

### NASEO State Industrial Working Group: DOE Advanced Energy Manufacturing Grants and Industrial Demonstration Program + Focus on Connecticut March 1, 2023, 3:00 pm ET



Welcome and Introduction

Rodney Sobin, NASEO

**DOE Advanced Energy Manufacturing and Recycling Grants** 

Amanda Mays, Manufacturing Assistance Program Manager, Office of Manufacturing and Energy Supply Chain (MESC), U.S. DOE

#### **DOE Industrial Demonstration Programs**

Christina Walrond, Stakeholder Engagement Lead, Office of Clean Energy Demonstrations (OCED), U.S. DOE

#### **Connecticut Focus**

Paul Lavoie, Chief Manufacturing Officer, State of Connecticut Lidia Ruppert, Bureau of Energy and Technology Policy, CT Dept. of Energy and Environmental Protection

States updates and discussion



Wrap-up





NASEO State Industrial Working Group: DOE Advanced Energy Manufacturing Grants and Industrial Demonstration Program + Focus on Connecticut March 1, 2023, 3:00 pm ET

Logistics:

Please mute when not speaking

- This Forum is meant to be interactive we encourage discussion. Please use "raise hand" to be recognized or use chat function.
- We will record presentations; discussion portion will not be disseminated.

https://www.naseo.org/naseo-state-industrial-working-group

- Help State Energy Offices and others to identify, develop, and enhance resources to advance clean manufacturing/industry.
- Enhance cooperation and coordination across technical and business assistance programs.
- Support economic development and productivity, emissions and environmental, and energy reliability and resilience objectives.
- Strengthen existing industries.
- Advance new technologies and industries.

### NASEO State Industrial Working Group https://www.naseo.org/naseo-state-industrial-working-group

Working Group

California

Colorado	North Carolina
Connecticut	Pennsylvania
Indiana	South Carolina
Kentucky	Tennessee
Maine	Utah
Michigan	Washington
Mississippi	Wisconsin
New York	

State Energy Offices and others

Inquiries: industry@naseo.org

## NASEO State Industrial Working Group

https://www.naseo.org/naseo-state-industrial-working-group

- Web resources and e-mail updates
  - Technical and business assistance programs
  - Funding and financial provisions (incl. IIJA/BIL & IRA)
  - Reports, studies, tools, organizations.
- Forums and exchange candidate topics
  - Industrial Assessment Centers
  - IRA tax credits: 45X and 48C
  - NIST Manufacturing Extension Partnership; EPA ENERGYSTAR Industrial Program
  - Onsite Energy Technical Assistance Partnerships; Better Buildings/Better Plants
  - Renewable Thermal Collaborative (RTC) Renewable Thermal Vision; Indus. Electrification
  - DOE Industrial Decarbonization Roadmap; DOE Heat Shot
  - Defense Production Act; CHIPS and Science Act provisions
  - Plus, State Focus Features
- State cases studies experiences, lessons

We welcome your feedback and suggestions!

# Advanced Energy Manufacturing & Recycling Grant Program

## **Bipartisan Infrastructure Law § 40209**



## **Overview: Office of Manufacturing and Energy Supply Chains**



<u>Mission</u>: **Strengthen and secure** manufacturing and energy supply chains needed to modernize the nation's **energy infrastructure** and **support a clean** and **equitable energy transition**.



- ~ \$16 Billion in programs of grants and industrial tax credits
- Scale-Up and Deployment of new manufacturing infrastructure
- Support Manufacturing Facility Upgrades to achieve decarbonization Goals
- Bolster small and medium manufacturing enterprises and support communities in energy transition.
- Develop domestic manufacturing clean energy workforce capabilities and resources

### **Overview: BIL 40209**

#### \$750 Million in funding available through FY 2026

Initial funding up to \$350M, awards between \$5M- \$100M

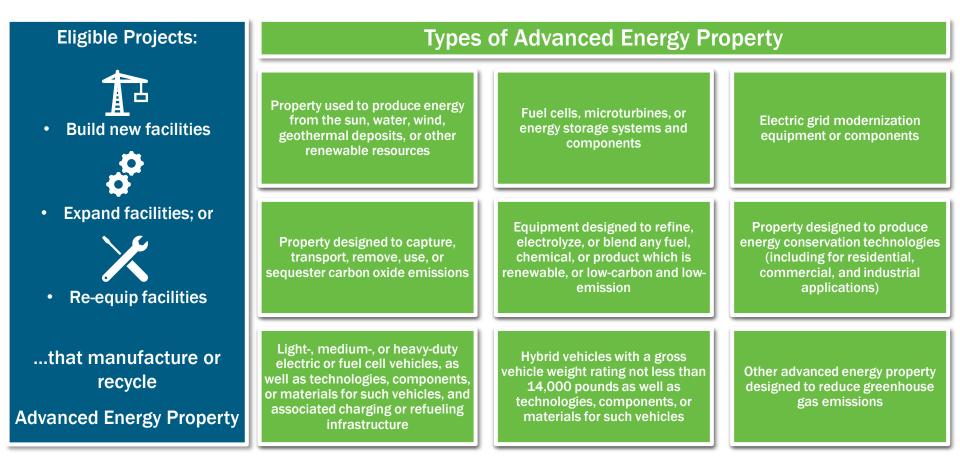
Benefiting small- and medium-sized manufacturing firms

