

Environmental Security Technology Certification Program (ESTCP)

**CYBERSECURE CONNECTIVITY FOR ENERGY SYSTEM COMPONENTS AND
MILITARY INSTALLATION ENERGY INFRASTRUCTURE**

Objective

The Department of Defense (DoD) seeks demonstrations of innovative technologies and methodologies to improve energy system cybersecurity on military installations. Demonstrations must provide valid assessments of cost, technical performance and acceptability to the DoD facility management and network security communities. Demonstrations should include technology transfer activities that have a feasible path to commercialization of products DoD facilities managers and network managers would adopt and implement to support the military mission on DoD facilities. The proposed solutions must enable components of building energy systems, such as chillers and lighting, to use military networks to send or receive data and control signals. Additionally or alternatively, proposed solutions must enable military installation building and energy infrastructure to automatically sense and respond to ancillary services signals, such as demand response or frequency regulation, in order to participate in ancillary services markets.

Desired Characteristics of Proposed Demonstrations

- Plug and play
- DoD-wide accreditation to meet risk management framework requirements
- Physical security
- Supports analog or digital building and installation energy system components
- Enables revenue generation in ancillary services energy markets
- Potential for savings-to-investment ratio (SIR) greater than 2 and simple payback of 5 years or less
- Likelihood of adoption of the demonstrated energy cybersecure technology in an Energy Savings Performance Contract (ESPC) or Utility Energy Services Contract (UESC)
- Results in recommended cybersecurity standards for military installation buildings and energy systems
- Results in recommended standard energy cybersecure hardware and processes for DoD bases

Point of Contact

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For pre-proposal submission due dates, instructions, and additional solicitation information, visit the ESTCP website at <https://www.serdp-estcp.org/Funding-Opportunities/ESTCP-Solicitations/Installation-Energy-Solicitation>.