

## Stop Press

Five licence agreements signed as of February 2024  
40Tonne plant being designed for Recharge Resources

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AU\$37.5MILLION CAPITAL RAISING  
AU\$3.00/US\$2.00\* PER SHARE  
CAPITALISATION AU\$300M

**Li**  
Lithium

# EkoSolve™

A DIRECT LITHIUM EXTRACTION  
METHOD USING SOLVENT  
EXTRACTION  
FOR LITHIUM BRINES

DLE SOLVENT EXCHANGE FOR THE FUTURE

Phil Thomas  
Dr Carlos Sorentino

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

THIS PRESENTATION MUST BE READ AS PART OF THE INFORMATION MEMORANDUM ISSUED IN YOUR JURISDICTION

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# THE EKOSOLVE PRE-IPO ISSUE SUMMARY

## HIGHLIGHTS

- AUD300M/USD200 MARKET CAP
- AUD\$37.5M/~USD\$25 CAPITAL RAISING
- AUD\$37.5M/~USD\$25 FOUNDER SHARES
- PROJECTED LICENCE FEE INCOME  
AUD\$22M/USD15M/ PER 20,000 TONNE PLANT  
AT \$15K PER TONNE  $\text{Li}_2\text{CO}_3$  PRICE
- \$37.5M SHARES RAISED NEW ISSUE
- UP TO 36m FOUNDER SHARES IN SALE
- POST RAISE 100M SHARES ON ISSUE
- INCOME – 10% CONSTRUCTION, 4% ROYALTY,  
1% ROYALTY PAID TO UNI OF MELBOURNE

## PLANT CONSTRUCTION SCHEDULE

- RECHARGE RESOURCES POCITOS 20K TONNE
- PATAGONIA LITHIUM 10K TONNE
- AMERICAN SALARS ARGENTINA 10K TONNE
- GEOTHERMAL PROJECT TEXAS

## LICENCE AGREEMENTS AND NDA'S SIGNED

- SPEY RESOURCES LTD (LIC)
- ASX LISTED CO (LIC)
- EUROPE BRINE OIL PRODUCER
- TEXAS OIL WELL BRINE
- TEXAS GEOTHERM OILWELL
- CHILE BASED LITHIUM CARBONATE PRODUCER

## ORGANISATIONAL STRUCTURE

### Board of Directors

Dr Carlos Sorentino

Executive Chairman

Chief Technology Officer

Phillip Thomas

Chief Executive Officer

Pre-IPO Support Associate/Research

Shaun Thomas

Non-Executive Director

Jarek Kopias – Company Secretary/share register

Chief Advisor – Licensor UoM

Professor Dr Kathryn Mumford

Dept Chemical Engineering

University of Melbourne

### Executive Team – To be Hired – Post Raise/Sale

#### General Manager – Ekosolve Technology

Manager – Technology implementation

Manager – 40Tonne plant /Uni of Melb liaison

#### General Manager - Business Development/Latam

Manager - North America Business development

#### General Manager – Finance, Accounting and EPCM

Manager – Sub-contractors

Manager – Purchasing/Import



# THE EKOSOLVE DLE ADVANTAGES

- High recovery of Li from brines as Lithium Chloride
- Produces Battery Grade Lithium Carbonate
- Circumvents problems of brine contaminants such as Mg, Ca and B that can interfere with the recovery and quality of Battery Grade Lithium Carbonate
- Eliminates the need for solar evaporation
- No requirement for large water volumes
- Single continuous process
- Operates with brines as low as 37ppm Li
- Can have pH as low as 1
- Low operating costs – 98.8% of solvent and reagents recovered
- Low capital costs
- Environmentally friendly process

## OTHER DLE SYSTEMS ISSUES

absorbents, electrochemical, nano/membrane and ion exchange technologies

- Multiple phases of treatment – not continuous
- Large amounts of water consumption
- Nano-membranes clogg-up with waste ions
- Absorption plates denigrating quickly
- Ion exchange is not selective to remove one ion type
- Electro-membrane still at concept stage and will probably need additional systems
- Most other DLE need high concentration of Lithium in brines
- Problems managing high Mg brines or oil contaminated brine or highly acidic
- Extraction system can't be regenerated

# Application of Funds

- Capital will be offer in USA, Canada, Europe and Australia
- Market Capitalization is based on 5.6 x 2025 earnings of US\$35.7m
- 12.5m of founders shares will be sold in addition to 12.5m of new shares issued.
- A 6% placement fee will be paid to authorised brokers for client capital subscribed or sale of founder shares
- A small plant that will be sold to a client of 50T LCE capacity will be built in Australia to further demonstrate the efficiency of the process

