



U.S. DEPARTMENT OF  
**ENERGY**

# **BIL and IRA Implementation at DOE**

Under Secretary for Infrastructure



# Agenda

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- **Introduction to The Under Secretary for Infrastructure**
- **Overview of BIL and IRA**
- **Q/A Discussion**

# Our Mission

Catalyzing the nation's equitable transition to a clean, secure, affordable, and resilient energy system



Lowering energy bills for households and businesses



Creating good jobs and boosting energy supply chains and domestic manufacturing



Advancing world-class, next generation clean energy technology demonstrations



Making the energy system more secure, reliable, and resilient



# Congress has given DOE new mandates and unprecedented funding

Hydrogen

Buildings: efficiency & electrification

Carbon Management

Energy Storage

Electric Grid

Cybersecurity

**\$90B in Grants and Rebates**  
**\$250B+ In Loans and Loan Guarantees**

Critical Minerals/Materials

Domestic Supply Chains

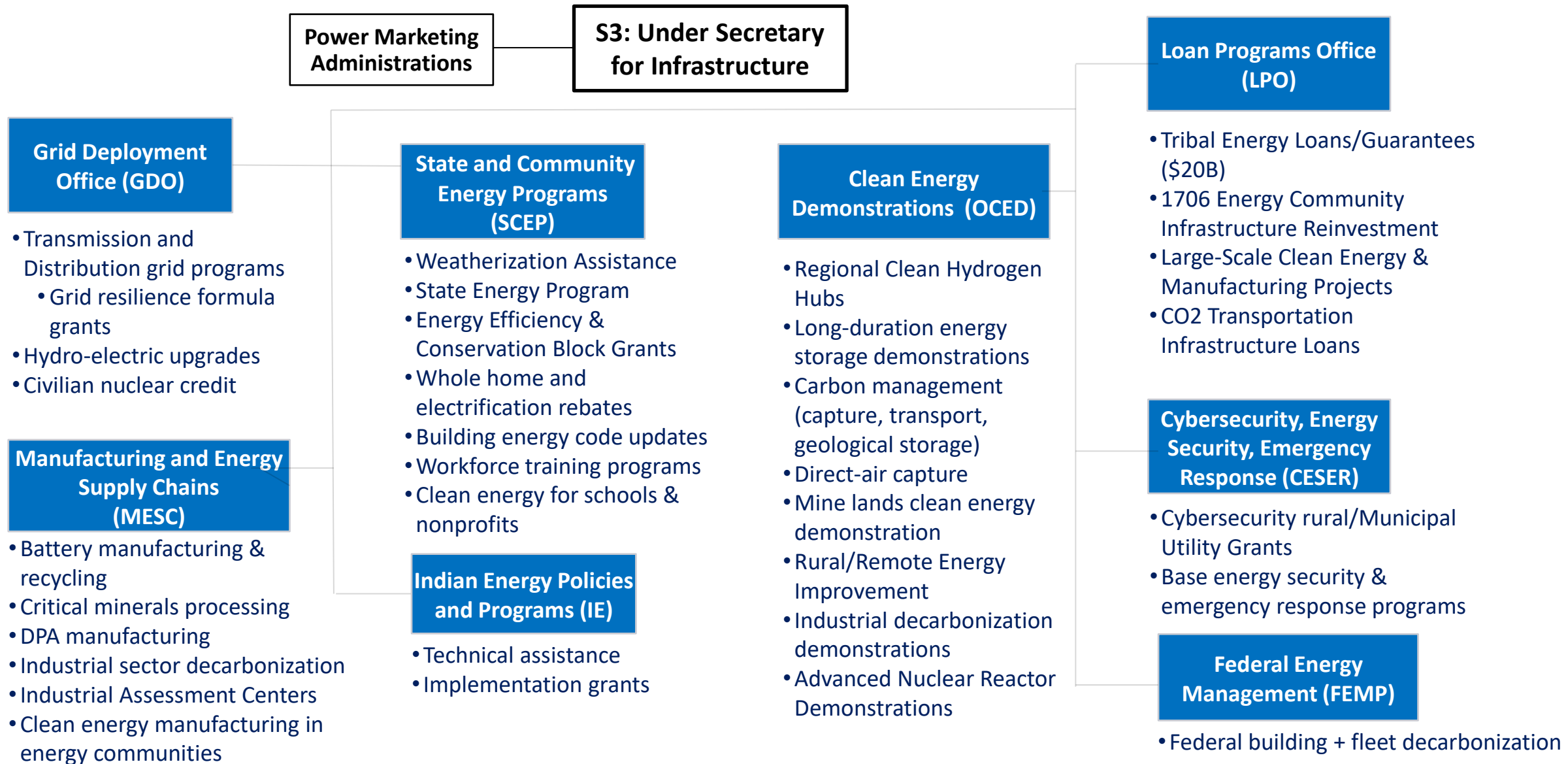
EVs and Chargers

State, Local, Tribal Partnership

Workforce

Clean Energy Projects

# Our Offices Are Organized Around These New Investments



# We are embedding key DOE priorities into our work

- **Justice 40**
  - Meet or exceed the objectives of the Justice40 initiative that 40% of benefits accrue to disadvantaged communities
- **Diversity, Equity, Inclusion, and Accessibility**
  - Equitable access to wealth building opportunities (teaming, access to good jobs, business and contracting opportunities, etc.)
- **Good Jobs**
  - Create good-paying jobs to attract and retain skilled workers and ensure workers have a voice on the job over decisions that affect them (wages, working conditions, safety, etc.)
- **Workforce and Community Agreements**
  - Meaningful engagement with community and labor partners leading to formal agreements



\*In most cases, Community Benefits Plans equate to 20% of the technical merit points for project proposals

# FUNDING ANNOUNCED

- Hydrogen Hubs
- Grid Programs
- Transmission Facilitation Program
- Battery Supply Chains
- Weatherization
- State Energy Program
- Long Duration Energy Storage
- Carbon Management Programs
- Advanced Reactor Demos
- State Revolving Loan Funds
- Civil Nuclear Credit
- Energy Efficiency and Conservation Block Grants
- Direct Air Capture Hubs
- Energy Improvements in Rural and Remote Communities
- Industrial Decarbonization



**\$44  
BILLION**

# Where we're going – \$53B more



- Advanced Energy Manufacturing & Recycling Program
- Energy Infrastructure Reinvestment Program
