

THE OFFICE OF CLEAN ENERGY DEMONSTRATIONS

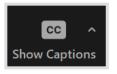


Industrial Demonstrations Program Midwest Regional Community Briefing

> 04/18/2024 Office of Clean Energy Demonstrations U.S. Department of Energy

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No, this webinar is not being recorded.

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Yes, a copy of the presentation slides will be shared via email with registrants and on the OCED website within the next week.



Midwest Regional Briefing Agenda

- (6:00-6:30 pm CT) DOE and Industrial Demos
 Q&A (7:20-7:50pm CT) Program Overview
- Project Overview Group 1 (6:40-7:20 pm CT)
 - Kraft Heinz, Fremont, OH; Kendallville, IN; Holland, MI; Mason City, IA; Muscatine, IA; New Ulm, MN; Champaign, IL
 - Cleveland-Cliffs Steel Corporation, Middletown, OH
 - Libbey Glass, Toledo, OH
 - Owens-Brockway Glass Container, Inc., Zanesville, OH
 - Heidelberg Materials US, Inc, Mitchell, IN
 - Real Alloy Recycling, Wabash, IN
 - SSAB, Muscatine, IA
 - Diageo Americas Supply, Plainfield, IL

• Closing Comments (7:50-8:00 pm CT)



OCED Overview

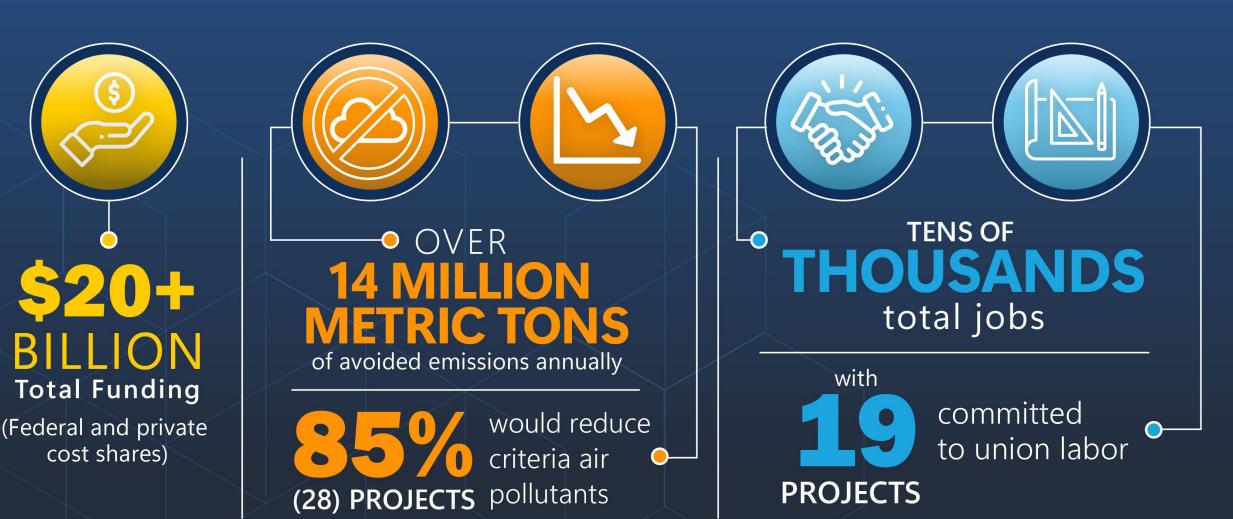
OCED Mission

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."



