



# Grid Deployment Office Overview

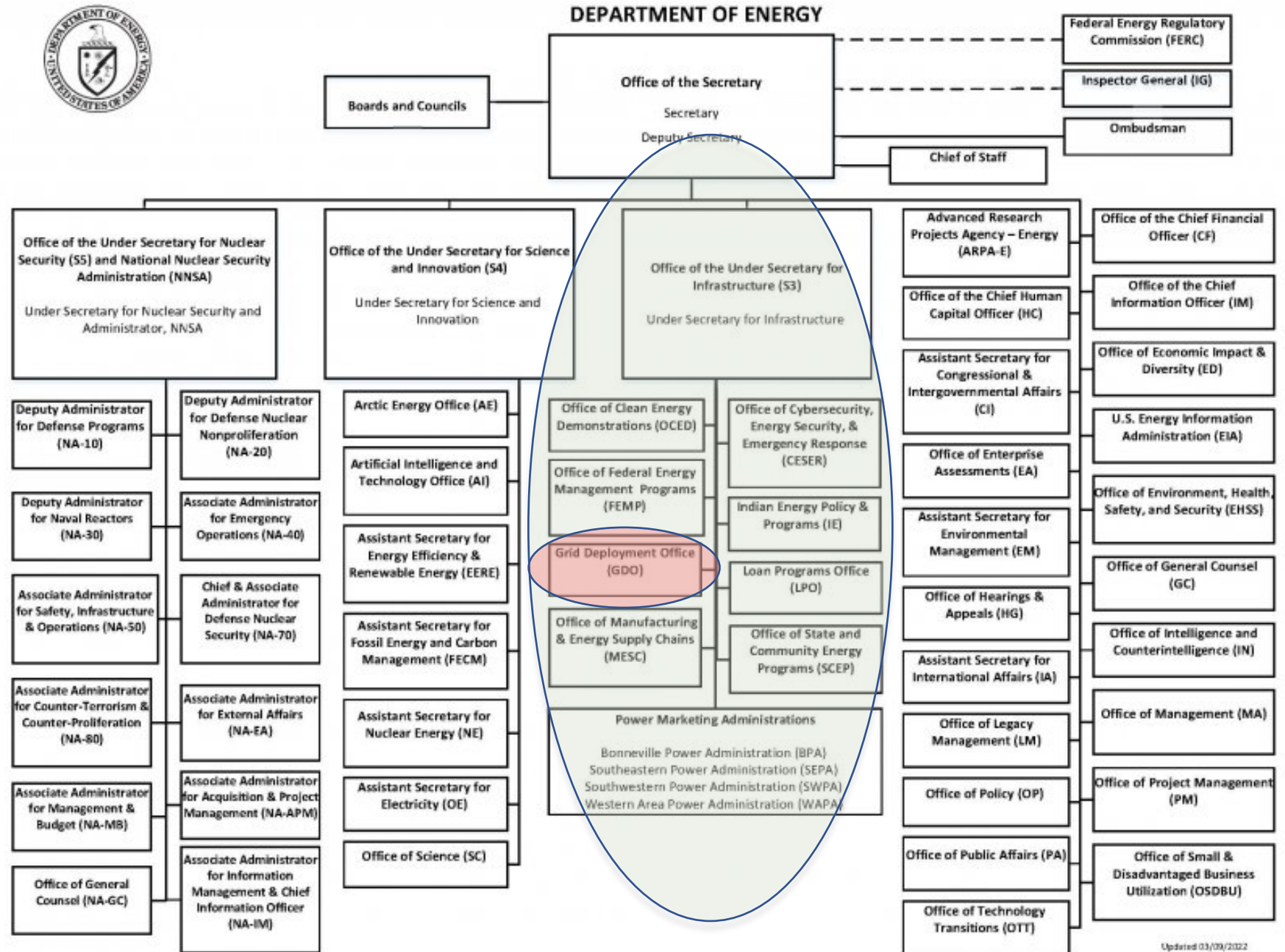
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Avi Gopstein

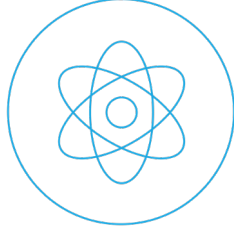
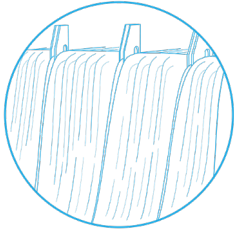
September 4, 2024



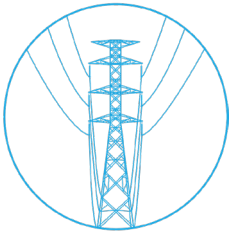
# What is GDO?



