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How do we Connect the Resources New England Needs?

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Raab Roundtable, September 19, 2025

Advanced Energy United

We are the association of businesses united in our mission to achieve 100% clean energy in America.

We provide:

- ✓ **Credible research and analysis** about the advanced energy industry
- ✓ **Knowledge about technologies** and services available to consumers and the power grid
- ✓ **Policies and regulations** that drive the transition to 100% clean energy in the power sector, the built environment, and in transportation.

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Interconnection Challenges: Cause & Effect

- Lack of available interconnection capacity (“headroom”)
- Lack of reliable upfront information about cost and time to connect
- Overly conservative identification of necessary network upgrades
- Resource constraints (staffing and tools to complete studies, supply chain shortages)

Oversubscribed queues

Slow studies, unrealistic results

Withdrawals and restudies

Projects come online more slowly and at higher cost

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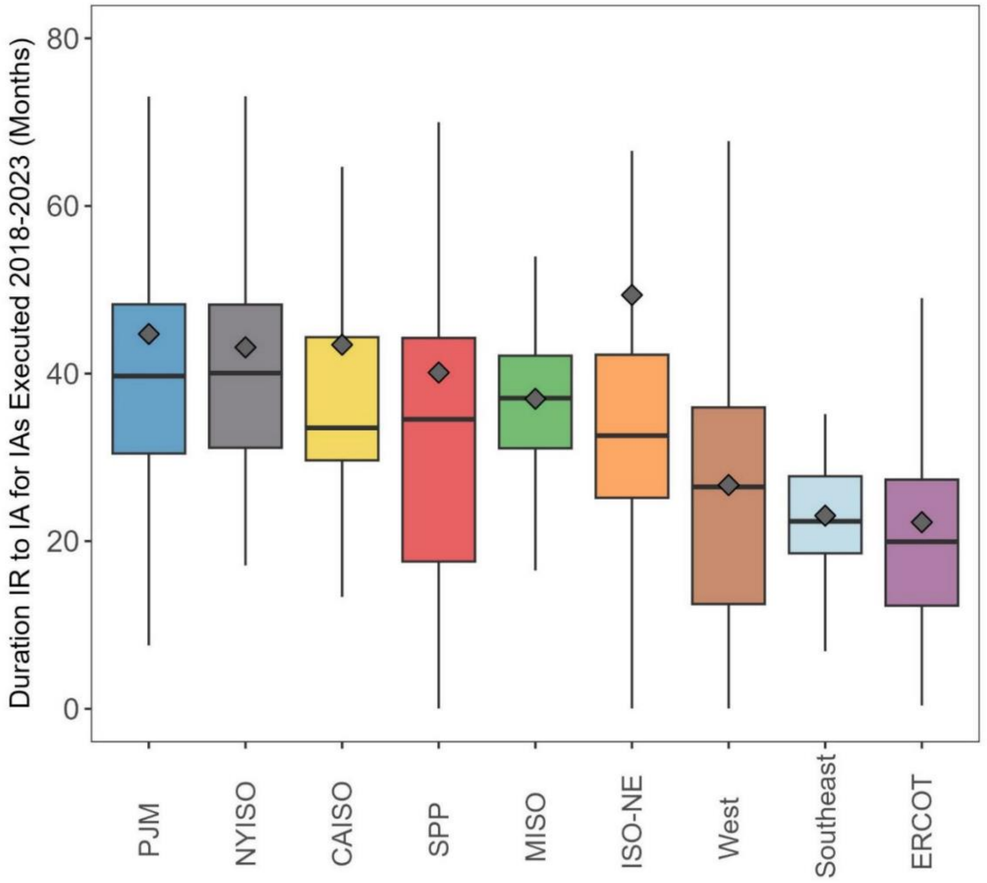
Beyond O.2023: Lessons from Other Regions

Months from Interconnection Request (IR) to Interconnection Agreement (IA)

