

# Welcome to the Voucher 11: iCRS-T Recipient Informational Webinar 2

THIS WEBINAR IS RECORDED AND WILL BE PUBLISHED ONLINE

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AI bots will not be allowed in meetings and will be removed  
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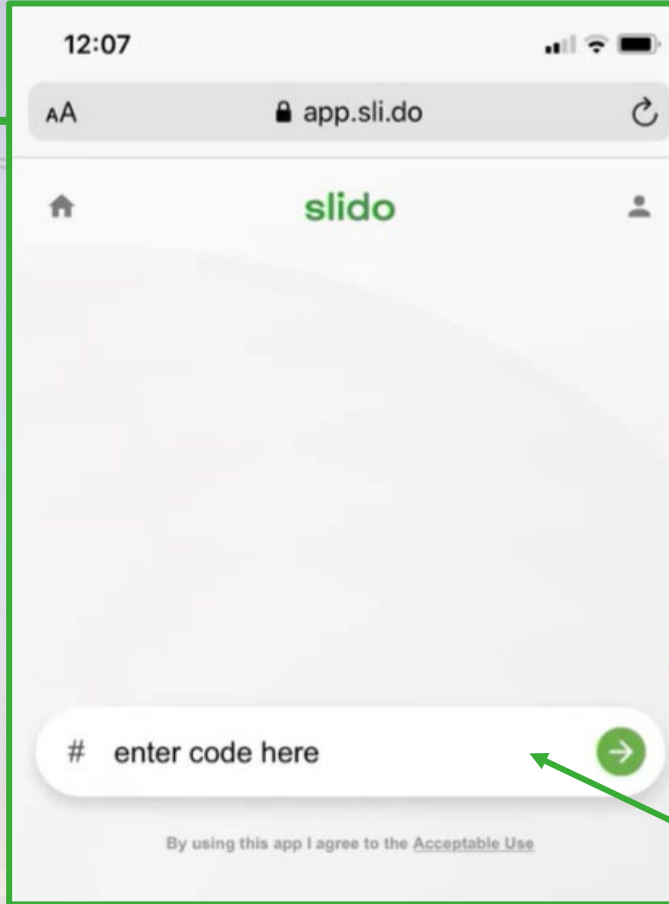
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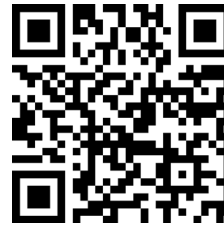
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**# iCRSTIW2**

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**Please only Submit all questions via Slido.**



**INTERCONNECTION  
INNOVATION e-XCHANGE**  
U.S. DEPARTMENT OF ENERGY

## Interconnection Cost Reduction Solutions – Transmission (iCRS-T)

*Informational Webinar/Objective Strategic Session*

06/04/2026

A DOE initiative spearheaded by the Integrated Energy Systems Office

**Disclaimer:** The information presented in this webinar is not intended to amend, modify or substitute public details provided online.

Information presented in this webinar should be used in conjunction with details at [www.energy.gov/i2x](http://www.energy.gov/i2x)



# Agenda

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- i2X Overview (5 min)
- iCRS-T Funding Program (25 min)
  - Overview
  - Eligibility
  - Application Materials
  - Review & Selection Criteria
  - Timeline
- Open Q&A (15 min)

Please use Slido feature to ask questions this opportunity



# Interconnection Innovation e-Xchange (i2X)

**Mission:** To enable a **simple, fast, and affordable** interconnection while enhancing the **reliability and security** of our electric grid.



