



**DEPARTMENT OF THE ARMY**  
**OFFICE OF THE ASSISTANT SECRETARY OF THE ARMY**  
**INSTALLATIONS, ENERGY AND ENVIRONMENT**  
**110 ARMY PENTAGON**  
**WASHINGTON DC 20310-0110**

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MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Army Electrification Guidance for Military Construction (MILCON) and Sustainment, Restoration and Modernization (SRM) Projects

1. References.

a. Executive Order 14057, Catalyzing Clean Energy Industries and Jobs Through Federal Sustainability, 8 December 2021.

b. Department of Defense Memorandum, Electrification of Standard Building Operations, 29 March 2023.

c. Department of Defense Instruction 4170.11, Installation Energy Management, 31 August 2018.

d. Army Regulation 420-1, Army Facilities Management, 12 February 2008.

e. Department of Army Pamphlet 420-11, Project Definition and Work Classification, 18 March 2010.

2. This guidance supersedes the Deputy Assistant Secretary of the Army (Installations, Housing and Partnerships) (DASA(IH&P)) Memorandum, Subject: Army Electrification Guidance for Military Construction (MILCON) Projects, 18 May 2023 and 22 January 2024.

3. In accordance with Reference (a), the Army is taking steps to reduce its energy consumption, reduce its dependence on carbon emitting energy sources, and ensure installation energy resilience and reliability by preparing infrastructure to connect to on-site energy sources and Army microgrids. This electrification guidance will be codified as policy in an Army Directive and/or Army Regulation at a future date.

4. To implement Reference (b), effective immediately, all construction projects funded with MILCON and Operations and Maintenance (O&M) carried out in accordance with 10 U.S.C. § 2805 shall comply with the following:

a. For construction projects that have not completed schematic design (up to 15 percent design) as of 18 May 2023, include in building designs the use of all-electric

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technologies for system components, including, but not limited to, space conditioning, water heating, cooking, and laundry, where market-ready technologies exist.

b. For construction projects that have completed schematic design (15% design) but have not completed concept design (35% design) as of 18 May 2023, include in building designs the necessary infrastructure to enable future electrification of building systems for space conditioning, water heating, cooking, and laundry. This includes, but is not limited to, increasing sizing of conduit runs, utility chases, and electrical panels and wiring to support future building electrification.

5. To implement Reference (b), effective immediately, all Restoration and Modernization (R&M) projects shall comply with the following:

a. For all R&M projects not requiring congressional notification in accordance with 10 U.S.C. § 2811 that are not yet under design or have not issued a design-build Request for Proposal (RFP) as of 18 May 2023, include all-electric technologies, where market-ready technologies exist, for building system components including, but not limited to, space conditioning, water heating, cooking, and laundry systems, upon a system's expected end of useful life, unexpected system failure, or where various systems or major components will be replaced as part of the work.

b. For all R&M projects requiring congressional notification, that are not yet under design or have not issued a design-build RFP as of 18 May 2023, implement the use of all-electric technologies where market ready technologies exist, for building system components, including space conditioning, water heating, cooking, and laundry systems, upon a system's expected end of useful life, unexpected system failure, or when buildings will undergo major renovation where various system components will be replaced as part of facility restoration and modernization.

c. For all R&M projects already in design as of the 18 May 2023, evaluate reasonable changes to planning and design to maximize compliance with the intent of this guidance, unless such changes would delay project acquisition beyond established deadlines.

d. For all R&M projects that are not yet under design or have not issued a design-build RFP, if full compliance results in costs or mission risks that jeopardize the execution of the project, project proponents may modify the degree to which complete electrification is accomplished, provided all other requirements of applicable laws or policies are followed. Rationale for any such modification shall be documented in Basis of Design in accordance with Reference (d). Additionally, the Garrison Commander or designee must provide a memorandum that justifies and documents the decision to the Design and Construction Agent and to the DASA(IH&P).

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6. To implement Reference (b), effective immediately, all Sustainment shall comply with the following:

a. For all Sustainment projects that are not yet under design or have not issued a design-build RFP, include all-electric technologies, where market-ready technologies exist, for building system components including, but not limited to, space conditioning, water heating, cooking, and laundry systems, upon a system's expected end of useful life, unexpected system failure, or where various systems or major components will be replaced as part of the work.

b. For all Sustainment projects that are not yet under design or have not issued a design-build RFP, if full compliance results in costs or mission risks that jeopardize the execution of the project, project proponents may modify the degree to which complete electrification is accomplished, provided all other requirements of applicable laws or policies are followed and exercised with the necessary management controls in place. Rationale for any such modification shall be documented by the Garrison Commander or designee in a memorandum for the project record that justifies and documents the decision.

7. The implementation of this guidance may increase electricity demand beyond the capacity of existing electrical utility infrastructure. As a result:

a. Planning and design of all projects covered by this guidance must evaluate utility infrastructure requirements beyond the immediate boundaries of the facility site, and where appropriate, incorporate necessary infrastructure improvements in the project scope as allowed for the project work classification (Reference e) or seek a waiver to the electrification requirements. Planning and design must also strive to ensure the building design's ability to achieve building energy consumption reduction mandates through holistic, integrated design strategies, which will reduce the building-level electrical demand of equipment, particularly for heating, ventilation, and cooling applications.

b. Installations must assess and update Master Plans and component plans to account for the increased energy requirements resulting from current and future year projects to include capital improvements to district plants.

c. In cases where the utilities are privatized, the utilities service contract with the privatized system owner may require modification to address any increased demand on or improvements needed to utilities infrastructure requirements.

8. In accordance with Reference (b), this guidance does not apply to:

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a. Systems and equipment where host nation requirements or agreements prohibit compliance.

b. Systems and equipment used for unique research, or manufacturing, industrial or process loads for which all-electric technology is not available or its use would increase the risk to mission.

c. Emergency use generators provided they are not utilized for non-emergency load shedding or peak demand shaving.

d. Fuel-based fire water pumps and other equipment used strictly for emergencies.

9. In the absence of governing criteria in the Unified Facilities Criteria (UFC), Headquarter, U.S. Army Corps of Engineers shall publish and regularly update interim criteria reflecting market-ready technologies and best practices to achieve the objectives of this guidance, until specific criteria are incorporated into appropriate UFCs.

10. Exceptions to this guidance will be adjudicated by the Assistant Secretary of the Army for Installations, Energy and Environment, or as delegated, when a bona fide need to waive one or more of the above objectives has been identified by the Design and Construction Agent, and after it has been vetted by the Garrison Commander or equivalent and higher Headquarters. For example, exceptions to this guidance may be granted in climate zones where all-electric technologies are not currently practicable.

11. Points of contact for this action are the DASA(IH&P) Assistant for Facilities Resilience (703) 614-4712 and Assistant for Facilities Investments (703) 693-9919.

CARLA K. COULSON  
Deputy Assistant Secretary of the Army  
(Installations, Housing and Partnerships)

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CF:

Deputy Chief of Staff, G-9 (DAIN-OD)