



**TSX-V: CST**

## **CO<sub>2</sub> Solutions Provides Update on Demonstration Project**

*Operation of carbon capture unit meets expectations and confirms near-readiness for commercial operation*

**Quebec City, September 2, 2015** – CO<sub>2</sub> Solutions Inc. (TSX-V: CST) (CO<sub>2</sub> Solutions or the Corporation), the leader in the field of enzyme-enabled carbon capture technology, today provided an update on its demonstration project at Salaberry-de-Valleyfield (“Valleyfield”), near Montreal, Québec.

Further to the Corporation’s press release of July 13, 2015, the demonstration unit at Valleyfield has now exceeded 1,000 hours of operation since June 19, 2015, using the Corporation’s proprietary enzyme, 1T1. Preliminary results of the operation to date are conclusive and fully in line with previously announced statements, confirming the strong potential of CO<sub>2</sub> Solutions’ technology for the low-cost, environmentally friendly capture of carbon dioxide from major emitters. Highlights of the preliminary results to date are:

- 1,200 hours of operation using the Corporation’s proprietary enzyme, 1T1, were clocked, with CO<sub>2</sub> capture consistently at design capacity.
- No enzyme catalytic performance degradation has been observed during operation to date.
- The unit’s set-up has proven effective in a downstream setting from a boiler, thereby mimicking conditions that CO<sub>2</sub> Solutions would encounter in typical industrial settings, proving that the capture operation does not destabilize the heat or power production.
- Purity of the CO<sub>2</sub> produced meets the most stringent industry requirements for sectors such as food and beverage, with no or only minor additional processing or purification required.
- A comprehensive test run using the Corporation’s standard carbonate solvent has been completed, which confirmed consistent performance at the required levels for commercial operation; no solvent make-up was required.
- Operation also confirmed the environmentally friendly aspects of the Corporation’s technology and the absence of harmful wastes.
- The proven stability, robustness and consistency of the unit’s operation allowed the Corporation to change from round-the-clock operator monitoring to day-time operator presence only with autonomous overnight operation.

“We are very pleased with the results obtained to date from our demonstration project,” commented Dr. Louis Fradette, CO<sub>2</sub> Solutions’ Chief Technology Officer. “The project has confirmed important operating parameters such as enzyme robustness, capture kinetics, solvent stability and capacity. As this is a pilot unit, we are using this opportunity to run a wide variety of tests on the unit over and above those specified in the initial brief. For instance, by widely varying input conditions, we have been stress-testing the system. To date, the system has responded well to all of these tests, validating the significant robustness of our technology. We will continue to operate the unit at Valleyfield until the early Fall to the planned 2,500 hours of operation, as we are looking at additional innovative modifications to the current set-up to improve the already impressive operational and cost characteristics of our technology.”

Evan Price, President & CEO of CO<sub>2</sub> Solutions, added, “The full results, once verified by an independent third party, will allow us to complete work on detailed engineering and costing models for commercial units at various scales. This is a very important milestone in our development, as it signals the near-completion of our pre-commercial scale up and de-risking programme. The results to date have fully met our expectations, and we are confident that the experience gathered in this demonstration will facilitate and accelerate our efforts to transition to the commercial launch of the technology.”

**About CO<sub>2</sub> Solutions Inc.**

CO<sub>2</sub> 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. CO<sub>2</sub> Solutions' technology lowers the cost barrier to Carbon Capture, Sequestration and Utilization (CCSU), positioning it as a viable CO<sub>2</sub> mitigation tool, as well as enabling industry to derive profitable new products from these emissions. CO<sub>2</sub> 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](http://www.co2solutions.com).

**CO<sub>2</sub> Solutions Forward-looking Statements**

Certain statements in this news release may be forward-looking. These statements relate to future events or CO<sub>2</sub> 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. CO<sub>2</sub> 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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