



PlasCred Circular Innovations Inc. Announces Initial Catalytic Test Results with Patent-Pending Primus Pilot Plant

CALGARY, AB, Nov. 22, 2023 /CNW/ - PlasCred Circular Innovations Inc. (the "**Company**" or "**PlasCred**") (CSE: PLAS) (Frankfurt: 304A), a transformative leader in the plastic waste upcycling sector, proudly announces the initial catalytic test results from its cutting-edge, patent-pending Primus pilot plant in Calgary. This milestone achievement demonstrates the superior performance and efficiency of PlasCred's unique upcycling process with catalysts.

The Primus facility, a testament to PlasCred's commitment to the circular economy, was engineered for beta testing of PlasCred's innovative upcycling process. The process was designed to function with or without catalysts, ensuring optimal and consistent system parameters. However, the catalytic runs showed remarkable results, surpassing the non-catalytic ones in terms of yield and quality.

The catalytic tests, using polypropylene plastic waste as the primary material, produced high-quality zero sulphur green condensate that meets industry specifications with a yield of about 87%. The condensate has a density and viscosity that fall within the desirable range for pipeline diluents, as indicated by the Enbridge Inc. specifications [*]. This means that the condensate can be used as a raw feedstock for the production of fuels and chemicals, or as a blending agent for heavy oil transportation.

**The Enbridge Inc. specifications provide a benchmark indicating the desirable range of properties for materials to be used as pipeline diluents. Materials within these specifications are likely to perform better in pipeline transportation as they align with the established standards for density and viscosity, which are critical for ensuring smooth operation, minimizing friction, and maintaining the integrity of the pipeline infrastructure.*

Troy Lupul, PlasCred's CEO, commented, "Our progressive upcycling method can convert up to 80% of dirty, mixed waste plastic. The resultant liquid, which puts plastic waste back to its original molecules, has vast potential as raw feedstock for various industries. The catalytic tests have proven that our process is more energy efficient and environmentally friendly than the conventional methods of plastic recycling or incineration. We are excited to share these results with our stakeholders and the public, as we continue to advance our technology and contribute to the circular economy." The Primus facility, a testament to PlasCred's commitment to the circular economy, was engineered for beta testing of PlasCred's unique upcycling process. To maximize flexibility, the process was designed to function with or without catalysts, ensuring optimal and consistent system parameters.

Using polypropylene plastic waste as the main feedstock, the Primus pilot plant conducted experiments with catalysts and obtained remarkable outcomes. The process generated high-quality green condensate with zero sulphur content that met industry standards and operated at lower temperature (<300°C) than non-catalytic runs, making it more energy efficient. The plant achieved liquid conversion rates of about 87% during the catalytic runs.

Operation Results

	Non-Catalytic Run	Catalytic Run
Onset Temperature /°C	350	290
Average Liquid Yield /wt%	80	87

The insights and data gathered from the Primus testing will be instrumental in the construction of the inaugural PlasCred Maximus plant. This upcoming facility is designed to produce approximately 2,000 up to 10,000 barrels a day of zero sulphur green condensate and remove approximately 300 up to 1,300 metric tonnes a day of plastic waste from the environment while using minimal energy.

In their commitment to scalability and adaptability, PlasCred has planned rigorous testing over the next six months, incorporating a variety of mixed waste plastics and a proprietary blend of catalysts. This initiative solidifies PlasCred's dedication to addressing the global plastic waste challenge and reinforces its leadership in environmental sustainability.

About PlasCred Circular Innovations Inc.

PlasCred is at the forefront of rebalancing the future of plastics. The company is transforming plastic waste by granting it a valuable second life. With a vision of advancing towards a climate-positive future, PlasCred aspires to be among the largest advanced plastic waste upcycler's in North America and globally. Their groundbreaking patent-pending technology is set to revolutionize the approach to plastic waste management and upcycling.

PlasCred is also developing strategic partnerships with CN Rail and Fibreco Export Inc., providing PlasCred with unparalleled logistics support across North America and globally for transportation and handling of plastic waste. Further information on PlasCred, see their YouTube channel and website located at <http://www.youtube.com/@PlasCredInc> and <https://www.plascred.com>

ON BEHALF OF THE BOARD

Troy Lupul – President & CEO

Forward-looking Statements

This news release contains certain statements that may constitute forward-looking information under applicable securities laws. All statements, other than those of historical fact, which address activities, events, outcomes, results, developments, performance, or achievements that PlasCred anticipates or expects may or will occur in the future (in whole or in part) should be considered forward-looking information. Often, but not always, forward-looking information can be identified by the use of words such as "plans", "expects", "is expected", "budget", "scheduled", "estimates", "forecasts", "intends", "anticipates", or "believes" or variations (including negative variations) of such words and phrases, or statements formed in the future tense or indicating that certain actions, events or results "may", "could", "would", "might" or "will" (or other variations of the forgoing) be taken, occur, be achieved, or come to pass. Forward-looking statements are based on assumptions, including expectations and assumptions concerning the metaverse and the Company's growth plan. While PlasCred considers these assumptions to be reasonable, based on information currently available, they may prove to be incorrect. Readers are cautioned not to place undue reliance on forward-looking statements. In addition, forward-looking statements necessarily involve known and unknown risks, including, without limitation, risks associated with general economic conditions; adverse industry events; future legislative, tax and regulatory developments. Readers are cautioned that the foregoing list is not exhaustive and other risks set out in public disclosure recorded and filed under the Company's profile on www.sedar.com. Readers are further cautioned not to place undue reliance on forward-looking statements as there can be no assurance that the plans, intentions, or expectations upon which they are placed will occur. Such information,

although considered reasonable by management at the time of preparation, may prove to be incorrect and actual results may differ materially from those anticipated. For more information on the risk, uncertainties and assumptions that could cause anticipated opportunities and actual results to differ materially, please refer to the public filings of Plascred Circular Innovations Inc. which are available on SEDAR at www.sedar.com.

Forward-looking statements contained in this news release are expressly qualified by this cautionary statement and reflect our expectations as of the date hereof, and thus are subject to change thereafter. PlasCred Circular Innovations Inc. disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as required by law.

The Canadian Securities Exchange (operated by CNSX Markets Inc.) has neither approved nor disapproved of the contents of this press release.

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For further information: PlasCred Circular Innovations Inc., Troy Lupul, +1 403-430-3004 - Email: IR@plascred.com

CO: Plascred Circular Innovations Inc.

CNW 09:36e 22-NOV-23