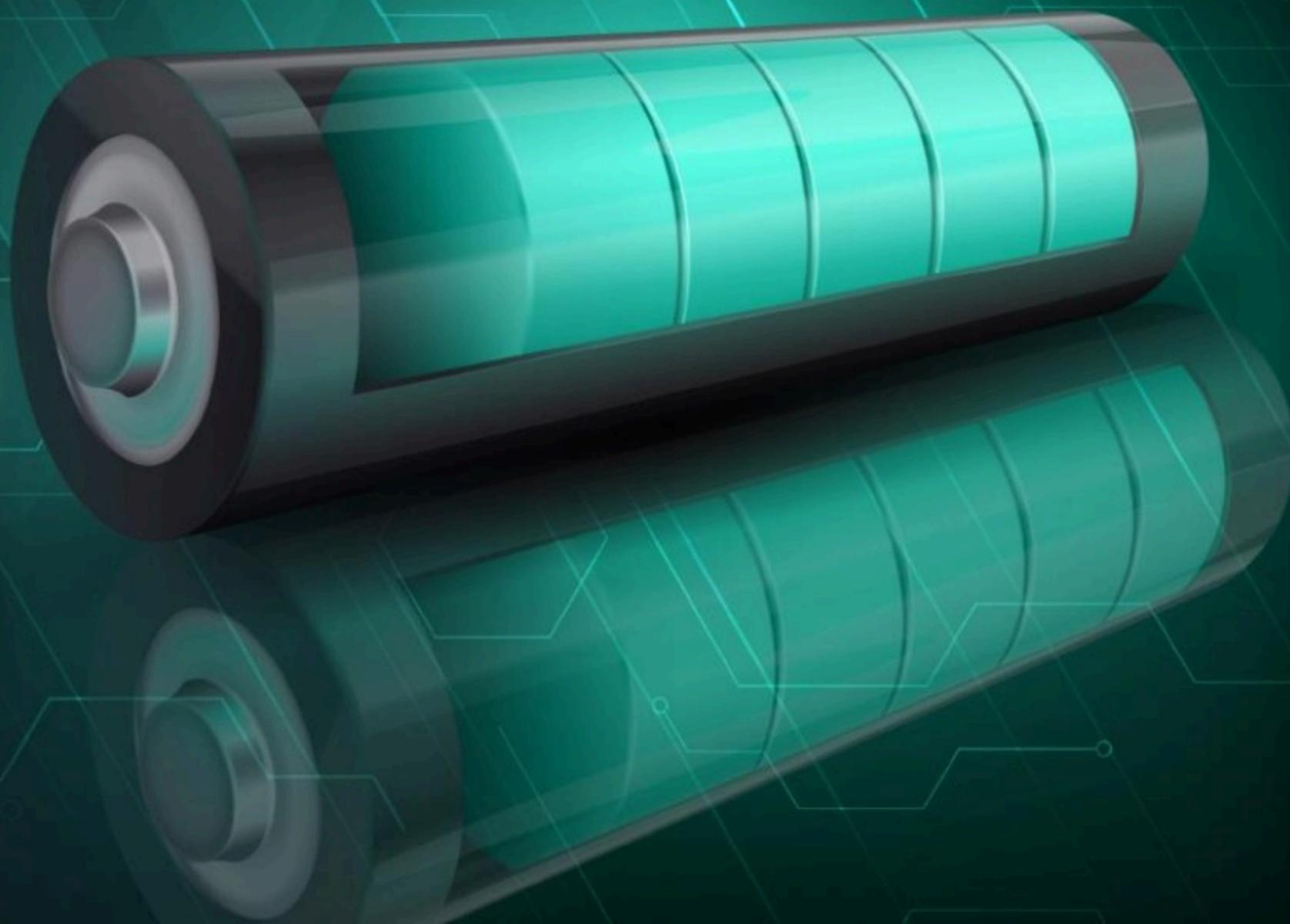




greenLi-ion  
energy reborn

THE CIRCULAR ECONOMY SOLUTION FOR BATTERIES



# 95%

## Of Spent Lithium-ion Batteries Are NOT Recycled.

Every year, most spent battery raw materials are thrown into landfill due to batteries coming to end of their life due to supply chain and cost.

# GLOBAL BATTERY RECYCLING

We Are On A Mission To Become The Worlds First Circular Economy Solution For Lithium-ion Batteries.

