

Guiding Decarbonization of Buildings in the DoD

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Qualifying and quantifying building decarbonization and low-to-no-emissions buildings are enduring challenges for the DoD, which has over 280,000 buildings in inventory. This large building inventory presents the challenge of choosing and thresholding building standards and determining a uniform procedure to follow to ensure the DoD is maintaining high-performance, sustainable buildings and meeting appropriate emissions requirements and guidelines for both new construction and major renovations.

A few considerations for DoD revolve around how we create highly efficient standard designs for different types of buildings, how we decide what to measure, and how we enforce rules and provide oversight when it comes to integrative design and instituting passive strategies.

These considerations necessitate the need for DoD to impart innovative strategies and solutions to ensure building performance success and efficient design, in which quality control is often difficult to perform due to inability to determine if performance goals have been met until post-development.