APPLICATION OF FUNDS STATEMENT		Ekosolve Limited	
AUD/USD 0.65*		Application of Funds USD\$48M Capital	
		2024	2025
New share issue - 12.5m shares		24.38	
Share sale minimum 12.5m shares		24.38	
<b>Capital raised - pre-IPO</b>		<b>48.76</b>	
<b>Founders may sell up to 49% of holding</b>	Share Price*	2.00	
<b>Cash balance</b>		-	<b>11.27</b>
<b>REVENUE</b>			
Construction fees - 20k plant			25.00
Royalties	5.0%		15.00
Other cash inflows - capital raised		48.76	
<b>Sub Total - inflows</b>		<b>48.76</b>	<b>40.00</b>
<b>EXPENSES</b>			
Founders share sale capital proceeds		24.38	
Capital raising fees	6.0%	2.90	
Salaries		2.72	2.99
Executive recruitment		0.34	
Office rental		0.10	0.10
Small plant factory rent		0.15	0.15
Media/website		0.75	0.75
Independent technical report		0.10	
Legal expenses		0.10	
Accounting/audit		0.15	0.15
Pilot plant refurbishment		0.20	0.20
Small Plant equipment		5.00	
Research and development		0.50	
Patent application		0.10	
<b>Sub Total - outflows</b>		<b>37.49</b>	<b>4.34</b>
<b>Total Surplus</b>		<b>11.27</b>	<b>35.66</b>
<b>Closing cash balance</b>		<b>11.27</b>	<b>46.93</b>

> How did Ekosolve Perform?  
Highest recovery

95.8% Li

Li

Lithium

## Ekosolve Pilot Plant Results To-date

Salar/Location	Lithium content test concentration ppm	% extraction efficiency
Incahuasi	140.2	93.1
Pocitos A	86.0	94.9
Pocitos B	95.3	95.8
Rincon	195.0	92.0
Pozuelos	401.0	93.1
Formentera	266.8	92.1
Calgary Petrobrine	57.0	91.0
Stress test	37.0	91.8

# > THE LITHIUM MARKET IN 2024/5

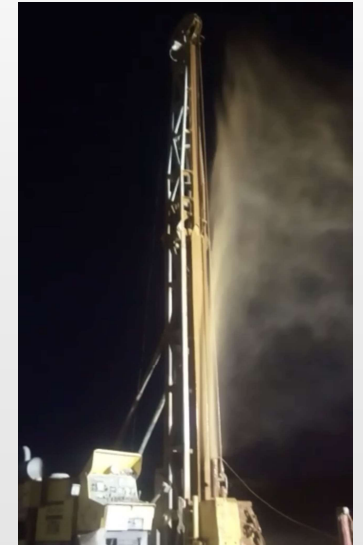
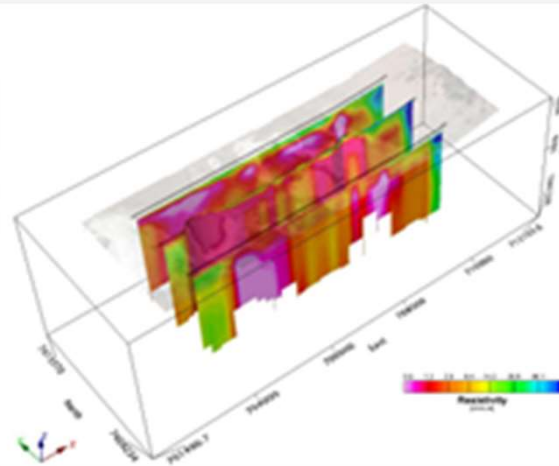
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# Li

Lithium

## Ekosolve plans to build a 20,000 tonne $\text{Li}_2\text{CO}_3$ plant in Argentina during 2024-2025 in Pocitos Salta Province for Recharge Resources

