GPG/DOE RFI Application

This Request for Information (RFI) seeks innovative early- or underutilized-commercial technologies. **Only technologies ready for evaluation in occupied, operational buildings will be considered.**

Responses to this RFI will be evaluated and considered for inclusion in the U.S. General Services Administration (GSA) [Green Proving Ground](#) (GPG) program (for federally owned facilities) or voluntary partnership programs facilitated by the U.S. Department of Energy (DOE) [Office of Energy Efficiency & Renewable Energy](#) (EERE) (for privately owned facilities), or both.

This application consists of five sections:

1. Applicant Information (13 questions)
2. Technology Overview (15 questions)
3. Technology Performance (10 questions)
4. Technology Commercialization (10 questions)
5. Attachments (1 question)

Application Deadline:
Responses will be accepted until **Friday**, **December 8, 2023, 11:59 pm EST**.

Directions:

- Answers to all questions are required. Any submission deemed to contain insufficient content for thorough evaluation will be eliminated from consideration.

- Enter "N/A" if a question does not apply or you have nothing more to add.

- Follow instructions carefully, paying attention to the character limits, where noted.

- If a section contains proprietary or confidential information, please identify it as "Privileged and Confidential Communication."

Section 1. Applicant Information

Provide information about your company.

      Name:

      Address:

      City:

      State:

      Zip Code:

      URL:

      Number of Employees:

      How many employees do you have globally?

      How many jobs are based in the United States?

      Point of Contact (Name):

      Point of Contact (Email):

      Point of Contact (Phone):

Business Designation: Small ▾ (Select all that apply.)

Do you manufacture any part of your product in the United States? Yes ▾

      a. If yes, what parts of your product are being manufactured in the United States?

      b. If yes, in which city and state do you manufacture (city, state abbreviation)?

If you are a startup, describe your current series funding (*e.g.*, Seed, Angel, Series A, Series B, Series C). (Limit 200 characters)

Project Team Background:
Provide detailed information about the team members who will be involved during the formulation and execution of this field validation. (Limit 2,500 characters.)

Unconditional Gift to GSA? Yes ⌄

To be considered for field validation at a federal facility, technology must be provided as an unconditional gift of property under GSA's gift acceptance authority (40 U.S.C. § 3175). If selected for testing and evaluation, do you agree to donate unconditionally at no cost to GSA your submitted technology in sufficient quantity to test and evaluate its performance?

7. How did you hear about this RFI? Other ⌄ (Select all that apply.)

Section 2. Technology Overview

RFI Category: Deep energy retrofits ⌄

Technology Category: HVAC ⌄

Technology Type:

- ☐ Hardware
- ☐ Software
- ☐ Other, Please describe:

Product Name(s): What product(s) are you submitting for evaluation? (List product names, limit 100 characters)

Generic Product Name: Provide a generic technology name to help the review team reference your technology. (Limit 50 characters)

Descriptive sentence of your unique product/service/offering (Limit 100 characters)

Executive Summary:
Provide an "elevator pitch" or "30,000-foot view" that broadly characterizes the technology's value proposition and market space. (Limit 1,000 characters)

Use Case and Innovation:
Specify the use case and the typical user that the proposed technology addresses. Describe the innovation and performance improvement relative to current capabilities and other value-added benefits that may result from installing the technology. (Limit 2,500 characters.)

Functionality:
Describe the technology in sufficient detail to establish an accurate understanding of how the solution maintains or improves energy efficiency, reduces greenhouse gas (GHG) emissions, or improves operations.(Limit 2,500 characters)

Required Building Systems:
Describe all facility characteristics, systems, and components needed for the technology to work as intended. (Limit 1,000 characters)

Targeted Building Characteristics:
Identify the building size, age, and climate needed to deploy your technology. (Limit 1,000 characters)

Ease of Use:

☐ Low: Operated and maintained by the typical user and is plug-and-play with current infrastructure / equipment.

☐ Medium**:** Operated and maintained by a typical user after some training and allows for interoperability with existing infrastructure / equipment with minor adjustments.

☐ High**:** Requires extensive training and / or there are meaningful integration costs to successfully use / integrate the product.

☐ Not Applicable

What are the technology's physical weight and space requirements? (Limit 50 characters)

Is the technology networked? If so, please describe (Limit 1,000 characters)

Provide additional detail about your technology, as needed. (Limit 2,500 characters)

Section 3. Technology Performance

What is the most common incumbent for your technology? (*e.g.*, double-pane window, centrifugal chiller, Level 3 electric vehicle charger): (Limit 50 characters)

Estimated energy savings reduction (%) compared to the incumbent: (% input)

What are the expected non-energy benefits? (Limit 1,000 characters)

What is the expected upfront cost of your technology? (by unit or building size): (Limit 100 characters)

What is the expected installation cost of your technology? (by unit or building size): (Limit 100 characters)

What are the expected ongoing costs? (Limit 500 characters)

What is the expected payback period of your technology? (number input in years)

List the warranty periods of the products you are submitting for evaluation. (product name, number of years under warranty, limit 500 characters)

List any 3rd-party validation of your technology's performance. Cite or submit links to any studies by independent researchers that document the performance of any aspects of the solution in a controlled setting. (Limit 500 characters)

Provide additional detail about your technology performance, as needed. (Limit 2,500 characters)

Section 4. Technology Commercialization

Current Technology and Market Readiness:

☐ **Research and Development**: Basic concept proven in a laboratory setting.

☐ **Prototype**: Product prototyping and pilot production.

☐ **Commercial Launch**: System completed, certified, and qualified. Commercial production.

☐ **Early Commercial**: Requires manufacturing processes or supply chain components not currently in place for broader deployment.

☐ **Commercially Mature**: Robust commercial sales. Product iterations and improvements.

Certifications:

Underwriter Laboratories (UL)	Underway ⌄
Electrical Testing Laboratories (ETL)	Yes ⌄
Federal Risk and Authorization Management Program (FedRAMP)	Underway ⌄
Environmental Product Declaration (EPD)	N/A ⌄
Health Product Declaration (HPD)	N/A ⌄
Other (please describe)	

If certifications are Underway, please list the expected date of completion. (Limit 1,000 characters)

Technology Regulatory Risk:

☐ Low: This technology could be broadly deployed within existing regulatory framework and standards. Minimal risk of delays.

☐ Medium: This technology could be broadly deployed with minor changes to regulations and standards. Some risk of delays.

☐ High: This technology could be broadly deployed only with major changes to regulations and standards. Significant risk of delays.

☐ Not Applicable

Are your customers residential or commercial? Residential ⌄

☐ Commercial
☐ Residential
☐ Multi-family

If you selected residential only, please specify whether your technology is ready for use in a commercial building and note any barriers to deployment. (Limit 500 characters)

Number of Commercial Customers: (number input)

What are the financing options?

- ☐ Upfront
- ☐ Lease
- ☐ Ongoing subscription, *e.g.,* SaaS, HaaS
- ☐ Other   **If other, please describe:**

Please specify what changes, if any, you plan to make to the product roadmap between now and the end of the calendar year 2024. (Limit 2,500 characters)

Provide additional details on the commercialization of your technology, as needed. (Limit 2,500 characters)

Section 5. Attachments

Upload Supporting Documents:

- ☐ Single slide with an overview of your technology
- ☐ For hardware: manufacturer cut sheet
- ☐ For software: technical specifications