

Creating a Circular Supply Chain of **Critical Battery Materials** to **Power** the next generation **Energy Source** for a sustainable world.

Inside Lithium Ion Cell



Material Breakup inside a lithium ion cells

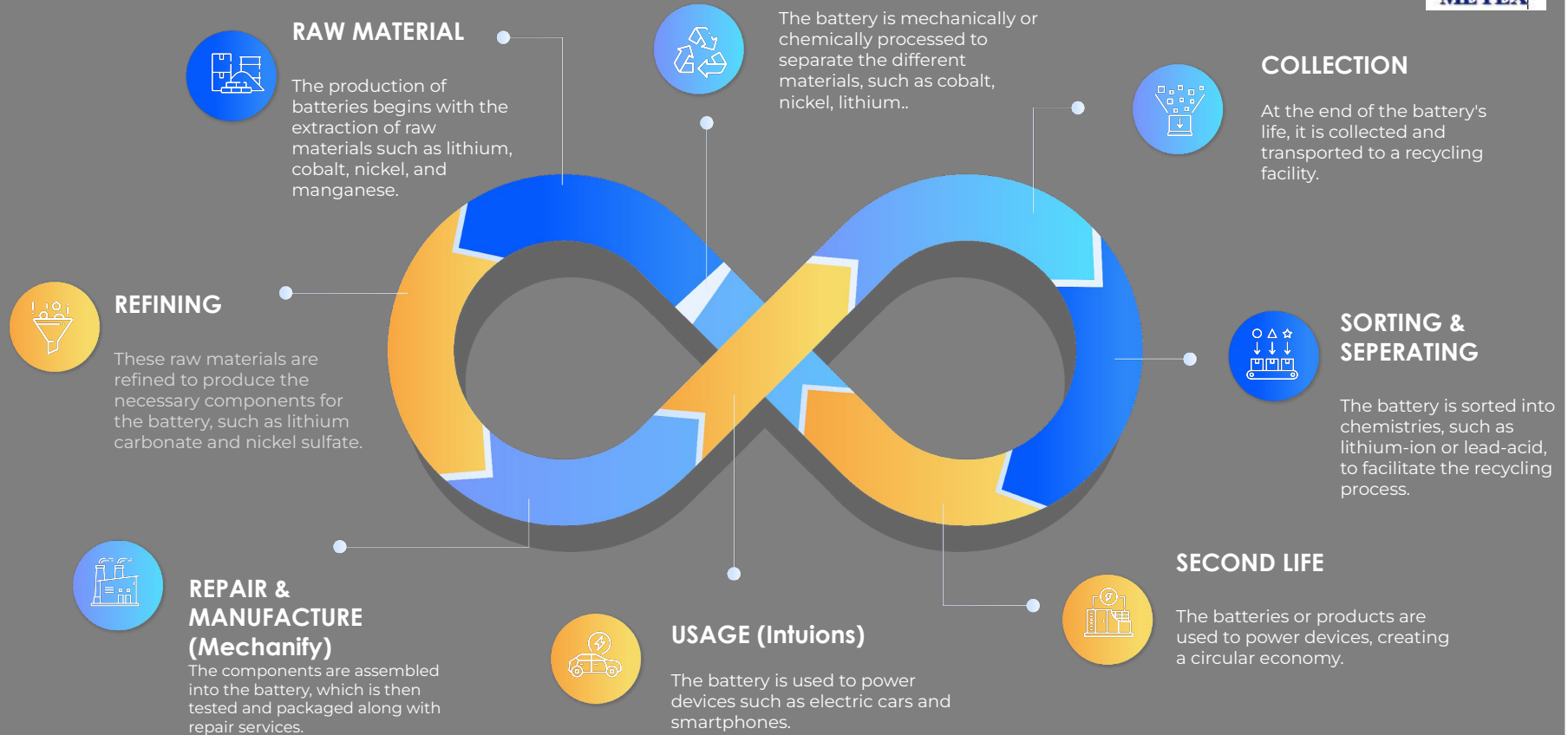
Others- 22%
(Plastics, Electrolyte, etc)

Elgreen ECOSYSTEM PLAY

A Full Stack Solution



RECYCLING





Recycling End of Life Lithium Battery and Battery Life cycle Management

Turning **Old Batteries into Fresh Materials** for Batteries of Tomorrow



Value Addition for EV OEMs
by providing residual value of their batteries to their end customers.



Up to **95% recovery of valuable** materials from used batteries.



Giving 2nd life to used lithium ion cells by Re-manufacturing smart energy storage applications.

