

# Primobius

Battery recycling without limits



## The Future of Li-ion Battery Recycling

Primobius GmbH is the result of a joint venture partnership between Australian Stock Exchange listed company Neometals Ltd and German company, SMS group, to provide a novel Lithium-ion Battery (LiB) recycling solution. Primobius will provide an environmentally friendly recycling solution for end-of-life and scrap LiB cells.

[Read more →](#)

# Primobius's goal is to provide a versatile recycling solution

Unique business model & technology enabling partners to close the battery loop & deliver safe, responsible and cost effective products.

The global reliance on lithium-ion batteries has grown at an unprecedented pace, and is rapidly increasing courtesy of the electric vehicle, energy storage and portable electronics markets. The waste created by end of life and scrap batteries poses a growing environmental challenge.

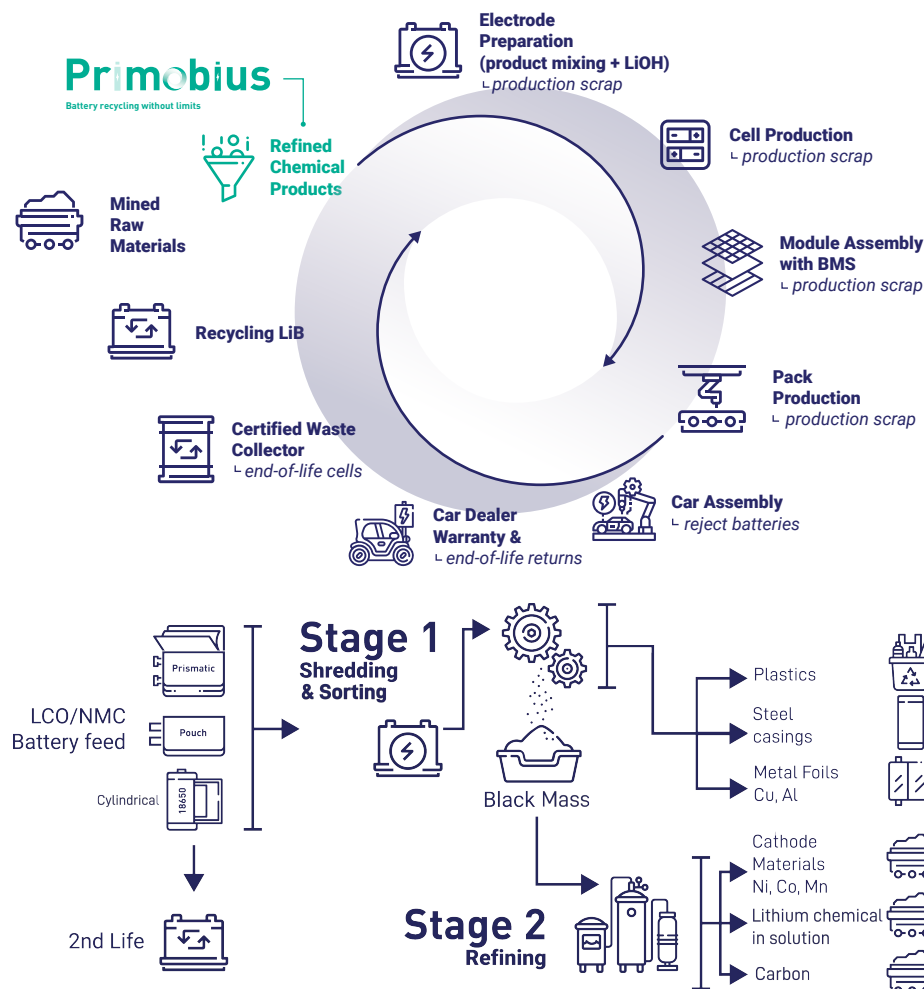
Lithium-ion batteries are hazardous to people and the environment when not disposed of appropriately. Therefore, battery recycling is becoming mandatory in many states and nations. In Europe, the EU Battery Directive dictates that producers must recycle or acquit the same, while in California, recycling is mandatory.

## A Sustainable Way Forward

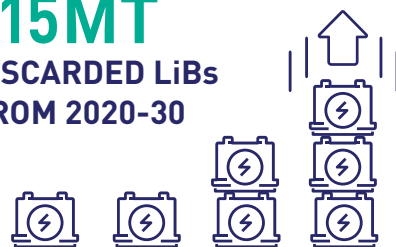
Primobius has a sustainability ethos, designing its advanced recycling solution to integrate into the circular economy, promoting the elimination of waste and reduced reliance on finite primary resources.

Primobius provides more than a recycling solution. Its advanced recycling process with low CO<sub>2</sub> emissions will also deliver high purity chemicals back to the battery manufacturing sector. Using a unique proprietary process, cobalt and other valuable materials are recovered from waste LiBs. In a world where manufacturers are measured by their ethics & environmental footprint, Primobius will deliver.

## Typical Value Chain for Automotive LiBs



**>15MT**  
DISCARDED LiBs  
FROM 2020-30



## Primobius is engaging with:

- + Parties with scrap and spent LiBs
- + Those who need a recycling service
- + Economic, Feed & Offtake Partners
- + Chemical & Cathode Companies

## Global Partner

Primobius will benefit from the extensive experience and European presence of JV partner SMS group, a technology group which has 14,500 employees and 95 sites worldwide.

## Why we're different:

- + We have flexible technology supporting multiple chemistries and formats without complete prior discharging;
- + Environmentally friendly and safe process – reducing life cycle CO<sub>2</sub> emissions and transport of hazardous waste;
- + We produce high purity chemicals and recover the majority of battery constituents; and
- + We provide ethically sourced materials.

## Ask about our European demonstration plants

Primobius's commercial demonstration plant will showcase Europe's largest shredding capacity and its proprietary hydrometallurgical refinery.