

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



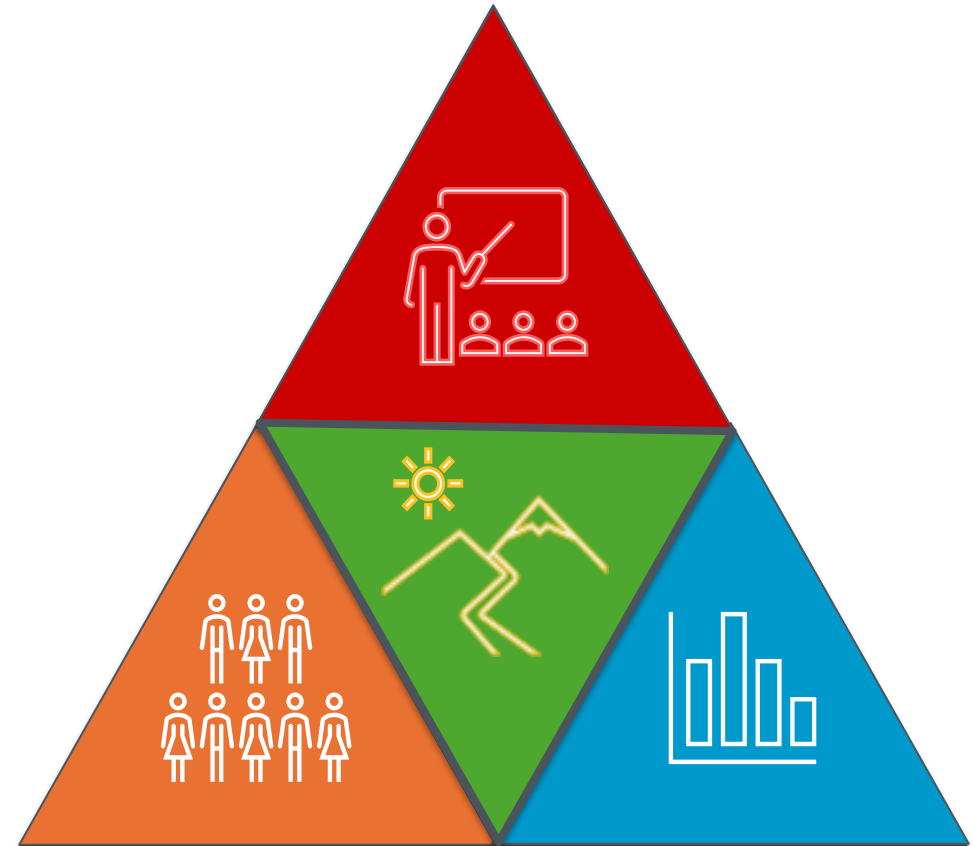
Stakeholder Engagement



Data & Analytics



Research & Innovation



i2X 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

i2X Interconnection Cost Reduction Solutions for Transmission

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).

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.



Scan me!

Who to Fund?

Applicant is a U.S.-based public or private company, nonprofit organization, or academic institution with one or more **advanced electric-system-modeling capability directly relevant to the U.S. bulk power system.**

Total Funding

\$4,000,000

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What to Fund?

Only work related to providing services that will result in interconnection cost reductions will be eligible to receive a Voucher under this Opportunity. Eligible services include:

- Advanced modeling and studies
- Interconnection modeling standards development
- Education and training



iCRS-T Program Timeline



All dates are subject to change
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i2X Interconnection Cost Reduction Solutions for Distribution

The iCRS-D program aims to **reduce interconnection costs** related to distribution **grid upgrades** by directly funding organizations leading **local, state, or regional partnerships to demonstrate innovative solutions with** lighthouse projects

*Partnerships will implement **Lighthouse Projects**: a pilot program that develops and demonstrates new technologies and effective solutions for interconnection. These efforts will deliver **tested** approaches to **scalable** interconnection innovations that improve processes, reduce overall costs, and maintain a reliable grid.*



SCAN ME

Who to Fund?

A lead partner (applicant) who represents a multi-stakeholder partnership composed of organizations (e.g., **distribution utility, state regulator, state government, developer**) with expertise, capabilities, and authority to implement the proposed Lighthouse Project.

What to Fund?

Lighthouse Projects should implement process and technology solutions in the distribution system that aim to improve interconnection timelines and costs by **maximizing economic efficiency, increasing data access and transparency, or by streamlining services.**

Total Funding

\$4,000,000

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iCRS-D Program Timeline



All dates are subject to change
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i2X 2026 and beyond plans

Strategic IX Solutions

- Update solutions to the Changing Landscape

Stakeholder Engagement

- i2X Connect – <https://groups.energy.gov/i2XConnect/>
- i2X FIRST Season 3
- i2X STITCH

Data & Analytics

- 2026 Queued Up report on BPS interconnection timelines (LBNL), watch for it this spring

Research & Innovation

- White Papers to support stakeholder engagements
- SWIFTR Funding Opportunity projects
- Technical Assistance