

AVONLEA

LITHIUM CORP.

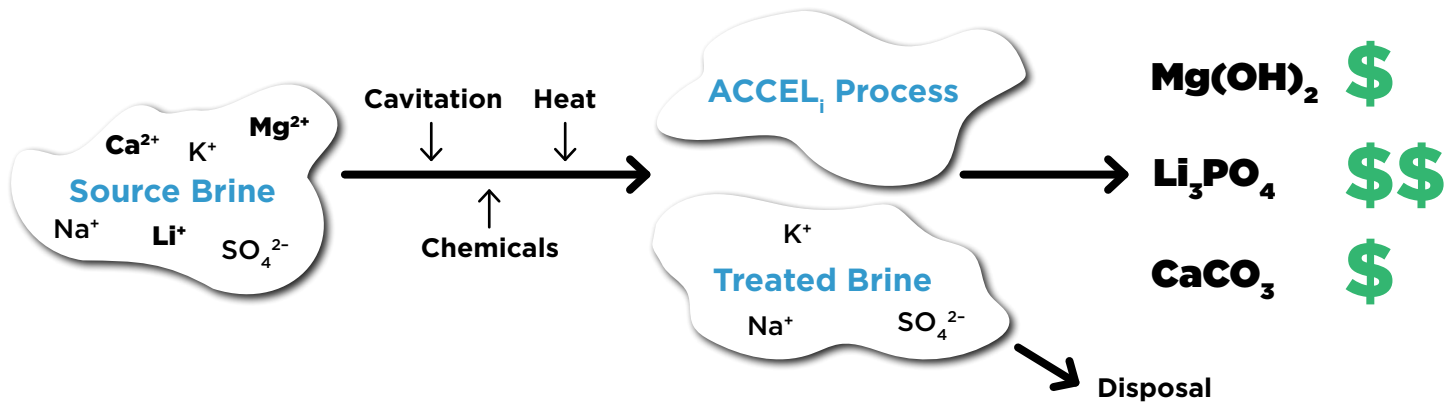
Providing a new
direction for
DIRECT
LITHIUM
EXTRACTION



Lithium
0.941

Avonlea's "Advanced Chemical Cavitation Extraction of Lithium" (ACCEL_i) process is a **NEW** and **INNOVATIVE** (patent pending) approach to direct lithium extraction (DLE). The ACCEL_i process puts energy into brine, creating chemical reactions that target lithium ions, bringing them out of solution, into a powdered product.

Avonlea has adapted its patent pending hydrodynamic cavitation reactor, proven in industrial water treatment, for the extraction of lithium from brine water.



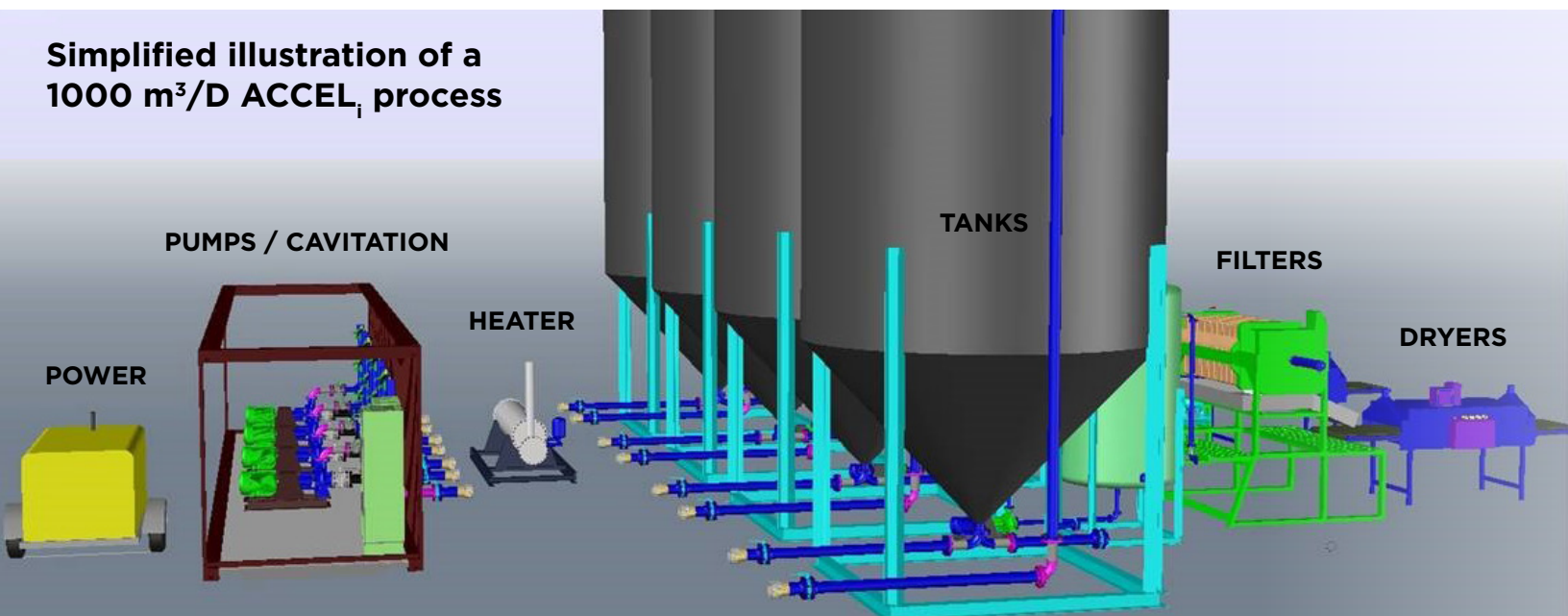
Avonlea's system takes "off the shelf" components and combines them in concert with its' bank of HDCavitation reactors. The process is easily expanded and duplicated adding capacity quickly and cost effectively.