- Transmission Financing
- Home Energy Rebates
- Building Energy Code improvements
- Hydroelectric Incentives
- Federal Building Decarbonization (AFFECT)



# A Few Highlights

## Battery Manufacturing and Recycling Selections

- Oregon-based Entek was selected for a \$200 million grant from the BIL to expand their battery component manufacturing capacity.
- At full operation, this facility will be capable of producing enough material for 1.4 million EVs annually.

## Industrial Assessment Center Expansion *[Example]*

- A local community college wants to provide on-the-ground training opportunities for students. They apply to host an Industrial Assessment Center to give students the opportunity to embed with local manufactures and learn how to improve their processes.
- The student then takes an IAC grant and works with the business to implement their recommendation and help increase their efficiency and reduce their emissions

## Weatherization Assistance Program

- Using new funding through the BIL, a local nonprofit is able to hire more contractors and provide free weatherization services to low income homeowners. Those homeowners then can save \$\$\$ on their energy bills
- Individuals can find more information on this program at the Oregon Department of Housing and Community Services website: [www.oregon.gov/ohcs/energy-weatherization](http://www.oregon.gov/ohcs/energy-weatherization).

# Engaging with DOE Competitive Funding Opportunities

## Request for Information (RFI)

- This is your opportunity to provide feedback on how DOE designs our programs
- Help us understand challenges and opportunities
- Provide your perspective and expertise

## Notice of Intent (NOI)

- Overview of DOE's proposed funding opportunity
- See where and how we are targeting spending
- Understand if a funding opportunity could be right for you

## Funding Opportunity Announcement (FOA)

- Submit your proposal, project plan, and supporting documents
- Demonstrate why your project will be successful and maximize impact
- Bring together a strong applicant team

Attend Program Specific Stakeholder Engagement Events/Webinars

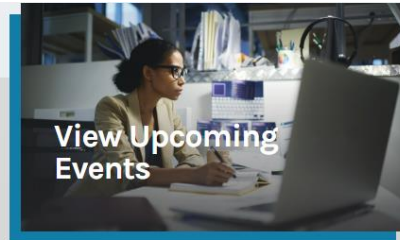
# Technical Assistance and Engagement

## SCEP State and Local Solution Center

- Resource hub for state and local governments as well as K-12 school districts
- SCEP hosts a variety of webinars with a specific focus on soliciting stakeholder input and providing information to help apply for and deploy DOE programs effectively and efficiently
- <https://www.energy.gov/scep/slsc/state-and-local-solution-center>