- Gross annual sales of less than \$100 million
- Fewer than 500 employees at the plant site of the manufacturing firm; and
- Annual energy bills that total between \$100,000 \$2,500,000

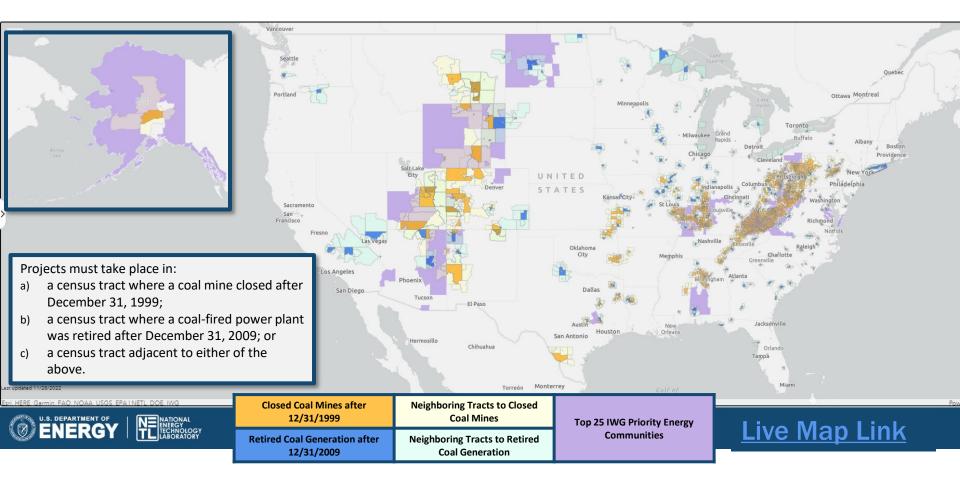
Priority to firms that are minority-owned

Projects in communities that have experienced coal mine or coal-fired power plant unit closures

### What are Eligible Projects? Advanced Energy Property Projects



### Where can Projects take place? Eligible Census Tracts



### **Anticipated Award Breakdown**

# Topic 1: Build <u>new</u> clean energy manufacturing or recycling facilities.

<ul> <li>Anticipated Federal Award Size:</li> </ul>	\$10M - \$100M
<ul> <li>Anticipated Number of Awards:</li> </ul>	3 - 15
<ul> <li>Anticipated Topic Size:</li> </ul>	\$150M

Topic 2: Re-equip or expand <u>existing</u> facilities to manufacture or recycle clean energy property.

<ul> <li>Anticipated Federal Award Size:</li> </ul>	\$5M - \$100M
<ul> <li>Anticipated Number of Awards:</li> </ul>	3 - 20
<ul> <li>Anticipated Topic Size:</li> </ul>	\$200M

### **Community Benefits Plan**

#### 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



## **Additional Engagement Opportunities**

### Advanced Energy Manufacturing and Recycling Grant Program

https://www.energy.gov/bil/advanced-energy-manufacturing-and-recycling-grants

#### Read the Funding Opportunity Announcement (FOA)



#### Join the Program's Teaming Partner List

DOE is compiling a "Teaming Partner List" to facilitate forming of new project teams for Program

- Express your participating interest to other applicants
- Explore potential partnerships

Updates to the Teaming Partner List will be available on the OCED Exchange <u>website</u> and updated regularly

Submission instructions can be found in the Funding Opportunity Announcement



## **Questions?**

## Email: <u>40209program@hq.doe.gov</u>

## Thank you!



# **Additional MESC Programs**



## **BIL Section 40534:** State Manufacturing Leadership Program

NOI: Issued February 10, 2023 FOA: Expected Q1 2023





## **Program Overview**

February 10, 2023 NOI Announcement: up to \$50 M in anticipated funding

- Eligibility: Open to States (including but not limited to state energy or economic development offices).
- Awards of up to \$2 million with a 3-year term and at least a 30% cost match
- Program will support new or expanded State Programs that exhibit leadership in accelerating deployment of **smart manufacturing technologies** and access to **high-performance computing** resources by:

