



GDO
GRID DEPLOYMENT OFFICE

Grid Deployment Office

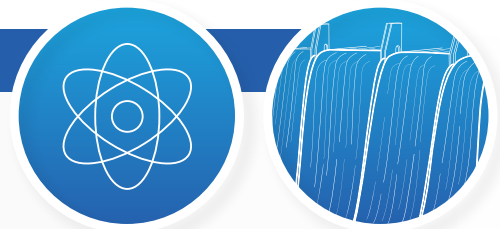
Creating a Clean, Reliable, Resilient Electric Grid

The U.S. Department of Energy's Grid Deployment Office (GDO) works to expand access to affordable, reliable, clean electricity by maintaining and investing in critical power generation facilities (such as hydropower and nuclear energy), increasing grid resilience, and improving and expanding transmission and distribution systems.

Established in 2022 under the Department of Energy's Office of the Under Secretary for Infrastructure, GDO oversees more than \$26 billion available to drive investment, improve resource adequacy, boost transmission and distribution system resilience, and provide access to expertise, capabilities, and technical assistance on a variety of transformational grid modernization and market strategies.

Improving Generation to Increase Efficiency and Reliability

GDO's **Generation Credits Division** works with existing generation facilities to ensure resilience and reliability and works to improve electricity markets at the wholesale and distribution levels.



Key Programs:

- The **Civil Nuclear Credit program** manages a **\$6 billion** investment to prevent premature retirement of existing zero-carbon nuclear plants. In January 2024, GDO announced the **final agreement** between DOE and Pacific Gas and Electric Company for **\$1.1 billion** in credit payments for PG&E's Diablo Canyon Power Plant near Avila Beach, California.
- The **Hydroelectric Incentives program** oversees an investment of more than **\$750 million** in existing hydroelectric facilities to improve efficiency, maintain dam safety, reduce environmental impacts, and ensure generators continue to provide emission-free electricity. Thus far, GDO has announced nearly **\$110 million in incentive payments** for **111 hydroelectric facilities** across the country.
- The **Wholesale Markets Analysis program** works to improve electricity markets at the wholesale and distribution levels, and conducts modeling to evaluate markets.

Transforming Transmission to Move Power Where It Needs to Go



GDO's **Transmission Division** uses unique tools and authorities for coordination, planning, financing, facilitation, and permitting to drive transmission investment and catalyze the development of new and upgraded high-capacity electric transmission lines and an improved distribution system nationwide.

Key Programs:

- **PLANNING:** The **National Transmission Needs Study, published in October 2023**, and the **National Transmission Planning Study** seek to identify national needs and long-term, flexible, and interregional solutions to build a transmission network that supports expanding electrification in transportation and increasing renewable integration. Other transmission planning efforts include offshore wind studies evaluating transmission solutions and time-bound actions necessary to enable offshore wind deployment on both the Atlantic and Pacific coasts.
- **COMMERCIAL FACILITATION:** Financing and commercial facilitation programs include the **Transmission Facilitation Program (TFP)**, a \$2.5 billion revolving loan program that supports the development of large-scale transmission lines and upgrading existing transmission, as well as microgrid connection in Hawaii, Alaska, and U.S. territories. In October 2023, GDO announced the **first round of TFP selections**, which include **three interregional transmission projects** that are eligible for **up to \$1.3 billion in funding**. In addition, the **Transmission Facility Financing program** provides **\$2 billion** in direct loan authority for projects designated to be in the national interest.
- **PERMITTING AND SITING:** Federal permitting and siting coordination and technical assistance efforts include enhancing the designation process for **National Interest Electric Transmission Corridors (NIETCs)**, accelerating federal environmental reviews and permitting through the **Coordinated Interagency Transmission Authorization and Permits Program (CITAP)**, and the **\$760 million Transmission Siting and Economic Development Grants program**, which provides funding to support siting and permitting activities and economic development for communities impacted by transmission construction and operation.

Modernizing the Grid to Meet Current and Future Needs



GDO's **Grid Modernization Division** is responsible for developing activities that prevent outages and enhance the reliability and resilience of the electric grid.

Key Programs:

- The \$2.3 billion **Grid Resilience State and Tribal Formula Grants** aim to strengthen and modernize the power grid against wildfires, extreme weather, and other natural disasters exacerbated by climate change. As of January 2024, GDO **has awarded** a total of more than **\$772 million** in FY22/23 grants to **48 states, 103 tribal entities, three territories, and the District of Columbia**. Applications for FY24 are now open.
- The **\$10.5 billion Grid Resilience Innovation Partnerships (GRIP)** Program seeks to enhance grid flexibility and improve the resilience of the power grid through competitive grant funding. In October 2023, GDO announced the **first round of selections for GRIP funding**, which total nearly **\$3.5 billion** in federal funding and represents the largest direct investment the federal government has ever made in the grid. GDO selected **58 projects in 44 states** across the country.
- **Territory and Recovery Assistance** efforts include work to enhance the resilience of Puerto Rico's infrastructure while also helping the Territory reach 100% renewable energy by 2050. This includes the two-year **Puerto Rico Grid Resilience and Transitions to 100% Renewable Energy Study (PR100)** and the \$1 billion **Puerto Rico Energy Resilience Fund**. In November 2023, GDO announced the **first round of selections for PR-ERF funding**, which totals up to **\$450 million** in federal funding and will support the deployment and installation of rooftop solar and battery storage systems in Puerto Rico's most vulnerable households, as well as **\$3.85 million** for **Solar Ambassadors** to help identify and enroll eligible households. This program area also supports increasing electric resilience in the United States Virgin Islands, Guam, American Samoa, and the Commonwealth of the Northern Mariana Islands.