INDUSTRIAL DEMONSTRATIONS PROGRAM SELECTION SNAPSHOT





Selectees Delivered on Ambitious Program Priorities

Deep Decarbonization	Target: 50 – 75% emissions reductions per project	Result: Average 77% reduction in carbon intensity & ~14+ million MT CO2e reduced annually
Timeliness	Target: Accelerate decarbonization into this decade	Result: Average performance period of less than 6 years
Market Viability	Target: Spur follow-on investment in lower-embodied carbon goods	Result: 35+ products to be produced with lower embodied emissions; multiple with premium offtake agreements in place today
Community Benefits	Target: Select projects with the greatest benefit for the greatest number of people	Result: 85% of projects improve air quality; investment will create tens of thousands of jobs across the United States



Community Benefits

Selectees described strategies and methods of accountability to ensure:

- Meaningful, two-way community and labor engagement
- Diversity, equity, inclusion, and accessibility
- Benefits to the surrounding community
- Quality jobs and workforce development
- Furthering the Justice40 Initiative

By prioritizing community benefits,

we can ensure the next chapter in America's energy story is marked by greater justice, equity, security, and resilience.

The Inflation Reduction Act supports this goal by giving priority to projects that provide the greatest benefit to the greatest number of people in nearby communities.

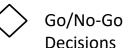
Community & Labor Engagement **Diversity, Equity, Inclusion,** & Accessibility **Greatest Benefit for the Greatest Number Investing in the American** Workforce **Justice40** Initiative

Community Benefit Commitments -Implementation Requirements per Phase

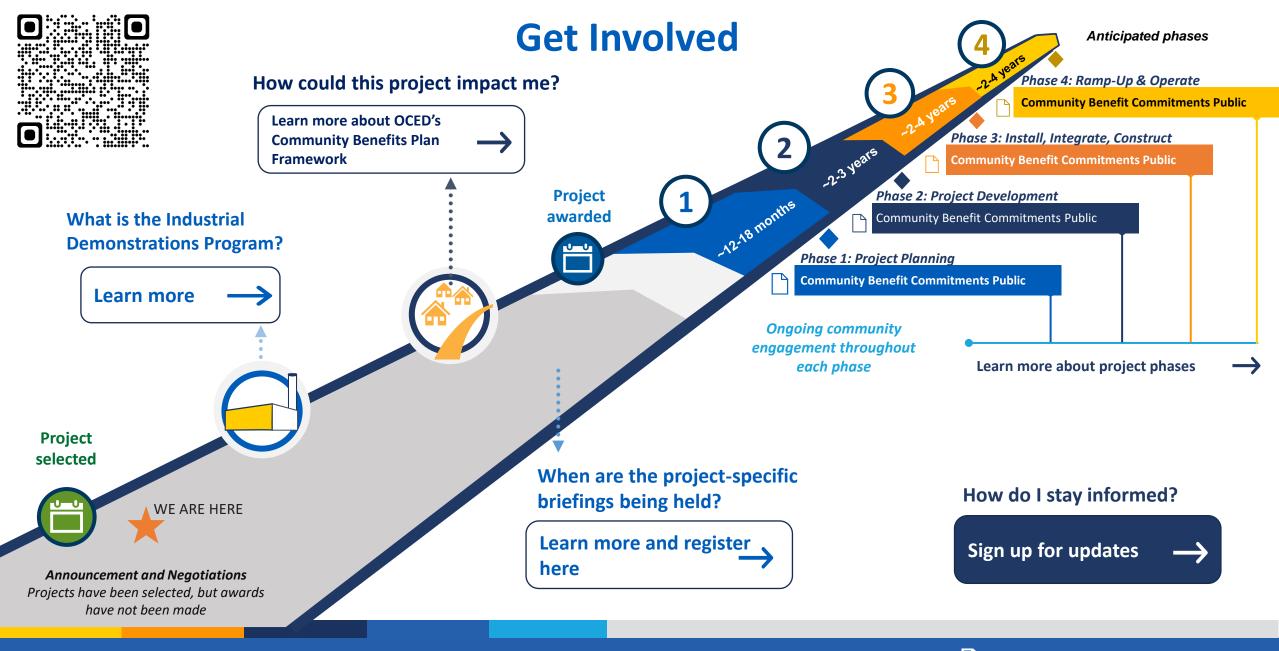


*CBPs are considered alongside assessments of engineering, procurement, and construction; business development and management; permitting and safety; and technical data and analysis.