Promoting deployment of smart manufacturing technologies to SMMs	Connecting SMMs with a diverse coalition of public and private technical assistance providers	Partnering with labor and workforce organizations to expand and diversify the smart manufacturing talent pool
Developing, scaling, and promoting smart manufacturing training that can foster innovation on SMM shop floors	assistance to facilitate SMMs' access to and implementation of smart manufacturing resources and	Setting targets and goals for program participation and desired outcomes by and across the state applicant
for participation in SMMs' smart-manufacturing programs, including disadvantaged communities and displaced workers; and establish means for long-term sustainability of		FOA Anticipated: March 2023

program resources and results

U.S. DEPARTMENT OF ENERGY

## **Anticipated Program Design**

Fostering opportunities for States to support Smart Manufacturing adoption and HPC access for SMMs through existing technical assistance (TA) providers and technical programs

#### **Existing TA Resources State Programs** Expertise available to: Deliver workforce training **SMMs** Proposed use of funds Provide access to technology resources Create/expand TA Programs Facilitate use of HPC technology Receive Identify TA Providers Training and TA from state-run Provide financial assistance for Smart programs **Example resources:** Manufacturing adoption and HPC access Financial assistance for technology Manufacturing USA Institutes • Leverage existing regional/state resources and resource adoption / access NIST MEPs Recruit SMMs to participate in the program Access to resources available through National Laboratories existing smart manufacturing Assist SMMs with accessing in-state or resources Institutes of Higher Education national resources

## **Additional Engagement Opportunities**

### **State Manufacturing Leadership Program**

https://www.energy.gov/mesc/manufacturing-leadership-sec-40534

#### **Notice of Intent**

3	MESC	

Notice of Intent (NOI) No. DE-FOA-0002968

DISCLAIMER: This NOI is for informational purposes only. The Department of Energy (DDE) is in seeking comments on the information in this NOI or accepting applications at this time. A information contained in this NOI is subter to change.

> This is a Notice of Intent to issue Funding Opportunity Announcement (FOA) No. DE-FOA-000290

ipartisan Infrastructure Law: State Manufacturing Leadership Program (Section

The United States Department of Energy(DOE) Office of Manufacturing and Energy Subply Chains (MESC) Intends to Issue a Enrolling Copportunity Annoncement (EOA) titled "Bipartian Infrastructure Law: State Manufacturing Leadership Program (Section 40534)." MESC Intends to Issue the FOA in the Manufacturing Leadership Program (Section 40534)." MESC Intends to Insue the FOA in the Manufacturing Leadership Program (Section 40534)." MESC Intends to Insue the FOA in the Manufacturing Leadership Program (Section 40534)." MESC Intends to Insue the FOA in the Manufacturing Leadership Program (Section 40534)." MESC Intends to Insue the FOA in the Manufacturing Leadership Program (Section 40534)."

On November 15, 2021, President Joseph R. Biden, Jr. signed the Bit, a one-in-ageneration investment in infrastructure, designed to moderate and upgrade American infrastructure to enhance United Educe competitivenes, dive the creation of good-payer jurin plots. Loade the disturbance crisis, and ensure stronger access to economic, environmental, and other benefits fo disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some than 562 billion to DOI to ensure the disadvantaged communities.<sup>1</sup> The Bit agregoration some disadvantaged communities after the source of the disadvantaged communities after the disadvantaged communities.<sup>1</sup> The Bit agregoration some disadvantaged communities after the disad

clean energy future delivers true economic prospenty to the American people by: • Investing in American manufacturing and workers, including supporting high-paying jot with the free and fair choice to join a union, and effective workforce development 1 upikili incumbert, inderegresented, and dislocated workers.

 Expanding access to energy efficiency and clean energy for families, communities, businesses.
 Deliversize reliable, clean, and affordable power to more Americans.

Delivering relable, clean, and affordable power to more Americans.
 Building the technologies of tomorrow through clean energy demonstratio

The anticipated FOA will support Bit. Section 40534, which establishes the State Manufactoris Exadership Program (the "Program"), DOE anticipates that the POA will award financial assistant in the form of cooperative agreements to State's (including, but not limited to, state energy '

<sup>1</sup> observative sweetweet and also Ad, Malic Law 127-16 (Nov. 18, 2011). <sup>1</sup> Processor 4.6.3. Selfs and the difference of the suggestion and adaptive transmissional segmentations (Salara) with the second secon

his is an NOI only. DOE may issue a FOA as described herein, may issue a FOA that d grificantly from the FOA described herein, or may not issue a FOA at all.

