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# Industrial Demonstrations Program Selected and Awarded Projects

# INDUSTRIAL DEMONSTRATIONS PROGRAM SELECTION SNAPSHOT



**OCED**  
Office of Clean Energy Demonstrations



**\$20+**

**BILLION**

Total Funding  
(Federal and private cost shares)



OVER

**14 MILLION**

**METRIC TONS**

of avoided emissions annually

**85%**

would reduce  
criteria air  
pollutants

**(27) PROJECTS**



TENS OF

**THOUSANDS**

total jobs

with

**17**

**PROJECTS**

committed  
to union labor

Note: Anticipated based on information provided to the Department of Energy

 **Stats provided above were accurate at time of selection.**

## Aluminum and Metals





## Awarded

- [Advanced Copper Recycling Facility](#) | Wieland North America Recycling (Up to \$270 million - Shelbyville, Kentucky)
- [Green Aluminum Smelter](#) | Century Aluminum Company (Up to \$500 million - To be determined)
- [Low Carbon SmartMelt Furnace Conversion](#) | Constellium (Up to \$75 million - Ravenswood, West Virginia)
- [Nexcast - Next Generation Aluminum Mini Mill](#) | Golden Aluminum (Up to \$22.3 million - Fort Lupton, Colorado)
- [Zero Waste Advanced Aluminum Recycling \(Project ZAAR\)](#) | Real Alloy Recycling (Up to \$67.3 million - Wabash, Indiana)

## Cement and Concrete





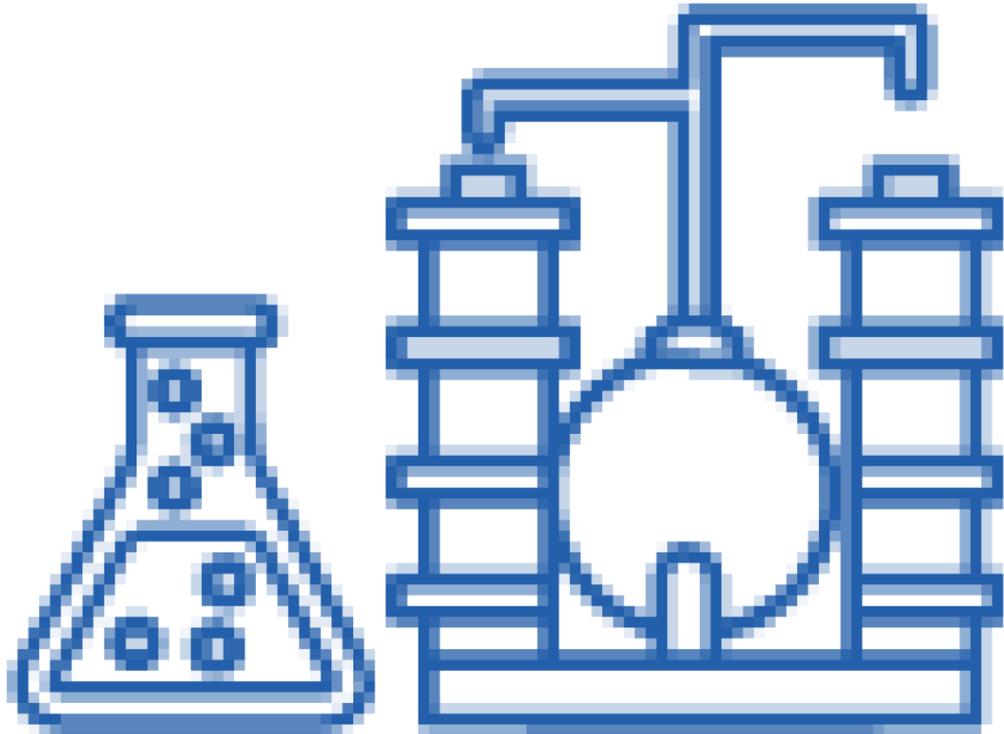
## Awarded

- [Calcined Clay Production for Limestone Calcined Clay Cement](#) | Roanoke Cement Company, LLC (Up to \$61.7 million - Troutville, Virginia)
- [Deeply Decarbonized Cement](#) | Brimstone Energy, Inc. (d/b/a Brimstone) (Up to \$189 million - TBD)
- [First Commercial Electrochemical Cement Manufacturing](#) | Sublime Systems, Inc (Up to \$86.9 million - Holyoke, Massachusetts)
- [Lebec Net Zero Project](#) | National Cement Company of California, Inc. (Up to \$500 million - Lebec, California)
- [Mitchell Cement Plant Decarbonization Project](#) | Heidelberg Materials US, Inc. (Up to \$500 million - Mitchell, Indiana)

## Selected

- [Low-Carbon Calcined Clay Cement Demonstration](#) | Summit Materials, Inc (Up to \$215.6 million - Port Deposit, Maryland; McIntyre, Georgia;

