



TSX-V: CST

CO₂ Solutions Partners with GasTran Systems for Lower Cost Carbon Capture Process

Joint solution to significantly reduce capital costs and expand market opportunities

Quebec City, Quebec, and Cleveland, Ohio, June 22, 2015 – CO₂ Solutions Inc. (CO₂ Solutions or “the Corporation”) (TSX-V: CST), the leader in the field of enzyme-enabled carbon capture technology, today announced that it has entered into an exclusive Collaboration Agreement (the Agreement) with Cleveland, Ohio-based Cleveland Gas Systems, LLC, dba GasTran Systems (“GTS”, or “GasTran”), the leading provider of high-intensity gas-liquid rotating packed bed (RPB) mass transfer technology. The collaboration further strengthens the key value propositions of CO₂ Solutions’ carbon capture technology, namely low cost and environmental friendliness.

Under the terms of the Agreement, CO₂ Solutions and GTS will collaborate on bringing to market an advanced carbon capture solution, combining CO₂ Solutions’ non-toxic enzyme-enabled capture process and GasTran’s RPB technology. Synergies observed during initial joint testing, at a scale of approximately 0.5 tonnes of CO₂ captured per day, show potential for capture equipment 20 times smaller than conventional equipment. This would significantly reduce capital costs, as well as increase the applicability of CO₂ capture at many emitter locations where space and footprint considerations are as important as cost, such as power plants and refineries.

Additionally, the joint testing demonstrated that the Corporation’s proprietary enzyme-based solvent dramatically outperforms amine solvents in terms of CO₂ absorption kinetics, while at the same time being environmentally friendly. Absorption rates 5 times faster than a conventional amine solvent were observed in the RPB. As opposed to amine-based technology, no harmful aerosols were emitted and no harmful waste products were generated.

“We believe this collaboration with GasTran will significantly increase our market reach, driven both by compelling economics and installation considerations” said Evan Price, President and CEO of CO₂ Solutions. “The new solution complements our existing packed-column based technology, which we are looking to commercialize this year, bringing us greater flexibility to pursue further commercial opportunities. This lower cost, dramatically more compact solution, also has the potential of eventually replacing current packed column technology”.

“We are looking forward to teaming with CO₂ Solutions to demonstrate this breakthrough technology for carbon capture,” said Matthew Brinn, President and CEO of GasTran. “We anticipate realizing very significant synergies from the collaboration, making this an important opportunity for us to penetrate large existing markets for the commercial reuse of CO₂”.

The tests conducted on the combined solution build further on the results achieved by CO₂ Solutions’ pilot work announced April 30th. Capture costs for the Corporation’s technology, based on conventional packed-column equipment, were found to be already below the U.S.

Department of Energy target for the year 2025, ten years ahead of schedule. Using the RPB technology, further reductions in capital and operating costs will further extend the Corporation's industry-leading position. Under the terms of the Agreement, GTS will work exclusively with CO₂ Solutions in the field of CO₂ capture, and will provide RPB units for CO₂ Solutions' demonstration and commercial projects. GTS will also refer customer leads to CO₂ Solutions.

The GTS RPB technology is based on the principle of increasing, by orders of magnitude, the effective surface area of a liquid to facilitate gas absorption and maximizing the amount of a gas to be absorbed by the liquid phase. This commercially proven technology has an excellent operational record in other gas-liquid mass transfer applications, such as deaeration of liquids in the beverage industry, and in large-scale chemical production. The collaboration builds on this operational and commercial success, making the RPB available for the first time for carbon capture, made possible by CO₂ Solutions' proprietary enzymatic technology.

About GasTran Systems

GasTran Systems is rapidly transforming a variety of industries with its patented process intensification approach to combining and separating gases and liquids. The company designs, builds, and installs industrial water treatment systems and equipment to meet the needs of its customers. Every system comes with GasTran's expertise in finding a solution to satisfy and then exceed customer process improvement goals. Further information can be found at www.gastransfer.com

About CO₂ Solutions Inc.

CO₂ Solutions is an innovator in the field of enzyme-enabled carbon capture and has been actively working to develop and commercialize the technology for stationary sources of carbon pollution. CO₂ Solutions' technology lowers the cost barrier to Carbon Capture, Sequestration and Utilization (CCSU), positioning it as a viable CO₂ mitigation tool, as well as enabling industry to derive profitable new products from these emissions. CO₂ Solutions has built an extensive patent portfolio covering the use of carbonic anhydrase, or analogues thereof, for the efficient post-combustion capture of carbon dioxide with low-energy aqueous solvents. Further information can be found at www.co2solutions.com.

CO₂ Solutions Forward-looking Statements

Certain statements in this news release may be forward-looking. These statements relate to future events or CO₂ Solutions' future economic performance and reflect the current assumptions and expectations of management. Certain unknown factors may affect the events, economic performance and results of operation described herein. CO₂ Solutions undertakes no obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise, except as may be required under applicable law.

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