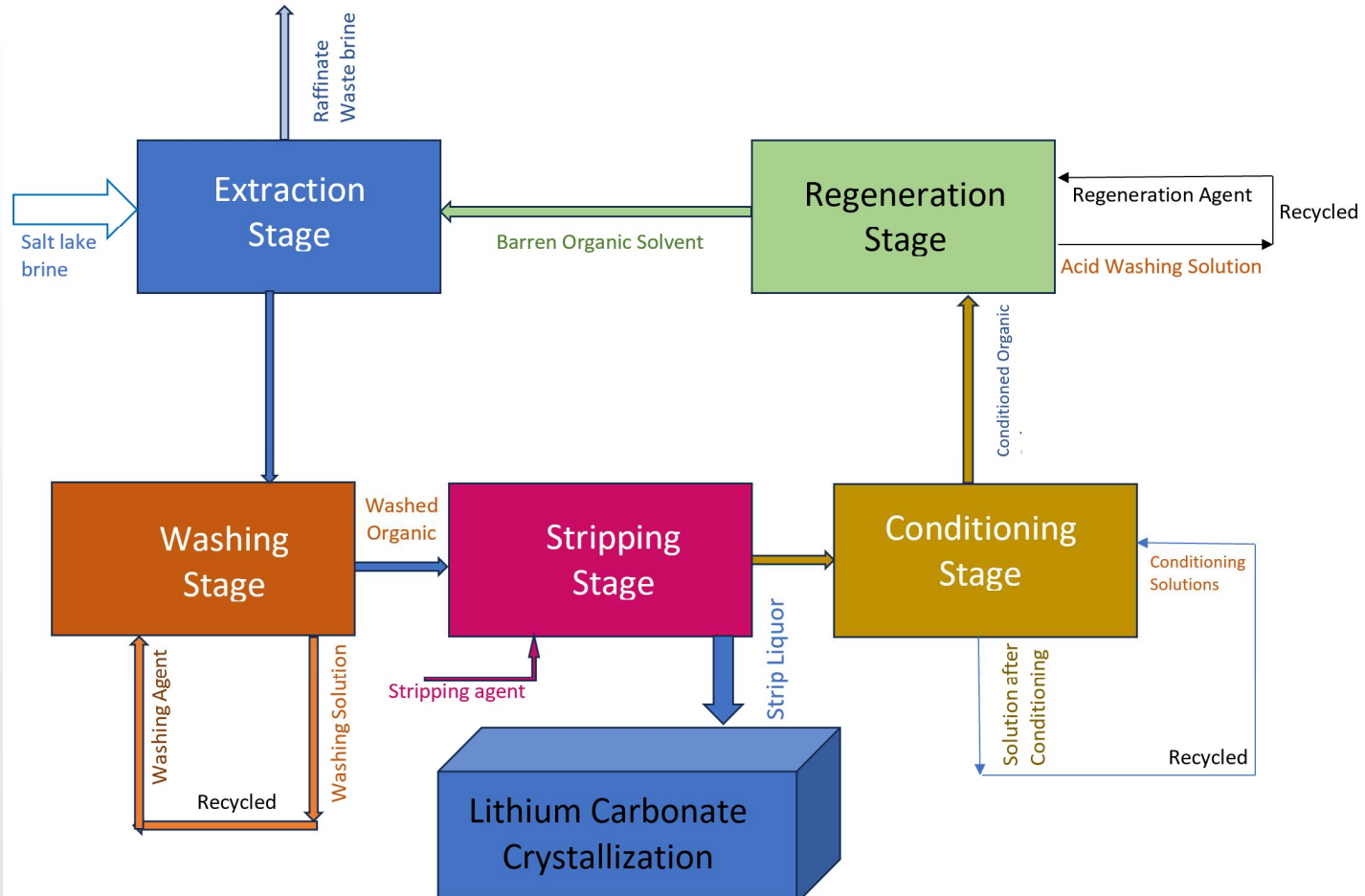
- Pocitos 1 and 2 owned by Recharge Resources (CSE:RR ) has inferred a resource of 532,000 tonnes of lithium carbonate in Salta, Argentina
- Significant brine flow has been encountered
- MT survey shows low resistivity to 1000m depth
- Board has committed to build a plant by 2025







