



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 DoW energy consumption by approximately 1.8M MWh / year and reduce electricity costs by \$170M / year if implemented DoW-wide.
 - DoW 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
- JBSA
- MCB Quantico
- Fort Bragg

For additional information please contact:

- [DoW STED Program email](#)



Redstone Arsenal