**Strategic Solutions**



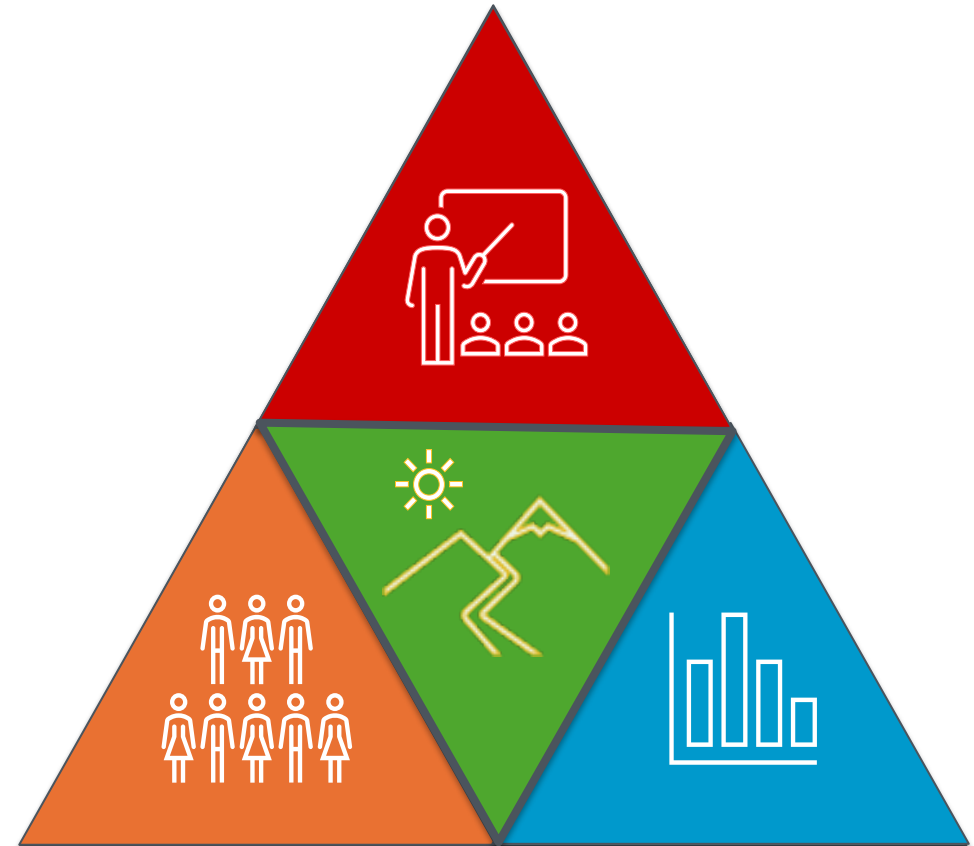
**Stakeholder Engagement**



**Data & Analytics**



**Research & Innovation**



# i2X is a collaboration among DOE offices and labs

One DOE team in collaboration with five national labs united by a shared vision for a simple, fast, and affordable interconnection



Jian Fu



Paul Spitsen



Ammar Qusaibaty



Cindy Bothwell



Andrew Torma



Spencer Doyle



Bret Barker



Office of  
Cybersecurity, Energy Security,  
and Emergency Response



# i2X 2025 Activity Highlights

## Strategic IX Solutions

- 60+ real-world solutions for transmission and distribution grid around 4 goals:
  - Increase Data Access and Transparency,
  - Improve Process and Timing
  - Promote Economic Efficiency in Interconnection
  - Maintain a Reliable, Resilient, and Secure Grid

## Stakeholder Engagement

- i2X Connect – <https://groups.energy.gov/i2XConnect>
- Ten events and presentations (e.g. NASUCA Mid-Year, RE+2025, FERC briefings) to disseminate solutions in our Roadmaps
- Four lab-hosted Solution e-Xchange webinars covering solutions for distributed energy interconnection
- i2X Forum for the Implementation of Reliability Standards for Transmission (i2X FIRST) with 1250 unique participants

## Data & Analytics

- BPS interconnection cost reports for MISO, PJM, NYISO, SPP, and ISO-NE, plus a summary published (LBNL)
- 2025 Queued Up report on BPS interconnection timelines (LBNL)
  - <https://emp.lbl.gov/queues>

## Research & Innovation

- 5 utility projects through the iQMS PIA testing queue management improvements with Sandia + SEPA leading peer-learning and technical guidance for utilities
- Direct Transfer Trip White Paper (Sandia)
- ORNL /ESIG NERC training bootcamps for BPS grid engineers on using Electromagnetic Transient (EMT) modeling methods and techniques



### Program Purpose

This Program will fund experts in bulk electric power system modeling and innovative transmission techniques (Voucher Providers) to provide services to transmission providers (**Voucher Recipients**).

### Total Funding\*

\$4,000,000 to Voucher Providers

**\*NOTE: Funding will directly reimburse Voucher Providers for work they complete on behalf of Voucher Recipients**

[energy.gov/i2x](https://energy.gov/i2x)

## Voucher Opportunity 11 - i2X Interconnection Cost Reduction Solutions for Transmission (iCRS-T) (Recipients)

### Information

#### Description

The U.S. Department of Energy's (DOE) [Interconnection Innovation e-Xchange \(i2X\)](#) program is providing industry expertise to transmission owners and operators (transmission providers, Voucher Recipients) to increase their understanding and implementation of advanced interconnection topics with the goal of reducing transmission interconnection costs. Through the Interconnection Cost Reduction Solutions for Transmission (iCRS-T) Voucher Program, these industry experts (Voucher Providers) will assist transmission providers (Voucher Recipients) in modeling advanced transmission technologies and controls that are currently underutilized. These new modeling capabilities can give transmission providers more cost-saving options and either reduce the need for costly network upgrades or provide a faster path for interconnection alongside more extensive transmission upgrades. Additionally, Voucher Providers will train transmission providers in modeling innovative transmission technologies and controls, including incorporating these into electromagnetic transient (EMT) studies.

