

Welcome to the Voucher Opportunity 12 – Grid Innovations Facility and Testing (Providers) Informational Webinar 2

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permitted**

AI bots will not be allowed in meetings and will be removed
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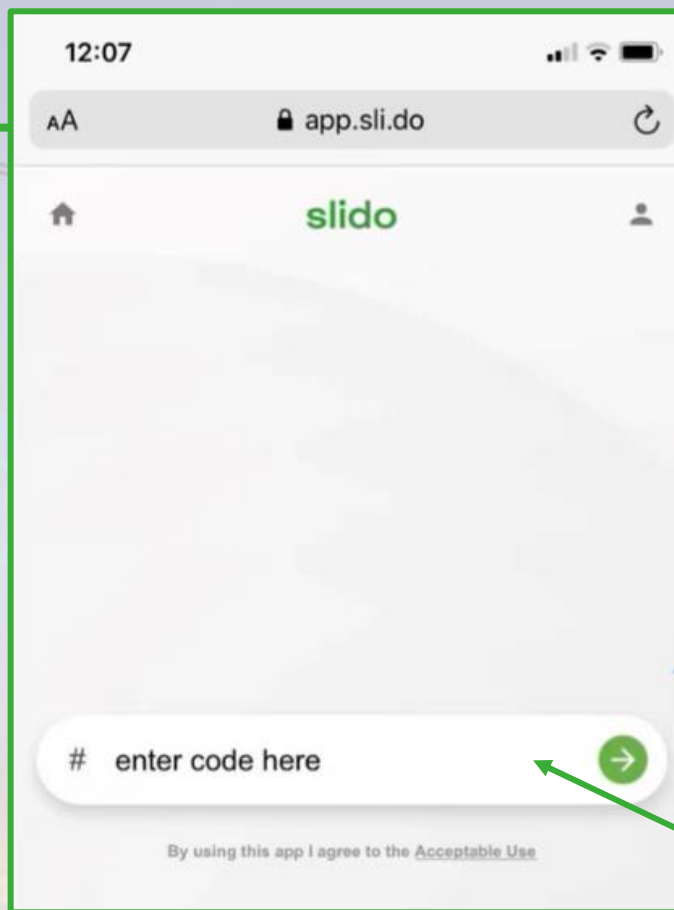
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VO12IW2

Warning:

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permitted**

Questions in the Teams chat will not be answered.
Please only Submit all questions via Slido.



U.S. DEPARTMENT
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Office of
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Grid Innovations Facility and Testing Voucher Opportunity (VO-12) Office Hours

