

Delta Advances CO₂ Capture Efficiency in Industry Through Pioneering Research

Calgary, Alberta, Canada – April 29, 2024 - Delta CleanTech Inc. (“Delta” or the “Company”) (CSE:DELT, FRA: 66C).

Delta CleanTech continues its pursuit of innovating the CO₂ Capture process, consistently exploring new materials, solvents, and technologies aimed at enhancing performance.

Delta’s engineering team has been engaged in collaborative endeavors, working with the National Research Council of Canada, to delve deeper into the intricacies of DeltaSolv®, Delta’s carbon capture solvent division. These endeavors encompass a spectrum of experiments, ranging from studying solvent capture capacity, the kinetics of solvents in CO₂ capture, assessing solvent corrosion under varying temperatures, CO₂ loadings, as well as exploring concentration control through semi-permeable membranes.

The insights garnered from these characterizations will empower clients with a wider array of options for their CCUS (Carbon Capture, Utilization, and Storage) initiatives.

Understanding the unique composition and flow of each CO₂ capture source is paramount. Thus, comprehending the corrosive nature of amine solutions on building materials and the specific characteristics of these solutions, offers invaluable insight into how Delta’s LDesign® can tailor plant specifications, to match the requirements of the exhaust feed gas. This enables the precise alignment of point sources of CO₂ emissions, with optimally formulated solvents and plant designs, ensuring clients achieve maximized CO₂ capture unit economics.

“Delta is diligently establishing its own internal laboratory operations to fuel further CCUS innovations, and to provide analytical testing to clients in the near future,” said Delta’s Senior Chemist Shawn Waugh “The steadfast research efforts of the Delta CleanTech team are poised to revolutionize sustainability practices and solvent assurance offerings for clients, all while maintaining competitive capital and operational costs, and upholding processing quality.”

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, enhancement of financial and other benefits, and the collaboration with the National Research Council of Canada.

The CSE does not accept responsibility for the adequacy or accuracy of this release.