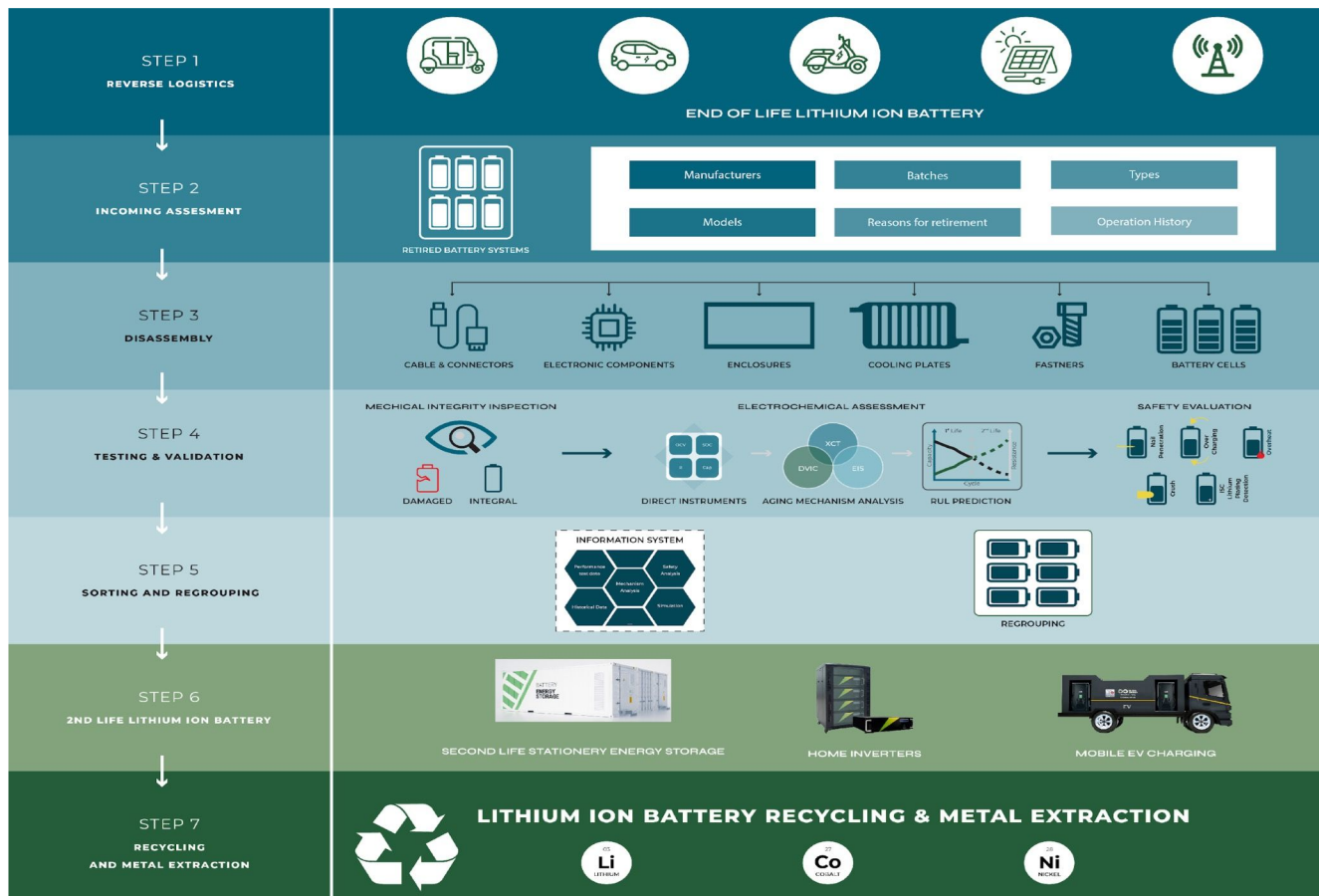
Business Process Map



Collection Via HUB and SPOKE Model in India

Testing via inhouse proprietary technology

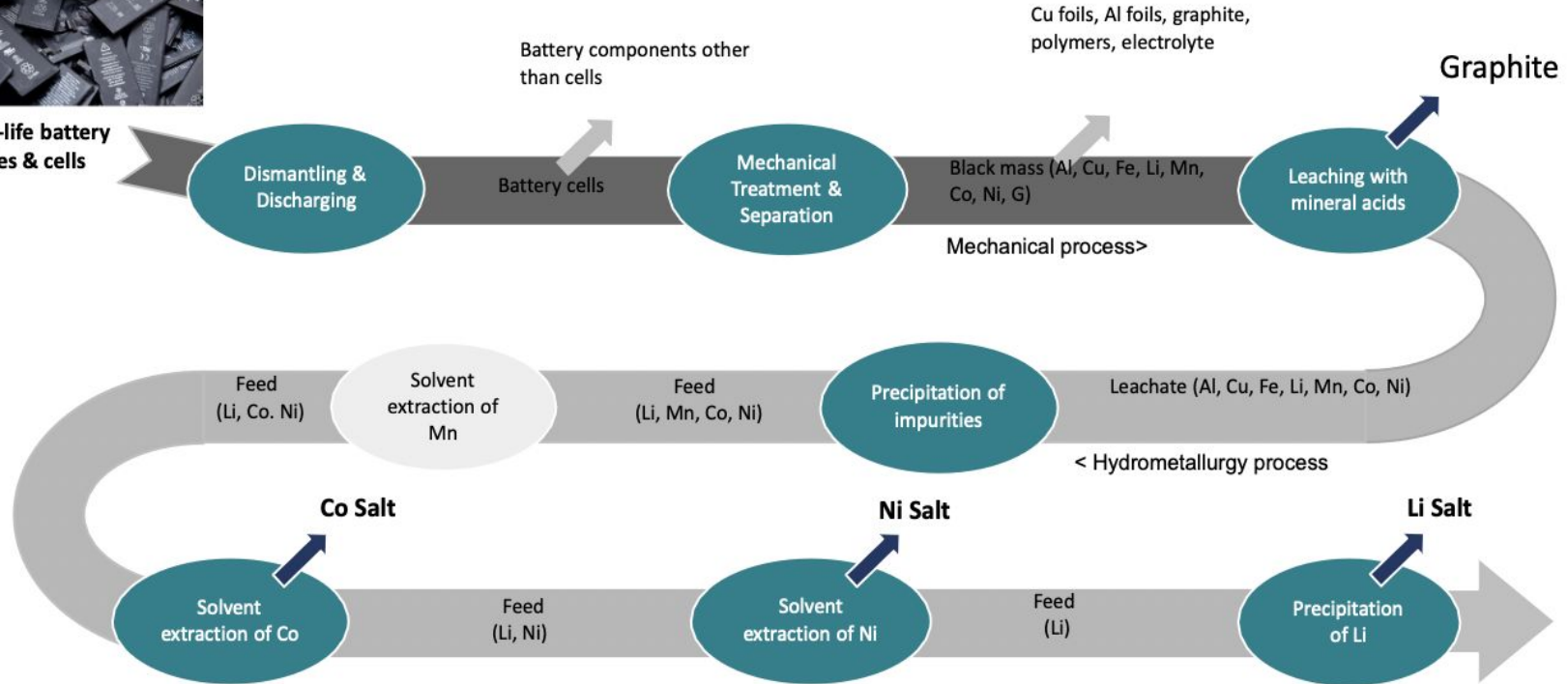
Process tracking on each step via inhouse asset management software.



Indigenous Battery Recycling Technology



End-of-life battery modules & cells



Moat : Why we say we are the best.



Sustainable



- Zero hazardous air emissions, **non pyro/no burning**
- Ensuring **responsible disposal** of the hazardous waste; contributing to circular economy.

Proprietary



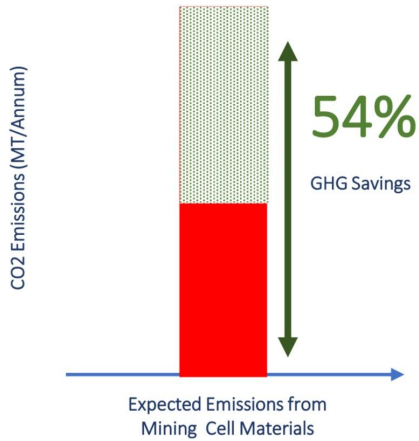
- **Patent filed for unique Recycling Process & Machinery Design.**
- Extraction of Lithium, Cobalt Nickel, Manganese (costly raw-material) **up to 99.3% purity.**
- Wet Black Mass Extraction with **Zero** material waste.

