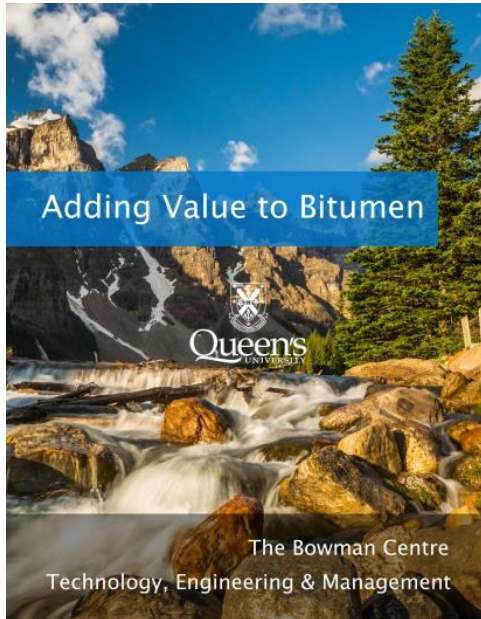


2017 Project: [Adding Value to Bitumen](#)

Project team: Anna Rhamey (Chemical Engineering), Michael Burch (Chemical Engineering), Jaynesh Mistry (Chemical Engineering), Sydney Olsen (Chemical Engineering)

Queen's advisors: John Carlson, David Mody, Oxana Shibaeva, David Sask.

BCSE advisors: Ed Brost, John Ward



Abstract: Currently, fossil fuels are the primary product manufactured from Alberta Bitumen. Assuming 50\$/barrel, the value of the resource ranges from 5 to 10 trillion dollars. But the value of that resource is under threat from excess global supplies of crude oil and a world under pressure to decarbonize its national economies. How can Canada continue to benefit from this valuable resource without contributing unduly to GHG emissions?

This study explores alternative uses for bitumen, uses not intended for combustion. Examples include asphalt, carbon fibre, graphenes, quinones and others. The study scope includes market size, market growth, economics and technologies for the products considered in the study.

To discuss this project or obtain a copy of the final report (a fee is required) please contact contact@bowmancentre.com