

Environmental Security Technology Certification Program (ESTCP) Overview

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About ESTCP

- Established in 1995 to:
 - ◆ Improve DoD's environmental performance
 - ◆ Reduce costs
 - ◆ Enhance and sustain mission capabilities
- Demonstration & validation focus
- Promote Implementation
- Energy & Water is one of five ESTCP Program Areas
- Issue annual solicitations.



Energy & Water

Environmental
Restoration

Resource
Conservation &
Climate Change

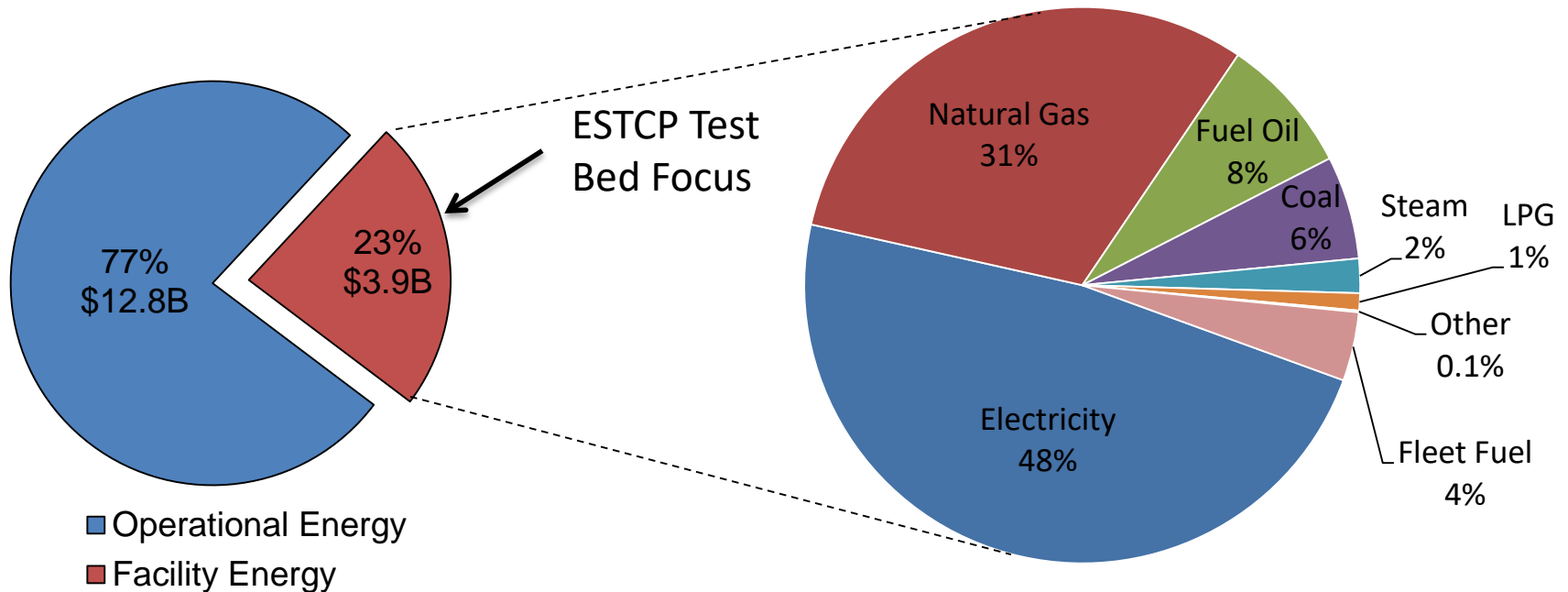
Weapons
Systems &
Platforms

Munitions
Response

DoD Energy Use – ESTCP Focus

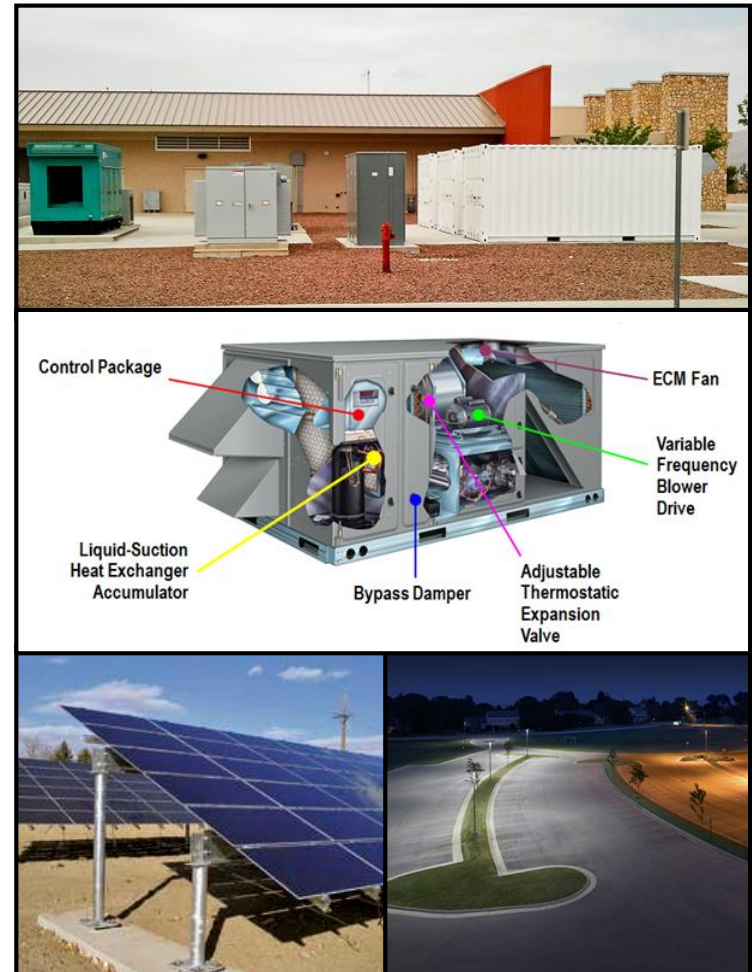
DoD Facility &
Operational Energy
Cost: \$16.7B (FY15)