Go/No-Go Decisions

Next Steps – Negotiations

Award Negotiations: OCED will begin the negotiations process with project selectees.

After Award: *IF the projects receive an award* (successful negotiations)

- Awarded projects will enter into a cooperative agreement with OCED
- Phase 1: Detailed Project Planning begins
 - OCED will work with the awarded project partners starting in Phase 1 to ensure compliance with the National Environmental Policy Act (NEPA)
 - Local communities (state, local and community stakeholders) will have the opportunity for ongoing engagement with OCED and the awardee(s)





For more information



- For questions regarding IDP projects email engage_industrialdemos@hq.doe.gov
- OCED Website & Newsletter Sign-up energy.gov/oced

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- OCED Exchange (RFIs, NOIs, and FOAs) oced-exchange.energy.gov
- Follow us on LinkedIn
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IDP Resources

Industrial Demonstrations

- Program Page
- Press Release
- Overview of Selected Projects
- Local Engagement Opportunities
- OCED CBP fact sheet

Justice40 Resources

- Justice40 Initiative
- Energy Justice Dashboard (BETA)
- <u>Climate and Economic Justice</u>
 Screening Tool

Additional Resources

- NEPA Resources
- Industrial Decarbonization Pathways to Commercial Liftoff Reports
- DOE Industrial Decarbonization
 Roadmap

Projects in the Midwestern Region

Ground Rules for Discussion

- The projects are grouped into one set of five and one set of six so attendees can participate for the projects they are specifically interested in learning about.
- Representatives have 5 minutes each to cover their projects.
- After each set of projects, we will answer questions posed in the Q&A feature, moderated by the third-party facilitator.
- Submit questions using the Q&A feature.
 - You can also see and upvote other questions that have been asked.
- Reserve judgement
- One idea at a time
- It is okay to build on the ideas of others
- Clarifying questions are okay



Project Overviews

6:40 – 7:20 pm CT

• Kraft Heinz, Fremont, OH; Kendallville, IN; Holland, MI; Mason City, IA; Muscatine, IA; New Ulm, MN; Champaign, IL

- Cleveland-Cliffs Steel Corporation, Middletown, OH
- Libbey Glass, Toledo, OH
- Owens-Brockway Glass Container, Inc., Zanesville, OH
- Heidelberg Materials US, Inc, Mitchell, IN
- Real Alloy Recycling, Wabash, IN
- SSAB, Muscatine, IA
- Diageo Americas Supply, Plainfield, IL

Delicious Decarbonization: Integrated Electrification **Kraft** *Heinz* for KH Plants in the U.S.

The Kraft Heinz Company



Midwest - 7 Sites across 6 States: IL, IN, IA, MI, OH, MN

- Kraft Heinz is one of the largest Food and Beverage companies in the world with an unparalleled portfolio of iconic and new brands
- 2021: Commitment to achieve Net Zero by 2050, 2021 KH was named 'Industry Mover' by S&P Global Sustainability Yearbook
- Sites are home to Heinz Ketchup and Sauces, Kraft Mac n Cheese, Velveeta, Jello, Jet Puffed Marshmallows, Kraft Caramels
- Champaign, IL; Muscatine and Mason City, IA; Kendallville, IN; Holland, MI; Fremont, OH; New Ulm, MN
- 73% of GHG emissions of Net Zero DOE project (10 sites) and 33% of GHG of NA manufacturing

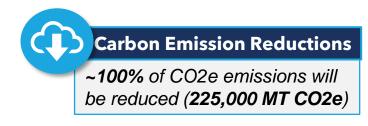
Technology Snapshot

- Move away from generating hot water via natural gas produced steam
- Heat pumps and heat exchangers will be used to recover waste heat from air/ammonia compressors and chillers
- 5 of the sites will incorporate solar PV technology and 3 sites solar thermal
- Any culinary grade steam will be generated via electric boilers
- Transition all procured electricity to 100% renewable sources
- KH cost share: 113.1 MM; KH share for the 10 DOE program sites : 180MM
- 2024/2025: Eng. feasibility studies & project dev. Construction 2026-2029, Operational: 2029

Value and Impacts

- BL year 2022 emissions: ~225,000 MT CO2e, will be reduced by close to 100%
- Decarbonization design/approach can be replicated at our other KH plants
- Findings will be shared with broader F&B industry to inform net zero strategies in that sector





Delicious Decarbonization: Integrated Electrification for KH Plants in the U.S.