# Chemicals and Refining



## Awarded

- [Baytown Olefins Plant Carbon Reduction Project](#) | ExxonMobil Corporation (Up to \$331.9 million - Baytown, Texas)
- [Novel CO2 Utilization for Electric Vehicle Battery Chemical Production](#) | The Dow Chemical Company (Up to \$95 million - U.S. Gulf Coast)
- [Polyethylene Terephthalate Recycling Decarbonization Project](#) | Eastman Chemical Company (Up to \$375 million - Longview, Texas)
- [Star e-Methanol](#) | Orsted P2X US Holding LLC (Up to \$99 million - Texas Gulf Coast)

- [Sustainable Ethylene from CO2 Utilization with Renewable Energy \(SECURE\)](#) | Technip Energies USA, Inc. (Up to \$200 million - U.S. Gulf Coast)
- [Syngas Production from Recycled Chemical Byproduct Streams](#) | BASF Corporation (Up to \$75 million - Freeport, Texas)

## Food and Beverage

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## **Awarded**

- [Delicious Decarbonization Through Integrated Technologies: Electrification, Renewables, and Energy Storage](#) | Kraft Heinz (Up to \$170.9 million - Currently considering Champaign, IL; Granite City, IL; Kendallville, IN; Mason City, IA; New Ulm, MN; Columbia, MO; Lowville, NY; Fremont, OH; Mason, OH; Garland, TX; and Winchester, VA)

- [Heat Batteries for Deep Decarbonization of the Beverage Industry](#) | Diageo Americas Supply, Inc. (Up to \$75 million - Shelbyville, Kentucky and Plainfield, Illinois)

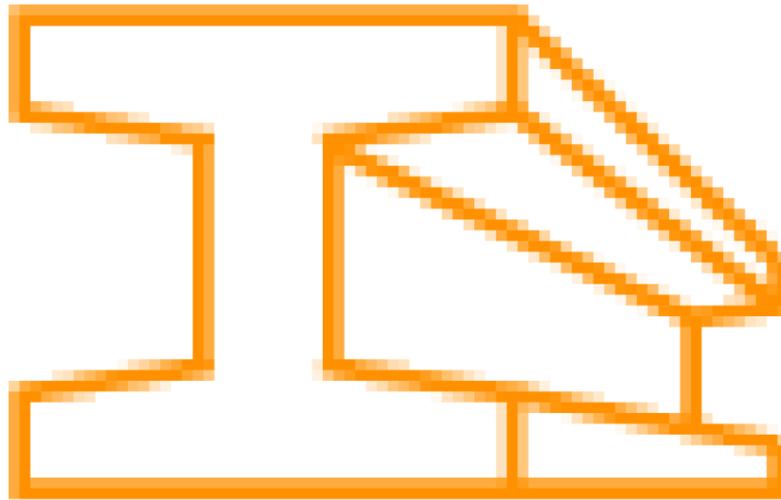
## Glass



## **Awarded**

- [Flexible Fuel Electric Hybrid Glass Furnace Demonstration](#) | Libbey Glass (Up to \$45.1 million - Toledo, Ohio)
- [Glass Furnace Decarbonization Technology Stack Project](#) | O-I Glass, INC (Up to \$125 million - Zanesville, Ohio)
- [Hybrid Electric Glass Furnace Project](#) | Gallo Glass Company (Up to \$75 million - Modesto, California)

# Iron and Steel



## Awarded

- [Hydrogen-Ready Direct Reduced Iron Plant and Electric Melting Furnace Installation](#) | Cleveland-Cliffs Steel Corporation (Up to \$500 million - Middletown, Ohio)
- [Iron Electric Induction Conversion](#) | United States Pipe and Foundry Company (Up to \$75.5 million - Bessemer, Alabama)
- [Low-Emissions, Cold-Agglomerated Iron Ore Briquette Production](#) | Vale USA (Up to \$282.9 million - U.S. Gulf Coast)
- ["Right Way" Next Generation Melt Project](#) | AMERICAN Cast Iron Pipe Company (Up to \$75 million - Birmingham, Alabama)
- [Steel Slab Electrified Induction Reheat Furnace Upgrade](#) | Cleveland-Cliffs Steel Corporation (Up to \$75 million - Lyndora, Pennsylvania)

# Process Heat

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## **Awarded**

- [Steam-Generating Heat Pumps for Cross-Sector Deep Decarbonization](#) | Skyven Technologies (Up to \$145 million - Medina, New York)
- [Vikrell Electric Boiler & Microgrid System](#) | Kohler Co. (Up to \$51.2 million - Casa Grande, Arizona)

# Pulp and Paper

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## Awarded

- [Decarbonization of Black Liquor Concentration through Energy Efficient Membrane Separation](#) | Nippon Dynawave Packaging Co. LLC (Up to \$46.6 million - Longview, WA)

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*Once a project has been selected, both DOE and the selectee have the right to withdraw from the agreement negotiations. Selected projects under this program that are no longer moving forward in negotiations for federal funding: SSAB, Unilever, and ISP Chemicals, LLC an Ashland Company.*

What is industrial decarbonization?



Why is DOE investing in industrial decarbonization efforts?



How many projects have been selected, and how much funding is DOE providing? ▼

How were the projects selected? ▼

What are the anticipated benefits of the Industrial Demonstrations Program? ▼

How will communities near these projects be engaged? ▼

Who should I contact with questions? ▼



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