



## Industrial Demonstrations Program – Heat Batteries for Deep Decarbonization of the Beverage Industry

The Industrial Demonstrations Program, managed by the U.S. Department of Energy (DOE) Office of Clean Energy Demonstrations (OCED), aims to accelerate decarbonization projects in energy-intensive industries and provide American manufacturers a competitive advantage in the race to lead the world in low- and net-zero carbon emissions manufacturing. To advance industrial decarbonization, OCED sought applications for up to \$6 billion in funding to support the demonstration of transformational technologies necessary to reduce emissions in the U.S. industrial sector. Following negotiations, in December 2024, OCED awarded the Heat Batteries for Deep Decarbonization of the Beverage Industry project with more than \$1.5 million to begin Phase 1, which includes locations in Shelbyville, KY and Plainfield, IL.



### Awardee Fact Sheet Industrial Demonstrations Program: Heat Batteries for Deep Decarbonization of the Beverage Industry

#### Project at a Glance — Phase 1

- » **Total OCED Cost Share:** Up to \$75 million
- » **Phase 1 Total Project Amount:** \$3,082,093\*
- » **Phase 1 OCED Award Amount:** \$1,541,047\*\*
- » **Phase 1 Scope of Work:** Planning, permitting, design, community engagement, and other development activities
- » **Phase 1 Timeline:** ~7 months
- » **Recipient:** Diageo Americas Supply, Inc. is a premium drinks producer
- » **Project Locations:** Shelbyville, KY; Plainfield, IL
- » **Start Date:** December 2024

\*Represents the total project cost for Phase 1.

\*\*Represents OCED's cost share for Phase 1. Additional funding for this project is subject to future award negotiations at the end of each project phase.

### About This Project

In the Heat Batteries for Deep Decarbonization of the Beverage Industry project, Diageo Americas Supply, Inc. (Diageo) plans to partner with Rondo Energy, Inc. (Rondo) and the National Renewable Energy Laboratory (NREL) to replace natural gas-fired heat with Rondo Heat Batteries, electric boilers, and other thermal solutions. These assets would be powered by onsite renewable energy at facilities in Shelbyville, KY and Plainfield, IL. These upgrades to beverage production facilities would reduce direct carbon emissions by over 14,000 metric tons per year. They would also provide a highly replicable blueprint that manufacturing companies could use to integrate thermal heat batteries with intermittent renewable energy into their facilities, while reliably and competitively delivering products to their consumers.

During Phase 1, Diageo will begin initial planning, engineering, and design tasks for two separate facilities, provide documentation and reports necessary to complete the National Environmental Policy Act (NEPA) review, and conduct initial engagements with community and labor stakeholders.

OCED will provide oversight of the Heat Batteries for Deep Decarbonization of the Beverage Industry project by evaluating the status and quality of implementation at each phase of the project. Through its phased approach to project management oversight, OCED will review and evaluate the project's progress, including community benefits, which impact OCED's decision to continue to provide federal funding and allow a project to progress to the following phase.

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## Project Site

The Heat Batteries for Deep Decarbonization of the Beverage Industry project would be located at two facilities: one in Shelbyville, KY, and one in Plainfield, IL.

## Community Benefits Commitments

Community benefits commitments are a key component of the Heat Batteries for Deep Decarbonization of the Beverage Industry project. The commitments are informed and developed—in consultation with local communities—to maximize local community benefits and mitigate potential negative impacts. Diageo plans to implement these commitments through:

- Creating up to **100 full-time equivalent jobs** during manufacturing, construction, and installation across the two locations and taking steps toward negotiated workforce agreements for construction. Diageo plans to utilize an existing Collective Bargaining Agreement for operations at the Plainfield site.
- **Paying prevailing wages**, ensuring that Registered Apprentices will be included in project labor, and fostering a safety culture.
- Developing a plan to realize air and water quality benefits and **publicizing facility air and water quality monitoring results** to inform local communities about progress.
- **Quantifying air quality impacts** for any relevant air pollutants emitted, or expected to be emitted, from the project.
- **Completing a Justice40 assessment** and implementation strategy during each phase.
- Sharing project information publicly to **support engagement, accountability, and transparency**.

More details on the Heat Batteries for Deep Decarbonization of the Beverage Industry project's community benefits commitments can be found in the [Community Benefits Commitments Summary](#).



Aerial view of Diageo Americas Supply, Inc. Plainfield, IL production facility



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## Industrial Demonstrations Program Goals

U.S. industry is a backbone of the nation's economy, producing the goods critical to everyday life, employing millions of Americans in high-quality jobs, and providing an economic anchor for thousands of communities. Yet the sector's energy- and carbon-intensity contributes to nearly one third of the nation's carbon dioxide emissions, representing a unique and complex challenge to achieving a carbon-free economy. Decarbonizing the U.S. industrial sector will require equally unique and innovative technological solutions that leverage multiple pathways, including energy efficiency, electrification, and alternative fuels and feedstocks such as clean hydrogen. The Industrial Demonstrations Program includes new, emerging technologies that aim to help produce clean steel, cement, chemicals, and other materials used in our nation's roads, bridges, transmission lines, electric vehicles, solar panels, wind turbines, and everyday lives, which in turn, benefit every American.



Aerial view of Diageo Americas Supply, Inc. Shelbyville, KY production facility

## Contact

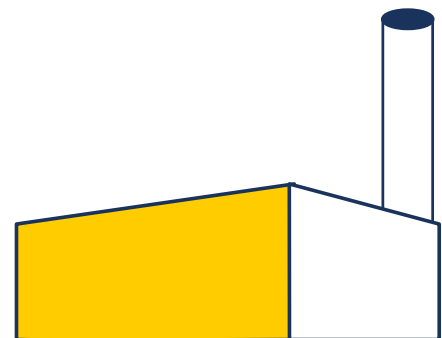
**Program Email:** [engage\\_industrialdemos@hq.doe.gov](mailto:engage_industrialdemos@hq.doe.gov)

**OCED Media Email:** [OCEDNewsroom@hq.doe.gov](mailto:OCEDNewsroom@hq.doe.gov)

## More Resources

**Website:** [energy.gov/oced/IDP](https://energy.gov/oced/IDP)

**Office of Clean Energy Demonstrations:** [energy.gov/oced](https://energy.gov/oced)



The U.S. Department of Energy established OCED to help scale the emerging technologies needed to tackle our most pressing climate challenges and achieve net-zero emissions by 2050. OCED's mission is to deliver clean energy demonstration projects at scale in partnership with the private sector to accelerate deployment, market adoption, and the equitable transition to a decarbonized energy system.