



# Powering Midwestern Expansion through Transmission

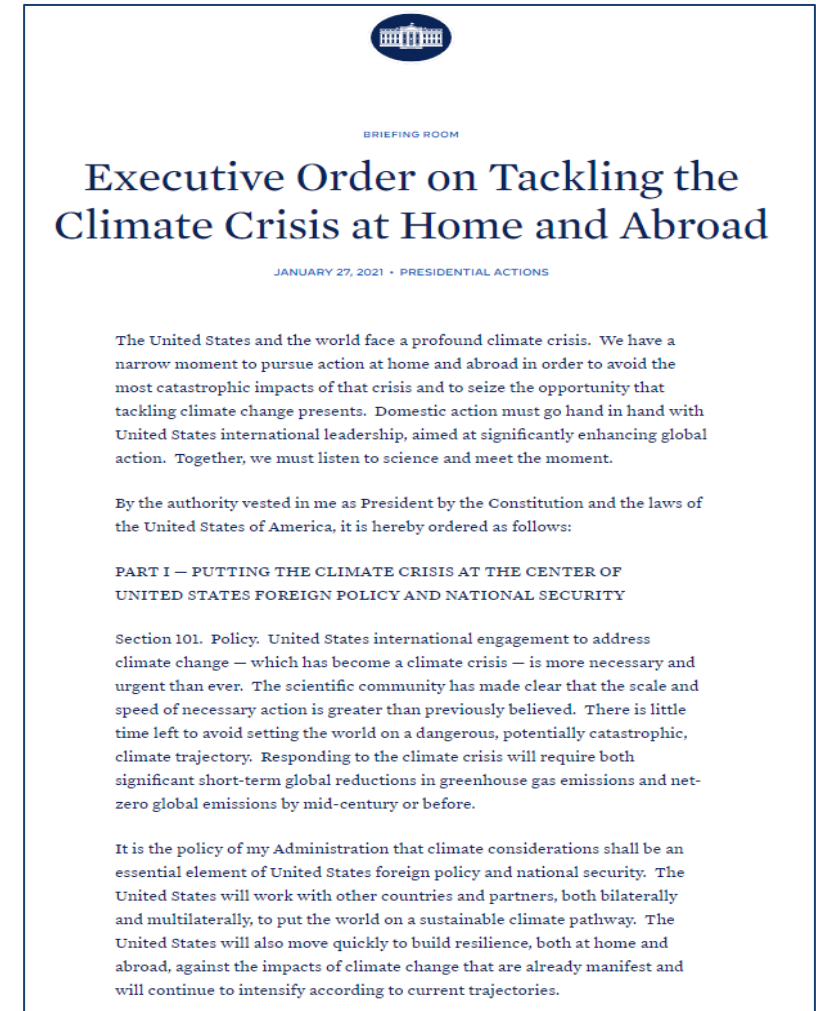
## *DOE Collaboration with the States*

Michelle Manary, Deputy Assistant Secretary for Electricity Delivery

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# Biden-Harris Administration Goals for the Grid

- Achieve net-zero emissions, economy-wide, by no later than 2050
- A carbon pollution-free electricity sector no later than 2035 (Executive [14008](#) of January 27, 2021)
- Accelerate the deployment of clean energy and transmission projects in an environmentally stable manner (Executive [14008](#) of January 27, 2021)
- Clean and zero-emission vehicles for Federal, State, local, and Tribal government fleets, including vehicles of the United States Postal Service (Executive [14008](#) of January 27, 2021)



# Current Key Trends Driving Electricity System Operations

Achieving the Administration's clean energy goals will require significant investment and expansion in transmission and storage.

Information revolution in the grid (sensor-data-analysis-machine learning/AI)

