



Grid Resilience and Innovation Partnerships (GRIP)

Round 2 Selections

Maria Robinson
Director, Grid Deployment Office

Ariel Horowitz
Deputy Director, Grid Modernization Division

October 30, 2024



Important Note

Information is based on project applications at the time of publication and should not be considered final.

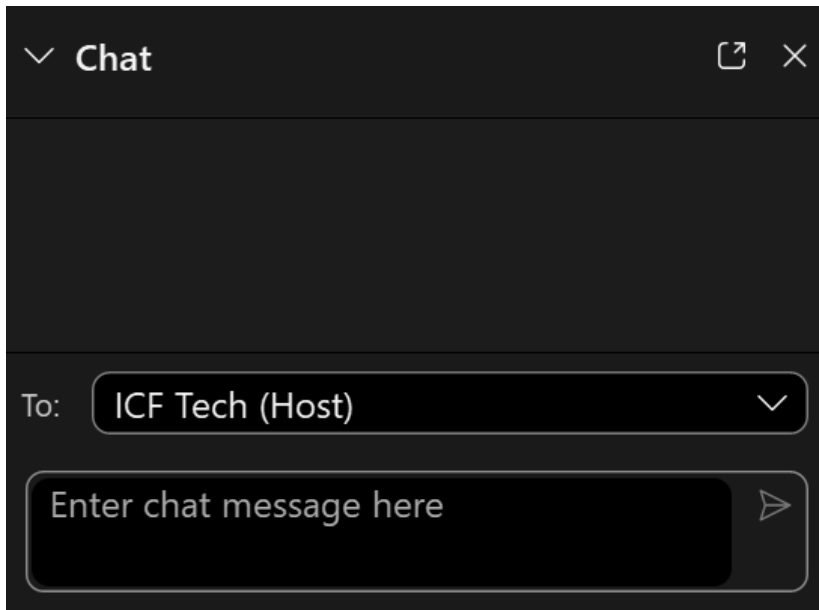
By publishing this project information, DOE is not endorsing, recommending, or favoring any specific commercial product, process, or service by trade name, trademark, or manufacturer.



Housekeeping

Questions?

- ▶ If you have technical questions – please put them in the chat box for the host.



A screenshot of a chat window titled "Chat". The window has a dark background and a white border. At the top left, there is a dropdown arrow and the word "Chat". At the top right, there are icons for a share window and a close window. Below the title bar, there is a "To:" field with a dropdown menu showing "ICF Tech (Host)". Below that is a text input field with the placeholder text "Enter chat message here" and a send button (a right-pointing triangle) on the right side.



Agenda

- 1. Welcome**
- 2. GRIP Overview**
- 3. GRIP Round 2 Selections**
- 4. What's Next?**



Maria Robinson

Director

Grid Deployment Office

U.S. Department of Energy



Ariel Horowitz

Deputy Director for Grid Modernization
Grid Deployment Office
U.S. Department of Energy



What is GRIP?

- ▶ **\$10.5 billion to enhance grid flexibility and improve the resilience of the power system against growing threats of extreme weather**
- ▶ Through GRIP investments, DOE is maximizing grid infrastructure deployment at-scale and leveraging private sector and non-federal public capital to advance grid and transmission deployment goals
- ▶ GRIP includes **three programs**:
 - ▶ Grid Resilience Utility and Industry Grants (BIL Section 40101c)
 - ▶ Smart Grid Grants (BIL Section 40107)
 - ▶ Grid Innovation Program (BIL Section 40103b)



GRIP at a Glance

*\$10.5 billion in **competitive grants** to enhance grid flexibility and improve the resilience of the power system*

Grid Resilience Utility & Industry Grants (BIL 40101c - Topic Area 1)

- ▶ \$2.5 billion for resilience projects that reduce the likelihood and consequence of impacts to the electric grid due to extreme weather, wildfire, and natural disaster
- ▶ Eligible entities: Grid operators, storage operators, electricity generators, transmission owners/operators, distribution providers, fuel suppliers

Smart Grid Grants (BIL 40107 - Topic Area 2)