## Other TA and Assistance

- While DOE cannot provide applicants assistance in filing out applications many programs have technical assistance options to help understand technology and project options.
- Upcoming partnerships with other agencies to provide TA, including through EPA's Thriving Community Technical Assistance Centers (TCTAC)



# Stay Connected

Visit [energy.gov/clean-energy-infrastructure](https://energy.gov/clean-energy-infrastructure) for announcements and sign up for email updates.

Find **funding opportunities** and access detailed **program information**.

## Sign up for Updates

To receive the latest news and updates about clean energy infrastructure funding opportunities, events, and resources, sign up for our newsletter and email updates.



Browse **Frequently Asked Questions (FAQs)** for answers to commonly asked questions.

## Clean Energy Infrastructure Programs at Department of Energy

Clean Energy Infrastructure » Clean Energy Infrastructure Programs at Department of Energy

Search:

Federal Law -

Bipartisan Infrastructure Law

Inflation Reduction Act

DOE BIPARTISAN INFRASTRUCTURE LAW AND INFLATION REDUCTION ACT PROGRAMS

Showing 1 to 87 of 87 entries

PROGRAM NAME	DOLLARS
<a href="#">Advanced Energy Manufacturing and Recycling Grant Program</a>	\$750,000,000
<a href="#">Advanced Industrial Facilities Deployment Program</a>	\$5,812,000,000
<a href="#">Advanced Reactor Demonstration Program</a>	\$2,477,000,000
<a href="#">Advanced Solar Energy Manufacturing Initiative</a>	\$20,000,000

# Q and A

# Appendix

# Supporting Domestic Manufacturing

## Battery & Critical Material Supply Chain

- **Overview:** Program to fund battery supply chain manufacturing including refining, component, assembly, and recycling
- **Funding:** \$3 Billion remaining in program
- **Eligible Entities:** businesses looking to build or expand their manufacturing capacity for the energy supply chain
- **Status:** Funding announcement expected in Q2 of CY23

## Domestic Conversion Grants

- **Overview:** Program to fund the retooling and conversion of existing businesses from the Internal Combustion Engine (ICE) supply chain to Hybrid/Electric/Hydrogen vehicle supply chain
- **Funding:** \$2 Billion
- **Eligible Entities:** Automobile manufacturers/component manufacturers
- **Status:** RFI Coming soon, Funding announcement over the Summer

# Supporting Domestic Manufacturing

## Advanced Energy Manufacturing and Recycling

- **Overview:** Grants to small/medium manufacturers to build/expand/retool for clean energy projects
- **Funding:** \$750 million
- **Eligible Entities:** Small/medium manufacturers in communities with coal plant or coal mine closures
- **Status:** FOA is currently open, 2<sup>nd</sup> FOA expected in Winter 23/24

## Advanced Energy Project Investment Credit

- **Overview:** Investment tax credit to build or retrofit facilities that produce clean energy products. Credits will be allocated on a competitive basis.
- **Funding:** \$10 billion
- **Eligible Entities:** Manufacturers, with 40% of available credits going to qualifying energy communities
- **Status:** NOI on 2/13, full application available Q2 CY2023



# Decarbonizing and Growing American Industry

## Industrial Emissions Program

- **Overview:** Grants to support new build, retrofits, or decarbonization of carbon-intensive industrial processes
- **Funding:** \$6.3 Billion
- **Eligible Entities:** Businesses in carbon-intensive sectors like cement, iron/steel, paper/pulp, chemicals, etc.
- **Status:** FOA released on 3/8 with concept papers due on 4/21

## Industrial Assessment Centers

- **Overview:** Funding to create Industrial Assessment Centers at community colleges and trade schools to give students hands on experience improving industrial processes, and providing grants to manufacturers to implement those improvements.
- **Funding:** \$550 Million
- **Eligible Entities:** Colleges, Universities, Community Colleges, Trade Schools, Union Training Programs
- **Status:** Funding coming Q2 CY2023

