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Clean Energy Projects

Backgrounder

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Oil and Gas Projects

Husky Oil — \$9.4 million for a project that uses Hydrogen-Donor Diluent Reduction technology. This project aims to produce bitumen products with lower overall energy and diluent requirements in an efficient and economic fashion, which reduces greenhouse gas (GHG) emissions related to producing, transporting and refining diluted bitumen.

Suncor Energy — \$7.8 million for a demonstration project that will advance commercialization of direct contact steam generation and develop an extraction process that does not use water for recovering bitumen from oil sands. The project will reduce GHG emissions and improve environmental performance of the oil sands operations in Alberta.

Proton Technologies — \$375,000 for an engineering and design study of a hydrogen membrane tool that will support the production of hydrogen with no carbon emissions. This hydrogen could then be used in transportation or electricity production as an alternative to conventional fuels.

Carbon Capture, Storage and Use Projects

Inventys Thermal Technologies Incorporated — \$1.8 million to demonstrate a novel carbon dioxide capture technology at Husky's Steam Assisted Gravity Drainage Project near Lloydminster, Saskatchewan.

Carbon Engineering Ltd. — \$1.5 million to support an engineering and design study for a future commercial-scale demonstration plant that captures carbon dioxide directly from the atmosphere and uses it in the synthesis of clean transportation fuels. This process will help displace the use of crude oil while using our existing fuelling infrastructure.

Carbon Upcycling Technologies Inc. — \$500,000 to demonstrate the direct sequestration of carbon dioxide and fly ash to produce additives for the construction industry that will enhance the strength of concrete.

Quantiam Technologies — \$500,000 for the development of Methanol+, a catalyst and process technology to convert carbon dioxide and hydrogen to methanol.

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Date modified:

2017-12-15