- ▶ \$3 billion for innovative and ambitious uses of cutting-edge, market-ready technologies
- ▶ Eligible entities: Institutions of higher education, for-profit entities and non-profit entities, state and local governmental entities, tribal nations

Grid Innovation Program (BIL 40103b – Topic Area 3)

- ▶ \$5 billion for high-impact, innovative projects that improve grid reliability and resilience on the local, regional, and interregional scales
- ▶ Eligible entities: States or a combination of states, tribal nations, units of local government, public utility commissions

GRIP Round 1 Selections (October 2023)

- ▶ **\$3.5 billion** for **58 selected projects in 44 states** across the U.S. to enhance the nation's ability to deliver affordable, clean energy to American communities, prepare for extreme weather, and meet clean energy goals.
 - Largest single direct investment in critical grid infrastructure in U.S. history.
- ▶ **\$8 billion total** in public and private investment.
- ▶ Projects will enable the addition of **35 GW of renewable energy**, expanding U.S. renewable energy capacity by **10.5%**.
- ▶ **54 awards** have been issued.





GRIP Round 2 Selections

GRIP Round 2 Selections



46 projects
47 states + DC
63 million homes and businesses benefitting



\$4.2 billion federal investment
\$14.4 billion public & private investment



20 GW expanded grid capacity and new resources



Nearly 2,000 miles of new or upgraded transmission lines





11,000 jobs created or supported
\$475 million dedicated to community benefits

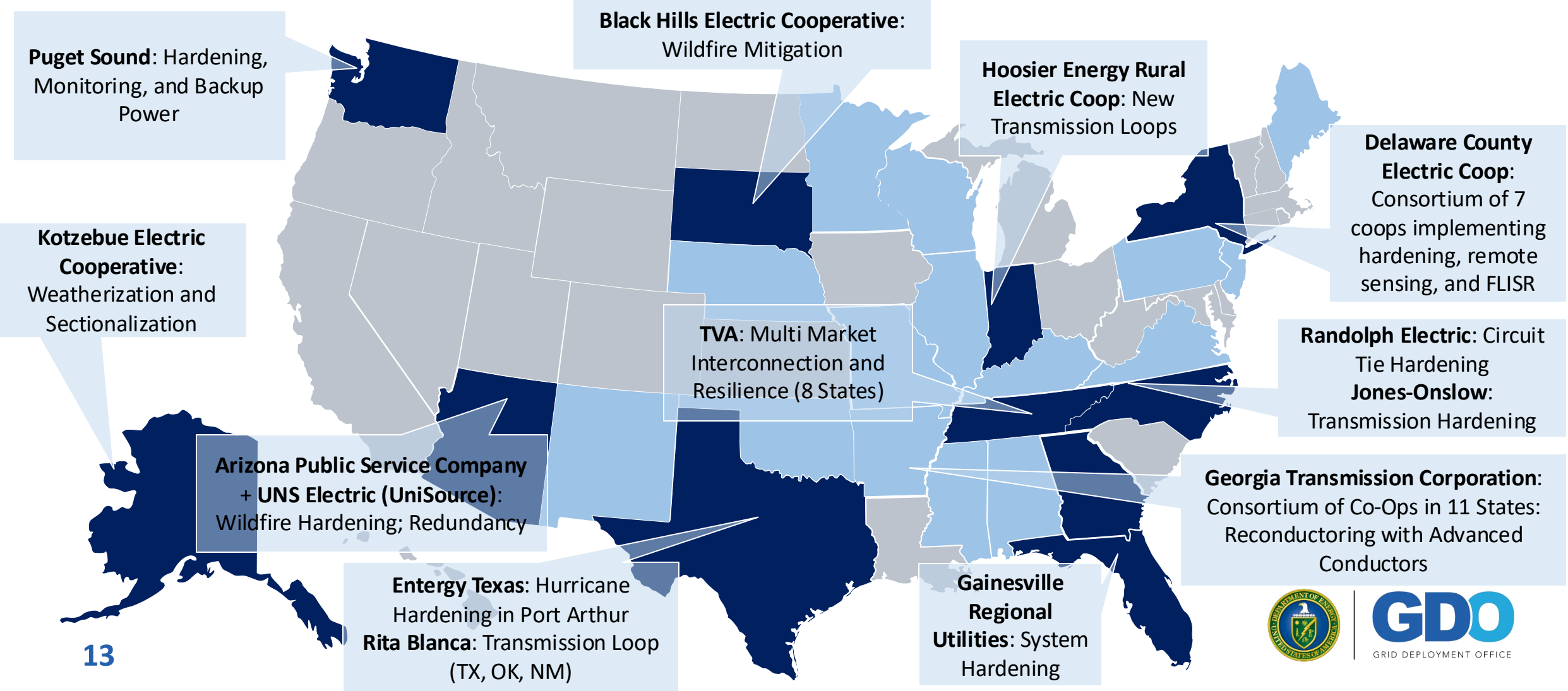
GRIP Round 2 Selections

Program	Round 2 Selections
Grid Resilience Utility/Industry Grants (40101c)	14 projects \$887M federal investment \$1.75B total investment
Smart Grid Grants (40107)	24 projects \$1.07B federal investment \$2.49B total investment
Grid Innovation Program (40103b)	8 projects \$2.2B federal investment Nearly \$10B total investment

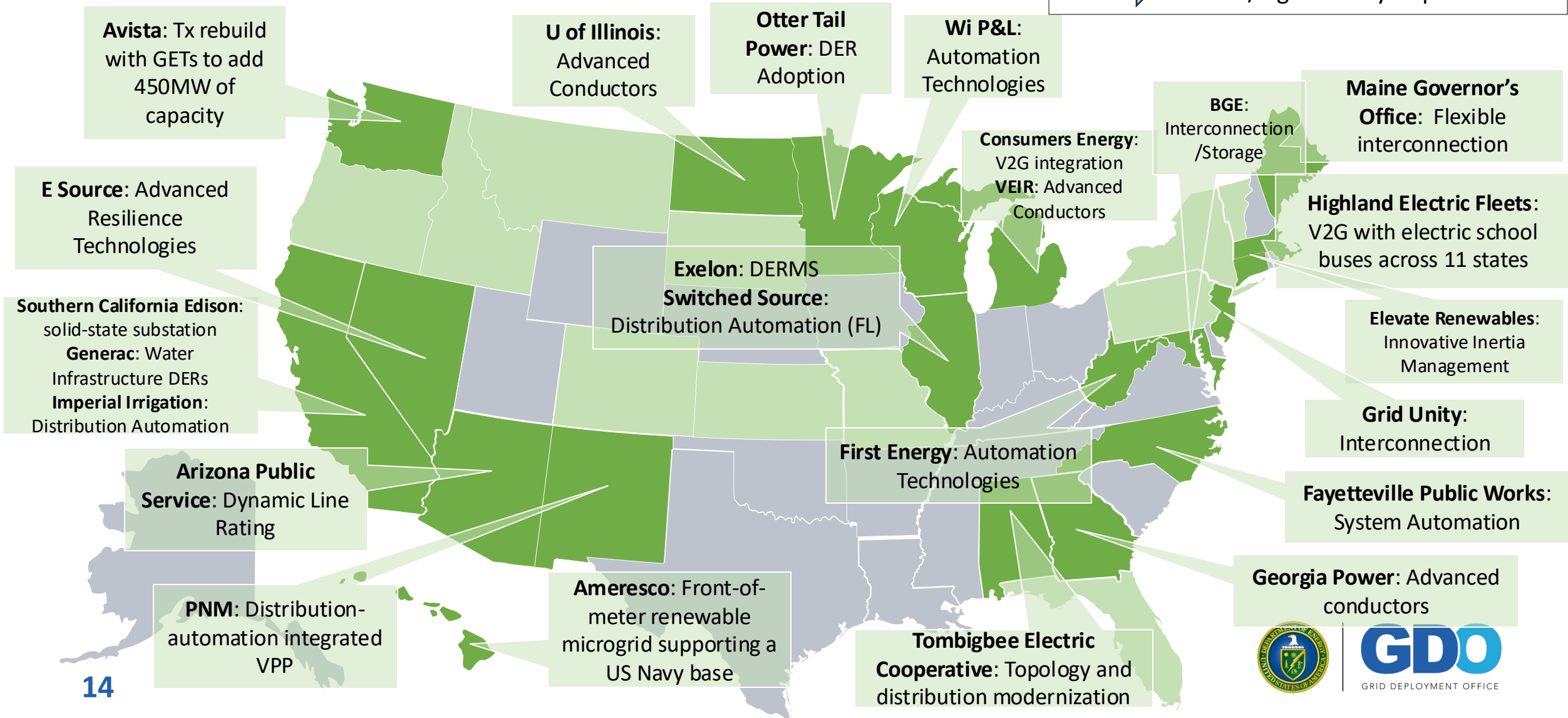
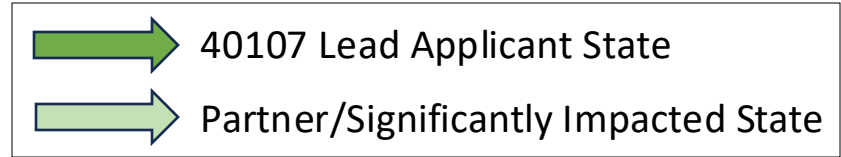