Military Installation
Energy Consumption



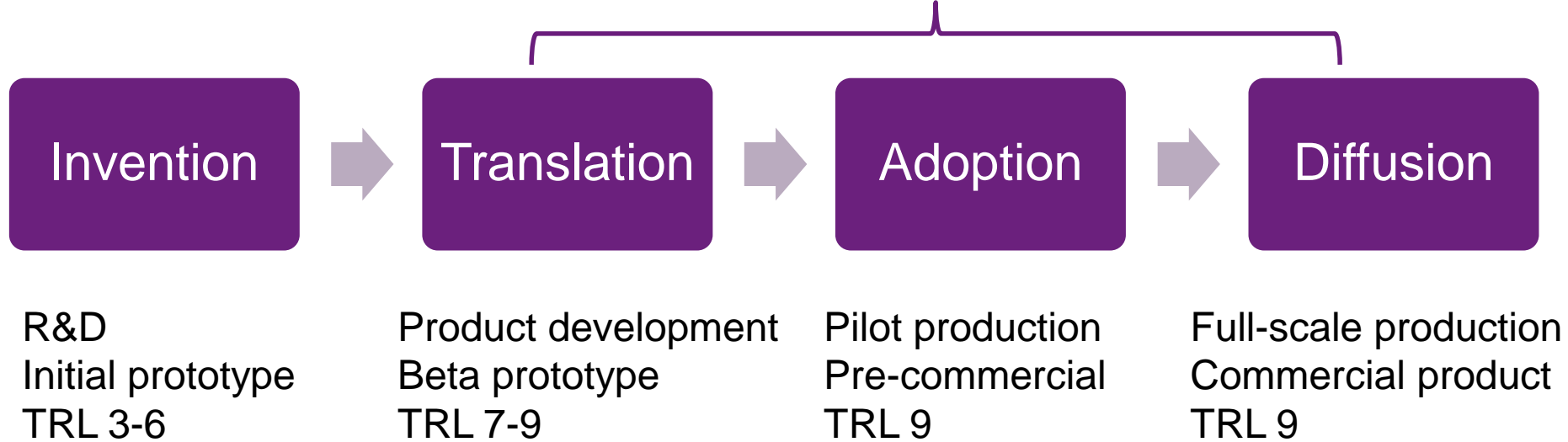
Energy and Water

- Smart and secure installation energy management
 - ◆ Microgrids
 - ◆ Energy storage
 - ◆ Ancillary service markets
 - ◆ Cybersecurity
- Efficient integrated buildings and components
 - ◆ Design, retrofit, operate
 - ◆ Enterprise optimized investment
 - ◆ Advanced components
 - ◆ Intelligent building management
 - ◆ Non-invasive energy audits
- Distributed generation
 - ◆ Cost effective
 - ◆ On-site
 - ◆ Emphasis on renewables