Products generated through the ACCEL_i process are magnesium hydroxide, calcium carbonate and lithium phosphate.

All products are highly marketable with the treated brine cycled back into the reservoir.

The lithium phosphate (Li_3PO_4) produced through Avonlea's process would then be refined into battery grade lithium iron phosphate (LFP) yielding a significant 3.7x more LFP in the process.

Simplified illustration of a 1000 m³/D ACCEL_i process





TESLA TO USE CHEAPER LFP BATTERIES IN SMALL EV, TRUCK

Elon Musk says Tesla will use less-expensive lithium iron phosphate batteries in a coming low-cost small EV, a version of the Semi truck, and eventually the Model 3 and Model Y.

Automotive News Europe, April 2023



Avonlea Lithium Corporation is a privately held Alberta based company, currently in the process of securing equity financing. Plans are underway for the commencement of a commercial pilot project, early in 2024.

- **Low capital costs, modular and easily scalable.**
- **Highly competitive operating costs with no freshwater requirements and zero waste.**
- **An extremely low initial capital cost and very competitive operating cost enable both high IRR and rapid payback period — eg. At 1000m³/day of 500ppm Li the projected IRR is 296% and payback is less than one year.**

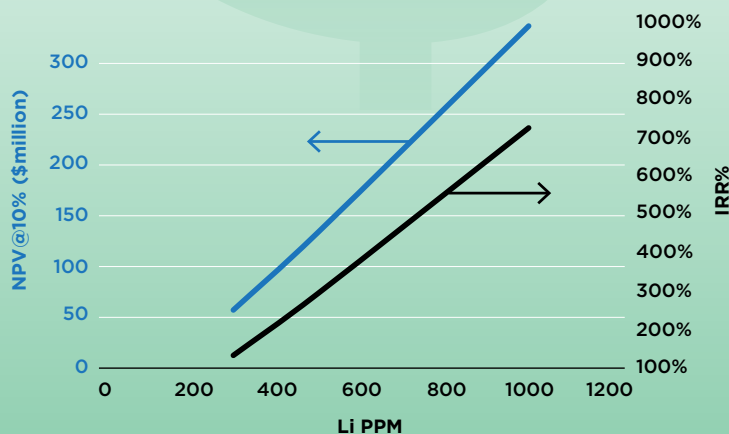
In the ACCEL_i Process, controlled hydrodynamic cavitation is utilized to produce an extreme energy release at the microscopic level. The process generates thousands of micro-bubbles/second, providing the molecular bonding energy required to create the desired precipitants from the brine water. The precipitants are removed and dried through filtration, efficiently and effectively, with high levels of purity.

