DELTA FUNDS ENHANCED CO_2 CAPTURE RESEARCH AT THE UNIVERSITY OF CALGARY

Calgary, Alberta – December 18, 2024 – Delta CleanTech Inc. ("**Delta**" or the "**Company**") (CSE:DELT, FRA: 66C).

Recently**, Delta sponsored the University of Calgary** to complete research that utilizes **Optimized Spray Column Design** to enhance the CO_2 capture process. The research demonstrates how optimizing spray columns can significantly enhance CO_2 absorption efficiency.

Packed bed absorbers, while effective, present several challenges such as high capital costs, pressure drops, and maintenance requirements. As the global effort to mitigate climate change intensifies, there is a strong demand for more efficient and cost-effective CO_2 capture technologies. Spray columns offer a simpler design, and lower operating costs represent a potentially more affordable solution. Historically, spray columns' CO_2 capture efficiency has lagged behind that of packed columns. **This study aimed to address these efficiency gaps through innovative design modifications.**

Jeff Allison, CEO of Delta, remarks: "This research represents a significant step toward optimizing spray column designs for industrial-scale CO_2 capture. Up to 10% increase in absorption efficiency with two independent spray zones demonstrates the potential of spray columns as a cost-effective and scalable alternative to traditional packed bed absorbers. While further optimization is needed to fully match the performance of packed columns, this research provides a solid foundation for the development of high-efficiency CO_2 capture technologies that can assist industries to meet their decarbonization goals."

Delta remains zealous in research and development opportunities to reduce the cost of CO_2 capture by using innovative processes such as: 1) modular design for oil field fabrication techniques; 2) improving solvent recycling by using our patented solvent reclaimer process; and 3) identifying solvent enhancements to improve its ability to absorb more CO_2 by using less heat.

All of these factors incrementally reduce the cost of CO_2 capture, which in turn makes the cost of capture more affordable to those companies eagerly looking to reduce their emissions profile."

Mr. Allison added, "We look forward to the innovative learnings that will come from our partnership with the University of Calgary."

Delta CleanTech Inc. is a 19-year ESG-driven, recognized global technology leader in CO2 Capture, Decarbonization of Energy, Solvent & Glycol Reclamation, Blue Hydrogen Production, and Carbon Credit Aggregation and Management. Delta continues to provide solutions to clients all over the world in sequestering, capturing, and reducing CO2 and through its affiliate, Carbon RX, is originating, validating, digitizing, and streaming Carbon Credits.

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Forward Looking Statements This news release contains "forward-looking information" within the meaning of applicable Canadian securities legislation, which are based upon Delta's current internal expectations, estimates, projections, assumptions and beliefs and views of future events. Forward-looking information can be identified using forward-looking terminology such as "expect", "likely", "may", "will", "should", "intend", "anticipate", "potential", "proposed", "estimate" and other similar words, including negative and grammatical variations thereof, or statements that certain events or conditions "may", "would" or "will" happen, or by discussions of strategy. Forward-looking information include estimates, plans, expectations, opinions, forecasts, projections, targets, guidance, or other statements that are not statements of fact. Specifically, this news release contains forward looking information relating to the Company's anticipated growth, exploration of solvents, reduction of cost of CO_2 capture, enhancement of financial and other benefits, and the continued collaboration with and the research of the University of Calgary.
The CSE does not accept responsibility for the adequacy or accuracy of this release.