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Submission instructions can be found in the Notice of Intent

## BIL Section 40521: Industrial Assessment Centers





DOE's IAC Program has worked with universities for more than 40 years to:

- Provide technical assistance to small- and medium-sized manufacturing firms in areas including energy efficiency, smart manufacturing, cybersecurity, and more
- Train the next generation of energysavvy engineers

The Program supports small- and mediumsized manufacturers with:

- Gross annual sales < \$100M
- < 500 employees at the plant site
- Annual energy bills > \$100K but <</li>



PROCUREMENT SENSITIVE - DOE INTERNAL DOCUMENT

#### IAC Program Expansion - \$150M over FY '22-'26

5 Regional Centers of Excellence @ Existing IHE IACs	New IAC Clearinghouse of centralized training & education, resources, grants, and technical assistance offerings	Federal 50% cost share for apprenticeship & internship programs
Expand IACs to Community Colleges, Trade Schools, Union Training Programs	Increased coordination with USG, State, Tribal, and local entities, energy service providers and private sector	

#### IAC Implementation Grants - \$400M over FY'22-'26

Grants of  $\leq$  \$300K each to small and medium-sized manufacturers (SMMs) to implement recommendations made in IAC assessments or assessments deemed equivalent

PROCUREMENT SENSITIVE - DOE INTERNAL DOCUMENT





Office of Clean Energy Demonstrations



### Upcoming Transformative Demonstration and Deployment Opportunities for U.S. Industry

U.S. Department of Energy

Notice of Intent No.: DE-FOA-0002935

## Disclaimer

Since we are in the active funding process, for purposes of fairness we do have some legal restrictions right now:

- DOE can only communicate public and non-privileged information during this event.
- DOE cannot discuss the details of active or planned financial assistance matters [e.g., Requests for Information (RFI), Notices of Intent (NOI), Funding Opportunity Announcements (FOA)] or entertain requests for a specific outcome or benefit related to a financial assistance activity.
- Please do not submit information to DOE that is confidential and exempt by law from public disclosure except where required or requested in connection with a formal DOE process. Outside of a formal DOE process, any information submitted to DOE, including business confidential information, is subject to public disclosure without redaction in accordance with applicable law and regulation and, by its submission, is deemed to constitute consent to DOE's public disclosure of such information.



## **OCED's Mission**

Deliver clean energy technology demonstration projects at scale in partnership with the private sector to accelerate deployment, market adoption, and the equitable transition to a decarbonized energy system.

## **OCED's Scope**

OCED is a multi-technology office tapped by the Bipartisan Infrastructure Law and the Inflation Reduction Act for

## \$25+ billion

and is collaborating closely with experts across the Department.

## **OCED's Portfolio**

Regional Clean Hydrogen Hubs (\$7 billion)

Carbon Management (\$7 billion)

Industrial Demonstrations (\$6.3 billion)

Advanced Reactor Demonstrations (\$2.5 billion)

4

Long-Duration Energy Storage Demonstrations (\$505 million)

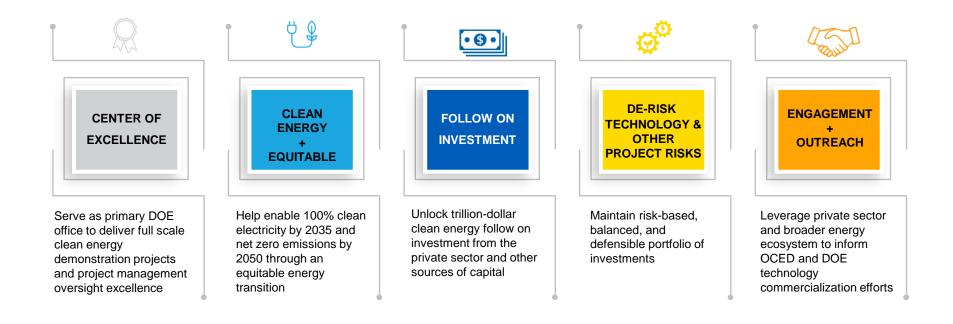
Energy Improvements in Rural or Remote Areas

(\$1 billion)

Clean Energy Demonstrations on Mine Land (\$500 million)