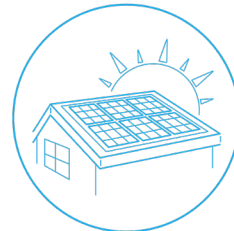
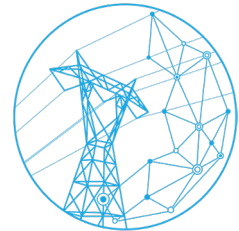
# GDO Mission and Goals



Ensure **resource adequacy** by supporting **critical generation sources** and expanding and enhancing **electricity markets**.



Catalyze the development of new and upgraded **high-capacity electric transmission lines** and an improved **distribution system** nationwide.



Prevent **outages** and enhance the **resilience** of the electric grid.



# GDO Programs at a Glance

## Resource Adequacy

Civil Nuclear Credit Program

Hydro Incentives:  
More than \$750 million

Wholesale Electricity Market Studies and Engagement

## Transmission Permitting

Coordinated Interagency Transmission Authorizations and Permits (CITAP)

Presidential Permits

Export Authorizations

Environmental Reviews

## Transmission Planning, Financing, and Commercial Facilitation

Transmission Facilitation Program: \$2.5 billion

Transmission Facility Financing: \$2 billion

Transmission Siting and Economic Development Grants: \$760 million

National Transmission Needs Study  
National Transmission Planning Study  
Offshore Wind Convenings

National Interest Transmission Electric Corridors (NIETCs)

## Grid Modernization

Grid Resilience State/Tribal Formula Grants: \$2.3 billion

GRIP Program: \$10.5 billion

Puerto Rico Energy Resilience Fund: \$1 billion

Territory Recovery Assistance

# Wholesale Electricity Market Studies and Engagement (WEMSE) Program

## What is it?

- ▶ Funding to provide technical and financial assistance for analytical wholesale electric market studies, education and convenings, and meaningful engagement in market activities
- ▶ First round of selections included 6 projects eligible to receive up to \$10.6 million to improve state and regional engagement in wholesale markets

## When is the next deadline?

- ▶ Second round of concept papers were due June 13

## Who is eligible?

- ▶ States and RTOs/ISOs on their own
- ▶ For-profit entities, Tribal entities, educational institutions, and nonprofits, in partnership with States and RTOs/ISOs



# Grid Modernization

# Grid Resilience Funding Available through BIL

Formula Grants	Funding Amount	Next Milestones
<b>Grid Resilience Formula Grants</b> Preventing Outages and Enhancing the Resilience of the Electric Grid / Hazard Hardening (Sec. 40101(d))	\$2.3 billion	<ul style="list-style-type: none"><li>First round of awards (FY22/23) announced in eight cohorts between May—September 2023</li><li>Applications for FY24 were due June 17, 2024</li></ul>
GRIP Program	Funding Amount	Next Milestones
<b>Grid Resilience Industry Grants</b> Preventing Outages and Enhancing the Resilience of the Electric Grid / Hazard Hardening (Sec. 40101(c))	\$2.5 billion	<ul style="list-style-type: none"><li>First round of selections announced in October 2023</li><li>Second round of selections will be announced in Fall 2024</li></ul>
<b>Smart Grid Grants</b> Deployment of Technologies to Enhance Grid Flexibility (Sec. 40107)	\$3 billion	<ul style="list-style-type: none"><li>First round of selections announced in October 2023</li><li>Second round of selections will be announced in Fall 2024</li></ul>
<b>Grid Innovation Program</b> Program Upgrading Our Electric Grid and Ensuring Reliability and Resiliency (Sec. 40103(b))	\$5 billion	<ul style="list-style-type: none"><li>First round of selections announced in October 2023</li><li>Second round of selections will be announced in Fall 2024</li></ul>

# GRIP Round 1 Selections Overview

- ▶ The first round of GRIP funding totals nearly \$3.5 billion and will support **57 projects in 44 states** across the U.S.
  - ▶ This is the largest single direct investment in critical grid infrastructure in U.S. history.
- ▶ In total, GRIP will catalyze **\$8 billion in public and private investment** to enhance the nation's ability to deliver affordable, clean energy to American communities, prepare for extreme weather, and meet clean energy goals.
- ▶ **GRIP will enable the addition of 35 GW of renewable energy, expanding U.S. renewable energy capacity by 10.5%.**

