

Welcome to the Voucher Opportunity 12 – Grid Innovations Facility and Testing (Providers) Informational Webinar 1

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**No .ai bots
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AI bots will not be allowed in meetings and will be removed
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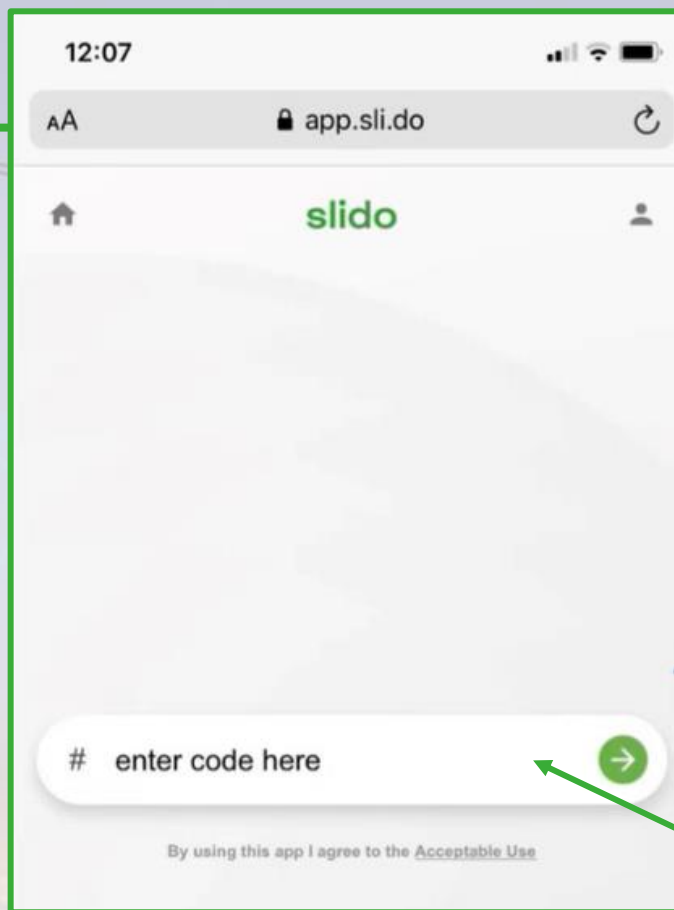
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of **ENERGY**

Office of
Electricity

Grid Innovations Facility and Testing Voucher Opportunity (VO-12)

Applied Grid Transformation Solutions Program

August 2026

DOE Office of Electricity

Mission

To stabilize, optimize, and grow the electricity system to ensure the grid delivers affordable, reliable, and secure energy to the American people.

Vision

A seamless electricity system, capable of meeting all energy demands, powering the U.S. on a pathway of prosperity, national security, and energy dominance.



Scan to learn more about OE



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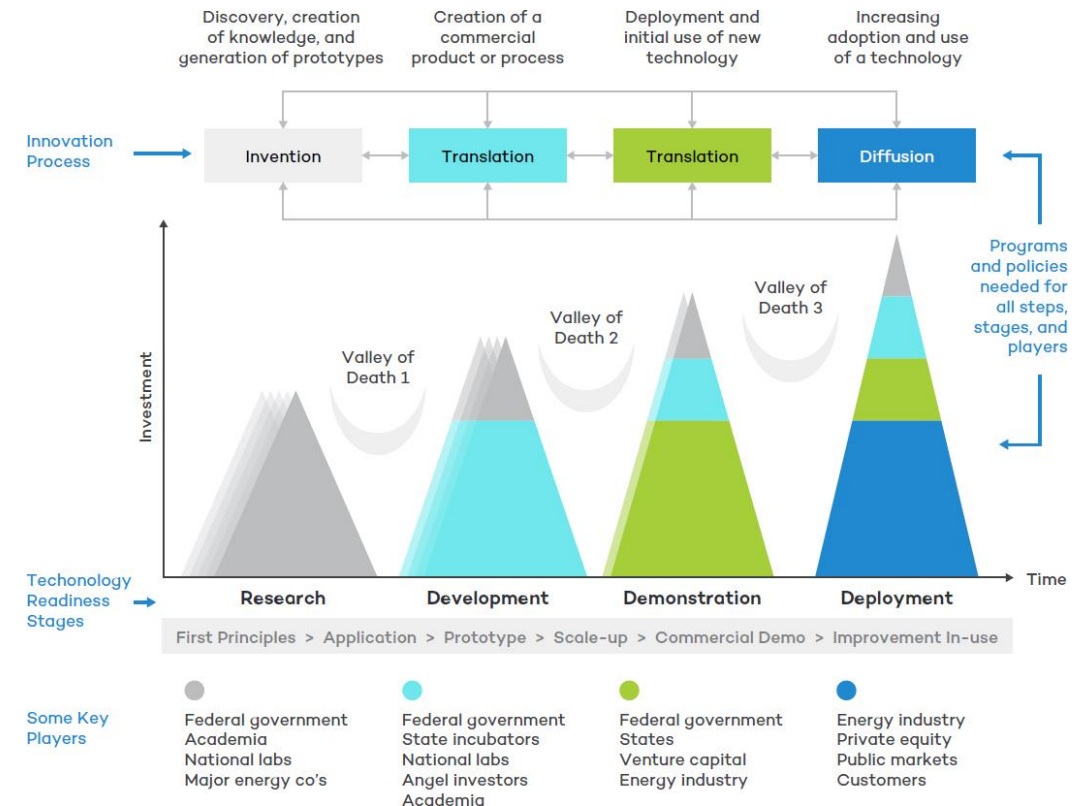
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AGTS Program Structure

