



Energy-Efficiency Standards and Green Building Certification Systems Used by the Department of Defense for Military Construction and Major Renovations

Committee to Evaluate Energy-Efficiency and Sustainability Standards Used by the Department of Defense for Military Construction and Repair, Board on Infrastructure and the Constructed Environment, Division on Engineering and Physical Sciences, National Research Council

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Congress has an ongoing interest in ensuring that the 500,000 buildings and other structures owned and operated by the Department of Defense (DOD) are operated effectively in terms of cost and resource use. Section 2830 of the National Defense Authorization Act for fiscal year requires the Secretary of Defense to submit a report to the congressional defense committees on the energy-efficiency and sustainability standards used by DOD for military construction and major renovations of buildings.

DOD's report must include a cost-benefit analysis, return on investment, and long-term payback for the building standards and green building certification systems, including:

- (A) American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 189.1-2011 for the Design of High-Performance, Green Buildings Except Low-Rise Residential.
- (B) ASHRAE Energy Standard 90.1-2010 for Buildings Except Low-Rise Residential.
- (C) Leadership in Energy and Environmental Design (LEED) Silver, Gold, and Platinum certification for green buildings, as well as the LEED Volume certification.
- (D) Other American National Standards Institute (ANSI) accredited standards.

DOD's report to the congressional defense committees must also include a copy of DOD policy prescribing a comprehensive strategy for the pursuit of design and building standards across the department that include specific energy-efficiency standards and sustainable design attributes for military construction based on the cost-benefit analysis, return on investment, and demonstrated payback required for the aforementioned building standards and green building certification systems. *Energy-Efficiency Standards and Green Building Certification Systems Used by the Department of Defense for Military Construction and Major Renovations* summarizes the recommendations for energy efficiency.

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