

Our Planned Path of Operations

PAK Lithium Project



The Company

Frontier is a wholly Canadian company with a tight share structure with management ownership exceeding over 30% of the company. The Company has adopted a staged growth approach to exploration and development in order to avoid unnecessary share dilution – a strategic imperative for the Company.



The PAK Lithium Project

The PAK Lithium Project lies close to the boundary between two geological sub-provinces of the western Superior geologic province in northwestern Ontario and hosts a rare metals pegmatite low-iron spodumene deposit that includes 8.2 million tonnes of high-grade lithium. The deposit is analogous to the rare deposits that have supplied over 90% of the world's mineral (hard rock concentrate) supply.

Staged Approach for Growth

Our planned path into the global lithium market realizes the best return on investment and involves scaleable operations.

Frontier's "First path" leads to a "Long Term path", believing that mines build chemical plants and not the other way around.

First Path: Sell to industrial use market with option to sell to chemical plants.



This first path satisfies the demands of the ceramics/glass market - representing 1/3 of the entire lithium market.

Ceramic/glass customers prefer to source technical-grade (low-iron) spodumene concentrate in excess of 7% lithium oxide (Li₂O), if available, to avoid inferior lower grade petalite concentrates, or paying much higher prices for battery grade lithium compounds that require capital intensive chemical plants.

Long Term Path: Sell to industrial use market and sell to chemical plants. Become a global producer of compounds in Ontario.



Invest in a chemical plant in Ontario that takes the lithium out of the spodumene and Ontario becomes a global supplier of compounds for the lithium ion battery market. We would still reserve some of the concentrate output from the mine to industrial markets (eg. ceramic glass).

Frontier's approach addresses the problem in the global supply chain.

The global ceramic glass producers mineral concentrate supply is under threat. The Chinese control Greenbushes Mine in Western Australia where output has been transitioning toward increased manufacture of compounds for the battery market. Our approach targets a niche market opportunity for entrance with a low-iron spodumene product for the production of rare technical grade lithium concentrates for the ceramic glass market, but could also sell to existing lithium compound producers, with the added future possibility to produce premium lithium compounds such as hydroxide directly to the battery market.

Frontier believes that mines build chemical plants and not the other way around.

Entering in the concentrate market is an obvious path to pursue the compounds market as producing a consistent, reliable concentrate is the precursor to feeding a hydrometallurgical (chemical plant) to produce lithium compounds.