This Opportunity will open for Voucher Recipient applications on **May 5, 2026**, and applications will be accepted until **June 18, 2026**. This opportunity anticipates having matching completed in the Summer of 2026. DOE reserves the right to request additional information about applications prior to selection, if necessary. To receive reminders for this and future opportunities, [sign up to Join Our Ecosystem](#).

For general information on Voucher Programs see [Vouchers Overview](#).

### [Voucher Opportunity 11 - i2X Interconnection Cost Reduction Solutions for Transmission \(iCRS-T\) \(Recipients\) Jun 18, 2026](#)

*Expected maximum Voucher value will be up to \$250,000 of work. Vouchers will be distributed as in-kind support, meaning that ENERGYWERX will directly reimburse the Voucher Provider for the work they have completed on behalf of the Voucher Recipients.*

## **Who can Apply as Recipients?**

Voucher Recipient Applicant is a U.S.-based public or private firm that provides transmission as planners, owners, or operators to the U.S. bulk power system. Voucher Recipients should be responsible for modeling, maintaining, and upgrading the transmission system and have a need to advance their capabilities to affordably and reliably interconnect additional large loads, generation resources, storage devices, or hybrid combination.

*Please see Eligibility Criteria on the Opportunity website.*

## Voucher Capabilities

**12** expert organizations in bulk electric power system modeling and innovative transmission techniques (Voucher Providers) offering **20+** relevant capabilities – visit the Voucher Capabilities site to see approved list.

<https://www.energywerx.org/vouchers/capabilities>



## Voucher Capabilities

These are available capabilities for VO11 - ICRS-T for the current open submission window from potential Voucher Recipients.

Search by name, capability, voucher number and more

Reset All Filters

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- Arizona Board of Regents on Behalf of Arizona State University
- Black & Veatch
- Electric Power Research Institute, Inc.
- Elevate Energy Consulting
- GERS USA LLC
- GridGPT
- ICF Incorporated, LLC
- Impact Innovations LLC
- Iowa State University
- Paces
- Pitch Aeronautics Inc.
- ZEG LLC

Dynamic Line Rating Screening Study for Transmission Capacity and Interconnection Cost Reduction (Low-Tier Rapid Assessment) ▾

Voucher # VO11-01  
Organization: Impact Innovations LLC

Grid-Enhancing Technology Assessment Using Dynamic Line Rating for Interconnection Cost Reduction (High Tier) ▾

Voucher # VO11-02  
Organization: Impact Innovations LLC

Storage as a Transmission Asset: Accelerating Large Load Interconnection at Lower Cost ▾

Voucher # VO11-03  
Organization: ICF Incorporated, LLC

Workshops and Training for AI-Enabled Advanced Transmission Modeling and Resource Planning Studies ▾

Voucher # VO11-04  
Organization: GridGPT

Relieve congestion with advanced power flow controllers and energy storage ▾

Voucher # VO11-05  
Organization: Black & Veatch

Transmission Interconnection Advanced Modeling Advisory ▾

Voucher # VO11-06  
Organization: Black & Veatch

Advanced Hosting Capacity Evaluation for Load and Generation Interconnection ▾

Voucher # VO11-07  
Organization: Electric Power Research Institute, Inc.

## How?

**Number awardees: 16 to 30** Voucher Provider/Recipient matches; **Funding Level: \$50,000 to \$250,000** (up to 2 years)

**Milestone 1** (pre-modeling) Memorandum verifying that all requisite agreements (e.g., non-disclosure agreements, Co-operative Research and Development Agreement (CRADA's), site access paperwork) between the Voucher Provider and Voucher Recipients are completed and signed by both parties.

**Milestone 2** (pre-modeling) Project plan document describing the scope and schedule for the planned project activities.

**Milestone 3** (~50% in) Project progress update presentation containing a status description of project activities. A virtual meeting may also be requested by program staff.

