

Great Lakes Clean Hydrogen Partnership Moves Forward with DOE Application

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TOLEDO, Nov. 7, 2022 - The Great Lakes Clean Hydrogen Partnership (GLCH) comprised of Linde, Energy Harbor, GE Aerospace, Cleveland-Cliffs and the University of Toledo today announced it has moved forward with its Department of Energy (DOE) hydrogen hub application. This new industry-led coalition will transition Midwest manufacturing, mobility, power and technology operators away from greenhouse gas emitting feedstocks and fuels, to hydrogen, a low carbon alternative. This action will also attract investors and new businesses who value access to low carbon hydrogen resulting in jobs at higher wages, support for disadvantaged communities and a healthier environment. Today's filing of the GLCH Concept Paper is a key step in the DOE hydrogen hub application process.

The region is the ideal location for a clean hydrogen hub, due to its unique access to ample carbon free nuclear power, crossroads of I-80 and I-75, high concentration of manufacturing and technology companies, Great Lakes marine shipping and a highly skilled workforce.

Key coalition partners, including Linde, Energy Harbor, GE Aerospace, Cleveland-Cliffs, multiple glass manufacturers and the University of Toledo, will develop low carbon hydrogen on site at Energy Harbor's Davis-Besse nuclear plant. The GLCH is actively working with technology suppliers, hydrogen consumers, state and regional academic institutions, federal agencies and non-profit organizations to develop a clean energy hydrogen hub to qualify for a significant portion of \$8 billion of initial funding being managed by the U.S. Department of Energy's (DOE) regional clean hydrogen hub initiative.

"This industry-led hydrogen hub intends to ensure that the Midwest is a leader in decarbonization so that regional industrial supply chains are globally competitive, and opportunities are created for workers and their communities," said Frank C. C. vice president for research at The University of Toledo.

GLCH will differentiate itself from other hub initiatives through the use of existing carbon free infrastructure from Energy Harbor's safe, reliable nuclear power generation, technology that produces low carbon hydrogen at a very competitive price, diverse distribution channels and hydrogen-ready facilities, such as Cleveland-Cliffs' Direct Reduction plant. GLCH anticipates on-line, with proven technology in less time than competing alternatives.

Primarily serving the Ohio and Michigan region, the GLCH will be a vital source to the automotive, power generation, transportation, manufacturing and technology suppliers. It will also serve to be a future connection between the East Coast and the broader Midwest (Illinois, Indiana and Wisconsin).

"As we begin an exciting new era of innovation, America's energy future will be built right here in the industrial heartland," Representative Marcy Kaptur said. "Through remarkable collaboration between local companies, universities and public and private sector organizations, the Great Lakes Clean Hydrogen coalition will harness the talents and expertise of our region to solidify the United States' role as a leader in hydrogen production - growing our economy and supporting good-paying jobs."

The GLCH is very proud to have many other organizations also supporting our objectives:

Owens-Illinois	Plug Power	Regional Growth Partnership
Libbey Glass Inc	NEL ASA	Cleveland State University
Owens Corning	First Solar	University of Michigan
Guardian Glass	Nexceris	Michigan State University
NSG Group	RLG/GEM	Michigan Tech University
HC Stark	Flint Metro Transit Authority	Albion College
Wabtec	Toledo Transit Authority	Case Western Reserve University
Haynes International	Owens Community College	Idaho National Labs
Detroit Thermal	American Bureau of Shipping	Argonne National Laboratory
Borg Warner	Port of Monroe	Pacific Northwest National Laboratory
American Honda Motor Co	PJM Interconnection	National Renewable Energy Laboratory
Eaton Corporation	Ohio Fuel Cell Coalition	Lawrence Livermore National Laboratory
AmmPower Corp.	Glass Manufacturing Industry Council	Sandia National Laboratories
		Oak Ridge National Laboratory

About Energy Harbor

Energy Harbor is a highly reliable provider of carbon free baseload electricity committed to Environmental, Sustainability and Governance (ESG) principles critical to meeting the nation's emissions goals and accelerating the country's clean energy transition. Our success is driven by our unwavering employee commitment to safe, reliable operations, financial stability and best in class service to meet the energy and sustainability needs of our customers.

For more information on Energy Harbor visit www.energyharbor.com

About Linde

Linde is a leading global industrial gases and engineering company with 2021 sales of \$31 billion (â,~26billion). We live our mission of making our world more productive every day by providing high-quality solutions, technologies and services which are making our customers more successful and helping to sustain and protect our planet.

The company serves a variety of end markets including chemicals & energy, food & beverage, electronics, healthcare, manufacturing, metals and mining. Linde's industrial gases are used in countless applications, from life-saving oxygen for hospitals to high-purity & specialty gases for electronics manufacturing, hydrogen for clean fuels and much more. Linde also delivers state-of-the-art gas processing solutions to support customer expansion, efficiency improvements and emissions reductions.

For more information about the company and its products and services, please visit www.linde.com

About Cleveland-Cliffs Inc

Cleveland-Cliffs is the largest flat-rolled steel producer in North America. Founded in 1847 as a mine

operator, Cliffs also is the largest manufacturer of iron ore pellets in North America. The Company is vertically integrated from mined raw materials, direct reduced iron, and ferrous scrap to primary steelmaking and downstream finishing, stamping, tooling, and tubing. Cleveland-Cliffs is the largest supplier of steel to the automotive industry in North America and serves a diverse range of other markets due to its comprehensive offering of flat-rolled steel products. Cleveland-Cliffs has established a climate commitment to reduce its GHG emissions 25% by 2030 from 2017 levels and is a partner of the U.S. Department of Energy's (DOE) Better Climate Challenge, which encourages companies to set bold portfolio-wide GHG reduction targets. Headquartered in Cleveland, Ohio, Cleveland-Cliffs employs approximately 27,000 people across its operations in the United States and Canada.

About GE Aerospace

GE Aerospace is a world-leading provider of jet engines, components, and systems for commercial and military aircraft with a global service network to support these offerings. GE Aerospace and its joint ventures have an installed base of more than 39,000 commercial and 26,000 military aircraft engines, and the business is playing a vital role in shaping the future of flight.

The University of Toledo

A public research university offering more than 250 undergraduate and graduate programs and internationally recognized in renewable energy and water research, and its ability to connect research to the broader community. The University is leading the diversity, equity and environmental justice aspects of the proposal. Its Wright Center for Photovoltaics Innovation and Commercialization (PVIC) is charged with developing and advancing solar to H2 projects in the GLCH hub. PVIC has received more than \$50 million in external funding over the past decade and leads the DOE's solar energy CdTe Accelerator Consortium.

~~Contact~~
SOURCE Energy Harbor
Jason Copsey, jcopsey@wearefalls.com

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