



Environmental approach to producing the world's largest family of petrochemicals – olefins, used to manufacture consumer plastics

Economic sector

Energy Utilization

Environmental benefits

Clean air

Climate change

Status

Active

Consortium members

Quantiam Technologies Inc.

BASF Qtech Inc.

BASF SE

Year

2015

SDTC funding

\$4,250,000

Leveraged funding

\$11,980,148

Total project value

\$16,230,148



Results / Projects

/ Environmental approach to producing the world's largest family of petrochemicals – olefins, used to manufacture consumer plastics

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Lead organization

Quantiam Technologies Inc.

Description

Hydrocarbons must be heated to extremely high temperatures to produce a petrochemical product called olefins, which can be made from shale gas constituents and find their way into everyday use in plastics and other products. But when heated to that degree, hydrocarbons create an unwanted side-product called coke – which plugs up the furnace tubes used in their production, and interferes with the energy efficiency and profitability of the operation. With SDTC support, Quantiam has already commercialized a product that helps a segment of the industry: an anti-coking furnace coating technology. But with Shale Gas now revolutionizing the global petrochemical sector with high growth in North America, the demand persists for greater performance under even higher temperatures. Quantiam is pursuing another project with SDTC that will see its technology applied to even higher temperatures and operating severities. The end result will be a reduction of overall energy requirements and GHG emissions by as much as 14 percent.

Location

T6N1E6 AB

Canada

Alberta CA

Leveraged funding

\$11 980 148.00

SDTC funding

\$4 250 000.00

Total project value

\$16 230 148.00

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