Challenge: The speed and diversity of technological innovations integrating into a complex system with risk-adverse institutions slows grid transformation.

Mission: Accelerating grid innovations to impact.

- Transformation Toolkit
 - Develop tools, resources, and programs to empower grid stakeholders with actionable information.
- Testbed Network
 - Identify and assemble grid testbed facilities, capabilities, and resources across the U.S. to test, stress test, validate, and evaluate advanced grid technologies.
- Strategic Pilots and Evaluation
 - Assess pilot demonstrations that fill strategic knowledge gaps, integrate innovations into operational environments, and systematically document project results to inform scaling, replication, and/or extension.



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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Voucher Program Mechanism

Voucher Mechanism



Voucher Opportunity

The voucher opportunity defines objectives and scope of voucher projects (eligible voucher providers and recipients, total funding level, expected max funding per voucher, etc.)



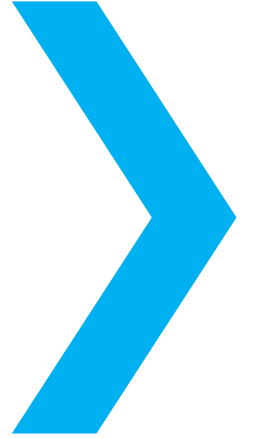
Selection & Matchmaking

ENERGYWERX coordinates process to select voucher providers/recipients, facilitates matching for voucher projects, and manages agreements with non-National Lab voucher providers to execute voucher projects.



Voucher Project

Voucher providers execute according to their agreement, provide support to voucher recipient(s), and report back to DOE on project activities, outputs, and outcomes.