Energy Technology Maturity

ESTCP Investments

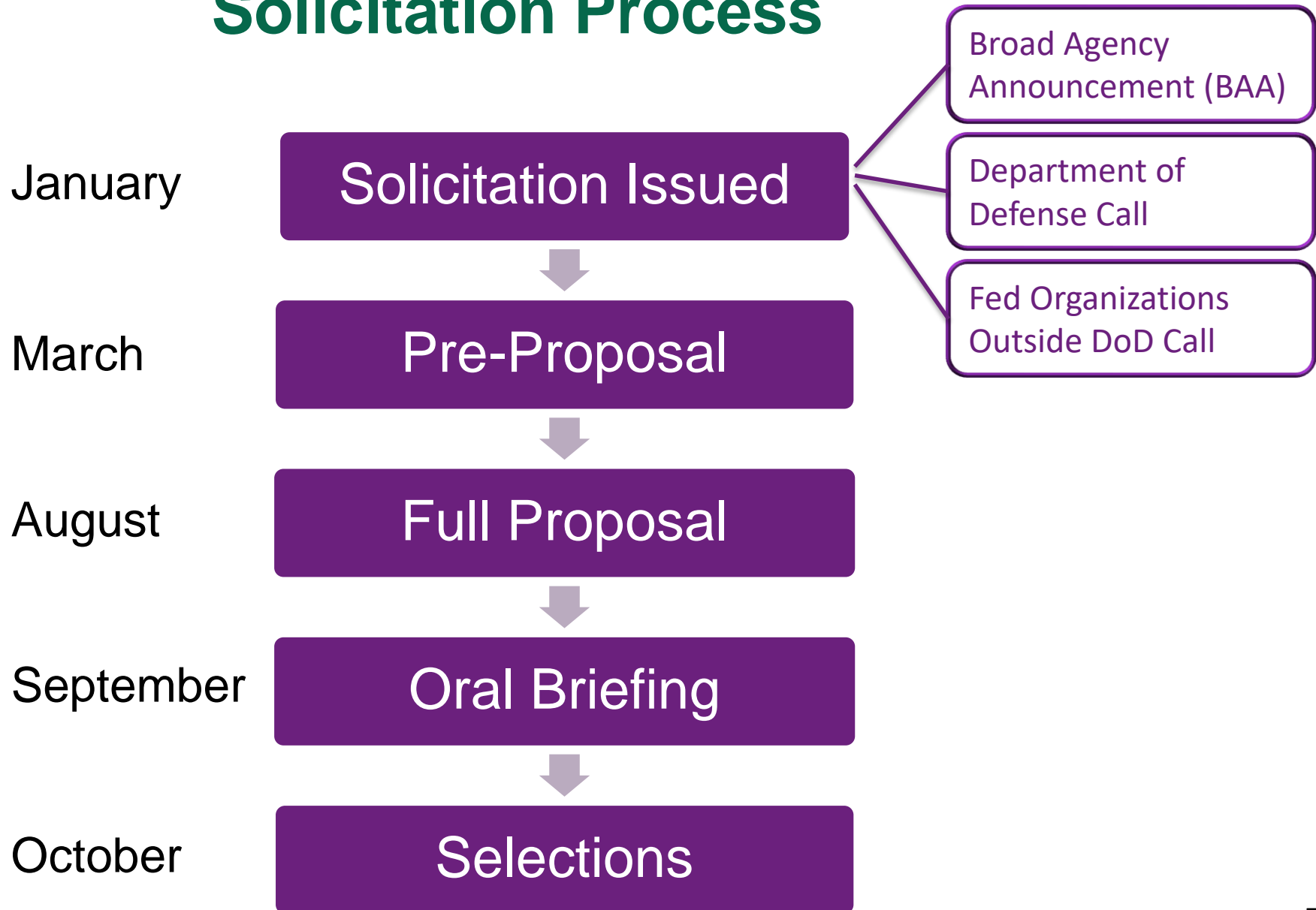


| | Translation | Adoption | Diffusion |
|-----------------------------------|---|--|--|
| Performance & Cost | Value proposition or price is unclear or ill defined. | Value and risks understood by specialist or for some applications. Limited or no independent validation. | Risks and value understood for most applications. Education of broader community underway. |
