

Bio2Electric, LLC Establishes EcoCatalytic Technologies to Develop New Catalyst Technology

Receives three year, \$3.8M contract for ethylene and propylene production

PRINCETON, N.J, July 28, 2014 -- Bio2Electric, LLC, dba EcoCatalytic Technologies, received a three year, \$3.8 million contract from the Advanced Research Project Agency - Energy (ARPA-E) to develop a new catalyst technology for ethylene and propylene production from components of natural gas.

“The confluence of low cost natural gas in the U.S. and the need to reduce environmental emissions provides significant opportunity for innovation,” said EcoCatalytic Technologies CEO Dr. John Sofranko.

Ethylene and propylene are the largest volume building blocks in the organic chemical industry, with more than 750 million tons per year produced globally and transformed into plastics such as PE, PP and PET -- which are ultimately used in thousands of consumer products.

The current technology for ethylene and propylene production remains energy intensive and emits more than 1.5 tons of carbon dioxide for every ton produced. The new technology reduces the CO₂ footprint by more than 90 percent and eliminates the release of NO_x and SO_x pollutants.

Additional ARPA-E project team members working with EcoCatalytic Technologies to develop the new catalyst technologies include North Carolina State University, Particulate Solid Research, Inc. of Chicago, and KBR, Inc. of Houston.

ABOUT:

Bio2Electric is an early stage start-up company developing technologies for the conversion of natural and bio based gas to sustainable supplies of liquid fuels and electrical power. It was formed in 2009 as a partnership between TreadStone Technologies, Inc. and Bio2Electric's founder, Dr. John Sofranko.

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