

## Clean Energy and Power Webinar

### Department of Energy

**Date:** Thursday, March 10, 2022

#### **Overview of Bipartisan Infrastructure Law:**

- \$660 Billion over 5 Years
- 375 Unique Programs across 12 federal agencies
- 125 new programs (25% of total spending)
- 90% of all investments delivered by non-federal partners
- 60% flow through funding to states
- 38% particularly reserved for rural and disadvantaged communities/federal cost sharing arrangements

#### **DOE Overview:**

This funding represents a once in a generation opportunity. It is the largest change to DOE since its founding in 1967. There are 60 new programs (demonstration, expands 12 existing) long overdue investment in infrastructure, workers, families, competitiveness in global economy. Priorities include: economic growth through domestic manufacturing, family sustaining wages, option for workers to join a union, more equitable and secure future, j40, reducing emissions, building handoff from private to public

#### **Priority #1: Building a Better Grid Initiative Grants**

- Preventing Outages and Enhancing the Resilience of the Electric Grid/Hazard Hardening
- Upgrading Our Electric Grid and Ensuring Reliability and Resiliency
- Transmission Facilitation
- Smart Grid Investment Matching Grant
- Energy in Rural and Remote Communities

#### **Goals Include:**

- Reliable, affordable clean power
- Modernizing electric grid through the Building a Better Grid Initiative:
- Grid is in need of update. 70% of nation's grid is 25 years old. Wildfires, hurricanes, and other natural disasters effect people in drastic ways. There are too many blackouts. Too many are going without power. With climate change upon us it's only getting worse.
- Better approach is to connect communities to best power sources by turning DOE into a partner for states, communities, tribes, to establish new transmission lines and expand smart grid investment
- **NOI is available now on DOE website.**

- \$20 billion available towards transmission projects, development, obtaining, making grid more resilient to natural disaster and cybersecurity, smart meters, technology.
- Overall, these initiatives will allow more families and businesses access to alternative energy sources like solar power and batteries and bring energy security to rural communities.
- DOE Office of Electricity planning study to identify highest transmitting across the countries to help make sure we're on top of all the needs out there

**Priority #2: Clean Energy Demonstration Grants:**

- Regional Clean Hydrogen Hubs...3/21 RFI closes. Applications for funding will open in Summer 2022.
- Clean Hydrogen Electrolysis Program and Clean Hydrogen Manufacturing and Recycling Initiatives...3/29 RFI closes. Applications will open second quarter of 2022
- Carbon Capture, Direct Air Capture, and Industrial Emission Reduction: (Expected to Open 2nd quarter of 2022)
  - Carbon Capture Large Scale Pilot Projects
  - Carbon Capture Demonstration Projects Program
  - Industrial Emission Demonstration Projects
  - Carbon Storage Validation and Testing
  - Four Regional Class Direct Air Capture Hubs

**Goals Include:**

- Decarbonizing our economy is possible through affordable ways
- With BIL investments, scientists and researchers can demonstrate new technologies and prove them out at scale
- Law will deliver these techs out of the lab and deliver them into US economies
- At scale prove values of tech
- & create good paying construction and operations jobs across the country
- Leverage public private partnerships to pave the way to commercialization
- New Office: Office of Clean Energy Demonstrations: hydrogen, carbon capture, grid scale energy storage, advanced nuclear and more

**Priority #3: Expanding Access to Energy Efficiency and Clean Energy...First round of funds expected to release soon**

- Weatherization Assistance Program
- Grant for Energy Efficiency and Renewable Energy Improvements at Public School Facilities
- Energy Efficiency Conservation Block Grant Program
- State Energy Program

**Goals Include:**

- Create quality jobs, open access, & improvements to home, commercial, and school buildings
- The Secretary is establishing Office of State and Clean Energy programs.
- Expect these investments will demand for tech efficient solutions such as solar power and batteries and ops
- Cleaner air means lower health care bills, especially for communities of color who have been disproportionately impacted by pollution
- Weatherization: focuses on reducing energy bills to low income households. Ops for states and communities to connect funding to funding with HRSA and HUD to put together a larger pool of funding
- Schools: HVAC, solar, reducing bills, energy is the second biggest cost of schools after salaries

**Priority #4: Manufacturing Workforce: (Expected 3rd Quarter of 2022)**

- Battery Material Processing Grants
- Battery Manufacturing and Recycling Grants
- Rare Earth Elements Demonstration Facility
- Advanced Energy Manufacturing and Recycling Grants

**Goals Include:**

- \$23 trillion opportunity by end of the decade for clean energy technologies
- Really want to be leaders across the world in clean energy tech
- Means more good paying jobs up and down the supply chain, more opps for businesses, wind turbine plates, electric cars, solar panels built here in US with American made steel, more economic growth and diversity in communities across the country. A strong supply chain also bolsters us independence and security.
- Need to be more energy independent, especially in light of recent events
- DOE released first ever strategy to secure energy industrial report “America’s strategy to secure the supply chain for a robust energy transition”