Kraft*Heinz* The Kraft Heinz Company

Community Benefits – this project will allow us to:

•Generate **327 construction jobs and 7-10 permanent jobs**, while also enhancing workforce development and training centers.

•Create a **Community Engagement Steering Committee** at each plan to solicit and act on feedback from community stakeholders and plant employees regarding any concerns about the project.

•Invest in and continue to support the promotion of **DEIA initiatives** for hiring and services through inclusive candidacy and job types.

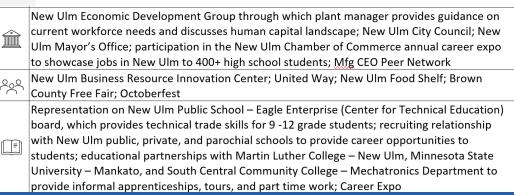
- •Compliment local ESG goals, e.g.,:
- City of Urbana-Champaign's Climate Action Plan aims to reduce 80% GHG emissions by 2050
- Muscatine County enhances environmental quality through robust air/water quality standards
- Holland's Community Energy Plan aims to achieve 10 metric tons CO2/person/year by 2030
- New Ulm City Council & New Ulm Public Utility aim to improve water quality and reduce community reliance upon natural gas through implementation of community anaerobic digestor (KHC will provide waste materials for the digestor and be one of the off takers)
- Sandusky County Economic Development Corporation supports environmental advancement, workforce training, and hiring processes
- All utilities supplying electricity to these plants have net zero goals on or before 2050.

•Expand and enhance existing community partnerships

See box to the right using New Ulm as an example ==>







Delicious Decarbonization: Integrated Electrification for KH Plants in the U.S.



Kraft*Heinz*

The Kraft Heinz Company

Project Email

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Person of Contact

Julio Quintana-Castillo

[Other Method of Contact]

Media@KraftHeinz.com (Press contact Information)

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov



CLIFFS MIDDLETOWN WORKS DRI PLANT AND ELECTRIC MELTING FURNACES

CLEVELAND-CLIFFS INC.

Cleveland-Cliffs, Middletown, Ohio

Project Overview: Replace Blast Furnace with Direct Reduced Iron Plant and Melting Furnaces



Cleveland-Cliffs Middletown Works Steel Mill

- Fully integrated steel plant produces 2.9 million tons steel slabs and 5 million tons of hot rolled steel per year
- Employs 2,100 union workers, 400 salary workers, and numerous union trades people
- Major steel supplier for exposed flat rolled steel applications including outer automotive skins and appliance panels



Technology Snapshot

- First of a kind flex-fuel hydrogen ready direct reduced iron plant directly coupled to two electric melting furnaces to replace coke-fueled blast furnace
- Near zero GHG emissions with green hydrogen and clean electrical power source
- First iron production target Q3 2028 / Expect project complete Q4 2029



Value and Impacts

- Steel production with lower GHG emissions to meet manufacturers demand for low carbon steel
- Reduction in air emissions and water usage: increased community benefits
- ~20% reduction in the cost of producing steel slabs with natural gas
- Production of slag for cement industry decarbonization efforts





Carbon Emission Reductions

Reduce Scope 1 CO_2e emissions by >1 million tonnes per year

CLIFFS MIDDLETOWN WORKS DRI PLANT AND ELECTRIC MELTING FURNACES

CLEVELAND-CLIFFS INC.