Applied Grid Transformation Solutions Program

Septemeber 2026

Objective



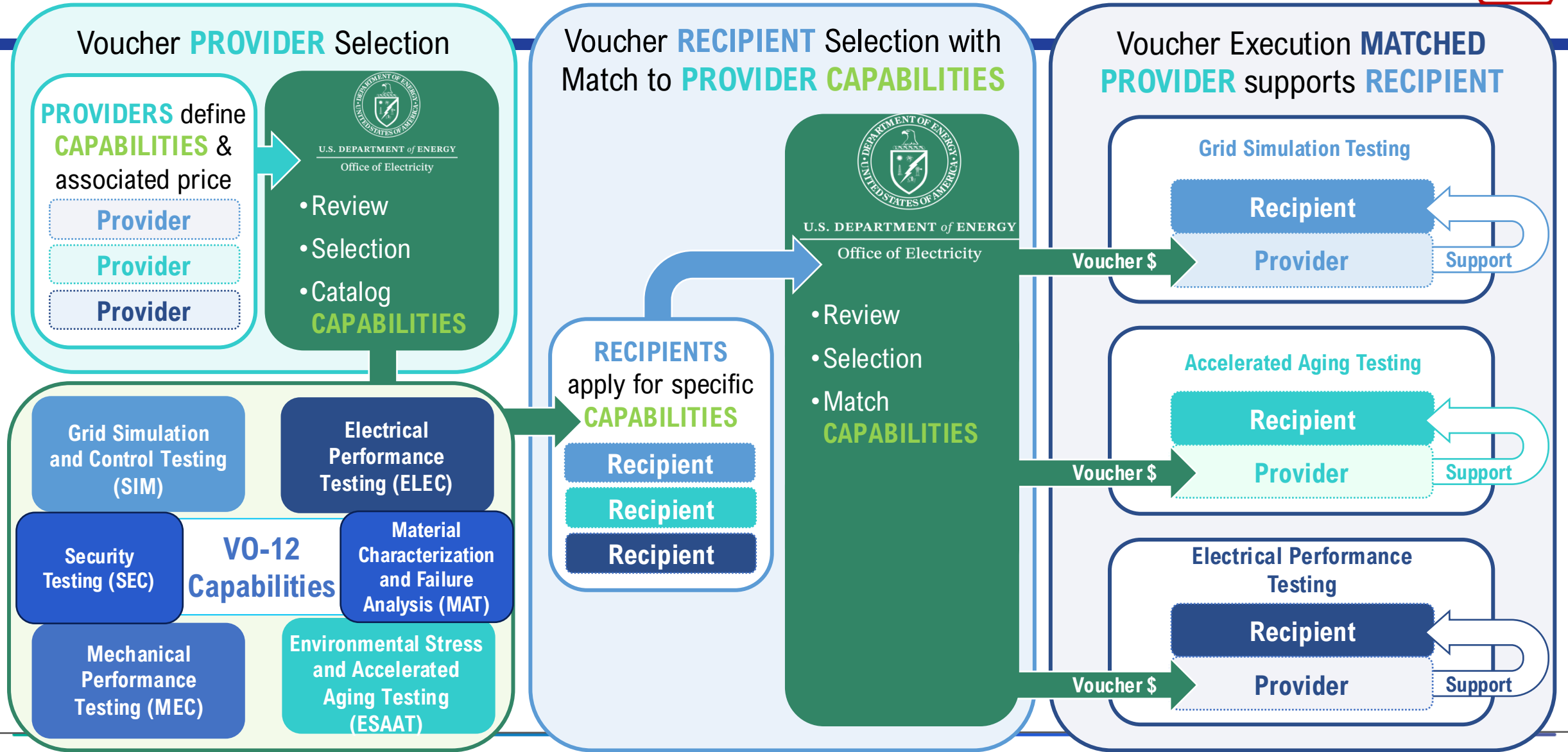
The Grid Innovations Facility and Testing Voucher Opportunity (VO-12) aims to increase the technical readiness and commercialization potential of innovative grid technologies by connecting U.S. small businesses, innovators, and entrepreneurs to testing facilities and providing targeted support to test, validate, and evaluate technologies that improve the reliability, resilience, security, and affordability of the Nation's electricity delivery infrastructure.



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VO12: Grid Technology Testing Network Process



VO-12 Scope



Transmission and Distribution
(T&D) Systems Technologies

Testing & Evaluation

Technology Readiness Levels 6-8

Testing Activities

Example Technologies

- Power electronics converters
 - Solid State Transformers
 - Advanced transformers
- Advanced cables and conductors
- Advanced Power Flow Control Devices
- Medium-Voltage Direct Current Devices
 - Grid Automation and AI Applications
- Virtualization of Substation Protection and Controls

Energy Storage technologies are not eligible for this voucher opportunity.



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VO-12 Scope



Transmission and Distribution (T&D) Systems Technologies

Testing & Evaluation

Technology Readiness Levels 6-8

Testing Activities

- Capabilities must involve physical testing in a purpose-built laboratory environment and may include modeling, simulation, analysis, or other software services if paired with an eligible physical testing service.

Capability Sub-categories

- | | | |
|---|--|---|
| • Power Hardware-in-the-Loop (PHIL) Testing | • Interruption Testing | • Environmental Chamber Testing |
| • Controller Hardware-in-the-Loop (CHIL) Testing | • Arc Flash and Fault Simulation Testing | • Salt Fog and Corrosion Testing |
| • Operational Technology / Real-time operations Testing | • Partial Discharge and Dissipation Factor Testing | • Thermal Cycling and Temperature Rise Testing |
| • Power Electronics & PFC Device Specialized Testing | • Overload and Continuous Current Testing | • Wildfire Resilience |
| • Protection and Control System, Substation Automation Testing (including interoperability) | • Power Quality and Transient Evaluation | • Information Technology and Cyber Security Testing |
| • Microgrid and Islanding Mode Testing | • Accuracy and Dynamic Range of Sensors | • Physical Security Testing |
| • Grid Integration Testing | • Electromagnetic Compatibility (EMC) and Immunity Testing | • Materials Characterization and Analysis |
| • High Voltage Dielectric Testing | • Mechanical Strength and Structural Integrity | • Failure Investigation |
| • Short Circuit and Fault | • Vibration and Seismic Testing | |