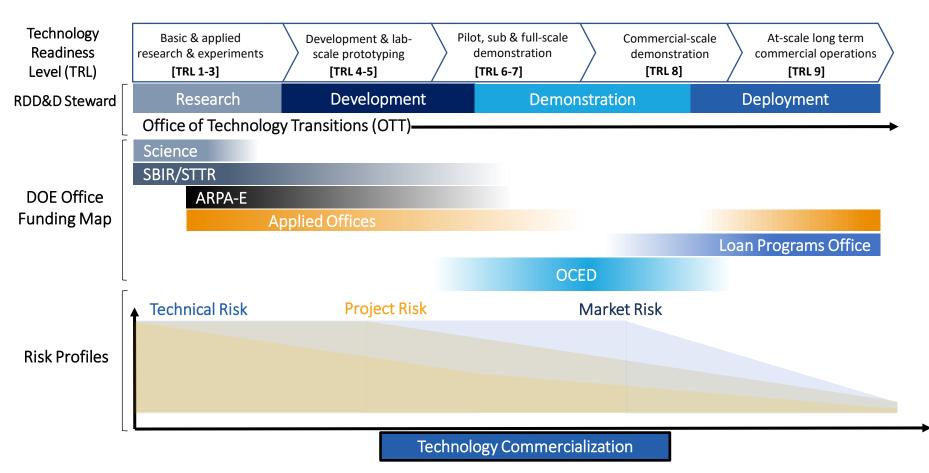
### **OCED's Mandate**





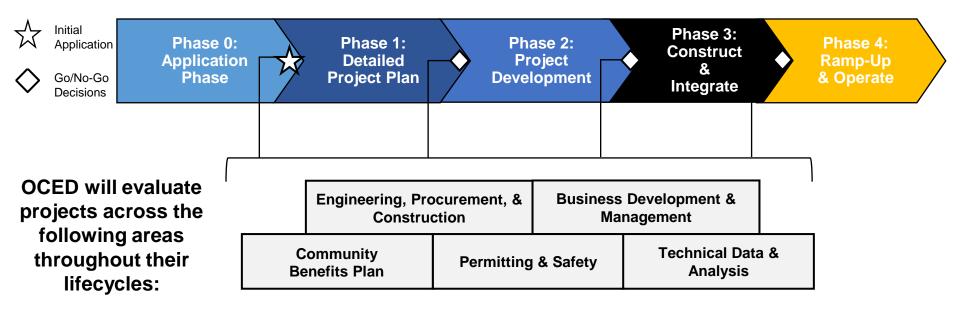


### **OCED's Role within the U.S. Department of Energy**





### **OCED's Project Management Approach**



Independent project review teams will conduct regular project evaluations in accordance with the office's center of excellence for demonstration project management oversight.



# **Industrial Demonstrations Program**

## **Program Purpose**

# Up to \$6.3 billion

- to demonstrate transformational technologies necessary to decarbonize energy-intensive industries
- to drive a U.S. competitive edge in low- and net-zero carbon manufacturing
- to help **build a market for green products** through high-impact, replicable solutions



Roadmap for Industrial Decarbonization* The U.S. industrial sector accounts for nearly one third of the nation's carbon emissions.			
It is considered a "difficult-to-decarbonize" sector: <ul> <li>the diversity of energy inputs</li> <li>a wide array of industrial processes and operations</li> <li>emissions are from fuel for heat/power (64%) and feedstock/processes (32%)</li> </ul> <li>NECESSARY DECARBONIZATION PATHWAYS</li>			
Energy Efficiency	Industrial Electrification	Low Carbon Fuels, Feedstocks, and Energy Sources	Carbon Capture, Utilization and Storage (CCUS)
Provides near-term decarbonization opportunities without major changes to industrial processes.	>50% of manufacturing process energy is used for thermal processing, and <5% of these operations are electrified.	Low or no carbon energy sources, from green hydrogen to synthetic fuels, enable broader decarbonization.	Mitigates emissions that are difficult to abate through other strategies.

\*U.S. DOE Industrial Decarbonization Roadmap, 2022; https://www.energy.gov/eere/doe-industrial-decarbonization-roadmap



## **Eligible Facilities and Subsectors of Focus**

# Domestic, non-Federal, nonpower industrial or manufacturing facilities engaged in energy-intensive industrial processes, including\*:

iron, steel, and steel mill	pulp and paper	
products	industrial ceramics	
aluminum	chemicals	
cement and concrete	other energy intensive industrial	
glass	sectors	

DOE is also interested in crosscutting opportunities that may address multiple facilities or sectors.

\*Section 50161(g)(3) of the Inflation Reduction Act.