Cleveland-Cliffs, Middletown, Ohio

Community Benefits

- Generate 1,200 construction jobs at peak construction and 170 permanent jobs, with hourly workforce represented by IAM Local 1943
- Construction will prioritize using union labor and Cliffs will work with the IAM Local 1943 to develop training programs that ensure a skilled workforce to operate and maintain the new technology
- Cliffs will keep community members apprised of project development via a dedicated website that will communicate stakeholder engagement opportunities
- Cliffs will dedicate financial and other resources to support housing initiatives that align with the City of Middletown's goal to build resilient neighborhoods
- Cliffs will proactively initiate discussions with community stakeholders regarding a Community Benefits Agreement
- Cliffs will allocate up to \$200,000 to support community initiatives, including housing and neighborhood revitalization
- Cliffs will utilize its Community Inquiry Program and ensure project team is incorporating community feedback in project planning
- Collaborate with local partners to advance diverse supplier outreach
- Annually track employee and supplier metrics to assess if DEIA objectives are being met
- Reduce air emissions and water usage





CLIFFS MIDDLETOWN WORKS DRI PLANT AND ELECTRIC MELTING FURNACES

CLEVELAND-CLIFFS INC. Cleveland-Cliffs, Middletown, Ohio

Contact Information

Project Email

Cleveland-Cliffs_Projects@iprglobal.net

Person of Contact

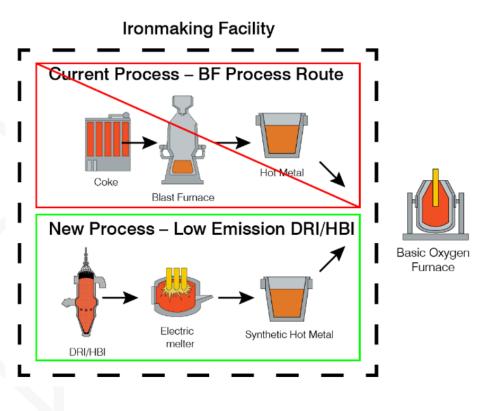
Martin Mulhall, Sr. Director – Engineering Cleveland-Cliffs Steel Corporation

Project Website

https://airtable.com/apppH7ps234IxSSOM/pag8cDteWqPIpGUd8/form

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov





Demonstration of Low-Emission Glass Furnace Technology with Flexible Fuel Source

Libbey Glass, Toledo Ohio

Project Overview



Libbey Glass Toledo Plant

 Since 1818, Libbey has been the vanguard of artistry and innovation in American glassmaking. From our roots in Toledo, Ohio, to our place as a worldwide tabletop leader, we continue to empower chefs, mixologists and home entertainers to craft moments that matter with beautiful and durable tabletop products.



Technology Snapshot

- This five-year project replaces four outdated furnaces, which utilize natural gas and air, with two larger and more efficient hybrid furnaces.
- Modern Oxy-fuel technology will be augmented with electric melting for up to 80% of the energy to produce the glass for tableware.



Value and Impacts

- Reduces up to an estimated 60% of carbon dioxide emissions in addition to other greenhouse gas and particulate emissions
- Demonstrates new decarbonization capabilities in the high temperature, difficult to decarbonize glass industry
- Provides workforce development opportunities in disadvantaged communities under the Justice40 initiative
- Supports glass products, one of the most recyclable materials on the planet.





Carbon Emission Reductions

Avoiding up to 20,000 tons per year while also reducing NOx, SOx and particulate emissions

Demonstration of Low-Emission Glass Furnace Technology with Flexible Fuel Source

Libbey Glass, Toledo Ohio

Community Benefits

Workforce Development

- Generates approximately 268 construction jobs, while also enhancing workforce development and training for core workforce.
- Engaging labor organizations and our local community by increasing apprenticeship and skilled trade opportunities
- Integrating with community partners and educational institutions, dedicated to empower and enhance career readiness, with skills development within our surrounding disadvantaged communities.