VO-12 Scope



Transmission and Distribution
(T&D) Systems Technologies

Testing & Evaluation

Technology Readiness Levels 6-8

Testing Activities

TRL 1

- Basic principles observed and reported

TRL 2

- Technology concept and/or application formulated

TRL 3

- Analytical and experimental critical function and/or characteristic proof of concept

TRL 4

- Component and/or system validation in laboratory environment

TRL 5

- Laboratory scale, similar system validation in relevant environment

TRL 6

- Engineering/pilot-scale, similar (prototypical) system validation in relevant environment

TRL 7

- Full-scale, similar (prototypical) system demonstrated in relevant environment

TRL 8

- Actual system completed and qualified through test and demonstration

TRL 9

- Actual system operated over the full range of expected mission conditions



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VO-12 Scope



Transmission and Distribution
(T&D) Systems Technologies

Testing & Evaluation

Technology Readiness Levels 6-8

Testing Activities

- Activities should be completed in less than one year of work from start of the contract.
- Activities should be scoped to \$50k - \$250k.
- Voucher cost and duration should include time needed to complete the four milestones.
- Voucher funds cannot be used to establish new testing capabilities or significantly modify existing capabilities.
- Activities should not include manufacturing for commercial production.

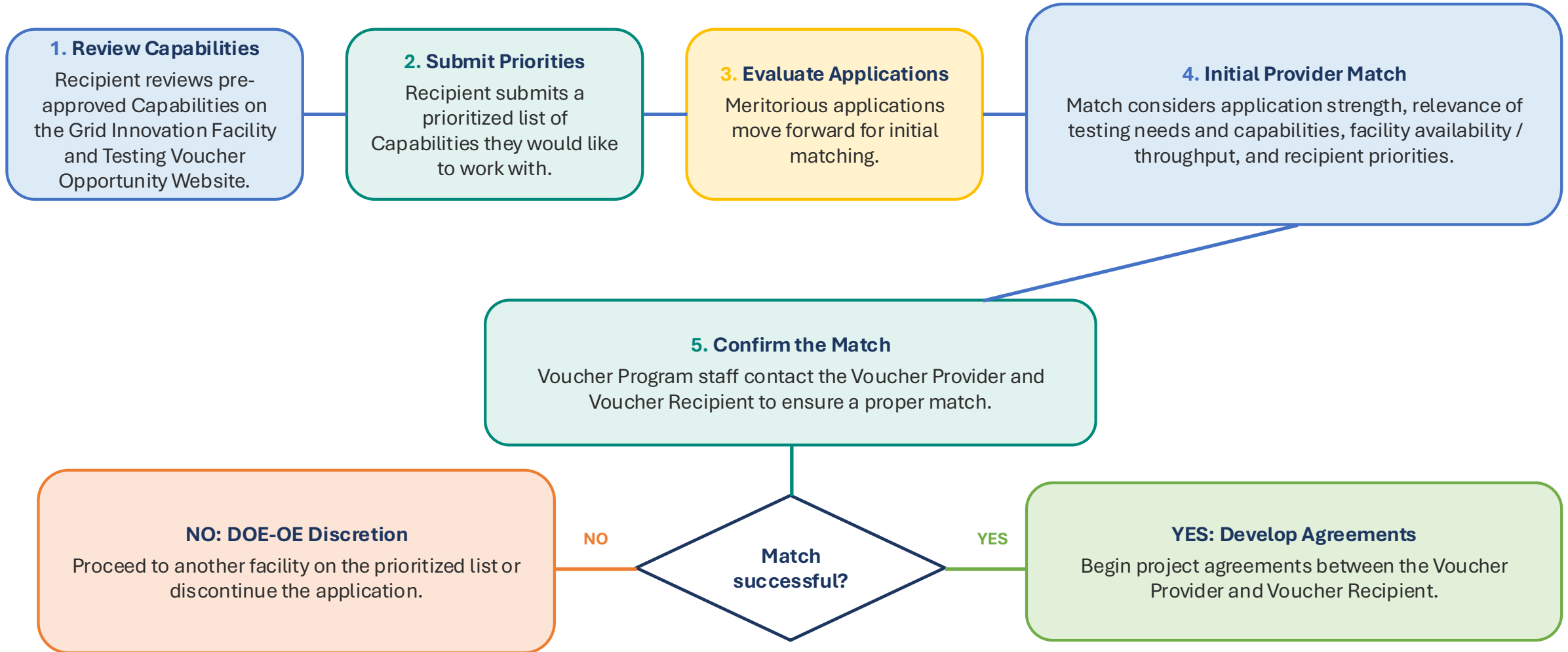


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Frequently Asked Questions (FAQs)

How is matchmaking conducted?



What project agreements are needed?



The project agreements depend on the type of Voucher Provider on the project. The following table describes the possible avenues.

	DOE National Labs	Private Labs and Universities	Federal Labs (FFRDCs)
Engaging with the Voucher Provider	DOE-OE establishes an Annual Operating Plan (AOP) with the National Lab.	EnergyWerx establishes a Business-to-Business (B2B) agreement with the Provider.	DOE-OE establishes an Interagency Agreement (IAA) with the federal lab.
Engaging with the Voucher Recipient	The Recipient acts as a project partner on the AOP and establishes a Co-operative Research and Development Agreement (CRADA) with the lab.	EnergyWerx establishes a Memorandum of Understanding (MOU) that documents the expected nature of engagement between the parties.	The agreement mechanism with the Voucher Recipient will depend on the preferences of the federal agency.



