainability Performance Plan (SSPP)

Energy and Water Efficient Operations and Maintenance Guidelines: Military Health System was developed by OASD (Health Affairs), Portfolio Planning and Management Division (HA/PPMD) at the request of and in coordination with representatives from the medical commands of all three Military Services (Services).

The purpose is to provide standardized, uniform, defensible guidelines that drive energy and water efficient operations and maintenance (O&M) practices at all DoD MTFs. The guidelines will improve the operations of MTFs and help achieve energy and water management mandates established by legislation, Executive Orders and DoD policies (e.g., DoD Strategic Sustainability Performance Plan).



Topics Covered in Energy and Water Efficient O&M Guidelines

Operations and Maintenance	HVAC Optimization	Building Optimization
<ul style="list-style-type: none"> • Building Operating Plans • Benchmarking • Metering • Building Scheduling • Energy Audits • Energy Conservation Measures • Building Commissioning • Awareness • Training • Water Conservation 	<ul style="list-style-type: none"> • HVAC Systems • Boilers • Chillers • Cooling Towers • Compressed Air • Motors and Pumps • Steam Systems • Setpoints • Indoor Air Quality Optimization 	<ul style="list-style-type: none"> • Energy Management and Control Systems • Data Communication Spaces • Laboratories • Pharmaceutical Storage • Lighting • Plug Loads

The guidelines address all aspects of energy and water efficient O&M, including effective building-level O&M programs, HVAC optimization, and whole-building optimization. Facility managers are encouraged to apply these energy and water efficiency guidelines in executing O&M in their MTFs.

The guidance provides best practices and detailed strategies to enable facility and energy managers to take action within their building(s) and increase energy and water efficiency. References are provided to enable energy and facility managers to prioritize actions and monitor progress. Tools and resources point to external publications where further information is available.

For each section, the guidance includes takeaways, quick wins, and measures of success. The “takeaways” describe the purpose and key points of each section. The “quick wins” identify prioritized actions that should be taken first. These actions will build a foundation to enable energy and water efficient O&M practices and will provide maximum impact while expending minimal resources. The “measures of success” demonstrate ways to monitor achievement through the use of standard metrics.

The Guide is posted at: http://www.mhsworldclassfacilities.org/home/?page_id=3088

For More Information

Kent Bein
 Energy and Sustainability Program Manager
 HA/PPMD
 703-681-4344
 Allen.Bein@tma.osd.mil