## **Program Priorities**

#### decarbonization

Direct facility- and product-level **GHG** emissions reductions

Industry-wide potential for GHG emissions reduction **Financial and market viability**, with priority for partnerships with green product purchasers

**Replicability** and potential for adoption by other facilities

uptake

#### community

# Benefit creation for the greatest number of people in nearby communities, such as:

creation and retention of quality jobs

diversity, equity, inclusion, and accessibility

benefits flowing to disadvantaged communities

reduction in air quality impacts



## **Anticipated Program Scope**

#### **Bipartisan Infrastructure Law** up to \$500M



~\$10M – \$250M / project (Fed. share) with at least 50% non-Federal cost share

~2 – 10 projects



A.

Testing and validation for emissions-reducing technologies

Facility projects/retrofits (greenfield or brownfield)

No funding deadline by statute.

#### Inflation Reduction Act up to \$5.812B

~\$35M – \$500M / project (Fed. share) with at least 50% non-Federal cost share

~35 - 75 projects

Single production line and unit process retrofits

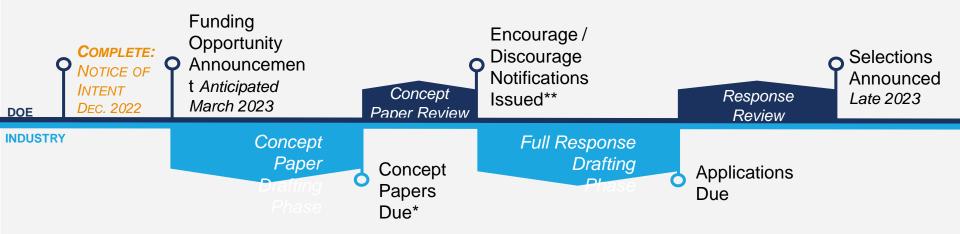
Multi-facility retrofits and/or brownfield development using a common technology base or approach

Multi-facility retrofits and/or brownfield development utilizing common infrastructure (e.g., electrical or thermal inputs, storage and similar)

Projects must have passed critical risk milestones by Sept. 30, 2026. Full FOA will include additional detail.



## **Anticipated Timeline**



Specific dates to be included in the Funding Opportunity Announcement. All dates approximate and subject to change.

\*Applicants must submit an eligible concept paper to be eligible to submit a full application, which will be requested following the concept paper notifications.

\*\*An encourage/discourage notification does not preclude any entity that submitted a concept paper from submitting a full application.



# **Community Benefits Plan**



#### **Energy and Environmental Justice in OCED**

OCED seeks to become a center of excellence in advancing energy and environmental justice in large-scale demonstration projects within the federal government to support an equitable energy transition

- All OCED-funded projects incorporate requirements for Community and Labor engagement; and Quality Jobs and Workforce Development; Diversity, Equity, Inclusion, and Accessibility; and the Energy and Environmental Justice and Justice40 Initiative.
- OCED collaborates with offices across DOE to support and implement the Justice40 Initiative.
- All OCED programs are covered under the Justice40 Initiative.



#### **Community Benefits Plan**

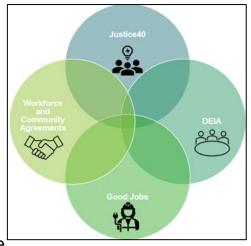
DOE will require a Community Benefits Plan for all applicants that will guide meaningful engagement throughout the project lifecycle.

- The Community Benefits Plan (CBP) includes 4 standard topics:
  - o Community and labor engagement;
  - Workforce development and quality jobs;
  - o Diversity, equity, inclusion, and accessibility; and,
  - The Justice40 initiative.

Section 50161 of the IRA\* supports this goal by giving priority to projects that support **benefit creation for the greatest number of people in nearby communities:** 

- The CBP will be implemented and updated during each project phase and will be included in go / no-go decision criteria.
- Guidance documents to support applicants in developing their plans will be provided with the FOA.

\*Section 50161(d)(2) of the Inflation Reduction Act.





# Context, Considerations, and Next Steps

#### **Opportunity Context for this Notice of Intent**

italics denote currently closed; visit the links for more on future opportunities

The Energy Efficiency and Renewable Energy (EERE) Funding Opportunities page.