How and when will the Voucher Providers be funded/invoiced?

- All projects must complete the requisite milestones to receive funding. The method and timing of funding depend on the project agreement and Voucher Provider type. If the Voucher Provider is a National Laboratory, DOE-OE will disburse funding based on the conventional annual operating plan process. If the Provider is a federal lab, DOE-OE will disburse funding based on the Interagency Agreement Process.
- If the Provider is a private or university lab with a Business-to-Business agreement with EnergyWerx, the project will be funded on an invoice-basis. Each milestone must be completed and approved by DOE-OE prior to submitting an invoice. The projects will receive 25% of the project cost from each invoice, unless otherwise specified in the Business-to-Business agreement and approved by DOE-OE.



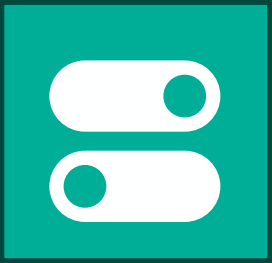
Other FAQs



- **Q: Can Providers get matched more than once?**
 - A: Yes, depending on the throughput of the Provider, they could be matched with multiple recipients.
- **Q: As a National Lab we have many facility and capabilities we would like to provide. Is the expectation we submit an application for each or one for our lab?**
 - A: One application should be submitted for each capability, so a lab could have multiple submissions.
- **Q: How many applications can a Provider submit?**
 - A: Providers should submit one application per capability. Providers can submit a max of 5 applications (5 capabilities).
- **Q: Can Recipient select the Provider for their testing? How are you matching those?**
 - A: During the Recipient application you will have access to the capability catalog where you can review the capabilities and determine which would be the best fit for your organization. When you submit your application, you can submit up to 3 requests for provider capability matches.



Grid Innovations Facility and Testing (VO-12) Summary



Connecting U.S. small businesses, innovators, and entrepreneurs to testing facilities and providing targeted support to test, validate, and evaluate technologies that improve the reliability, resilience, security, and affordability of the Nation’s electricity delivery infrastructure.



