

Canada's CCCI Teams up with NRG COSIA Carbon XPrize



CMC

Carbon Capture &
Conversion Institute

<http://www.cmc-nce.ca/business-units/ccci/>

Teams in the NRG COSIA Carbon XPRIZE competition will be able to use the CMC Research Institute's Carbon Capture and Conversion Institute (CCCI) in Canada under a partnership announced on December 1st, 2016. The \$20 million Carbon XPRIZE competition aims to convert CO₂ into useful products. Round-two of the competition is underway in which the selected teams will conduct pilot-scale demonstrations of their technologies in a controlled environment using simulated power plant flue gas.

The CCCI team will work with semi-finalists participating in Round 2 to design, build and test their technology at pilot scale (about 100 kg/day). Teams who move to Round 3, the Finals, will demonstrate their technologies at a commercial scale at one of the two Carbon XPRIZE test sites of the competition finals. Teams will be scored on how much CO₂ they convert and the net value of their products.

<http://cmcghg.com/nrg-cosia-carbon-xprize-and-cmc-research-institutes-announce-partnership/>

CMC Research Institutes (CMC) is an independent, not-for-profit business with one key mission – accelerating the development of technologies to eliminate industrial greenhouse gas (GHG) emissions. The organization provides field testing and piloting facilities to clients in oil and gas, oil sands, electricity generation, and cement and chemical manufacturing. Its aim is to rapidly move concepts from the lab bench to the field while effectively managing risk at every step of the way.

The mission of CMC's Carbon Capture and Conversion Institute is to accelerate the development of carbon capture and conversion technologies for use in industry. The Institute is being developed through a collaborative partnership between CMC, BC Research Inc. and the University of British Columbia. Pilot and testing facilities are under construction in Richmond, B.C. and will be complete in early 2017.

<http://ccci.cmcghg.com/about-us/>

Multiple technologies accommodated

The CCCI can accommodate a broad range of technologies from solvent systems, membranes and sorbents on the capture side, to chemical, electrochemical and even biological systems in the conversion stream. CCCI also has capabilities and expertise in pre-combustion capture and the decarbonization of fossil fuels.

In its quest to accelerate the development of capture and conversion technologies, the facility brings together researchers, engineers and business development professionals from the Institute's three founding organizations to work with clients. If in-house expertise is not available, the Institute reaches out to its global network of experts.

CCCI is located in Vancouver, British Columbia.