| Industry, supply chain, & support | Developers required for demonstration. Building industry not engaged. | Limited commercial availability. Support and distribution partnerships not well developed. | Technology is available and sustainable but not usually specified. |

ESTCP Technology Considerations

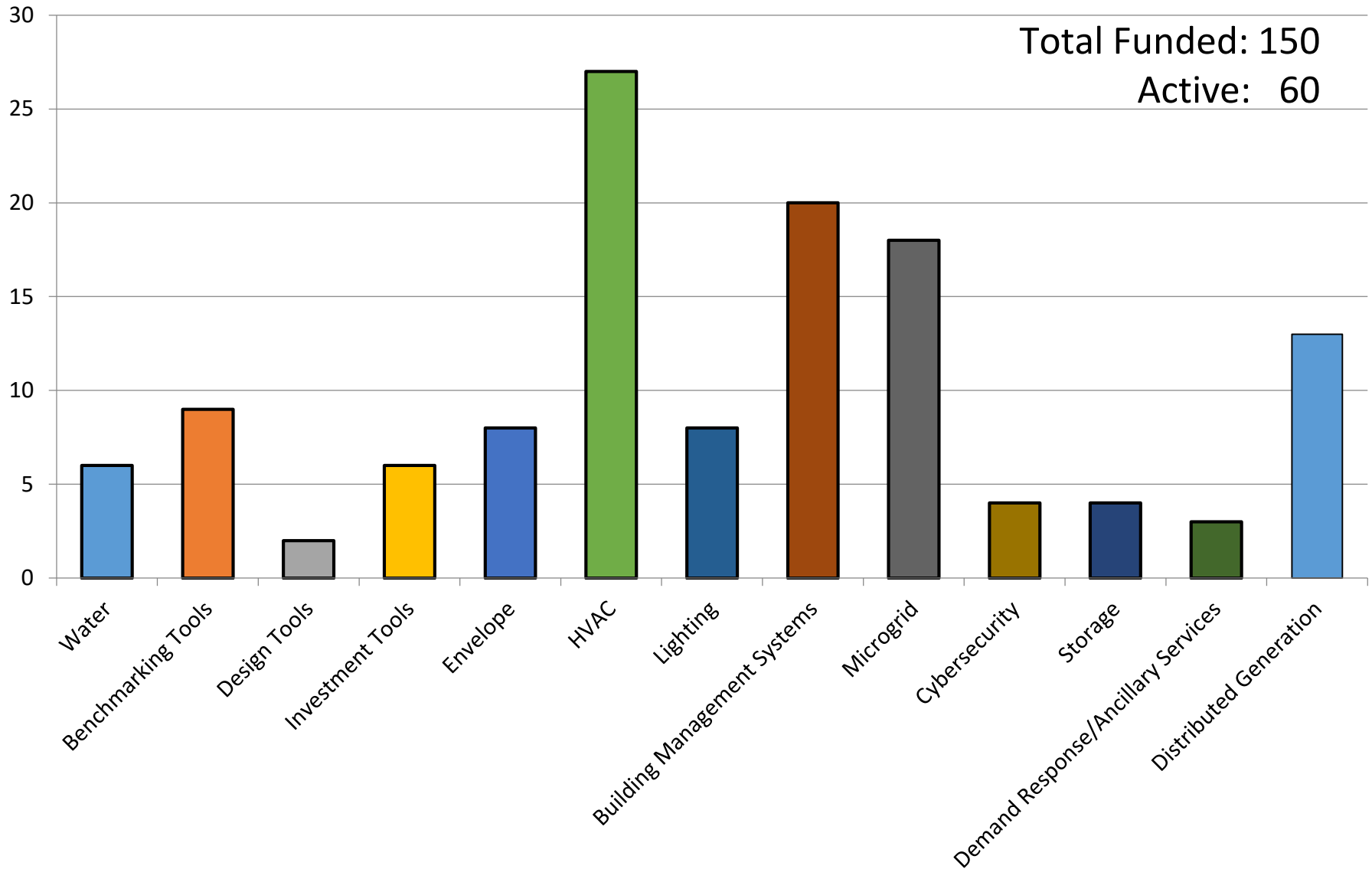
- Relevance to solicitation topic
- Potential impact
- Applicability to military installations
- Technology maturity
- Technology transfer potential
- Cost