PROVIDERS:

- National labs
- Private labs
- University labs
- Federal labs
- Non-Profit Labs
- Testing Centers

RECEPIENTS:

- Vendors
- Technology Developers
- Manufacturers

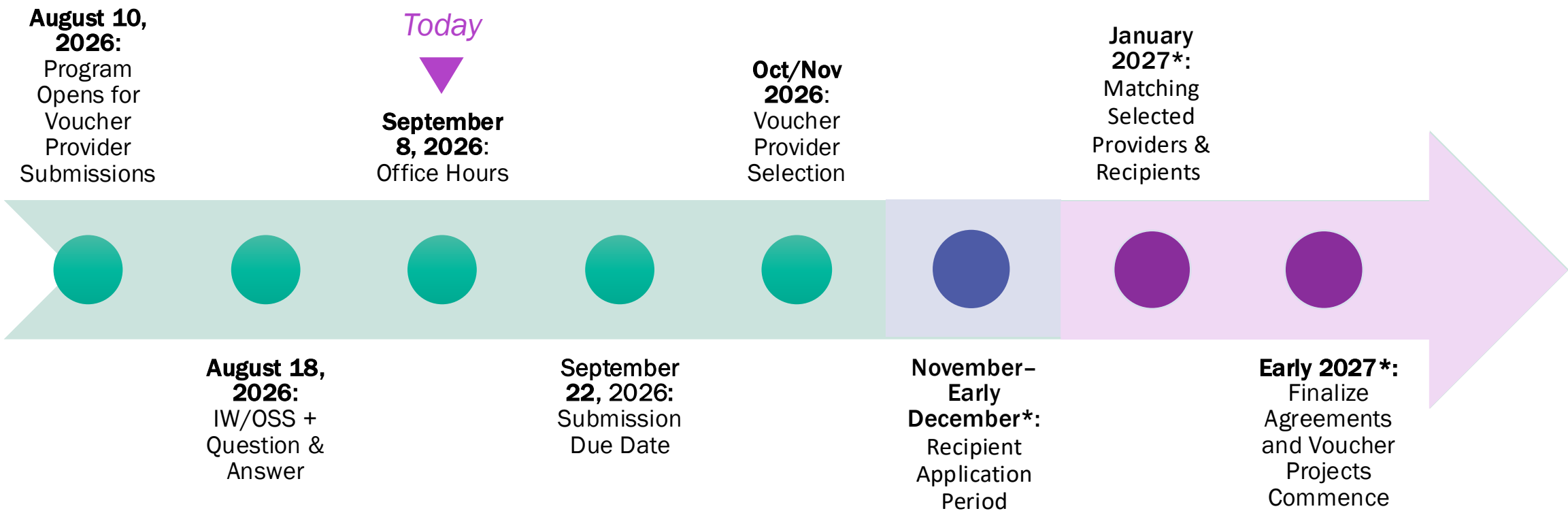


Voucher value range*:
\$50,000 - \$250,000

Estimated number of vouchers:
16-20

*This is a DOE estimate; actual voucher values will be based on the capability submissions in the provider application.

Voucher Provider Timeline



*expected timeframe, subject to change



Voucher Provider Submission



1. Submittable Form includes:

- Provider Capability overview
- Value of the Capability being provided
 - *Note: ENWX will directly reimburse the voucher provider for the work they have completed on behalf of the voucher recipients.*

2. Sample Work Product (optional)



Goal: Demonstrate you have a specific, cost effective, and relevant capability that voucher recipients need for advancement



Thank you for attending the

Voucher Opportunity 12 – Grid Innovations Facility and Testing (Providers) Informational Webinar 2



- This recording, transcript, and FAQ will be uploaded to the ENERGYWERX website
- If you have any additional questions, please email info@energywerx.org



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Questions & Answer Session

Submit questions after the webinar to info@energywerx.org

Back Up Slides

VO-12 Milestones

- Projects have 1 year from the contract start to complete work
- Voucher providers are responsible for submitting four standardized milestones to receive funding (templates will be provided and can be found on the [VO-12 | Open Energy Information](#) webpage)

List of Project Agreements

Agreement Name	Purpose Description	Date Completed (MM/DD/YYYY)	Expiration Date (If applicable) (MM/DD/YYYY)
Create one row for each agreement.	Provide a brief description of the agreement purpose and covered activities.		
Ex. Cooperative Research and Development Agreements (CRADA).			
Ex. Site access paperwork.			
Ex. Non-disclosure agreement (NDA).			