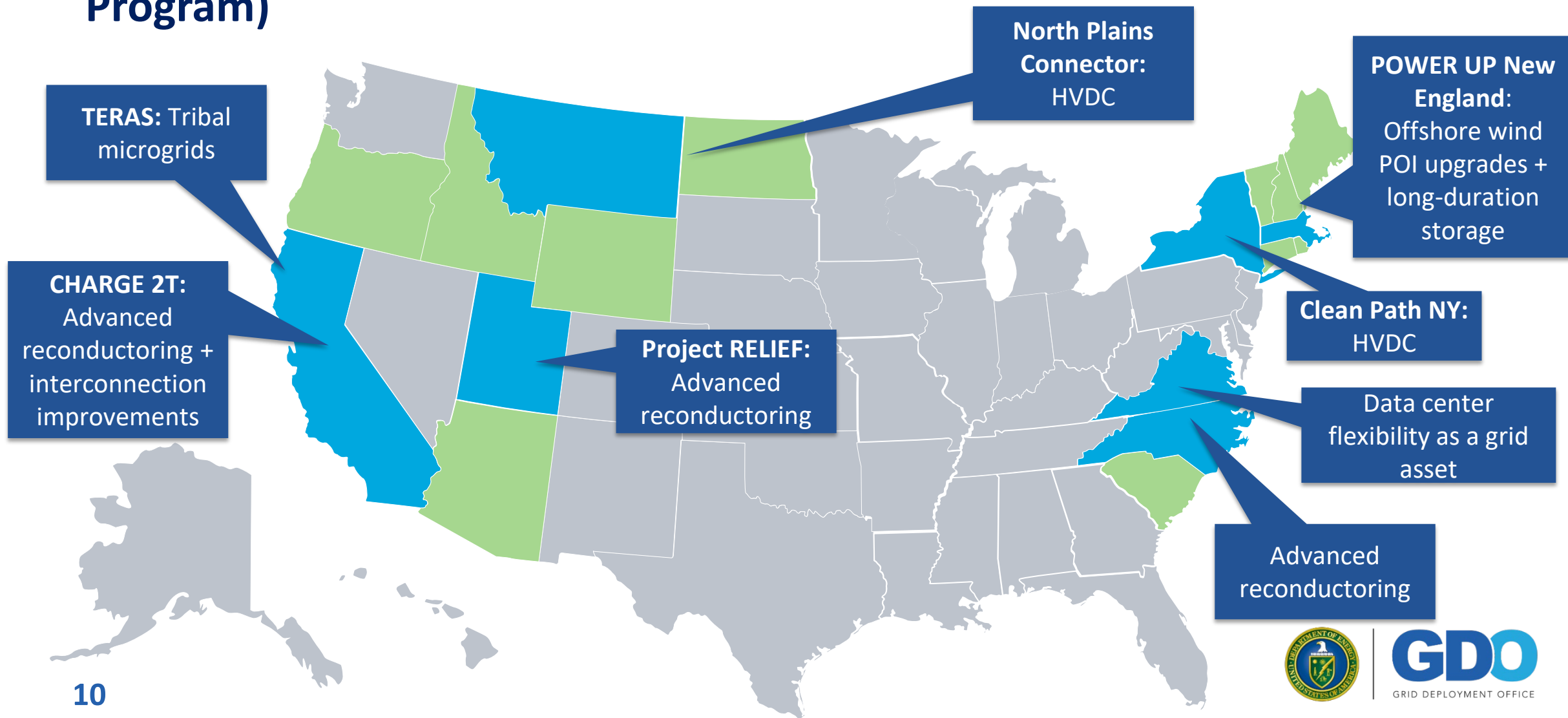


# GRIP Round 2 Selections Overview (Grid Innovation Program)

- ▶ The second round of GRIP funding (specifically, the second round of the **Grid Innovation Program**) totals \$2.2 billion and will support 8 projects in 18 states.
  - ▶ \$2.2 billion federal investment
  - ▶ Nearly \$10 billion combined public and private investment
- ▶ These projects will upgrade **more than 1,000 miles of transmission** by:
  - ▶ Building 600+ miles of **new transmission lines**
  - ▶ **Reconductoring** or adding **grid-enhancing technologies** to 400+ miles of existing Tx lines to increase grid capacity
- ▶ These projects will enable the addition of nearly **13 GW of grid capacity**, including 4.8 GW of OSW, and create **5,000+ new, good-paying jobs**.



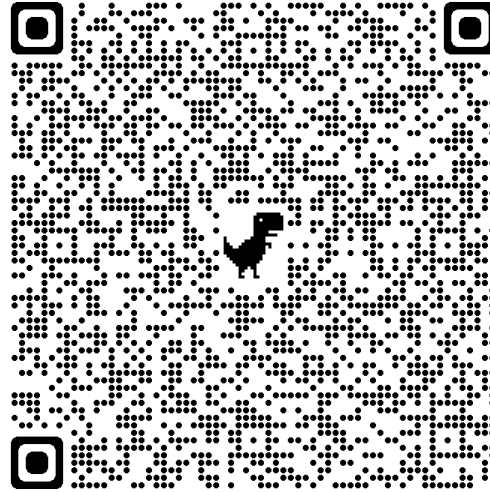
# A Closer Look at GRIP Round 2 Selections (Grid Innovation Program)



# Learn more about GDO's financing opportunities

- The Grid and Transmission Programs Conductor acts as a clearinghouse for GDO's transmission and grid resilience financing programs.

- ▶ Find more information on Grid and Transmission programs within:
  - Bipartisan Infrastructure Law
  - Inflation Reduction Act
  - And other existing DOE transmission and grid programs



- ▶ <https://www.energy.gov/gdo/conductor>

