



**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 generation facilities, increasing grid resilience, and modernizing and expanding transmission and distribution systems.

Established in 2022 under the Department of Energy's Office of the Under Secretary for Infrastructure and overseeing more than \$22 billion in federal funding, GDO acts as a partner with states, Tribes, territories, industry, communities, and other energy sector stakeholders to deploy solutions to lower energy costs and improve grid reliability and resilience. We strive to work in strong partnership with those across the U.S. to support a robust generation, transmission, and distribution system, which is the backbone of the Nation's economic, energy, and national security infrastructure.

## Supporting Critical Generation and Enhancing Electricity Markets

GDO works to ensure **resource adequacy** by supporting **critical generation sources** and **expanding and enhancing electricity markets**.

### Key Programs:

- The **Civil Nuclear Credit (CNC) Program** and the **Hydroelectric Incentives Program** support the operation of critical generation facilities. The CNC program works to prevent the premature retirement of existing nuclear plants, while the Hydroelectric Incentives Program seeks to invest more than \$750 million to improve power production, facility efficiency, and dam safety at U.S. hydroelectric facilities.
- The **Wholesale Electricity Market Studies and Engagement (WEMSE) Program** provides states and regions with technical and financial assistance related to developing, expanding, and improving wholesale electricity markets.



## Transforming Transmission to Move Power Where it Needs to Go



GDO helps catalyze the development of **new and upgraded high-capacity electric transmission lines** and an **improved distribution system** nationwide. GDO utilizes DOE's unique tools and authorities to drive investment in electric transmission through planning, financing, facilitation, and siting and permitting activities.

### Key Programs:

- **Planning:** The **National Transmission Needs Study** and the **National Transmission Planning Study** help 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. GDO also supports efforts to evaluate **offshore wind transmission** solutions and produce time-bound actions necessary to enable offshore wind deployment on the Atlantic, Gulf, and Pacific coasts.
- **Permitting and Siting:** Federal permitting and siting coordination and technical assistance efforts include enhancing the designation process for **National Interest Electric Transmission Corridors (NIETCs)** and administering the **Transmission Siting and Economic Development Grants program**, a \$760 million program to support states and local communities to identify potential impacts of projects, enhance regulatory proceeding participation, and economic development, among other eligible investments. GDO also manages DOE authorities related to federal permits required for electric transmission, including the **Coordinated Interagency Transmission Authorization and Permits (CITAP) Program**; presidential permitting of cross-border electric transmission facilities; and authorizations to export electricity from the U.S. In its permitting work, GDO also develops tools, resources, and best practices to support National Environmental Policy Act (NEPA) reviews for transmission projects.
- **Commercial Facilitation:** Financing and commercial facilitation programs include the **Transmission Facilitation Program (TFP)**, a \$2.5 billion revolving fund that provides financial assistance to develop large-scale transmission lines, upgrade existing transmission lines, and connect isolated microgrids in Hawaii, Alaska, and U.S. territories. In addition, the **Transmission Facility Financing program** has up to \$2 billion available in direct loan authority for transmission projects in designated NIETCs.

## Modernizing the Grid to Meet Current and Future Needs



GDO oversees activities that **prevent outages** and **enhance the resilience of the electric grid**.

### Key Programs:

- The \$2.3 billion **Grid Resilience State and Tribal Formula Grant Program** aims to strengthen and modernize the power grid against wildfires, extreme weather, and other natural disasters exacerbated by climate change. During the first two years of funding, GDO awarded more than \$800 million in grants to 48 states, over 170 tribal entities, three territories, and the District of Columbia.
- 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 programs. The first round of GRIP funding totaled nearly \$3.5 billion in federal funding to support 57 projects in 44 states across the country, representing the largest ever direct investment the grid.
- **Territory and Recovery Assistance** programs help U.S. territories develop electricity policies and programs. 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 (PR-ERF)**. The PR-ERF also includes the **Solar Access Program** (Programa Acceso Solar), which will deploy and install rooftop solar and battery storage systems for Puerto Rico's most vulnerable households.