For more information on the process of cavitation, please see our website:
www.avonlealithium.tech

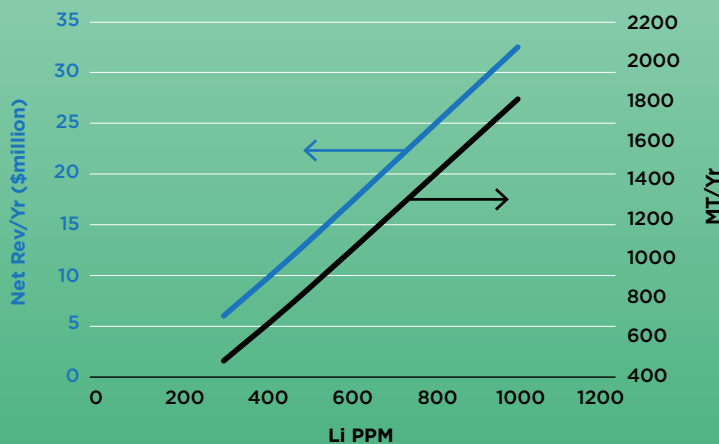
ACCEL_i Lithium Process Costs

Variable Li Brine Concentration, Houston Pricing

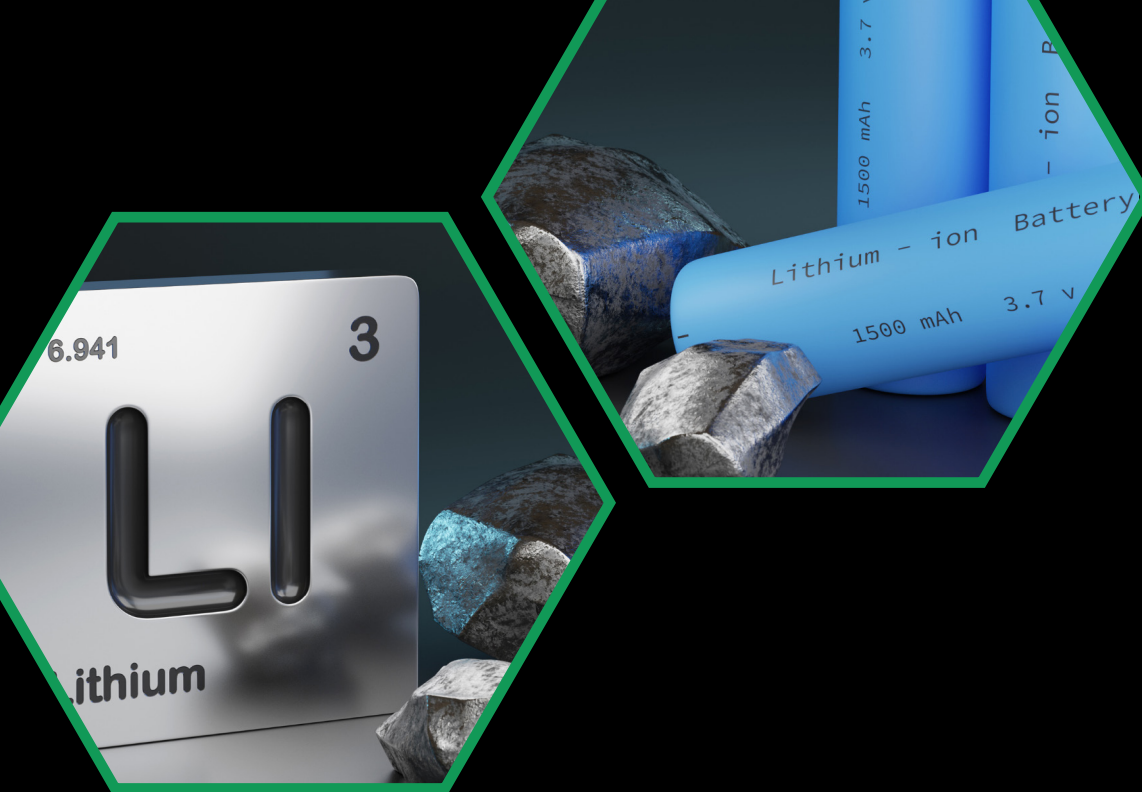
NPV & IRR (1000m³ brine/day)



Net Rev/Yr & MT/Yr (1000m³ brine/day)




Compact components (1000 m³/D processing capacity) cost ~\$3.5 million USD. Easily expanded as lithium brine property is developed. With a lithium content of 500 ppm, each module generates 2.2 tonne of 95%+ pure Li₃PO₄ per day.



BOOK YOUR PRESENTATION TODAY


**FOR MORE INFORMATION
PLEASE CONTACT:**

DOUGLAS BRETT, PRESIDENT

 403-466-8780

 DOUG@AVONLEA.TECH

RON LINCZ, COO

 403-828-6360

 RON@AVONLEA.TECH

AVONLEA
LITHIUM CORP.

WWW.AVONLEALITHIUM.TECH