Air Quality

• Drives reduction in air emissions such as NOx, SOx and particulate matter in addition to the reduction in carbon dioxide emissions



Image Credit: Libbey Glass





Libbey Glass, Toledo Ohio

Contact Information

Project Email

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Person of Contact

Jim Burmeister Chief Financial Officer



Image Credit: Libbey Glass

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov

Glass Furnace Decarbonization Technology

O-I Glass, Inc. - Tracy California, Zanesville Ohio, Toano Virginia

Project Overview



- One of the world's leading manufacturers of glass containers
- 69 manufacturing plants in 19 countries including 14 in the USA
- Vision to be the most innovative, sustainable, and chosen supplier of brand-building packaging solutions

Technology Snapshot

- Integrating 5 emerging sustainability technologies into each glass furnace
- Utilizing 2 waste heat recovery technologies
- Increasing electrification
- Project timeline 2024 2028



Value and Impacts

- Demonstrates O-I's commitment to Sustainability
- Supporting our Customer's Scope 3 Emission Reduction Targets
- Supporting O-I's 2030 GHG Reduction Goal of 25%
- Reducing scope 1 emissions by approximately 40%, on average for rebuilt furnaces





Carbon Emission Reductions

Avoiding up to 48,000 tons per year equal to 11,424 cars per year

Glass Furnace Decarbonization Technology O-I Glass, Inc. - Tracy California, Zanesville Ohio, Toano Virginia

Community Benefits

- Up to approximately 1200 construction related jobs.
- Will develop a Community Benefits Plan through direct engagement with local communities to address impact and local community needs.
- O-I and its charitable contributions would continue to support the communities through local investments in organizations, including the United Way, that address the communities' social needs, arts and culture, education and career development, and environmental impact related to glass recycling and beyond.
- The sustainability technologies also are expected to reduce NOx air emissions



Image Credit: O-I Glass





Project Email

Glass.furnace.decarbonization.project@o-i.com

Contact Person

John Jenkinson, Project Management Office Leader, O-I Glass, Inc.



Image Credit: O-I Glass

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov



Heidelberg Materials' Mitchell Cement Plant, Mitchell, Indiana

Project Overview

Heidelberg Materials



Mitchell Cement Plant, Mitchell, Indiana

- Longstanding history in region, producing cement since the early 1900s
- Recently completed construction of the newest, most modern cement plant in North America
- More than tripled the former clinker production capacity and is now at 7,000 mtpd

Technology Snapshot

- Carbon Capture via MHI's KM CDR Process™ and KS-21™ amine solvent
- Confirmed capture rate of 95-98% which is above the industry standard
- Safe storage in one or more deep geologic formations beneath the cement plant
- Engineering completion by Sept. 2026, commissioning and full operation by 2030



Value and Impacts

- Creation of temporary construction and full-time operation jobs
- Deployment of the first cement plant in the US with full-scale decarbonization
- Production of low-carbon cement to produce low-carbon concrete for critical infrastructure projects for decades to come
- Additional emissions reductions beyond the advanced pollution control technologies already in use at the new cement plant





Carbon Emission Reductions

Avoiding 2M mt per year equal to 435,000 cars per year



Mitchell Decarbonization Project

Heidelberg Materials' Mitchell Cement Plant, Mitchell, Indiana

Community Benefits

- Generate 1,000+ construction jobs and 25+ permanent jobs
- Boost to tax revenue and local economy & businesses income during construction and continued operations
- Build on the long history of successful community engagement through the existing Community Advisory Panel (CAP) to ensure community concerns and priorities are heard and addressed
- Promote DEIA initiatives by fostering equitable workforce development to build capacity among the local workforce and create quality jobs accessible to local community members
- Advance the knowledge of Carbon Capture and Storage (CCS) projects
 through education, training partnerships and information sharing
- Significantly reduce CO₂ emissions with the added benefit of further reducing other emissions through the carbon capture process