# FLOW CHART EKOSOLVE PROCESS



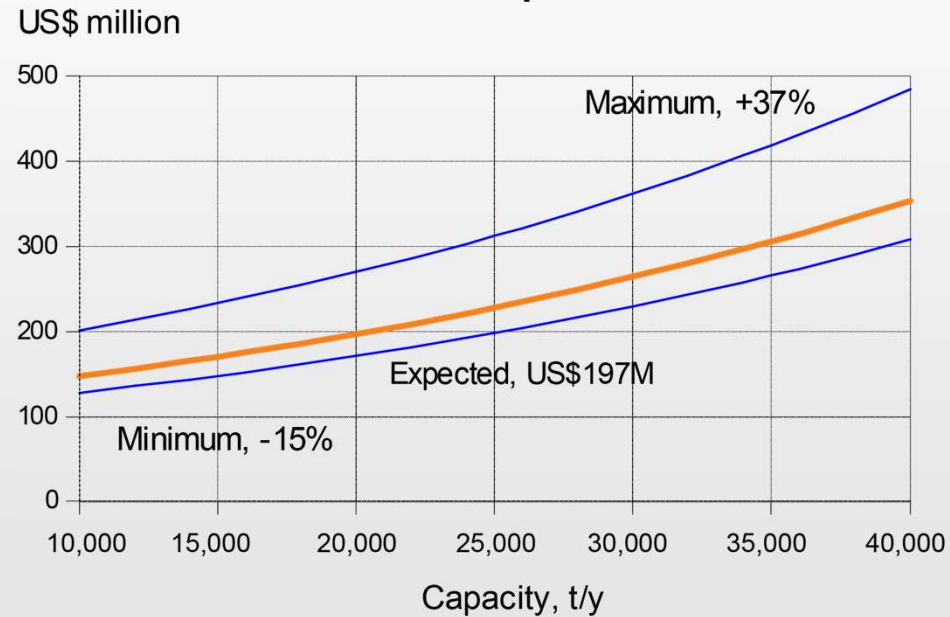
# > EKOSOLVE CAPEX

The capital investment required for a plant capable of producing 20,000  $\text{Li}_2\text{CO}_3$  per year is expected to be US\$197M, ranging from a low of US\$171M to a maximum of US\$270 million.

This uncertainty arises from the conditions of each project, such as location, ease of access, power availability, reagents' import duties, disposal of waste brines etc.

The figure below shows estimates for several plant capacities.

**EkoSolve™ Capital Costs**



# > EKOSOLVE CAPITAL INTENSITY

Capital Costs can be amortised over the annual production to estimate the unit costs per tonne of  $\text{Li}_2\text{CO}_3$  produced, a Capital Intensity that allows for a comparison of relative capital requirements between **EkoSolve™** and other brine projects.

## **EkoSolve™** Capital Intensity, US\$ per tonne of $\text{Li}_2\text{CO}_3$ produced annually

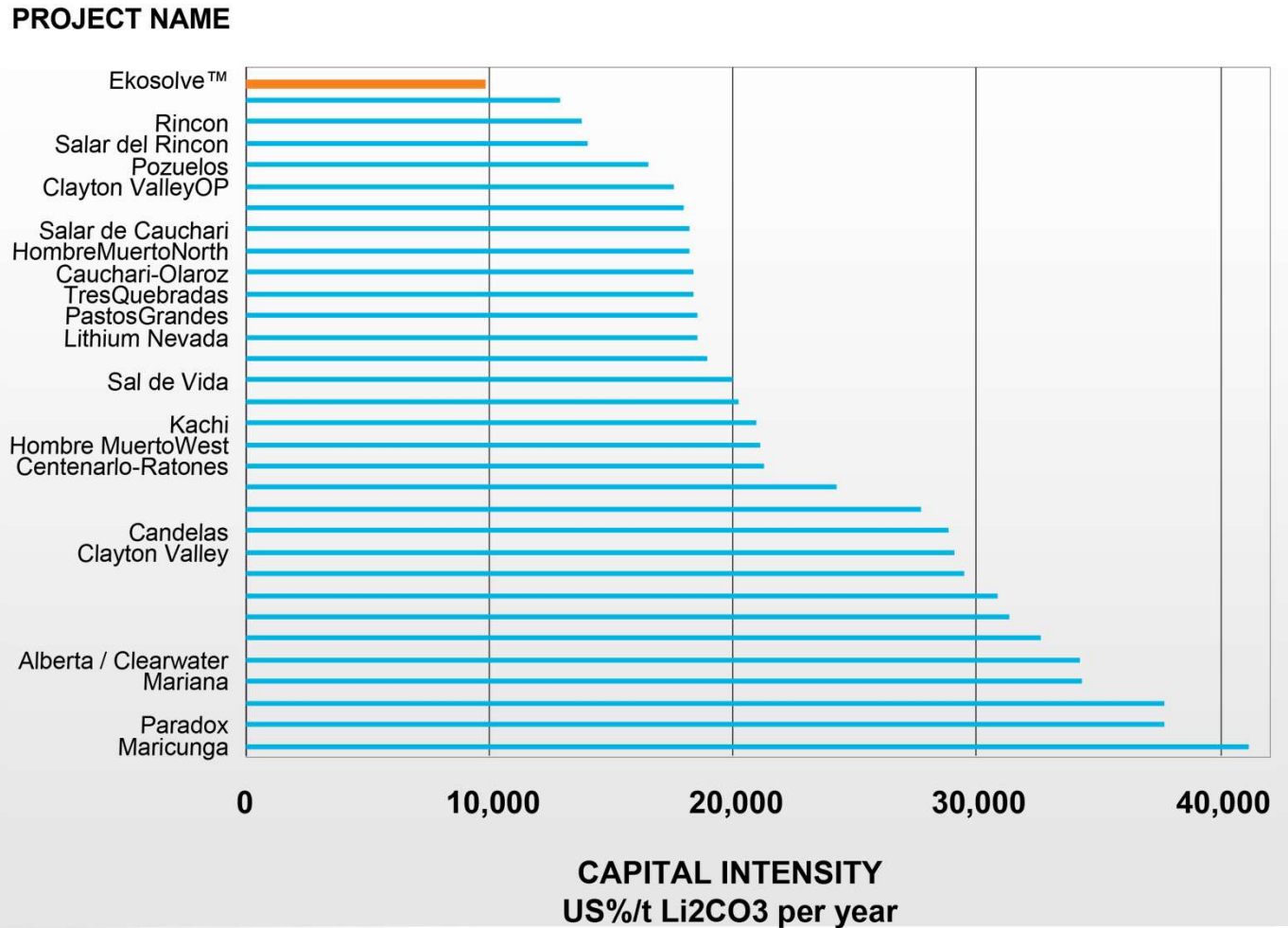
	Low	Expected	High
Pulsating extraction column	2,985	3,431	4,701
Initial reagent load	2,902	3,336	4,570
Plant civil installations	746	858	1,175
Generators & power works	580	667	914
Regeneration plant	332	381	522
Caustic HCl electrolytic plant	249	286	392
ECPM	779	896	1,227
<b>Recovered</b>	<b>8,573</b>	<b>9,855</b>	<b>13,501</b>

