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Canadian Environmental Grand Challenge

Start-up HY-TEK Bio awarded \$500,000 in global innovative carbon use competition

EDMONTON, CANADA (April 16, 2014) – [HY-TEK Bio LLC](#), a Howard County biotech start-up, has been awarded a \$500,000 grant in the first round of the [Change and Emissions Management Corporation's \(CCEMC\)](#) \$35 million international *Grand Challenge: Innovative Carbon Uses*. HY-TEK was among 24 finalists selected from 344 submissions from 37 countries on six continents.

HY-TEK Bio shared the award with the University of Maryland Center for Environmental Science's [Institute of Marine and Environmental Technology \(IMET\)](#) for work using algae to capture carbon dioxide. Algae from the Chesapeake Bay could be the key to reducing greenhouse gas emissions from power plants.

"It was exciting to be at CCEMC among leading-edge technologies that can be used for removing greenhouse gas," said HY-TEK Bio President/CEO Robert Mroz.

HY-TEK Bio is an emerging global leader in reducing Greenhouse Gas (GHG) emissions and generating oxygen and algae to produce high value products. HY-TEK's technology uses a unique strain of algae (HTB-1) - isolated from thousands of strains - to absorb up to 100 percent of the GHG emissions from flue gases produced in industrial manufacturing and power generation.

"This new funding will help us purchase equipment to pursue the many inquiries we've gotten to commercialize this process," Mroz said. "We can fulfill the potential we've seen from the beginning."

Mroz, with Drs. Feng Chen, Russell Hill and Yantao Li from the [Institute of Marine and Environmental Technology](#), has done more than develop a microalgae-based system to reduce emissions on an industrial scale; he has produced a series of valuable by-products and related technologies. HTB-1 algae is harvested for use in a multitude of high-value products including pharmaceuticals, nutraceuticals, animal feed, and of course, biofuel. In optimizing the process of growing algae HY-TEK Bio has produced advancements in LED lighting, nutrients, and gas injection.

HY-TEK Bio earlier was awarded \$160,000 from the Maryland Industrial Partnerships (MIPS) Program to test and verify HY-TEK Bio's clean energy technology during the past two years, and the City of Baltimore contracted with HY-TEK Bio to mitigate Greenhouse Gas emissions from a portion of the exhaust gases produced by the City's methane-fired three-megawatt generators at the Back River Waste Water Treatment Plant.

Complete information regarding the HY-TEK Bio process and its related technologies is available at www.hytekbio.com.

For additional information or to schedule an interview, please contact Paul Rosenberger at 410.262.5410, or prosenberger@hytekbio.com.