**\$2B**



**2005**

**\$20B**



**2030**

**\$100B**

Value of scrapped LIB's



**2040**

# GREEN LI-ION Is Vastly More **Profitable**

## Our Clients

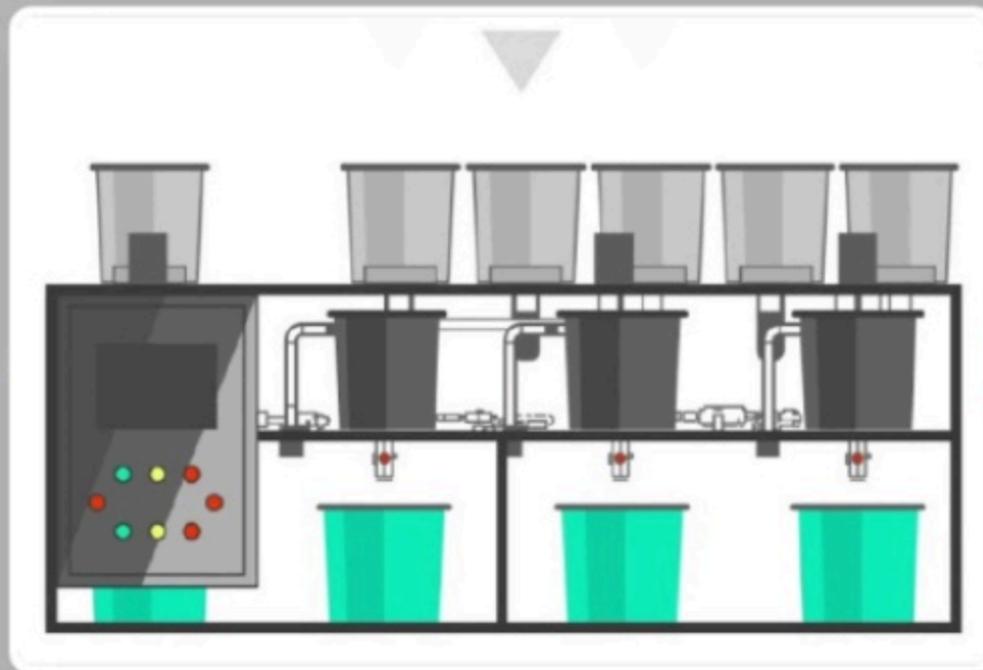
**Current Recyclers produce black mass**



Low Value Recycled  
Material with  
Impurities

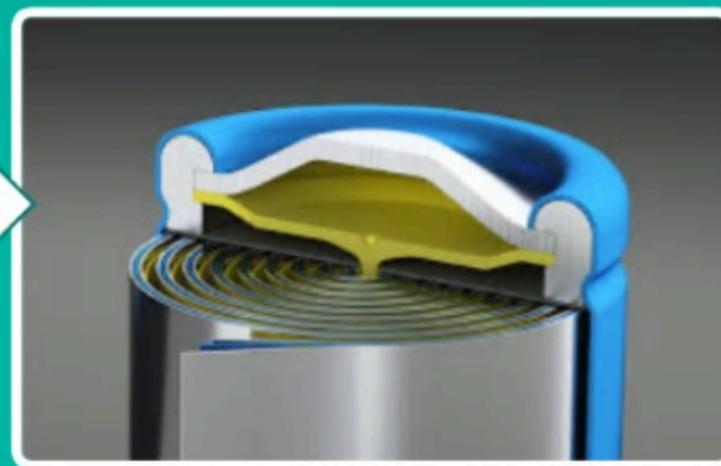
## Green Li-ion

2 MT p/day



## Manufacturers

**GREEN LI-ION Produces Battery Grade Cathode Material**



Valued at

**> 4x \$ Profit**

# Improves profit & efficiency up to **10x**



## GREENER

- ✓ Zero toxic discharge
- ✓ Zero landfill
- ✓ Lower reliance on mining
- ✓ Lower carbon footprint than competitors



## FASTER

- ✓ Removing up to two supply chain partners.
- ✓ Process all batteries!
- ✓ No sorting = faster than current pyro and hydro processes



## PURER

- ✓ Our end product is battery grade cathodes materials
- ✓ Pure and therefore at A higher value