	Research	Development	Demonstration	Deployment	
	Materia AMMTO	Iulti-topic FOA: Next Ge Is & Manufacturing Tech Papers: 2/3/23		Industrial Assessment Centers Program - Cer Of Excellence FOA MESC Applications: 2/17/2023	<u>nters</u>
Relevant Funding Across the Department	<u>Small E</u> <u>Resear</u> IEDO + A		FEED Studies OCED & the Office of Fossil Energy and Carbon Management <u>Hydrogen Hubs</u>	Advanced Clean Energy Manufacturing and Reg Grant Program NOI MESC	
	OCED & the Hydrogen & Fuel Cell Technologies Offic <u>Industrial Efficiency and Decarbonization</u> <u>FOA</u> IEDO			FOA forthcoming ce <u>Onsite Energy Technical</u> <u>Assistance Partnerships No</u> IEDO	
	out related funding oppore ergy Infrastructure progr	tunities at the Department, reg	gularly check out:	FOA forthcoming	

Office of Clean Energy Demonstrations

#### **OCED** Resources

OCED Website and Newsletter: https://www.energy.gov/oced/office-cleanenergy-demonstrations

#### Sign Up for our Newsletter and Breaking News

Subscribe and stay up-to-date on all upcoming funding opportunities, news announcements, upcoming events, and more.

OCED Exchange (e.g., RFIs, NOIs, FOAs): https://oced-exchange.energy.gov/Default.aspx

#### **OCED Funding Opportunity Exchange**

Funding Opportunity Funding Archive	New Log-in	Frocess! -in process more secure, the eXCHANGE	system has been undated to u	uso Multi Eact		
Login		eXCHANGE Login Guide for more inform	· · · · · · · · · · · · · · · · · · ·	150 WILLI-I dCl		
Register						
Manuals				ITC		
Questions & Answers	OCED FUNDING OPPORTUNITY ANNOUNCEMENTS					
	Iump to a FOA:					
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Enter Email Address

GO



### Thank you!

For more information, please visit: energy.gov/OCED

Email: OCED\_Industrial@hq.doe.gov





## THE STATE OF MANUFACTURING

#### Paul S. Lavoie

*Chief Manufacturing Officer* State of Connecticut

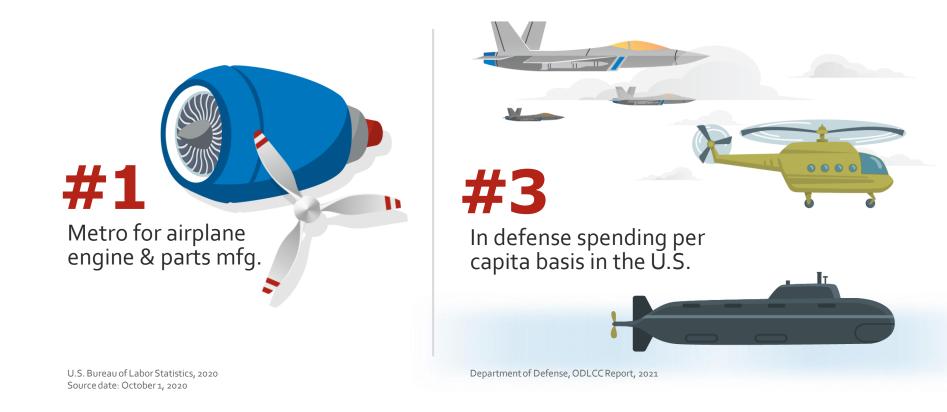
#### Lidia Ruppert

Research Analyst Department of Energy and Environmental Protection





### A STATE OF EXCELLENCE IN MANUFACTURING





#### **A STATE OF EXCELLENCE IN MANUFACTURING**





in U.S. for productivity of employees



Bureau of Labor Statistics, County Business Patterns, 2018 U.S. Bureau of Economic Analysis, 2019; U.S. Census Bureau, 2019; AdvanceCT calculations Bloomberg, 2020



#### LONG HISTORY OF INNOVATION



- Early leaders in precision manufacturing; pioneers in highly complex products
- ✓ Home to global manufacturing leaders *and* a robust supply chain
- ✓ Multiple generations of highly skilled manufacturers



### A TOP EMPLOYMENT SECTOR IN CONNECTICUT



## 4,300+

advanced manufacturers



manufacturing employees

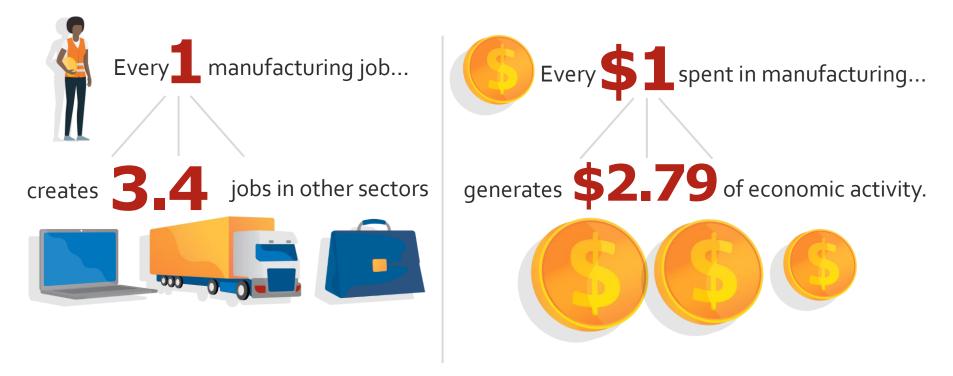
**40%** work for the top **25 companies** 

**60%** work for companies averaging less than **25 employees** 



### THE MANUFACTURING MULTIPLIER EFFECT

Manufacturing stimulates more economic activity than any other sector.