Comments or Concerns

Please use this section to describe any challenges or risks that may affect project scope or schedule related to these agreements. If risks are described, please describe any risk mitigation measures. Use this section to describe any other comments that the VO-12 point of contact should be aware of. If there are no risks or comments, please state "No identified risks or comments at this time."

Signatures

Voucher Provider Signature _____ Voucher Recipient Signature _____

Voucher Provider Name (Print) _____ Voucher Recipient Name (Print) _____

Date _____ Date _____

VO-12
Voucher Opportunity
Milestone 2: Test Plan

Project Name

Voucher Provider (Test Facility)
Test Facility Name: Facility Name
Point of Contact Name: POC Name
Point of Contact Email: POC Email

Voucher Recipient (Technology Developer)
Recipient Organization Name: Organization Name
Point of Contact Name: POC Name
Point of Contact Email: POC Email

Submit to: VO-12 Point of Contact Name

VO-12

Milestone 3: Testing Progress Update Presentation

Project Name

Provider (Test Facility)
Name: Name
Contact Name: Name
Contact Email: Email

Voucher Recipient (Technology Developer)
Recipient Organization Name: Recipient Organization Name
Point of Contact Name: Point of Contact Name
Point of Contact Email: Point of Contact Email

Date: MM/DD/YYYY
Submit to: HyTN Point of Contact Name



VO-12

Title

- Milestone 1
- Memorandum of Agreement verification
- Milestone 2
- Test plan describing the scope and schedule
- Milestone 3
- Testing progress update presentation
- Milestone 4
- Project Summary Report



Submittable Form

General Information

Main Point of Contact Name *

First Name

Last Name

Organization Address *

Country

Select...

Address

Address Line 2 (optional)

City

State, Province, or Region

Zip or Postal Code

Organization Website

example.com

Location of Activity is same as Organization Address *

☒ Yes

☐ No

Do you have a UEI? *

☒ Yes

☐ In Process

Unique Entity Identifier (UEI) *

Limit: 12 characters

To learn more about the UEI, please visit [SAM.gov | Home](#)

General information about the entity including points of contact and applicable identifiers

Capability Details

Applicable technology area: *

☒ Advanced Nuclear

☐ Carbon Management (including carbon capture and direct air capture)

☐ Long-duration energy storage

☐ Clean Hydrogen

☐ Industrial decarbonization

☐ Advanced materials

☐ Building efficiency

☐ Geothermal

☐ Solar

☐ Water

☐ Bioenergy

☐ Vehicle technologies

Voucher Opportunity relevant to company's capabilities (Select only one) *

Voucher Opportunity 1 - Pre-Demonstration Commercialization Support (OCED/EERE)

A separate form must be submitted for each Voucher Opportunity if applying to become a provider for more than one Voucher Opportunity

How many capabilities are you submitting? *

☐ One

☒ Two

☐ Three

Capability 1 Title *

Limit: 20 words

Capability 1 Budget *

\$ USD

Please provide the total price for the service you will provide. These agreements will be treated as a firm-fixed-price contracts - do not break down the price by cost category. The price you are providing here must be reasonable and consistent with what your entity charges for similar services to an average client in your normal course of business. It is expected that you will complete the agreed work and complete the agreed milestones before being paid by ENERGYWERX. ENERGYWERX will not adjust the price after the agreement is finalized based on increased costs being incurred for the completion of the work.

Specific questions on technology/voucher areas of interest and high-level capability(ies) details -- ensure consistency between form and Provider Capability Overview

Entity Classification

The organization is: (Please select all that apply) *

☐ Minority owned (at least 51%)

☐ Women owned (at least 51%)

☐ Veteran owned (at least 51%)

☐ Small Business Administration-qualified HUBZone business or Section 8(a) Business Development program participant

☐ A Domestic Entity

☐ None of the above

Note: *Minority owned business* is defined as a business of which not less than 51% is owned by one or more individuals who are: (A) citizens of the U.S.; and (B) Asian American, Native Hawaiian, Pacific Islander, African American, Hispanic, Puerto Rican, Native American, or Alaska Native.