# ➤ EKOSOLVE CAPITAL INTENSITY

With a Capital Intensity of US\$ 9,855 per metric tone of  $\text{Li}_2\text{CO}_3$  produced annually, EKOSOLVE compares well with the capital intensity of other proposed brine projects.

Even at its maximum estimated Capital Intensity of US\$13,500, EKOSOLVE is still positioned as one of the lowest investments required to develop a Li-rich brine project.

## Capital Intensity of Proposed Li-rich brines projects



# > EKOSOLVE UNIT OPERATING COST

The **EkoSolve** operating costs can be estimated at US\$2,710 per ton of battery-grade of Lithium Carbonate produced.

The opex has been averaged over ten

years; that is to say, it includes commissioning expenses.

This opex does not include the amortisation of the plant capital costs or its maintenance.

## Operating costs amortized over 10 years of production, US\$/t

	Low	Estimated	High
Reagents	1750	2060	2820
Fuels and Energy	460	540	740
Labour	90	110	150
<b>Operating Costs total</b>	<b>2300</b>	<b>2710</b>	<b>3710</b>

# > EKOSOLVE TECHNOLGY REVIEW

Various DLE technologies and the risk matrix.

	Capital	Operation Complexity	Lithium Recovery	Development time	Operating Expenditure	Environment	Reagent Supply	Reagent Recovery	Safety	University Collaboration
EKOSOLVE™	Low Risk	Low Risk	Low Risk	Medium Risk	Low Risk	Low Risk	Medium Risk	Low Risk	Low Risk	Low Risk
A - Solvent/Ion Exchange	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk
B - Adsorption	Medium Risk	High Risk	Low Risk	Medium Risk	High Risk	High Risk	Medium Risk	High Risk	Medium Risk	Medium Risk
C - Adsorption Combination	High Risk	High Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	High Risk	Medium Risk	Medium Risk
D - Ion Exchange/Rev Osmosis	High Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	Medium Risk	High Risk	Low Risk	High Risk	Medium Risk
E - Ion Exchange	Medium Risk	Low Risk	Medium Risk	Medium Risk	Low Risk	Medium Risk	Medium Risk	Low Risk	Medium Risk	High Risk
F - Conventional	High Risk	Low Risk	High Risk	High Risk	Low Risk	High Risk	Low Risk	High Risk	Medium Risk	Medium Risk

■ Low Risk
 ■ Medium Risk
 ■ High Risk

# Ekosolve™

For an application form, and a sophisticated investor declaration  
Please go to the website [www.Ekosolve.com.au](http://www.Ekosolve.com.au) and the share  
sale tab and download the relevant forms for your location.

Otherwise please contact

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*Lithium*

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