Image Credit: Kendra Lankford - Heidelberg Materials





Mitchell Decarbonization Project

Heidelberg Materials' Mitchell Cement Plant, Mitchell, Indiana

Contact Information

Project Email

MitchellCCS@HeidelbergMaterials.com

Persons of Contact

Greg Ronczka – VP Environment and Sustainability David Perkins – VP Government Affairs and Communications

Website

Mitchell Plant - Heidelberg Materials North America



Image Credit: Ian Nelson - Heidelberg Materials

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov

Zero-Waste Advanced Aluminum Recycling (ZAAR)

REAL ALLOY Real Alloy Recycling, LLC - Wabash, IN

Project Overview



Real Alloy Recycling, LLC

- Real Alloy Recycling, LLC is a secondary recycler of aluminum and aluminum by-products with 14 facilities across the US
- The Wabash, IN facility specializes in recycling dross and salt cake

Technology Snapshot

- Implements innovative technology in the US to recycle salt slag from recycling operations
- Separates salt slag into re-usable materials
- General timeline is to start up within 4 years



Value and Impacts

- Supports increased aluminum recycling
- Creates a completely closed loop aluminum recycling process
- Displaces C0₂ intensive materials by creating re-usable materials
- Converts 90kt of landfill waste into usable products
- Uses hydrogen generated in the process as a source of heat, reducing CO₂ generation





Carbon Emission Reductions

This project will further reduce the carbon intensity of aluminum recycling, which is 95% less than virgin aluminum production

CEAL ALLOY Zero-Waste Advanced Aluminum Recycling (ZAAR) Real Alloy Recycling, LLC

Community Benefits

- Generating 100 construction jobs and 9 permanent jobs in addition to the 30 quality jobs at the facility
- Investing in workforce development programs in the areas of engineering, welding, electrical, programmable logic controls (PLCs), autonomous systems, controls, and manufacturing processes
- Pursuing multiple community agreements and partnerships with a focus on workforce and safety training efforts
- Focusing on outreach efforts to minority businesses, targeted hiring efforts and enhanced DEIA training
- Appointing a Community Liaison to serve as the bridge between the project team and the community, ensuring that the concerns and views of the community are communicated





CEAL ALLOY Zero-Waste Advanced Aluminum Recycling (ZAAR) Real Alloy Recycling, LLC

Contact Information

Project Email

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Person of Contact

Ray Weaver Vice President, Human Resources

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov

REAL ALLOY



SSAB: Mississippi, Iowa

Project Overview



SSAB Overview

- SSAB is a global steel company headquartered in Stockholm, Sweden; 16,000 employees in >50 countries
- North American HQ and steel mill located in Mobile, Alabama; North American R&D and steel mill located in Montpelier, Iowa.
 Processing facilities in Houston, TX, St. Paul, MN and Ontario, CAN



Technology Snapshot

- Develop commercial-scale green hydrogen-based steel production capability
 - 1. MS: Construction of HYBRIT® fossil-free Direct Reduced Iron (DRI) technology utilizing 100% green hydrogen from Hy Stor Energy
 - 2. IA: Expansion of steelmaking capabilities to utilize the hydrogen-reduced DRI
- `25-'26 Construction; `26-'27 Commissioning & Ramp-Up



Value and Impacts

- Introduce fossil-free sponge iron production to the U.S.
- Produce low CO₂ emissions steel solutions for use in critical end-use markets
- 81% reduction in overall GHG emissions compared to traditional DRI production and normal cradle-to-gate global warming potential.
- 55% reduction in GHG emissions at SSAB lowa facility in Montpelier





81% overall reduction in Greenhouse Gas (GHG) emissions

SSAB Hydrogen-Fueled Zero Emissions Steel Making

Community Benefits

- Generate ~6,000 construction jobs and 540 permanent jobs across Mississippi and Iowa, while also enhancing workforce development and training centers.
- Invest in the immediate and future workforce through quality job creation, advancing diversity, equity, inclusion, and accessibility through the implementation of our industry leading program "Stronger Together."
- Contribute to the Biden-Harris Administration's Justice40 Initiative.
- Eliminate 81% of GHG emissions from a so-called "hard-to-abate" sector.
- Solicit and support local vendors, contractors, and sub-contractors for the project as well as subsequent facility operations.
- Provide STEM-focused summer camp scholarships and curriculum development for high school students in underrepresented communities.