Providers vs Recipients

Testing Facilities / **Voucher Providers**

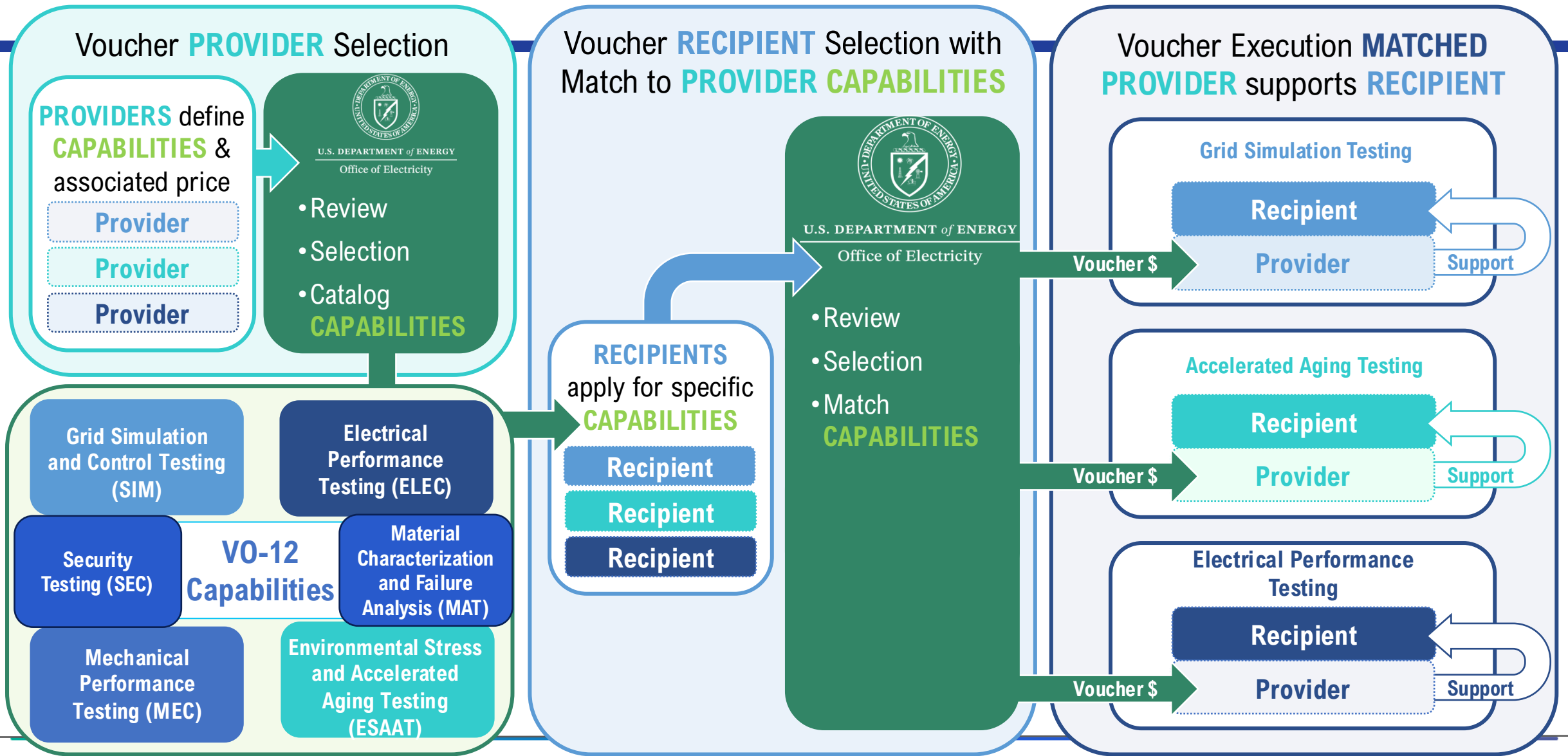
U.S.-based national, federal, private, or university labs with one or more testing capabilities directly relevant to electric power transmission or distribution.

Technology Developers / **Voucher Recipients**

U.S.-based for-profit companies, non-profit research organizations, or academic institutions developing an electric grid technology.



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 Capabilities

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.



Voucher 12 Opportunity Details

Voucher Opportunity 12- Grid Innovations Facility and Testing (VO-12)



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.

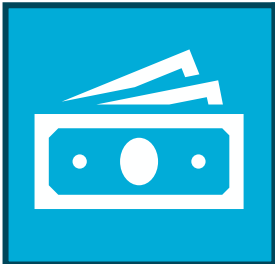


PROVIDERS:

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

RECEPIENTS:

- Vendors
- Technology Developers
- Manufacturers



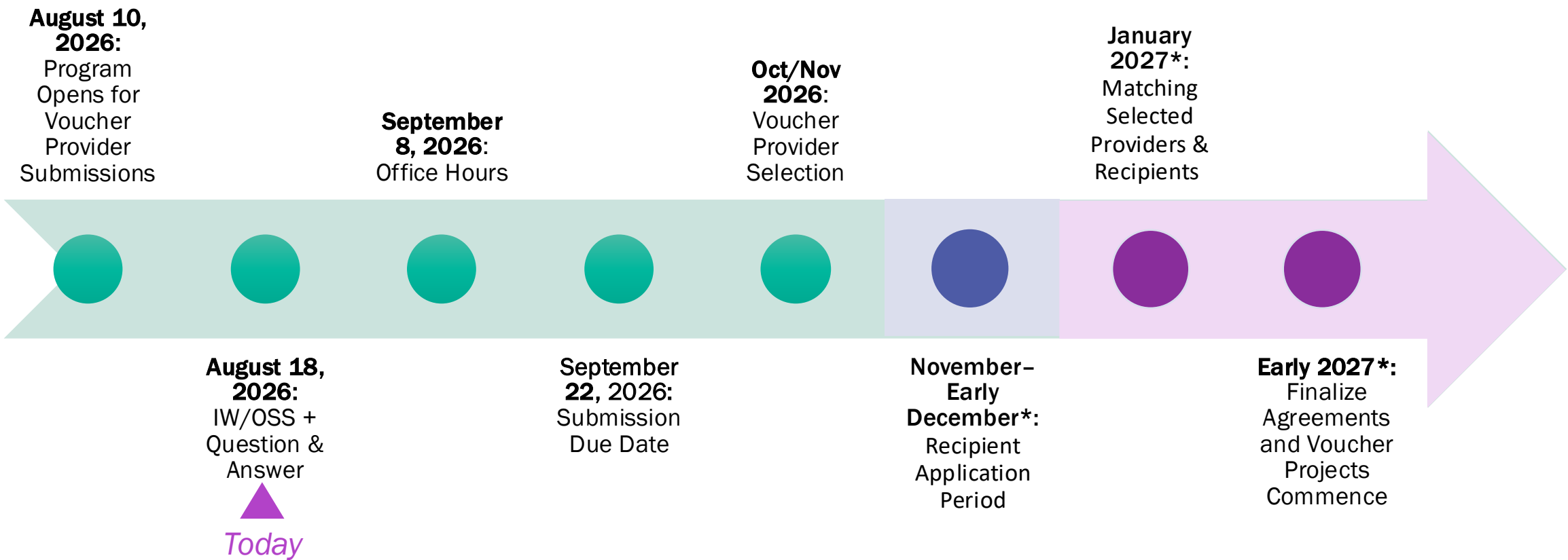
Voucher value range*:
\$50,000 - \$250,000