**Milestone 4** (End of proj.) Submission of a Project Summary report containing project objectives, methods, results, discussion, attachments with relevant data, and anticipated cost reductions that the transmission solutions are expected to achieve.

# Eligibility



Applicant must qualify as a domestic entity. 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. The entity must have majority domestic ownership and control and have a physical place of business in the United States.



Applicant must certify that it is not owned by, controlled by, or subject to the jurisdiction or direction of government of Country of Risk. The U.S. Department of Energy defines Country of Risk to include China, Russia, North Korea, and Iran. This list is subject to change.



DOE retains the prerogative to require additional information from the applicants to verify the applicant meets the eligibility requirements and selection criteria. Applications may be disqualified if the applicant engages with the iCRS-T Program in a manner that is indecent, obscene, or lacking in professionalism.

# How to apply

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Deadline - June 18, 2026 3:00 pm ET

## Voucher Opportunity 11 - i2X Interconnection Cost Reduction Solutions for Transmission (iCRS-T) (Recipients)

### [Information](#)

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[Voucher Opportunity 11 - i2X Interconnection Cost Reduction Solutions for Transmission \(iCRS-T\) \(Recipients\) Jun 18, 2026](#)

#### Available Funding

DOE will fund 16 to 30 Voucher Provider/Recipient matches with projects expected to last up to two years. The value of each Voucher will depend on the service requested, with the estimated value of in-kind support services per Recipient ranging from \$50,000 to \$250,000. Vouchers will be distributed as in-kind support, meaning that EnergyWerx will directly reimburse the Voucher Provider for the work they have completed on behalf of the Voucher Recipients. However, the exact value depends on the selected capability and is discussed only between DOE and the Provider. Pending availability of funds, additional submission windows may open in the future.

- View the Pre-Approved Voucher Providers: [Click Here to View](#)
- Complete the Recipient Submission Form: [Click Here](#)



# Application Materials

Applicants are required to:

1. Create a Submittable account
2. Provide all required information in the application form, including project description (upload PDF), organization descriptions, selecting and justifying desired Capabilities
3. Submit a completed form online

**\*\*Project Title (required)**

Limit: 20 words

**Project Description (required)**

**Choose File**

Upload a file. No files have been attached yet.

Acceptable file types: .pdf

Provide a detailed description of the services required. Include timeframe required. Describe this organizations current business practice and how the capabilities sought will modify current practice, including how it will reduce cost and process time, if applicable. Attach pdf document (two page max).

**\*\*Project Summary (required)**

Limit: 200 words

Briefly describe the interconnection challenge and the technology needed to achieve cost reductions from the Project Description PDF uploaded above. Include timeframe required.



**Voucher Opportunity 11: Interconnection Cost Reduction Solutions for Transmission (iCRS-T) Recipients**

Ends on Thu, Jun 18, 2026 3:00 PM

Review the available capabilities in the below links. Determine which capabilities would be most valuable and rank them according your your preferences.

Capabilities for iCRS-T that are available for selection can be viewed here: <https://www.energywerx.org/vouchers/capabilities>.

Meritorious applications may only be matched with one capability during a voucher round. DOE might not be able to match you with your desired capability depending on a variety of factors, including but not limited to recipient interest and provider availability. DOE will make an effort to match according to your preferences. Ultimately, if selected, you will have the option to accept or deny the match you receive.

**1st Priority Capability (required)**

**1st Priority - Justification of Need and Catalytic Effects (required)**

Limit: 400 words

Describe why your organization requests this capability and how the capability will improve interconnection and reduce costs. Include justification for why you are ready to receive support. Describe your near-term goals and how the voucher support you request will help you achieve them at an accelerated pace.

**2nd Priority Capability**



# Key information needed for the online application

- Eligibility certification
- Applying organization's name, website, address, points of contact
- Project title, summary and detailed description (PDF)
- Transmission roles
- Data & Models to provide
- Organizational Support
- External Support & Process
- Voucher Provider Capability requested
- Multiple-choice questions about previous or pending DOE funding

I certify that the named applicant is a domestic entity as defined below and is not owned by, controlled by, or subject to the jurisdiction or direction of a government of a Country of Risk and meets the eligibility requirements for this program. I further represent that the information contained in the submission is true and contains no misrepresentations. I understand that any false, fictitious, or fraudulent information, misrepresentations, half-truths, or omissions of any material fact, may subject me to criminal, civil or administrative penalties for fraud, false statements, false claims or otherwise. (18 U.S.C. §§ 1001 and 287, and 31 U.S.C. 3729-3733 and 3801-3812). I further understand and agree that the statements and representations made herein are material to Department of Energy's (DOE) funding decision. *(required)*

Yes  
 No

*Note: To qualify as a domestic entity, the entity must be organized, chartered, or otherwise created under the laws of a particular state or territory of the United States; have majority domestic ownership; and have its principal place of business in the United States.*

Drafts may be visible to the administrators of this program.