## 4X PROFITABLE

- ✓ Process produces pure precious metal compounds increasing profit from

# INTEGRATES SEAMLESSLY

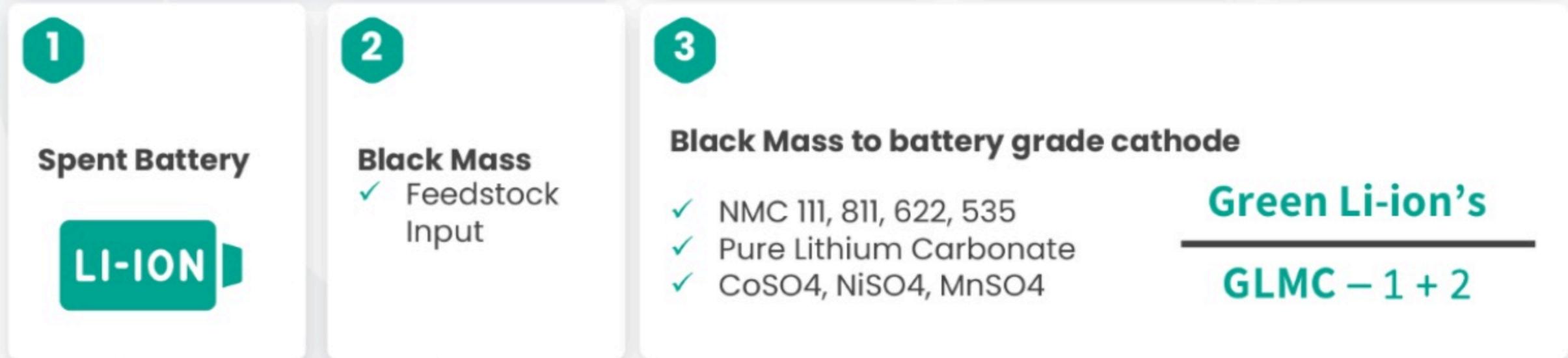
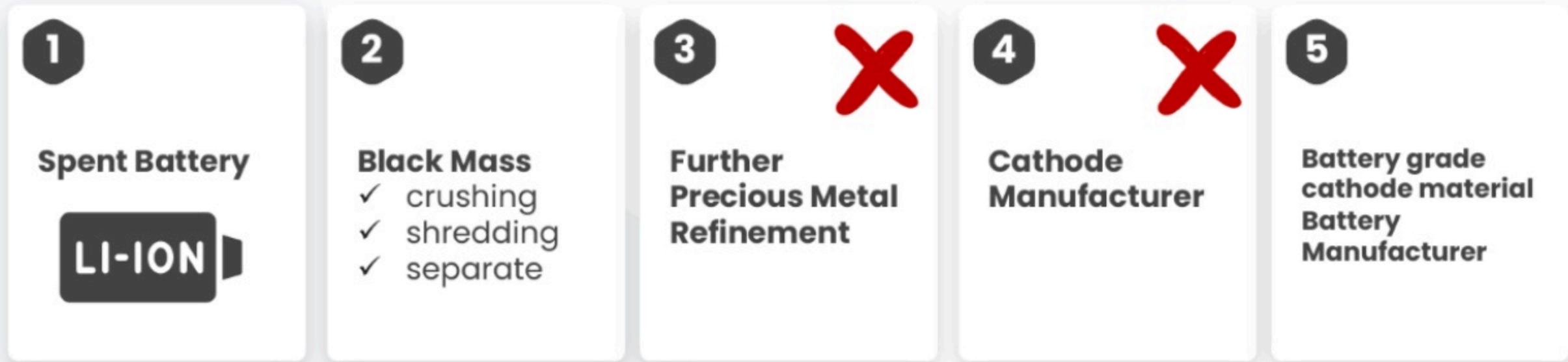
INTO EXISTING INDUSTRIAL TECHNOLOGY

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Our technology adds to current recycling process to improve & enhance efficiency and profits of traditional recycling processes. **Our product can bolt on to existing battery recycling machinery.**

# Disrupting Supply Chain to Improve PROFIT

## Current Recycling



# Closing the loop on **Battery Rejuvenation**



## Step 1.

### **Acquisition of spent batteries**

Green Li-ion's Clients collect spent batteries. Also after they complete Stage 4 below.

## Step 4.

### **Material used in new batteries**

Battery manufacturers will build their new battery cells using Green Li-ion rejuvenated cathode material reducing reliance on mining and their carbon footprint considerably

## Step 2.

### **Crushing of Batteries**

GL Clients Dismantle, Discharge, Shred, Crush & Separate metals / non metals = BLACK MASS

Black mass would travel up to 50,000 Miles around the global to be refined and turned into cathode material.

## Step 3.

### **GLMC Cathode Creation**

With the GLMC technology a metric ton (28,000 iphone8s) can be rejuvenated every 10 hours into battery grade cathode material.

## Step 4.

### **Battery Grade Cathode Material Sales**

Green Li-ion has built a network of Cathode material brokers and buyers to facilitate efficient re-use of our cathode production. Our brokers will sell the material to Battery Manufacturers.

