

**Project Title: Reducing GHG emissions – Reforming Bitumen Froth Deaeration Process**

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**Summary:**

*Proposed Project:*

The proposed project is to reform the traditional froth deaeration process to minimize the steam consumption.

The current surface mining oilsands extraction process utilizes the froth deaerator to reduce the air content of the bitumen froth to make it pumpable. This technology is in operation since the inception and meets the process requirements; however this set-up consumes significant steam.

*Technology:*

The proposed technology will help in nullifying the steam consumption, which translates into significant reduction of GHG emission.

However, to implement the proposed process, it may need revamping the current configuration.

There is no additional power requirement is anticipated, as the required power for new process is assumed to be offset within revamping.

It is to be noted that the proposed process is totally different than the static deaeration process.

*Opportunity:*

This process can be easily proved at laboratory scale. This technology, when implemented will offer significant cost benefits.

It is must that this technology or other alternate technology if available shall be deployed to replace the existing steam based deaeration process to reduce the GHG emission.

*Environmental Benefits:*

Dramatic reduction in GHG emission as steam consumption goes down.

*Area of application:*

- *Bitumen Froth Deaerator – Extraction plant, minable Oilsands*