

# Ekosolve Direct lithium Extraction Achieves more than 90% Recovery from SPEY Incahuasi Salar lithium brines

*Ekosolve Direct Lithium Extraction solvent-exchange system ([www.ekosolve.com.au](http://www.ekosolve.com.au)) has recovered more than 90% of the available lithium for SPEY Resources.*

MELBOURNE, VICTORIA, AUSTRALIA, April 7, 2022 /EINPresswire.com/ -- EKOSOLVE™ PROCESSES INCAHUASI [LITHIUM](#) BRINES AND ACHIEVES GREATER THAN 90% RECOVERY

Ekosolve Lithium Limited ([www.ekosolve.com.au](http://www.ekosolve.com.au)) announces that its Direct Lithium Extraction Technology pilot plant work completed for its newest client, [Spey](#) Resources Corporation (CSE:SPEY), has processed lithium brines from the Incahuasi Salar and achieved a remarkable recovery of greater than 90%. 200L of brine was processed, and high-grade lithium chloride was produced. The lithium chloride can be converted to battery-grade lithium carbonate or used as feeder stock for other lithium compounds.



Lithium carbonate produced using Ekosolve Direct Lithium Extraction process from high magnesium brine

Solvent Exchange technology has been tried and tested since 1959 in the minerals industry, and the Ekosolve system has developed the technology to a new level of sophistication, targeting the direct extraction of lithium. Lithium producers from brines now have immediate access to a construction-ready, tailored system to produce lithium carbonate.

Ekosolve™ technology cuts capital and operating costs and accelerates project start-up with:

- Substantial reduction in CAPEX compared to other systems
- Low OPEX, very competitive with other processes
- No need for evaporation ponds or front-end scrubbing processes
- Increases total lithium recovery to more than 90%.

- Provides production flexibility being capable of modular units in multiples of 5000 tonne plants (10,000, 15,000 or 20,000+ tonne plants).
- Handles very high magnesium levels efficiently (Key innovation)
- Green energy footprint with solar and batteries to drive electrical motors
- Operates efficiently at high altitude

The Ekosolve™ system can be expanded in modules and be ramped up quickly through pilot or mini plants and then a commercial project, with no limit on size.

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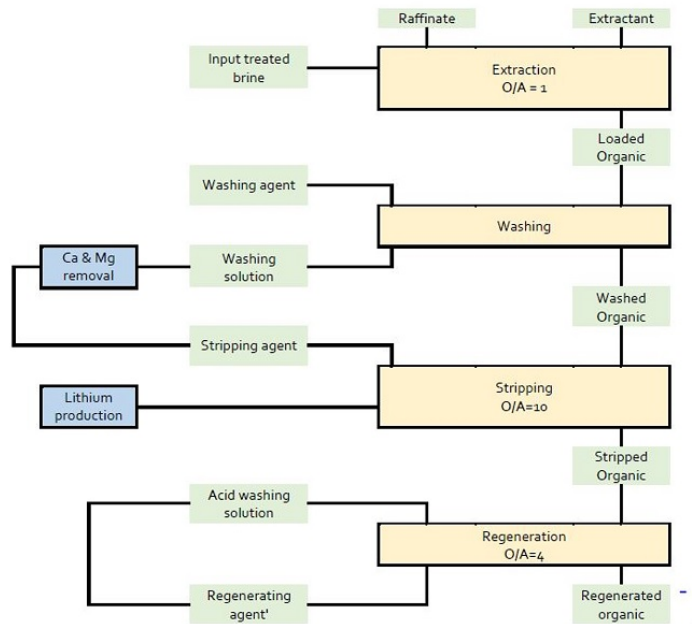
[www.ekosolve.com.au](http://www.ekosolve.com.au)

“

Ekosolve is the latest breakthrough technology hallmarked by its ability to process high magnesium in lithium brines, produce battery-grade lithium carbonate and its competitive OPEX and CAPEX”.

*Dr Carlos Sorentino*

## Ekosolve™ Process Schematics



Schematic of Ekosolve Process

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