Note: *To qualify as a domestic entity*, the entity must be organized, chartered or incorporated (or otherwise formed) under the laws of a particular state or territory of the United States; have majority domestic ownership and control; and have a physical place of business in the United States

Have you previously received funding/support from DOE? *

☐ Yes

☐ No

Do you have any pending funding/support from DOE to disclose? *

☐ Yes

☐ No

Certifications

* DOE reserves the right to require additional or clarifying information regarding the application submissions, the capability overview, the team, and any other matters related to the anticipated funding. Applicants selected for negotiation will be required to agree to standard DOE funding legal terms and conditions.

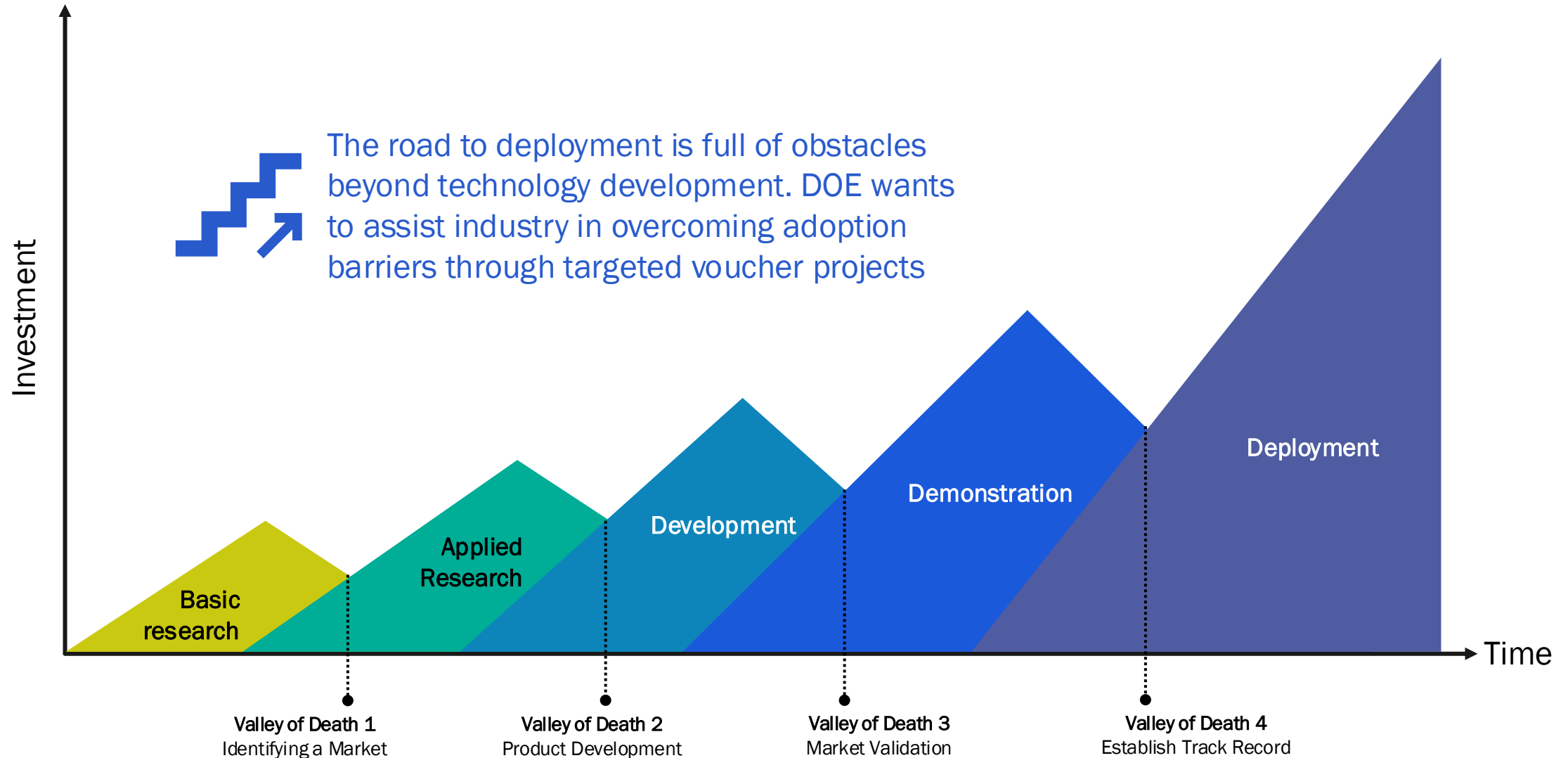
* I certify that the named applicant is not owned by, controlled by, or subject to the jurisdiction or direction of a government of a Country