Steel coupon produced with fossil-free sponge iron

SSAB Hydrogen-Fueled Zero Emissions Steel Making

Contact Information

Contact Person

Greg Scott, SSAB Americas, Vice President – Human Resources and Communication

Contact Person Email

Greg.Scott@ssab.com

Contact Person Telephone

(251) 264-3814



SSAB mill, located in Montpelier, IA

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov

DIAGEO

Heat batteries for deep decarbonization of the beverage industry Diageo Americas Supply, Inc.

Project Overview



Diageo Americas Supply, Inc. (Diageo)

- Diageo is a global premium drinks company, with production operations in North America
- Project will be implemented across production sites in Shelbyville, Kentucky (Bulleit Bourbon and Rye Whiskeys) and Plainfield, Illinois (spirits and ready-to-drink cocktails)



Technology Snapshot

- By partnering with Rondo Energy, Diageo will install heat battery technology to electrify production sites in Kentucky and Illinois.
- Rondo Heat batteries will providing low-cost, zero-carbon heat and power, and eliminating reliance on natural gas for boilers used in heating processes.



Value and Impacts

- The electric thermal energy storage (ETES) that will be deployed for this project is a new, more cost-effective path to industrial decarbonization that has potential to deliver firm, reliable clean energy for decades. This project will demonstrate an industrial heat and power model system that could be replicated in many other sectors, as well as food and beverage more broadly.
- The project aims to create approximately 144 construction jobs across the two locations.
- Diageo is committed to sharing facility air and water quality monitoring results with the public to inform local communities about reductions in criteria air pollutants as a result of this project.

Carbon Emission Reductions

Eliminate nearly 17,000 metric tons per year, equivalent of taking more than 4,046 gasoline-powered cars off the road a year DIAGEO

Heat batteries for deep decarbonization of the beverage industry Diageo Americas Supply, Inc.

Community Benefits

- Community & Labor Engagement:
 - Hire a Community Benefits Manager to execute and evaluate CBP and be key point of contact for community partners.
 - Use a portfolio of engagement methods (e.g. town halls, focus groups, surveys, multi-lingual) to
 offer broad and accessible opportunities to get community feedback, inputs on project progress
 support objectives of two-way engagement.
 - Work to negotiate and design appropriate agreements with local community partners.
- Support Quality Jobs:
 - Estimate creating approximately 144 full-time equivalent jobs across the two sites in Kentucky and Illinois during construction and continue to work in good faith with represented workforce.
 - Support local and regional workforce development, investing in training, job readiness and sectorspecific skilling, to support a diverse talent pipeline for growth in food and beverage sector.
- Advance Diversity, Equity, Inclusion & Access:
 - Explore with local partners how to develop a supplier technical assistance and capacity building program to improve diverse supplier base.
 - Invest in accessibility resources and infrastructure in regional parks.
- Environmental Benefit for the Greatest Number:
 - Support conservation and restoration efforts of local forests and critical landscapes to enhance biodiversity aligned with equity and access principles.
 - Invest in community recycling and explore reduction of hauling emissions.





Diageo production facility in Plainfield, Illinois Image Credit: Diageo

DIAGEO Heat batteries for deep decarbonization of the beverage industry Diageo Americas Supply, Inc.

Contact Information

Project Email

community.engagement@diageo.com

Person of Contact

Andrew Jarrick, Director, Environmental Sustainability, Diageo North America

To contact OCED about this project, please email us at

engage_industrialdemos@hq.doe.gov



Diageo production facility in Plainfield, Illinois Image Credit: Diageo

Question & Answer

Thank you!



For more information; please visit energy.gov/OCED