Source: U.S. Bureau of Economic Analysis, 2019; U.S. Census bureau; Organization for Economic Cooperation and Development, 2019; AdvanceCT calculations, 2020



#### THE CONNECTICUT APPROACH



- Chief Manufacturing Officer
  - Drive collaboration across the ecosystem
- Manufacturing Strategic Plan
- Manufacturing Innovation Fund
- Clean Energy Strategies
  - Clean Economy Council (EO 21-3) (DECD/DEEP)
  - ✓ Offshore Wind
  - ✓ Hydropower
  - Nuclear
  - Sustainable Aviation Fuel/Hydrogen



### FUNDING FOR MANUFACTURING TECHNOLOGY

*Grant programs designed to help Connecticut manufacturers acquire the skills, tools & resources needed to keep pace with today's rapidly evolving manufacturing ecosystem.* 

# SIRI & Cyber Assistance Program \$10,000

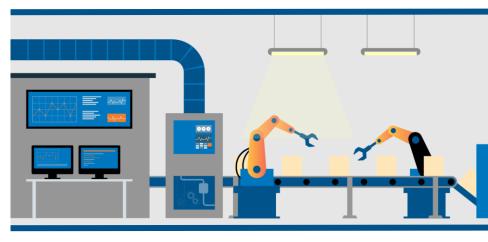
Smart Industry Readiness Index and/or Cybersecurity Assessments

# IoT Integration Voucher Program \$20,000

Implementation of IoT solutions on your manufacturing floor

#### Manufacturing Voucher Program (MVP) \$100,000

New equipment, business development or project to improve productivity and competitiveness





### FUNDING FOR WORKFORCE DEVELOPMENT

Grant programs designed to help Connecticut manufacturers acquire the skills, tools & resources needed to keep pace with today's rapidly evolving manufacturing ecosystem.

## Apprenticeship Funding Program **\$15,000**

Wage subsidy for registered manufacturing apprentices

#### Incumbent Worker Training \$50,000 Upskill training of your employees

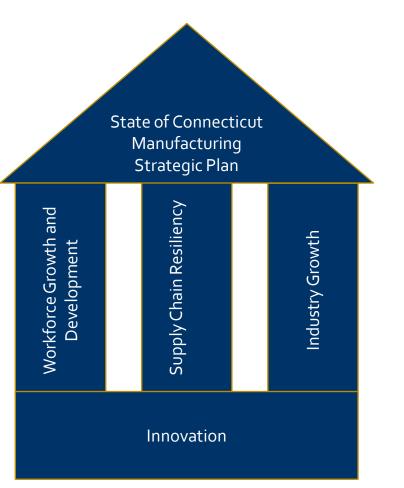
#### Engineering Internship Program Up to \$3500

Cohort-based program for interns





#### STRATEGIC INITIATIVES FOR CT MANUFACTURING



- Build a robust workforce
  - ✓ Attract workers
- Drive down costs
  - ✓ High-cost state
- ✓ Grow the industry
  - ✓ Renewable energy
- ✓ Innovation



#### **FUTURE OPPORTUNITIES**



- ✓ Infrastructure Investment and Jobs Act (Bipartisan Infrastructure Bill)
  - Inflation Reduction Act
- ✓ DEEP's goals and strategy:
  - Maximize federal funding coming to CT
  - Secure a cleaner, more sustainable, and resilient energy future
  - ✓ Reduce energy and environmental inequality
  - Create good-paying clean energy jobs
  - Help to on-shore clean energy industries



#### **FUTURE OPPORTUNITIES**



- ✓ DEEP's strategy:
  - Prioritize the main components of resident's energy wallets
  - Prioritize the largest GHG-emitting sectors of CT's economy
  - ✓ Leverage existing programs when applicable
  - Work collaboratively with other state agencies and stakeholders, as well as other states
  - Disseminate FOA information
  - Provide support to entities that wish to apply



#### **THANK YOU!**



**Paul S. Lavoie** *Chief Manufacturing Officer* State of Connecticut



**Lidia Ruppert** *Research Analyst* Department of Energy and Environmental Protection