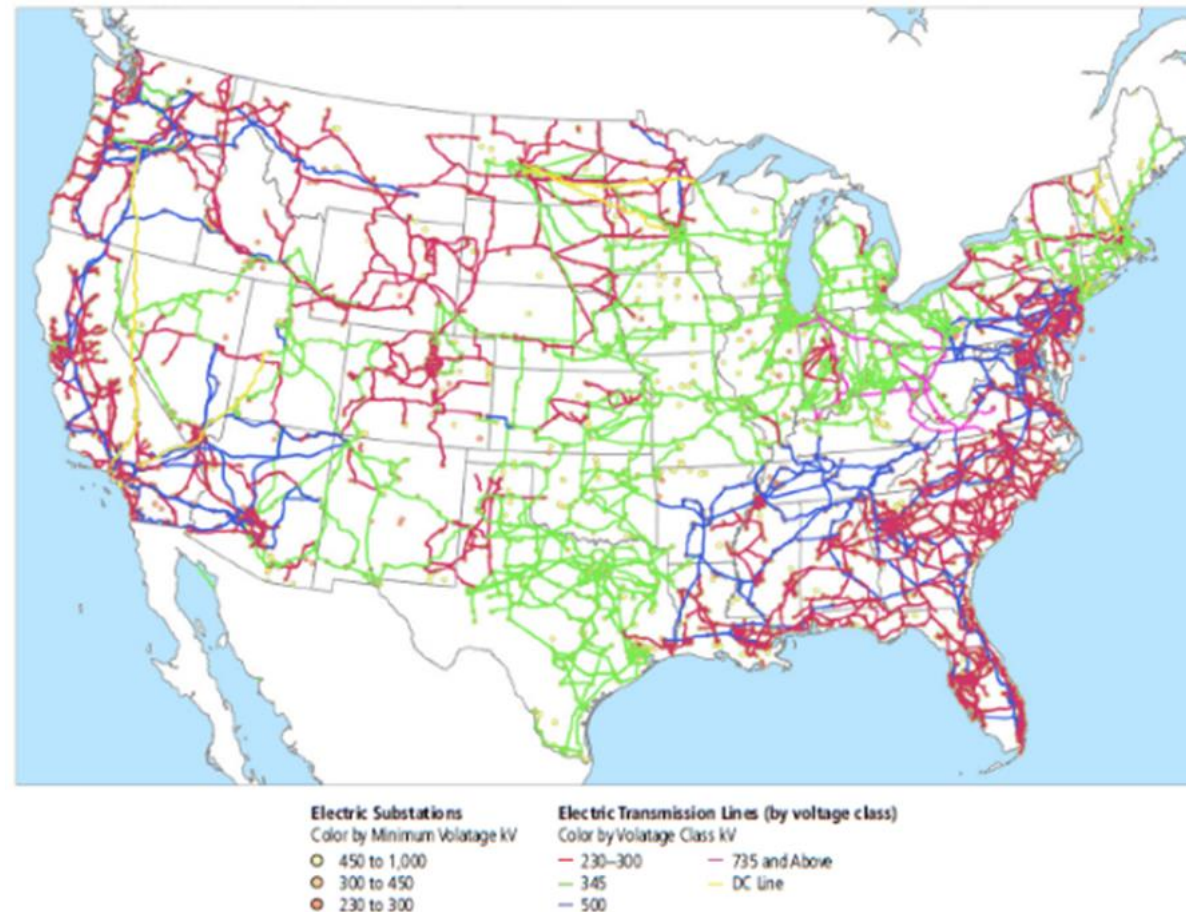
The electrification of transportation and buildings will require distribution modernization.

Increasing demand resilient and reliable grid- requires additional system flexibility

Evolving markets is creating operational and planning complexity

# The Electric Grid Now

The U.S. electric grid is a complex interconnected system of electric transmission lines linking generators to loads.



Source: <https://www.energy.gov/sites/prod/files/2017/02/f34/Appendix--Electricity%20System%20Overview.pdf>

# Partnerships

DOE's Office of Electricity (OE) partners with electricity industry groups to help achieve cross state analysis and approaches to solving energy needs through:

## 1. Convening

- DOE has a unique role as a convener to bring different stakeholders together to help tackle electricity system issues

## 2. Technical Assistance

- Funding National Laboratories and other TA groups to provide modeling and analysis to help meet State objectives or future policies

## 3. Infrastructure Deal Implementation

- Many Sections in the Bipartisan Infrastructure Deal provide States and Tribes with funding to study and harden their Transmission and Distribution Grid

# Transmission Authorities and Responsibilities

**The Office of Electricity implements the following regulatory and statutory authorities:**

- Issuance of **Presidential permits** for transmission facilities at the U.S. border pursuant to Executive Order 10485, as amended
- FAST-41 Compliance/Federal Permitting Improvement Steering Council (FPISC)
- Lead the Integrated Interagency Pre-Application (IIP) process for qualifying interstate transmission projects per section **216(h) of the Federal Power Act**.
- Designate energy corridors on Federal land, in coordination with the Secretaries of Defense, Agriculture, Commerce, and Interior pursuant to section **368 of the Energy Policy Act of 2005**
- Produce the National Congestion Study and designate National Interest Corridors, as appropriate pursuant to section **1221 of the Energy Policy Act of 2005**
- Authority to accept third-party financing to upgrade or build new transmission facilities in the Western Area Power Administration Southwestern Power Administration footprint pursuant to section **1222 of the Energy Policy Act of 2005**

# Bipartisan Infrastructure Deal (BID) and Build Back Better Act (BBB)

**Congressional legislation has provided billions of dollars worth of opportunities to improve electricity infrastructure through the Bipartisan Infrastructure Bill and may add more through the Build Back Better Act. State's will be a key partner in implementing these new activities.**

## **Potential areas of Office of Electricity and State collaboration:**

- Preventing Outages and Enhancing the Resilience of the Electric Grid (BID Section 40101)
- Siting of Interstate Electric Transmission Facilities (BID Section 40105)
- Transmission Facilitation Program (BID Section 40106)
- Deployment of Technologies to Enhance Grid Flexibility (BID Section 40107)
- Transmission Line and Intertie Incentives (BBB Section 30451)
- Grants to Facilitate the Siting of Interstate Electricity Transmission Lines (BBB Section 30452)
- Organized Wholesale Electricity Market Technical Assistance Grants (BBB Section 30453)
- Interregional and Offshore Wind Electricity Transmission Planning, Modeling, and Analysis (BBB Section 30454)

# Thank you!

**Michelle Manary**  
**Deputy Assistant Secretary, Electricity Delivery**  
**Office of Electricity**  
**Department of Energy**

**Email: [Michelle.Manary@hq.doe.gov](mailto:Michelle.Manary@hq.doe.gov)**