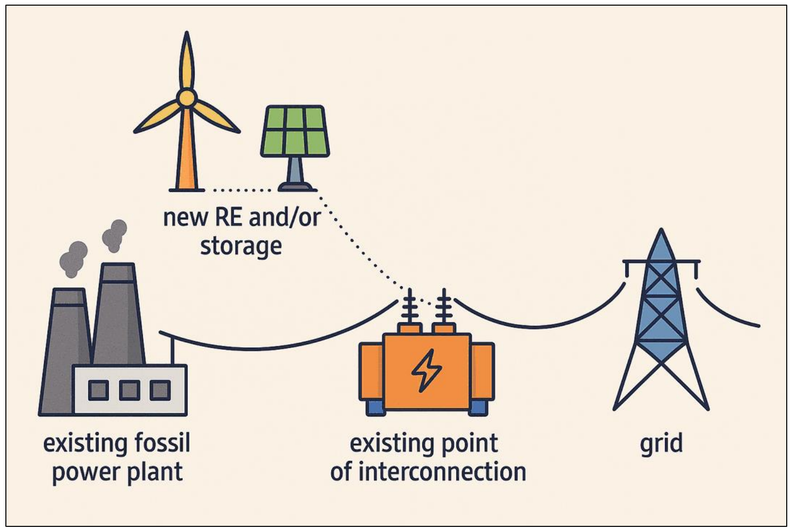


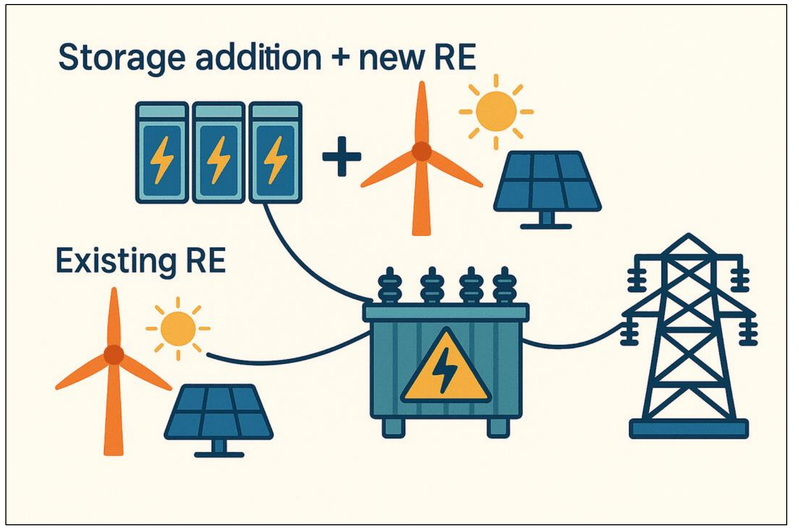
Source: LBNL "Queued Up," 2024 Edition, https://eta-publications.lbl.gov/sites/default/files/queued_up_2024_edition_r2.pdf

- Some regions have pursued **reforms beyond the scope of FERC Order No. 2023**
  - **SPP's** "Consolidated Planning Process" will integrate transmission and interconnection, and add certainty for projects earlier in the process
  - **ERCOT** employs a "connect and manage" approach to quickly connect new resources – not directly applicable outside ERCOT but offers lessons
  - **CAISO** uses Remedial Action Schemes to minimize network upgrades
- **ISO-NE** is working through O.2023 implementation and has not yet taken on further reforms beyond O.2023

Lessons from Other Regions: Surplus IX

- **Surplus Interconnection Service (SIS)** allows new resources to quickly connect to the grid at the site of an existing resource that is not always using its full interconnection capacity
    - **MISO's** flexible SIS option has seen 3.6 GW of requests (mostly storage added to wind / solar) since 2021
    - **PJM** has recently reformed its SIS process to allow more resources to take advantage
- **ISO-NE** has a pending stakeholder request to look at *capacity SIS reform* as part of 2026 workplan





Source: scarcitytosurplus.com

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Lessons from Other Regions: AI

- **Automation / AI** can be integrated into various aspects of the process (application, communication, model development, results, etc.) and has the potential to speed things up and improve accuracy
  - **MISO** has done work with PearlStreet to automate its cluster process
  - **SPP** has worked with PearlStreet, GridUnity, Hitachi
  - **PJM** recently announced a partnership with Google/Tapestry
  - **CAISO** has worked with GridUnity
- **ISO-NE** has not yet taken public action on automation/AI

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Lessons from Other Regions: What NOT to Do

- **Fast track processes that discriminate among resources** provide expedited access to the grid for certain projects, but risk disrupting other projects in development and dampening future investment
    - **PJM** is implementing a “Reliability Resource Initiative” that allowed 51 projects to enter the queue ahead of other new projects
    - **MISO** and **SPP** have both received approval for “Expedited” study processes for select projects
- **ISO-NE** has not explored any of these quick “fixes” and should continue to avoid doing so

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Thank you.