Selected Projects: 40101c - Grid Resilience Grants

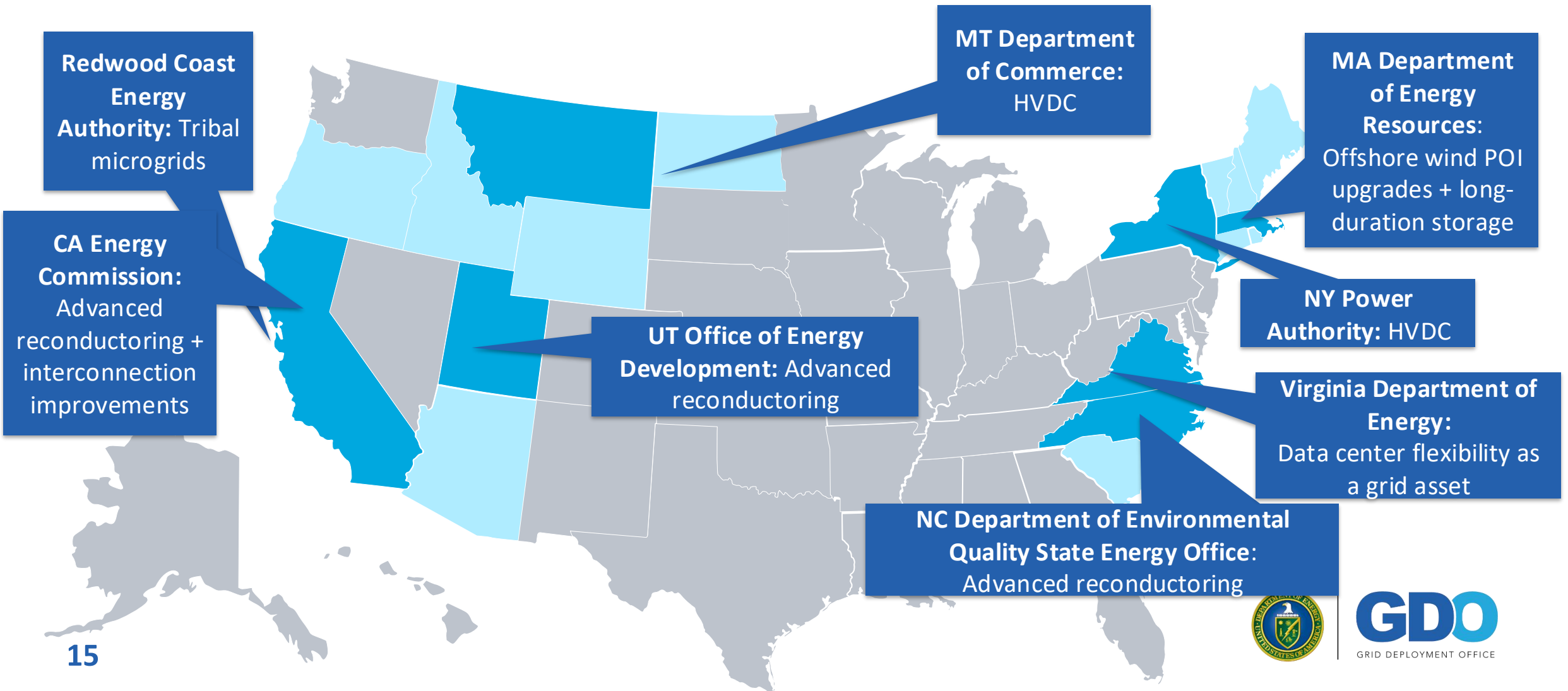
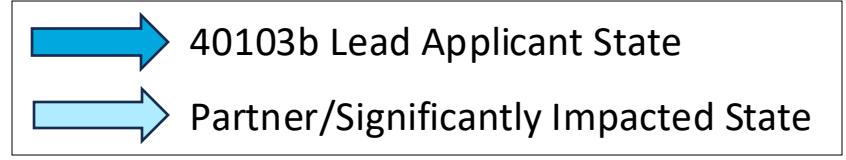
 40101c Lead Applicant State
 Partner/Significantly Impacted State