# Investing in Communities

## Energy Improvements in Rural or Remote Areas

- **Overview:** Grants for projects in rural/remote areas that increase energy efficiency or improve overall cost-effectiveness of energy generation, transmission, and distribution lines
- **Funding:** \$1 billion
- **Eligible Entities:** Utilities, state/local gov'ts, community-based organizations, Tribes, and cities, towns, and unincorporated areas with populations <10k
- **Status:** First \$300M announced March 1, concept papers due April 14

## Clean Energy Demonstrations on Former Mine Land

- **Overview:** Up to five grants/cooperative agreements for projects that demonstrate the technical + economic viability of clean energy projects on current and former mine land
- **Funding:** \$500 million
- **Eligible Entities:** Private sector clean energy developers
- **Status:** Funding announcement expected later this month

# Ensuring the Resiliency and Reliability of our Grid

## Grid Resilience and Innovation Partnership Program

- **Overview:** Grants to enhance grid flexibility and improve the resilience of the power system against extreme weather
- **Funding:** \$10.5 billion
- **Eligible Entities:** Utilities, state/local gov'ts, for-profit entities, non-profit entities, institutions of higher education, public utility commissions
- **Status:** First \$3.8B announced in 2022, applications closed late 2022/early 2023. Second round of funding anticipated FY 2024.

# Lowering Costs & Improving Home Efficiency for Consumers

## Home Efficiency Rebates

- **Overview:** Rebate program administered by states and Tribes for consumers who purchase home energy efficiency upgrades that are predicted to save at least 20% of the home's energy use
- **Funding:** \$4.3 billion
- **Eligible Entities:** States, who then administer these programs to low- and moderate-income households
- **Status:** Currently in program design phase; first tranche of funds to states expected late 2023/early 2024

## Home Electrification & Appliance Rebates

- **Overview:** Rebate program administered by states and Tribes for consumers who purchase high efficiency home appliances and equipment
- **Funding:** \$4.5 billion
- **Eligible Entities:** States, who then administer these programs to low- and moderate-income households
- **Status:** Currently in program design phase; first tranche of funds to states expected late 2023/early 2024

<https://www.energy.gov/scep/home-energy-rebate-programs-frequently-asked-questions>

# Lowering Costs & Improving Home Efficiency for Consumers

EQUIPMENT TYPE	TAX CREDIT AVAILABLE FOR 2022 TAX YEAR	UPDATED TAX CREDIT AVAILABLE FOR 2023-2032 TAX YEARS
<b>Home Clean Electricity Products</b>		
Solar (electricity)	30% of cost	
Fuel Cells		
Wind Turbine		
Battery Storage	N/A	30% of cost
<b>Heating, Cooling, and Water Heating</b>		
Heat pumps	\$300	30% of cost, up to \$2,000 per year
Heat pump water heaters		
Biomass stoves		
Geothermal heat pumps	30% of cost	
Solar (water heating)		
Efficient air conditioners*	\$300	30% of cost, up to \$600
Efficient heating equipment*		
Efficient water heating equipment*	\$150	30% of cost, up to \$600
<b>Other Energy Efficiency Upgrades</b>		
Electric panel or circuit upgrades for new electric equipment*	N/A	30% of cost, up to \$600
Insulation materials*	10% of cost	30% of cost
Windows, including skylights*	10% of cost	30% of cost, up to \$600
Exterior doors*	10% of cost	30% of cost, up to \$500 for doors (up to \$250 each)
Home Energy Audits*	N/A	30% of cost, up to \$150
Home Electric Vehicle Charger	30% of cost, up to \$1,000	30% of cost, up to \$1,000 **

\* Subject to cap of \$1200/year

\*\* The IRS will soon publish further information on eligibility requirements related to home electric vehicle chargers, but we know that credits are intended for residents in non-urban or low-income communities.

## Home Energy Equipment tax credits:

- Residential rooftop solar panel credits at up to 30% of cost can save roughly **\$7,500 for the average household**
- The average household can save **more than \$9,000** over the life of their solar system, or **nearly \$400 annually**
- Up to a **\$2,000 tax credit** for purchase/installation of efficient heating, cooling, and water heating equipment, such as an electric heat pump
- Up to a **\$1,200 tax credit** for other home improvements that reduce energy waste
- Administered by the IRS/Treasury