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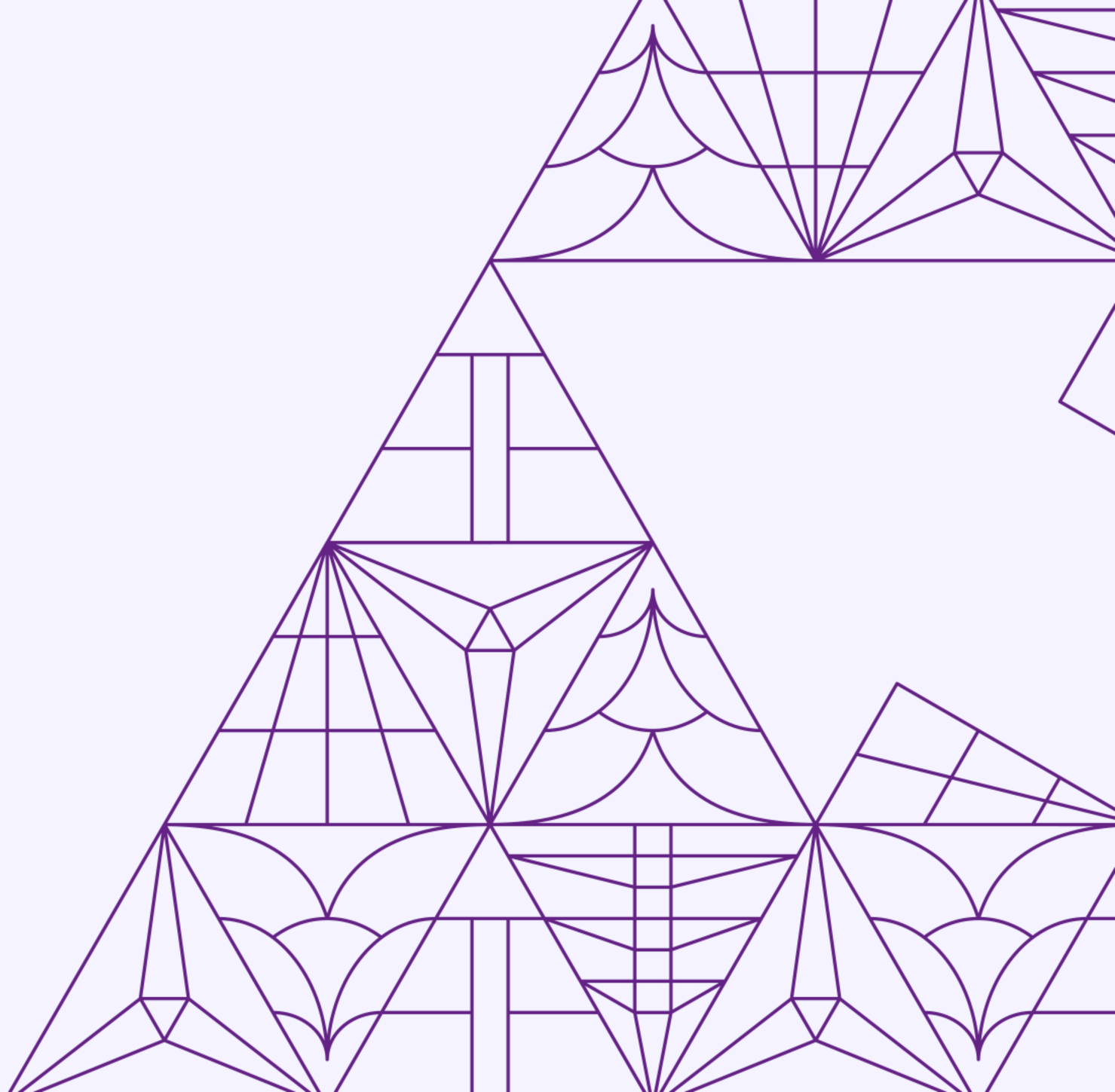

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