



Center for Emerging Building Technologies ▾

Pilot your emerging tech at GSA

i FY25 GSA, DOE RFI is officially closed.

The GSA Proving Ground (GPG) FY25 RFI seeks innovative, emerging, and sustainable technologies that enable energy efficiency and decarbonization in commercial buildings; contribute to a more efficient electric infrastructure; and improve resiliency and occupant health. Technologies selected for the GPG program will be piloted in one or more federal buildings and/or private sector facilities and evaluated by DOE National Labs.

Participation requirements

- Technologies should be early- or underutilized-commercial and ready for evaluation in occupied, operational buildings.
- For GSA-selected technologies, core equipment must be gifted to the federal government as outlined in 40 U.S.C. 3175 or provided via an alternative financing mechanism. Installation is funded by GSA.
- For DOE-selected technologies, project costs are negotiated with the vendor and host site partners.

FY25 RFI timeline

- **August 22, 2024:** Informational Webinar
 - See the “GPG RFI Materials” (at right) to access the webinar slides and video.
- **September 13, 2024 at 11:59 pm ET:** RFI Now Closed
- **March 2025:** Finalists selected

FY25 technology focus areas

This year’s RFI seeks emerging and sustainable technologies that support:

- **Deep energy retrofits.** Improve the energy efficiency and reduce the carbon footprint of an existing building through a specific energy conservation measure or ongoing monitoring and controls.
- Examples of technologies of interest include, but are not limited to:
 - Envelope retrofit solutions to manage solar heat gain, minimize air leakage, or reduce heating and cooling loads, or any combination of the foregoing
 - Retrofit technologies to capture and manage waste heat
 - Refrigerant leak prevention technologies and no or low global warming potential refrigerants

- Lighting and lighting control systems
- Technologies that enable easier retro- and continuous-commissioning
- Software or hardware, or both, that support load flexibility and grid-interactive efficient buildings
- **All-electric buildings and all-electric vehicle fleets.** Eliminate the use of fossil fuels in buildings and vehicle fleet operations.
- Examples of building technologies of interest include, but are not limited to:
 - Larger-scale heat pumps appropriate for commercial retrofit applications, including cold climate zones
 - Systems approaches to commercial boiler decarbonization
 - Packaged heat pump systems with water heating or integrated with make-up air systems
 - Technologies that minimize the need for electrical service upgrades, such as smart panels and smart circuits
- Examples of fleet technologies of interest include, but are not limited to:
 - Electric vehicle supply equipment (“EVSE”) charge management solutions
 - Vehicle-to-everything solutions
 - Systems or tools that enable EVSE data collection, reporting, or interconnection, or any combination of the foregoing, including:
 - Systems or tools that enable reservation and payment systems
 - Systems that leverage Open Charge Point Protocol to provide interoperability across charging network providers. Capabilities include single pane of glass dashboards, data and key performance indicator reporting, and other equipment-agnostic functionality
- **Healthy and resilient buildings.** Enhance occupant comfort and building health, while minimizing climate-related and other vulnerabilities.
- Examples of technologies of interest include, but are not limited to:
 - Dynamic indoor environmental quality monitoring and control
 - Novel methods to reduce the risk of disease transmission
 - Enhancing resiliency and passive survivability
 - Microgrids
 - Water conservation and harvesting technologies that save water and support continued facility operation if water supply is disrupted
- **Low-embodied carbon building materials.** Reduce lifecycle emissions associated with materials used for facility construction, renovation, and reuse.
- Examples of solutions of interest include, but are not limited to:
 - Low- or no-emissions materials or products that replace, supplement, or improve asphalt, concrete, glass, steel, insulation, roofing, gypsum wallboard, flooring materials, ceiling materials, or aluminum
 - Including mass timber and other bio-based solutions
 - Solutions that reduce the overall lifecycle carbon emissions of a facility
 - Innovative deconstruction and reuse technologies, products, or practices, such as materials specifically designed to be usable beyond their original lifecycle or installation site
- **Net-zero operations.** Operate without fossil-fuel equipment through a combination of on-site renewables and off-site carbon-free electricity.
- Examples of technologies and solutions of interest include, but are not limited to:

- On-site carbon-free energy generation, such as building-integrated photovoltaics, high-efficiency solar system designs, geothermal heating and cooling, and ground- and building-mounted wind turbines
- Carbon capture and storage
- On-site energy storage: battery, thermal, or green hydrogen
- Technologies that integrate on-site energy generation and storage with building management systems
- Solutions that simplify or reduce installation, operation and maintenance challenges, workload to enable net-zero facilities, or any combination of the foregoing
- **Packages of emerging and sustainable technology solutions.** Packages or stacks of technologies from a single vendor or a team of multiple vendors that combine to create deeper energy or emissions reductions for a facility or campus.
- Examples of solutions of interest include, but are not limited to:
 - Any combination of the technologies described above
 - Packages of technologies that support zero carbon emissions for data centers or critical facilities and backup generation for these facilities.
 - Long-duration energy storage
 - Data collection for and management of operational emissions and embodied emissions
 - Power optimization measures (such as efficiency, generation, storage, and controls) that reduce peak power in buildings

Benefits to participating

- [Hear from past GPG participants](#)

About GPG

[The GSA Proving Ground](#) enables GSA to make sound investment decisions in next-generation building technologies based on their real-world performance.


About DOE EERE

DOE's [Office of Energy Efficiency and Renewable Energy \(EERE\)](#) [↗](#) mission is to create and sustain American leadership in the transition to a global clean energy economy.

GPG RFI materials

- [RFI Webinar Slides \[PDF - 6 MB\]](#)
- [RFI Webinar Recording](#) [↗](#)
- [GSA Solicitation #FY25RFI080124](#) [↗](#)
- [Application \(for reference\) \[PDF\]](#) [↗](#)
- [GSA Press Release](#)
- [Frequently Asked Questions \[PDF - 469 KB\]](#)

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[Diversity, Equity, Inclusion and Accessibility](#)

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[ID, Credentials, and Access Management](#)

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