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Connecticut Center for Advanced Technology Releases Michigan Hydrogen and Fuel Cell Electric Vehicle Deployment Plan “H2 FCEV Roadmap 2022”

May 17, 2022 (East Hartford, CT) –

Connecticut Center for Advanced Technology (CCAT) recently released the Michigan Hydrogen and Fuel Cell Electric Vehicle Deployment Plan “H2 FCEV Roadmap 2022” for the state of Michigan. The Roadmap was produced by CCAT in collaboration with the U.S. Department of Energy (DOE), DOE’s National Renewable Energy Laboratory (NREL), the Northeast Electrochemical Energy Storage Cluster, and the Michigan Economic Development Corporation.

The purpose of the Roadmap was to identify opportunities for hydrogen technology to deploy zero emission vehicle fleets, including cars, buses, trucks, materials handling, and hydrogen refueling to support the vehicles. The overall objective was to improve air quality and climate protection, energy reliability with fuel diversity, and economic development, including the creation of high-tech jobs in the state of Michigan. The work included an assessment of technology, deployment of hydrogen vehicle applications, and assessment of the cost and value for the deployment.

The Roadmap identified a cost-effective opportunity for deployment of more than 1,200 fuel cell electric vehicles, 37 transit and paratransit buses, and 14 to 15 refueling stations. The economic impact associated with the hydrogen fuel cell industry in Michigan included over \$187 million in revenue and investment; 860 direct, indirect, and induced jobs; \$5.7 million in state and local tax revenue; and nearly \$57 million in employee compensation. Operation of the hydrogen fuel cell vehicles is projected to increase environmental performance of Michigan’s motive fleets with an annual reduction of carbon dioxide (CO₂) emissions by about 9,085 metric tons and NO_x emissions by 3.762 metric tons.

The Roadmap also identified that the deployment of hydrogen and fuel cell technology will reduce dependency on oil; improve air and water quality; help meet carbon and zero emission vehicle (ZEV) requirements; improve opportunities to utilize renewable energy from indigenous sources such as biomass, wind, and solar photovoltaic (PV) power; provide clean energy revenues; and increase the number of energy sector jobs within the state.

“Overall, the execution of the Roadmap will maintain Michigan’s role as a global showcase for regionally manufactured transportation technology, while reducing NO_x and CO₂ emissions and establishing new clean energy jobs in Michigan,” said Dr. Joel Rinebold, Director of Energy at CCAT.

“Producing and using clean hydrogen fuel in Michigan applications provides opportunities for growth in clean energy and manufacturing jobs while contributing to energy and economic resilience,” said Sam Sprik, hydrogen researcher at NREL.

Special thanks to the Michigan Economic Development Corporation, U.S. Department of Energy, National Renewable Energy Laboratory, supply chain companies that were assessed for economic impact, and key businesses and industries including General Motors that provided information and/or review of this document.

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About CCAT

The Connecticut Center for Advanced Technology, Inc. (CCAT), a nonprofit organization founded in 2004 and headquartered in East Hartford, CT, is a dynamic and innovative applied technology organization that leads regional and national partnerships that assist global industrial companies and the manufacturing supply chain across industry sectors in driving advancements, efficiencies, and the adoption of leading-edge technologies.

Our vision is transformative solutions for a connected world, and our mission is to lead the advancement of applied technologies, power the workforce of the future and inspire change.

For more information on CCAT's energy initiatives, please visit <https://www.ccat.us/energy/> or reach out to Joel Rinebold, Director of Energy, at jrinebold@ccat.us.

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