Classification of entity, including minority/women/veteran owned, domestic entity, etc. and certifications



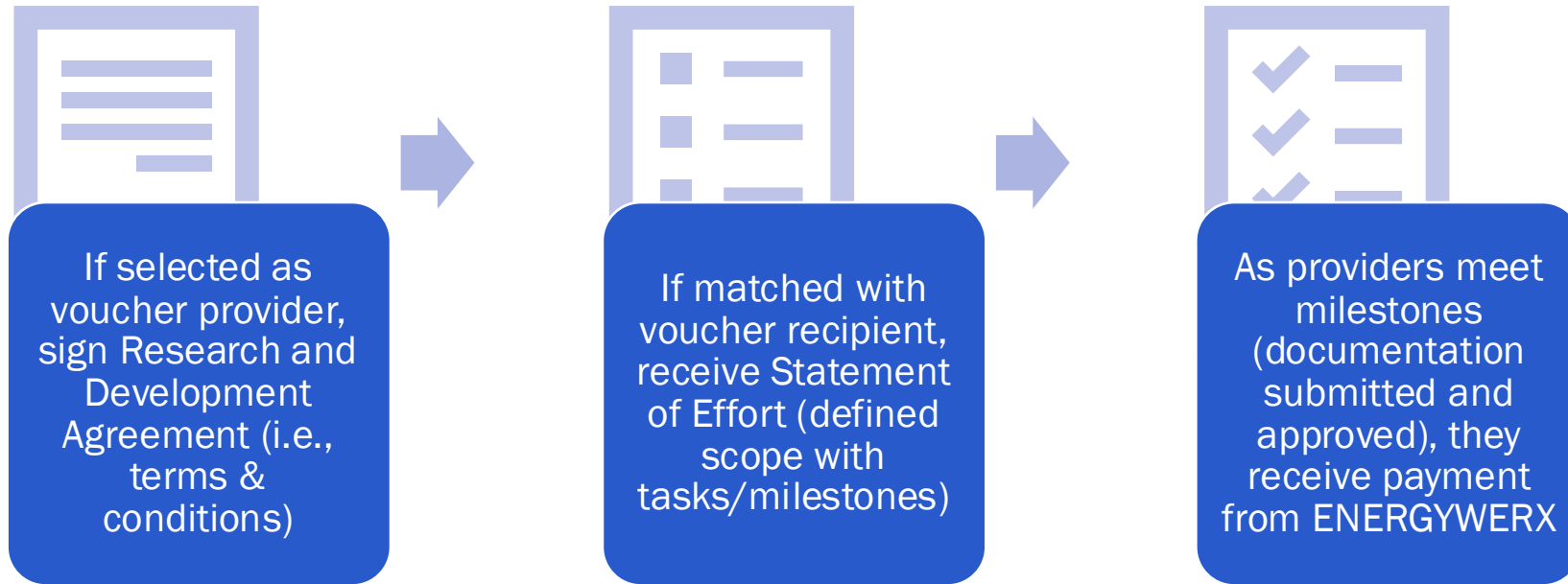


Driving towards deployment



Funding Mechanism

Non-Lab Voucher Providers



National Lab Voucher Providers

If selected as voucher provider and matched with voucher recipient, DOE will add scope and funding to existing contract.

Sample work products (optional)

- Voucher provider submitters have opportunity to attach up to 3 sample work products to showcase their capabilities and quality.
- Sample work products should be similar to the products detailed in the capability one pager(s) and be relevant to the potential voucher recipients who may seek that support.
- Example products include:
 - final assessment reports for clients who are similar to potential voucher recipients
 - validation test reports or certification documentation
 - presentations produced to help jurisdictions with permitting
- Submitters should be sure to not include or redact any business sensitive or proprietary information.