Solicitation Process



Active and Completed EW Projects - Project Count

Total Funded: 150
Active: 60



Website: www.serdp-estcp.org

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DoD's Environmental Research Programs

| | | | | | | | |
|------|-----------------------|---------------|-----------------|----------------------|--------------------|-----------------------|------------------------|
| Home | About SERDP and ESTCP | Program Areas | News and Events | Featured Initiatives | Tools and Training | Funding Opportunities | Investigator Resources |
|------|-----------------------|---------------|-----------------|----------------------|--------------------|-----------------------|------------------------|

SERDP and ESTCP harness the latest science and technology to develop and demonstrate innovative, cost-effective, and sustainable solutions to meet DoD's environmental challenges.



2017 SERDP/ESTCP SYMPOSIUM
Enhancing DoD's Mission Effectiveness

[SERDP-ESTCP Symposium 2017](#)

SERDP Solicitations

Investing in environmental research and development.
FY 2019 Solicitations released October 26, 2017.

FY 2019 Solicitations: Pre-proposals are due January 4, 2018.

ESTCP Solicitations

Demonstrating innovative environmental technologies.
FY 2018 Environmental Technologies Solicitation was released January 5, 2017.

FY 2018 Environmental Technologies Solicitation: pre-proposals were due March 9, 2017.



ESTCP

SERDP
DoD • EPA • DOE

- Risk Management Framework 101
- Degraded Training Lands? Paper May be Your Answer.
- Fall SAB Meetings**
- FY19 SERDP Solicitations Released
- EPA Recognizes Implementation of SERDP/ESTCP Technologies
- Singing in the Rain

Upcoming Events

Dec 11-15 [AGU Fall Meeting 2017](#)

[Calendar of Events](#)

News

[SERDP Announced FY 2019 Solicitation](#) - Posted 10/26

[SERDP Announced FY 2018 Supplemental Solicitation](#) - Posted 9/14

[ESTCP Solicits Proposals for FY 2018 Energy](#) - Posted 2/2

[More News](#)

Webinar Series

Promoting the transfer of innovative, cost-effective and sustainable solutions.

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Tools and Training

Put innovative research and technologies to work.

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Blog

Posts highlighting research, technologies, and tools.

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