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.

Timeline & Logistics

Voucher Provider Timeline



*expected timeframe, subject to change



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

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

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



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



Submission should showcase:



Relevance

- The support you offer is relevant to the voucher opportunity you are applying to.



Specificity

- Your capability overview is clear, specific, and includes milestones and timeline. Articulate what you will do, when, how, and what voucher recipients should expect after working with you. The capability overview is your marketing material to attract voucher recipients.



Direct, demonstrable experience and expertise

- Show you have clear expertise and experience in the technology area you are applying to. Showcase similar work you have done in the past, any equipment or capability you have, access to any relevant facility, etc.



Price competitiveness

- Your price is reasonable and competitive.



Thank you for attending the

Voucher Opportunity 12 – Grid Innovations Facility and Testing (Providers) Informational Webinar 1



- This recording, transcript, and FAQ will be uploaded to the ENERGYWERX website
- If you have any additional questions, please email info@energywerx.org
- [September 8, 2026 VO12 Provider Webinar](#)



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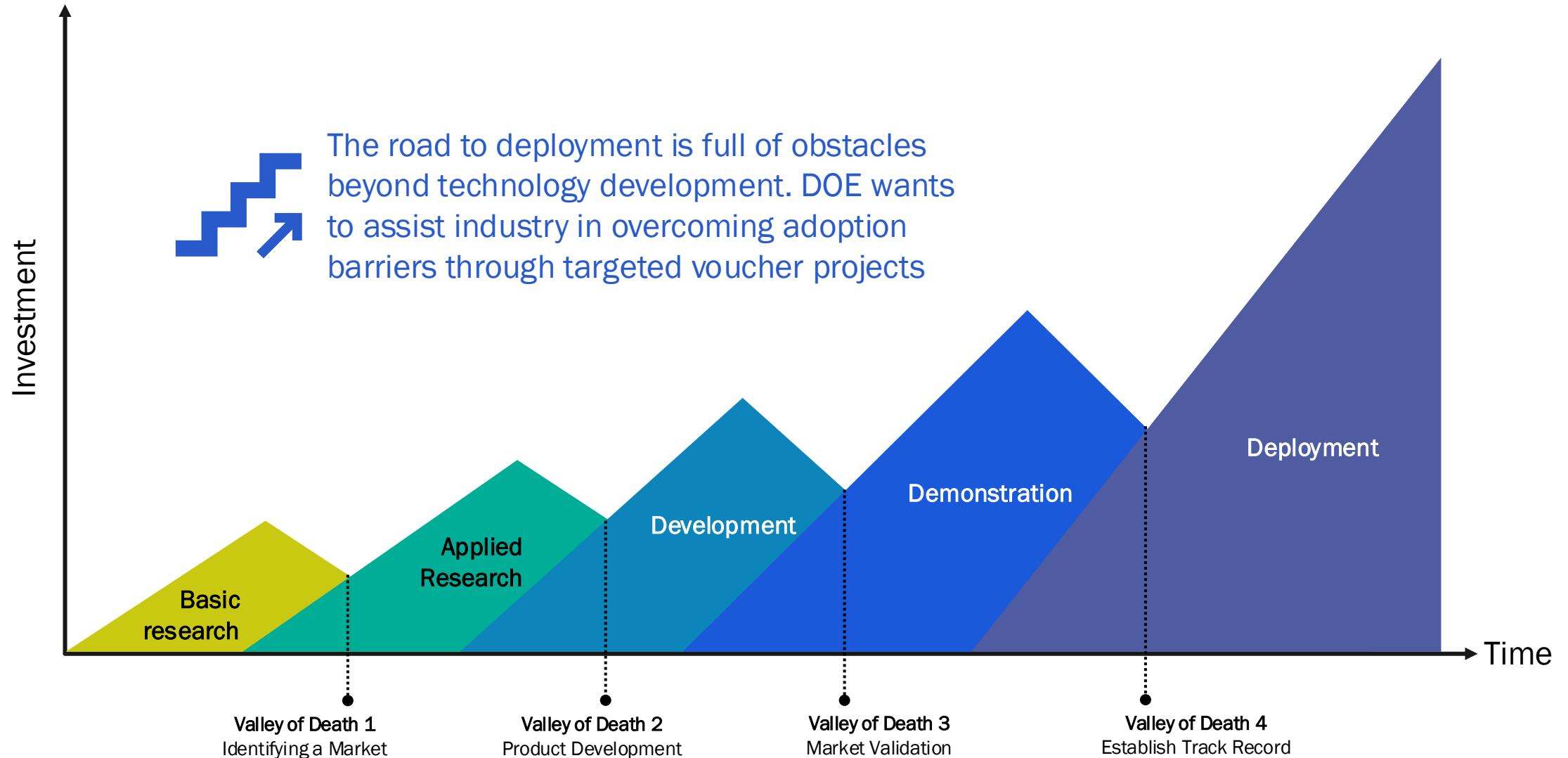
Questions & Answer Session