First question is certifying eligibility

# Project Description

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Provide a detailed description of the services required.

- Attach pdf document (two page max).
- Describe this organizations current business practice and how the capabilities sought will modify current practice.
- Describe the organizations role as a transmission provider.
- Describe the organizations existing queue volume and challenges.
- Describe internal and external processes necessary to broadly adopt any resulting new business practice.
- Describe organizational contributions to the project which may include staff time, data, models, tools, etc.
- Include how the project will reduce cost. Estimate cost reductions, if possible.
- Include how the project will reduce process time, if applicable.
- Include timeframe required to complete the project.

# Voucher Provider Capabilities

- Voucher Provider Capability generally:
  - Modeling and implementation of applied grid solutions such as dynamic line ratings, alternative transmission technologies, and power flow controllers.
  - EMT modeling and dynamic simulation for large electronic loads, IBRs, and hybrids.
  - Incorporating large loads or advanced transmission technologies in interconnection requirements.
  - Advanced hosting capacity that includes strength or stability analysis.
  - Artificial intelligence supported interconnection studies.
  - Training associated with the above services.
- Complete Voucher Provider Capability [detailed list](#).

## Voucher Capabilities

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Filter by Voucher Opportunity ▾

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Transmission Interconnection Advanced Modeling Advisory ▾

Voucher # VO11-06  
Organization: Black & Veatch

Advanced Hosting Capacity Evaluation for Load and Generation Interconnection ▾

Voucher # VO11-07  
Organization: Electric Power Research Institute, Inc.



# Proposals specifically not of interest

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The following are considered non-responsive and will not be reviewed or funded under this opportunity. Please do not submit.

- Proposals that will not result in reducing interconnection upgrade cost.
- Proposals for general generation and transmission planning or siting.
- Proposals that focus on compliance requirements such as FERC and NERC.
- Proposals not specific to advanced electric-system-modeling on the U.S. bulk power system.
- Proposals that focus on one specific generation source, load type, or solution set.
- Proposals that focus solely on convening stakeholders or conducting research to produce new frameworks, propose new electricity regulations, or compile strategies for improving interconnection practices.
- Proposals that focus solely on distribution-level (please see the Interconnection Cost Reduction Solutions for Distribution, iCRS-D).
- Proposals for products or methods that have not been tested or demonstrated successfully in the bulk power system.



# Merit Review Criteria

## Scope & Feasibility

- Project scope aligns with available Provider capabilities
- The degree to which the application provides an effective explanation of how the selected capabilities will address interconnection challenges and reduce costs.
- Demonstration of a thorough understanding of existing interconnection practices, highlighting limitations and deficiencies.
- Explanation of how interconnection solutions align well with utility, regulatory commission and state priorities.
- Activities are specific and feasible to implement within the proposed timeframe with a commitment of the Recipient to implement cost effective solutions or attend training.

## Project Team and Cooperative Commitment

- The Recipient project team includes key personnel with expertise in transmission interconnection.
- The Recipient project team includes key personnel that can carry out beneficial cost reduction solutions or modify internal processes.
- Clear definition of the roles and responsibilities of each team member.
- Commitment to work cooperatively with the Voucher Provider.
- Commitment to provide necessary models and data to ensure project success.



# Merit Review Criteria

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## Project Impact

- The degree to which the application demonstrates the need for interconnection innovation and represents a notable advancement or innovation compared to existing processes, solutions, or practices typically deployed in industry and specifically deployed by the Recipient.
- The degree to which the application includes current interconnection challenges.
- The degree to which the application will reduce costs over the existing process and practices.
- The degree to which the application demonstrates that queue time will be decreased.
- Commitment to implement cost reduction solution(s), if any, subject to any required regulatory approvals.
- Commitment to collaborating with Voucher Provider to estimate savings resulting from cost reduction solution(s).
- Demonstration of a long-term interconnection process improvements beyond the funding period, if cost reduction solutions are shown to be beneficial.