Selected Projects: 40107 – Smart Grid Grants



Selected Projects: 40103b – Grid Innovation Program



Selected Project Themes

- ▶ Resilience investments focus on wildfire as well as hurricane hazards (flooding, high winds)
- ▶ Examples: fault location, isolation & service restoration (FLISR), reclosers, undergrounding, monitoring & control

Resilience & Reliability

- ▶ 12 projects with new or reconducted transmission
- ▶ At least 15 projects deploying advanced conductors
- ▶ 950+ miles total of transmission innovation
- ▶ Transmission loops for reliability

Transmission Innovation and Resilience

- ▶ 9 microgrid, storage-as-NWA, and/or VPP projects
- ▶ 3 projects focused on V2G orchestration
- ▶ Interconnection hardware and software improvements
- ▶ 20 GW total capacity enabled

DER Innovation and Grid Integration

- ▶ 7 projects impact at least 6 different states
- ▶ 8 vendor-led projects
- ▶ Public-private partnerships

Broad Consortia Approaches



Community Benefits

- ▶ Across the 46 selected projects, about **\$475 million** will be invested in workforce development, scholarship and apprenticeship programs, and grants to community organizations.
- ▶ More than **80%** of the projects will work with the **International Brotherhood of Electrical Workers (IBEW)**.
- ▶ GRIP projects will significantly **invest in 1,000+ Disadvantaged Communities (DACs)**.
- ▶ Projects will improve **energy affordability and reliability** for consumers across the country.



Note on Selections

- ▶ DOE had approximately \$3.9 billion in total funding available for this round of GRIP.
- ▶ We received **325 applications** requesting **over \$30 billion** in total funds – over 7X the amount of funding available, or an oversubscription rate of over 790%.
- ▶ For both rounds of GRIP, we have received **over \$50B in funding requests** for projects across all 50 states.





Highlights: GRIP Rounds 1 & 2

GRIP 1 and 2



104 projects
50 states + DC
90 million homes and businesses benefitting



\$7.6 billion
federal investment
\$22.6 billion
public & private investment



55 GW
expanded grid capacity and new resources




2,600+ miles of
new or upgraded
transmission
lines



Nearly **15,000 jobs** created or supported
\$500+ million dedicated to
community benefits



What's Next?

A row of outdoor server racks is shown in a field. The racks are white with mesh doors. One door is open, revealing internal components like a power supply and a control panel. The racks are mounted on a concrete base. The background shows a field and a clear sky.

**GRIP Round 3
Notice of Funding
Opportunity (NOFO):
Anticipated Spring 2025**

Stay Connected

- ▶ Sign up for email updates through the GDO website:
 - Find out about the next NOFO release, webinars, and other program news and milestones.
 - Visit **energy.gov/GDO** to subscribe or update your preferences.
- ▶ Project fact sheets and details are available online at www.energy.gov/gdo/grid-resilience-and-innovation-partnerships-grip-program-projects
 - Search and sort by impacted state, award status, funding round, topic area, or (coming soon!) project type.

Thank You!

