

EMPIRE DIVERSIFIED ENERGY SUPPORTS COOPERATIVE AGREEMENT BETWEEN APPALACHIAN REGIONAL CLEAN HYDROGEN HUB AND THE DEPARTMENT OF ENERGY

Follansbee, West Virginia, August 1, 2024 – (OTC Markets News Release) Empire Diversified Energy, Inc. (“Empire”) is pleased to announce the execution of a cooperative agreement between the Appalachian Regional Clean Hydrogen Hub (ARCH2) and the U.S. Department of Energy (DOE) Office of Clean Energy Demonstrations (OCED). <https://www.arch2hub.com/agreement-reached-to-build-appalachian-regional-clean-hydrogen-hub-arch2/> This is the latest step toward Empire Green Generation (Green Gen), a wholly-owned subsidiary of Empire, securing federal funding to assist in the development of its state-of-the-art facility that would convert food waste into renewable hydrogen and carbon as one of 12 Project Development Partners (PDPs) in the ARCH2 Hub.

Empire’s project proposal involves the treatment of food waste in an anaerobic digester, producing biogas and residual solid material (digestate). Empire’s project partner Heartland Water Technology (Heartland) would subsequently apply its proprietary HelioStorm™ ultra-high temperature ionic gasifier technology to perform methane pyrolysis of the biogas to produce clean hydrogen and valuable, sustainable carbon. The digestate would be processed through Heartland's proprietary LTC Dry™ and HelioStorm™ gasifiers in a parallel pathway to produce an ultra-pure, tar-free synthesis gas. This gas would then be used to generate clean energy, powering the entire conversion system described, and reducing reliance on the grid and fossil fuels.

About Empire Green Generation, LLC

Empire Green Generation (www.empiregreengen.com) is a behind-the-grid utilities company that utilizes waste-to-energy and recycling systems to provide electricity, waste management, and water treatment services to Empire’s Riverfront Industrial Complex at the Port of West Virginia. Empire Green Gen provides electricity from waste plastic-derived syngas and green hydrogen from recycling food waste.

About Empire Diversified Energy

Empire Diversified Energy, Inc. is a multifaceted holding company with business units in the sustainable energy and logistics sector. Empire’s primary location is in Follansbee, WV where it operates the Port of West of Virginia, within its Eco-Industrial Complex. The Complex is geographically located along the Ohio River where it serves the crossroads of the East Coast and Midwest through its trimodal facility. Empire is currently deploying a host of innovative proven technologies serving the pathway to clean energy generation. These business units will serve the transportation, waste, steel, warehousing, and other sectors, in an effort to help decarbonize the region.

About Heartland Water Technology

Operating at the intersection of water, renewable energy, and resource recovery, since 2008, Heartland develops, designs, builds and operates technology-enabled systems to treat, convert, and valorize a wide range of feedstocks for the waste management, industrial and energy sectors. These solutions are tailored to meet the specific requirements of each customer site, including resource optimization, enhanced sustainability, and compliance with environmental regulations. The primary technologies

enabling Heartland's turnkey solutions are the award-winning Heartland Concentrator™, patented ultra-high temperature ionic gasifier HelioStorm™, industry leading system controls, and the innovative low temperature solid drier LTC Dry™. Heartland's technologies convert a variety of inputs into valuable end products, including clean hydrogen and other renewable resources.

Forward-looking Information

This press release contains “forward-looking statements” within the meaning of the safe harbor provisions of the U.S. Private Securities Litigation Reform Act of 1995 including the benefits of the project and the announcement of further details. Forward-looking statements involve risks and uncertainties that could cause actual results to differ materially from those in the forward-looking statements. Forward-looking statements can be identified by words such as: “anticipate,” “intend,” “plan,” “goal,” “seek,” “believe,” “project,” “estimate,” “expect,” “strategy,” “future,” “likely,” “may,” “should,” “will” and similar references to future periods.

Any such forward-looking statements are not guarantees of performance or results, and involve risks, uncertainties (some of which are beyond Empire’s control) and assumptions. Although Empire believes any forward-looking statements are based on reasonable assumptions, you should be aware that many factors could affect the outcome or results and cause them to differ materially from those anticipated in any forward-looking statements, including the risk factors described from time to time by us in our filings with the U.S. Securities and Exchange Commission. Shareholders, potential investors, and other readers should consider these factors carefully in evaluating the forward-looking statements.

Any forward-looking statement made by Empire in this press release speaks only as of the date on which it is made. Empire undertakes no obligation to update any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by law.

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