Sustainable Technology Evaluation and Demonstration (STED) Program

Sustainable Door System Demonstration

Technology Description

Insulated interior and exterior door systems that offer improved energy efficiency compared to traditional hollow metal doors.

Potential Impact

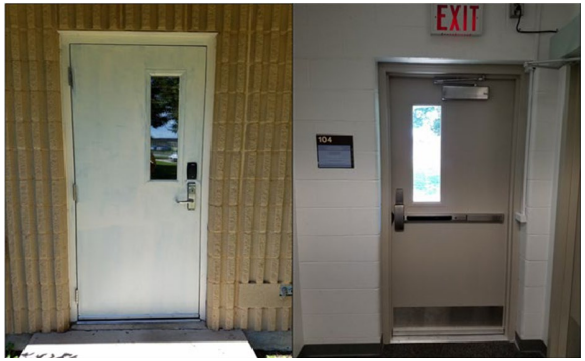
- Reduce energy consumption and energy loss (drafts, heat transmission).
- Potential to reduce DoD energy consumption by approximately 1.8M MWh / year and reduce electricity costs by $170M / year if implemented DoD-wide.
  - DoD has 284,359 buildings with multiple exterior doors.
  - Energy savings: 1,578 KWh/year per door
  - (JBSA Demo).
  - Cost savings: $149/year per door (JBSA $0.0943/kWh).

Benefits

- Meets operation and durability performance requirements and integrates with existing access control/security system.
- Sustainably manufactured using renewable energy at domestic facilities.

Demonstration Sites

- Redstone Arsenal
- MCB Quantico
- JBSA
- Fort Liberty



JBSA Civil Engineer Squadron (CES) Headquarters (HQ)

For additional information please contact:

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- Department of Defense (DoD) Sustainable Products Center (SPC): https://www.denix.osd.mil/spc/index.html