# Rejuvenating 100% Of Li Battery Chemistries

Type	Cathode	Anode	Application	Recycling products
Lithium Cobalt Oxide (LCO or Li-cobalt)	LiCoO <sub>2</sub> cathode (~60% Co)	Graphite	Mobile phones, tablets, laptops, cameras	LiCoO <sub>2</sub> , graphite
Lithium Manganese Oxide (LMO or Li-manganese)	LiMn <sub>2</sub> O <sub>4</sub>	Graphite	Power tools, medical devices, electric powertrains	LiMn <sub>2</sub> O <sub>4</sub> , graphite
Lithium Nickel Manganese Cobalt Oxide (NMC)	LiNiMnCoO <sub>2</sub>	Graphite	E-bikes, medical devices, EVs, industrial	LiNiMnCoO <sub>2</sub> , graphite
Lithium Iron Phosphate (LFP or Li-phosphate)	LiFePO <sub>4</sub>	Graphite	Portable and stationary needing high load currents and endurance	FePO <sub>4</sub> , Li <sub>2</sub> CO <sub>3</sub> and graphite
Lithium Nickel Cobalt Aluminum Oxide (NCA or Li-aluminum)	LiNiCoAlO <sub>2</sub> (~9% Co)	Graphite	Medical devices, industrial, electric powertrain (Tesla)	Li <sub>2</sub> CO <sub>3</sub> , graphite, NiCo(OH) <sub>2</sub>
Lithium Titanate (LTO or Li-titanate)	NMC	Li <sub>2</sub> TiO <sub>3</sub>	Electric powertrain (Mitsubishi i-MiEV, Honda Fit EV), solar-powered street lighting	LiNiMnCoO <sub>2</sub> , TiO <sub>2</sub>

# We make reoccurring revenue

## Profit Share Licence Model



### REVENUE

- ✓ Reoccurring revenue from the profit sharing agreement
- ✓ Commodity pricing agreed in advance (SMM & LME)

# Founded by **Recycling & Energy Pioneers**



**DR. REZA KATAL**

**CHIEF TECHNOLOGY OFFICER**

a passionate creator with 10 years industry exposure to the hydrometallurgical processing of Lithium- Ion batteries with a PHD from the National University of Singapore. He developed Green Li-ions novel battery rejuvenation process technology.



**LEON FARRANT**

**CHIEF EXECUTIVE OFFICER**

an accomplished CEO & Leader with 15 years experience driving the performance and success of global energy industry companies as well as being a successful entrepreneur with a Bachelors degree in commerce and an MBA.

recognition



- ✓ HSBC's Cities Of the Future hosted by IMG & Unbound Global Winner of Urban Champions award 2021.
- ✓ Microsoft's Global Social Entrepreneurs, 2021.
- ✓ Recognized as SOSV's Climate Tech 100, 2021.
- ✓ Recognized as Asia's 27<sup>th</sup> most transformative company 2021.
- ✓ Dr Reza Katal – 7<sup>th</sup> Most Transformative Leader in Energy Business Insider Australia 2021.
- ✓ Leon Farrant - Executive of the Year- Energy. SBR Management Excellence Awards 2021



# Monopolizing the best **Talent in Asia**

## ADVISORY BOARD



**STEPHEN GOW**

**VP - Commercial**

a senior engineering and commercial professional with an accomplished track record in contract and legal management during 32-year career in energy industry.



**Dr EBRAHIM AKHONDI**

**VP - Technology**

a forward-thinking chemical expert & innovator with 15 years experience bringing novel deep technology to commercial levels.



**TING SHENG GAN**

**Lead Automation Engineer**

a professional with 11 years experiences in industrial automation and machine designing engineering.



**ROB PRIMAUX**

**Director - Projects USA**

with 30 years experience delivering complex global engineering & manufacturing projects in the chemical and energy industry.



**Prof. Seeram Ramakrishna**

Chair of Circular Economy Taskforce and Director of Center of Nanofibers & Nanotechnology at National University of Singapore; Leader in Future of Manufacturing.



**MICHAEL YAP**

**Engineer - Mechanical & Piping**

With a Bachelor's degree of Chemical Engineering have knowledge in Mechanical, piping and specifications.



**Dr TEO YING SHEN**

**CHEMIST**

an environmental engineer who pushes the limit of clean energy technologies using advanced application chemistry.



**THERESA POH**

**Office Manager**

a professional with 11 years experiences in industrial automation and machine designing engineering.



**GRACE LEE**

**Head Of Finance**

Financial; professional with experience listing companies as well as taking high performing start ups through to round D funding. ACCA & ISCA accredited.



**Ad Ketelaars**

Start-up ecosystem builder with 30+ years experience in leading and managing emerging and global fortune 500 companies.



green  
LI-ION  
energystore

# THANK YOU

FOR MORE INFORMATION CONTACT US!

## Contact Us

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