# Program Goals and Policy Factors

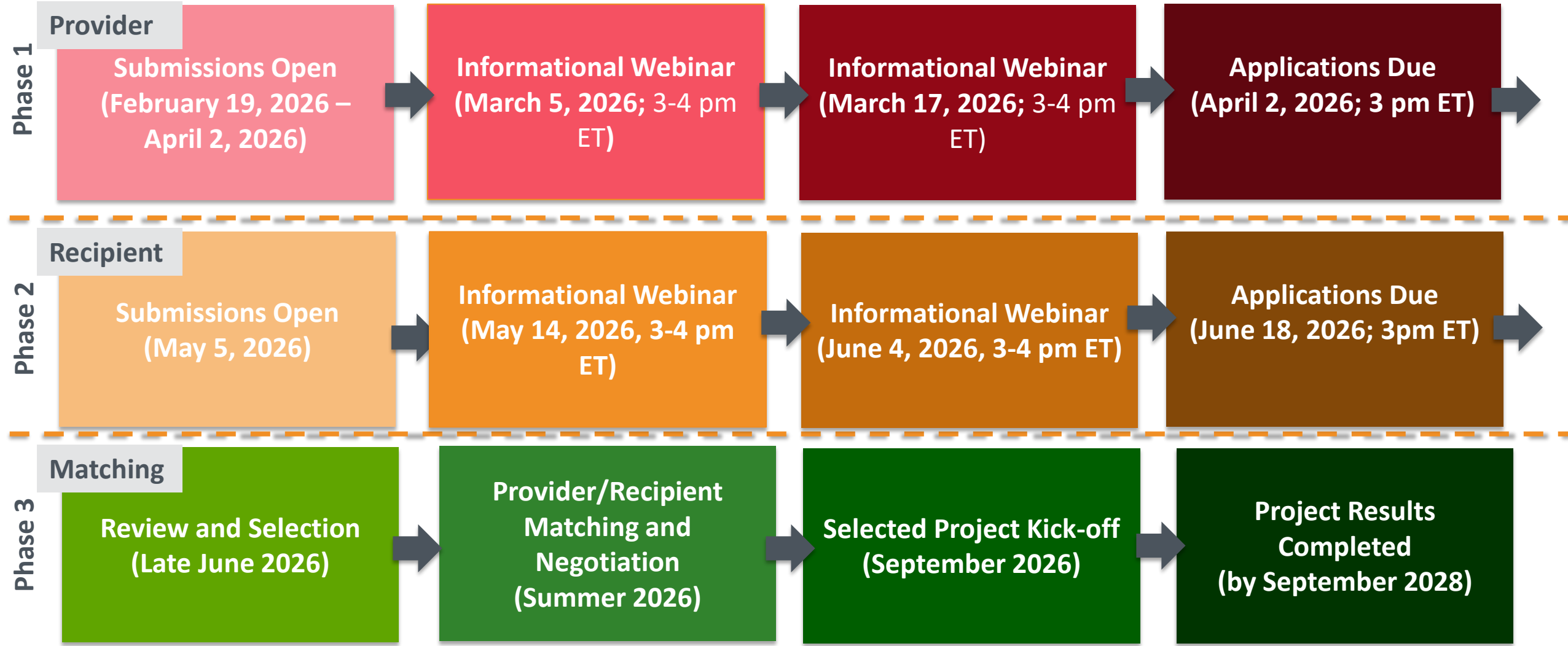
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The following factors may be applied when reviewing and evaluation applications to select the most impactful portfolio of funded projects:

- **Alignment with i2X Program Objectives:** The proposed project strongly aligns with the goals, priorities, and ongoing activities of the Interconnection Innovation e-Xchange (i2X) program.
- **Support for DOE Priorities:** The proposed project advances key DOE energy goals related to grid modernization, streamlining of interconnection processes, cutting of bureaucratic red tape, and energy addition.
- **Regional Impact & Replicability:** The proposed project demonstrates potential for significant regional impact or the ability to be replicated in other regions facing similar interconnection challenges.
- **Geographic Diversity:** The proposed project expands the geographic diversity of organizations and regions participating in DOE-supported interconnection initiatives.



# Program Timeline



All dates are subject to change  
[energy.gov/i2x](https://energy.gov/i2x)

# Open Q&A

Please use Slido to ask any question about this opportunity

More questions about  
iCRS-T?

[info@energywerx.org](mailto:info@energywerx.org)

Thank you for attending the  
**Voucher 11: iCRS-T Recipient  
Informational Webinar 2**

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