Scalable

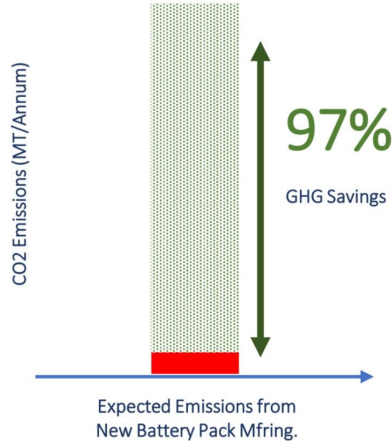


- In-House **Modular Design** of Plant & Equipment enables a quicker and cost efficient scale up (100 - 5000 MT/A).
- **“Hub & Spoke”** model for a robust Supply Chain

**CO2 Emission Savings for
Battery Material Extraction**
(Elgreen Recycling Vs. Mining)
**52 Kgs of CO2e per KWh of
Battery**



CO2 Emission Savings
(Elgreen Battery Reuse Vs. New Battery Pack)
**200 Kgs of CO2e per KWh of
Battery**

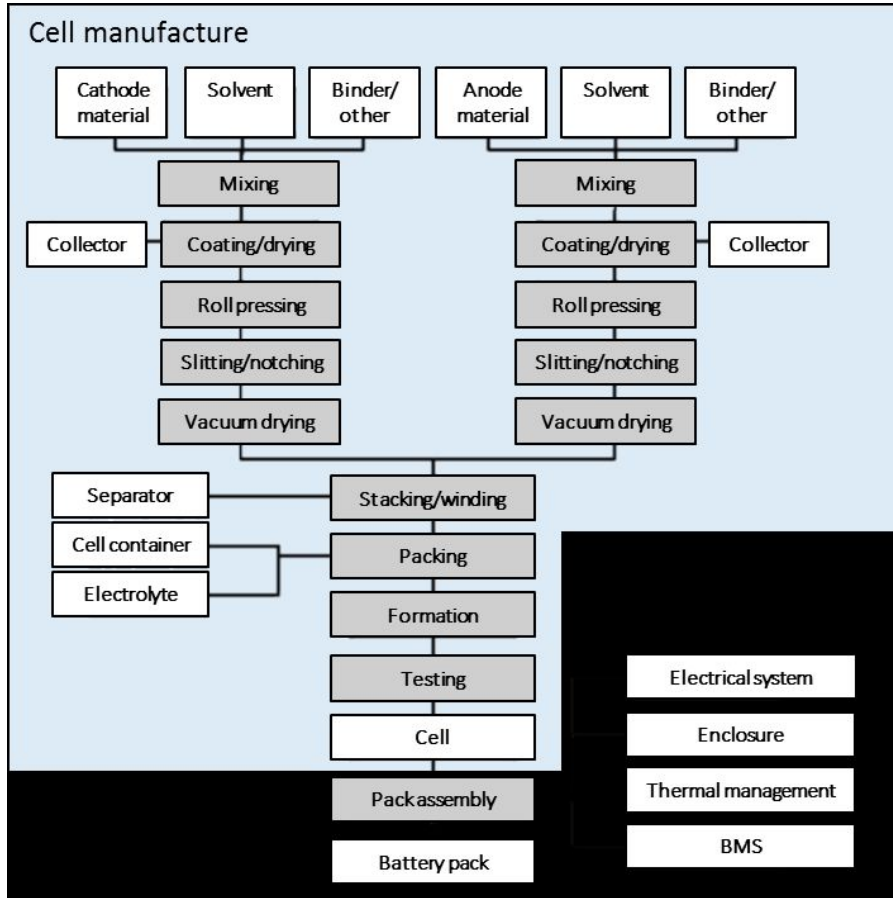


**Compared with traditional mining and refining,
Elgreen process*
(per tonne of battery input) can:**

**Reduce water usage
by up to an overall
97%
~ 2M cubic metres of water**



Electrode Production



Cell Assembly

Formation & Finishing

	Cell development from freshly MINED materials	RECYCLED
COST	61% of the total cost of the cell.	↓ 17% of the total cost of the cell.
CO2 EMISSION	Mining & electrode production accounts for 55% of CO2 emissions	↓ Sustainably Recycled materials can reduce CO2 emissions by 5X.



Ramneek Chopra,

CEO and Director

Serial Entrepreneur with 20+ years of experience building high-growth startups, and Director at Vertel Infotel.



Dr. Krati Chopra

COO

Expert on Lithium ion Technology, Lithium ion Cell Development, Advanced Materials and Characterisation, Lithium Ion Battery Recycling and Material Recovery.



Prashant Pant

General Manager, Plant Operations

13+ years of Experience,
Ex Thyssenkrupp, Ex M&M, Ex Tata Steel,
Ex Jindal, Ex CK Birla Group



Pankaj Chaudhary

General Manager, Finance

Seasoned finance professional with more than 17 years of work experience in various domains like Multimodal Logistics, Manufacturing, & Real Estate.

+15

Amazing Teammates



THANKYOU
IF WE DON'T RECYCLE,
IT WILL BE HUGE WASTE.
WASTE.

Our Sustainable Development Growth goals