Submit questions after the webinar to info@energywerx.org

Back Up Slides

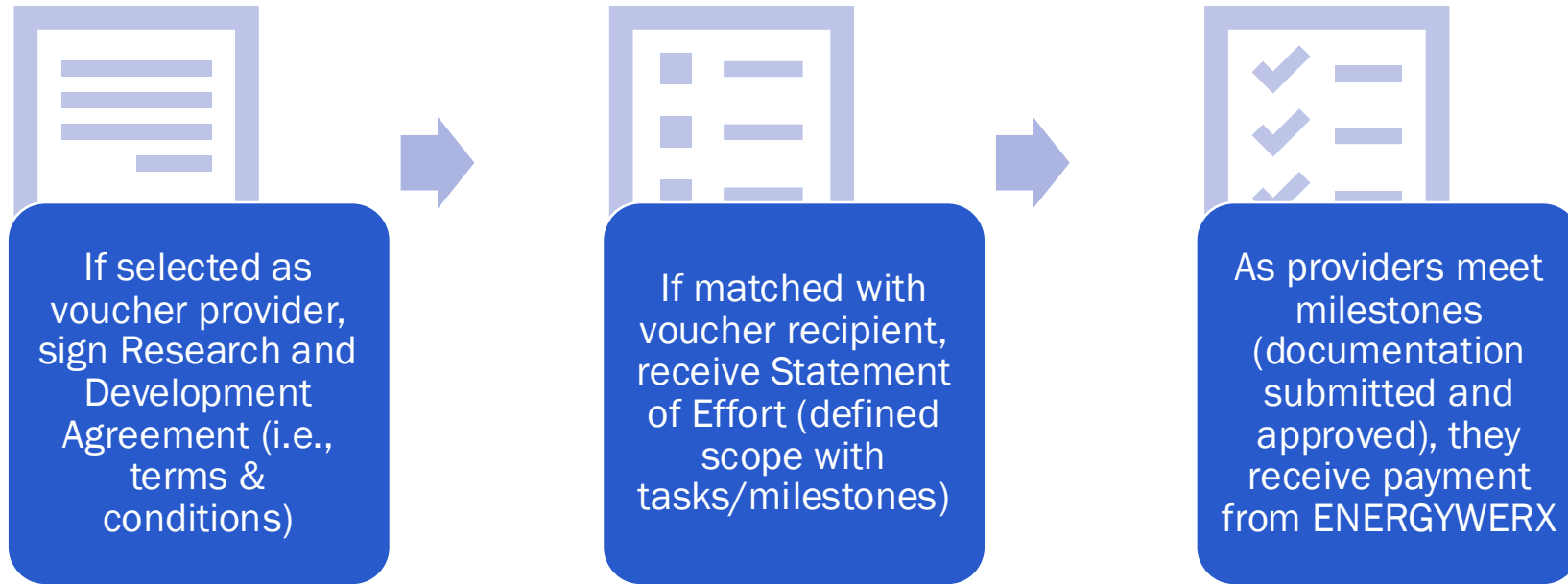


Driving towards deployment



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.

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

