RecycLiCo™ PATENTED PROCESS

Making Lithium-ion Last Forever.™

An Innovation of AMERICAN MANGANESE INC.

TSX.V: AMY | OTC-US: AMYZF | FSE: 2AM

July 2020

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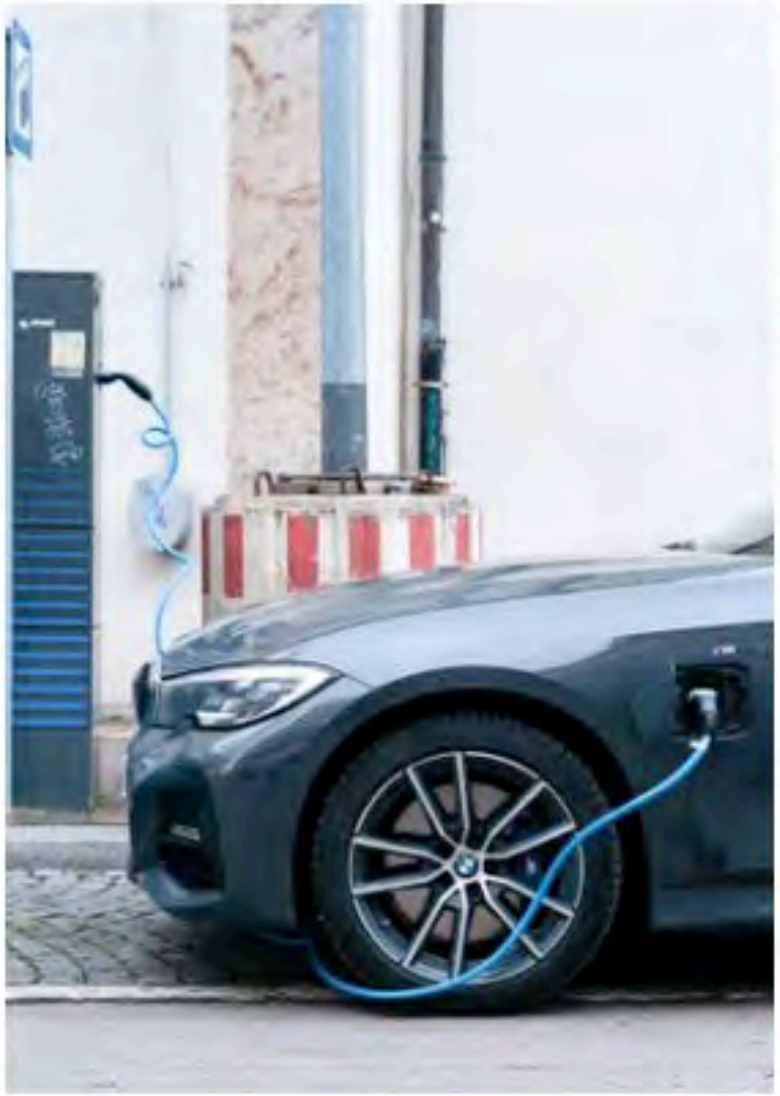
Beginning of a New Era



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Inevitable Future

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Current Options - Smelters

1 Harmful Emissions

Smelting oxides requires a fuel and generates about 2 tonnes CO_2 per tonne of metal

2 Low Recovery

40%-60% of the nickel and cobalt and no lithium recovery

3 Additional Steps

Requires major processing to make cathode ready precursors

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Current Options - Shred and Collect

1 **Shred**

Low value sludge is produced and sold to open market

2 **Collect**

Collected by off-shore refiners

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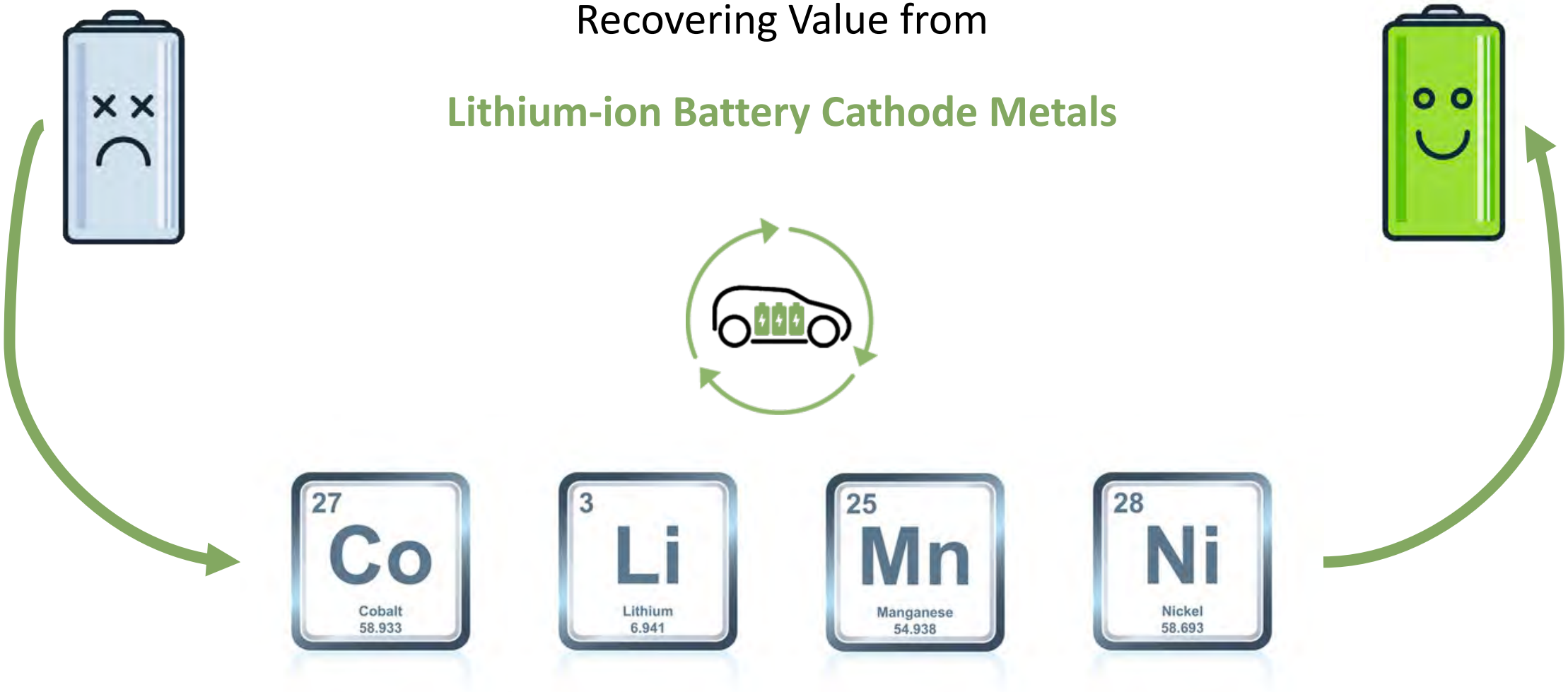
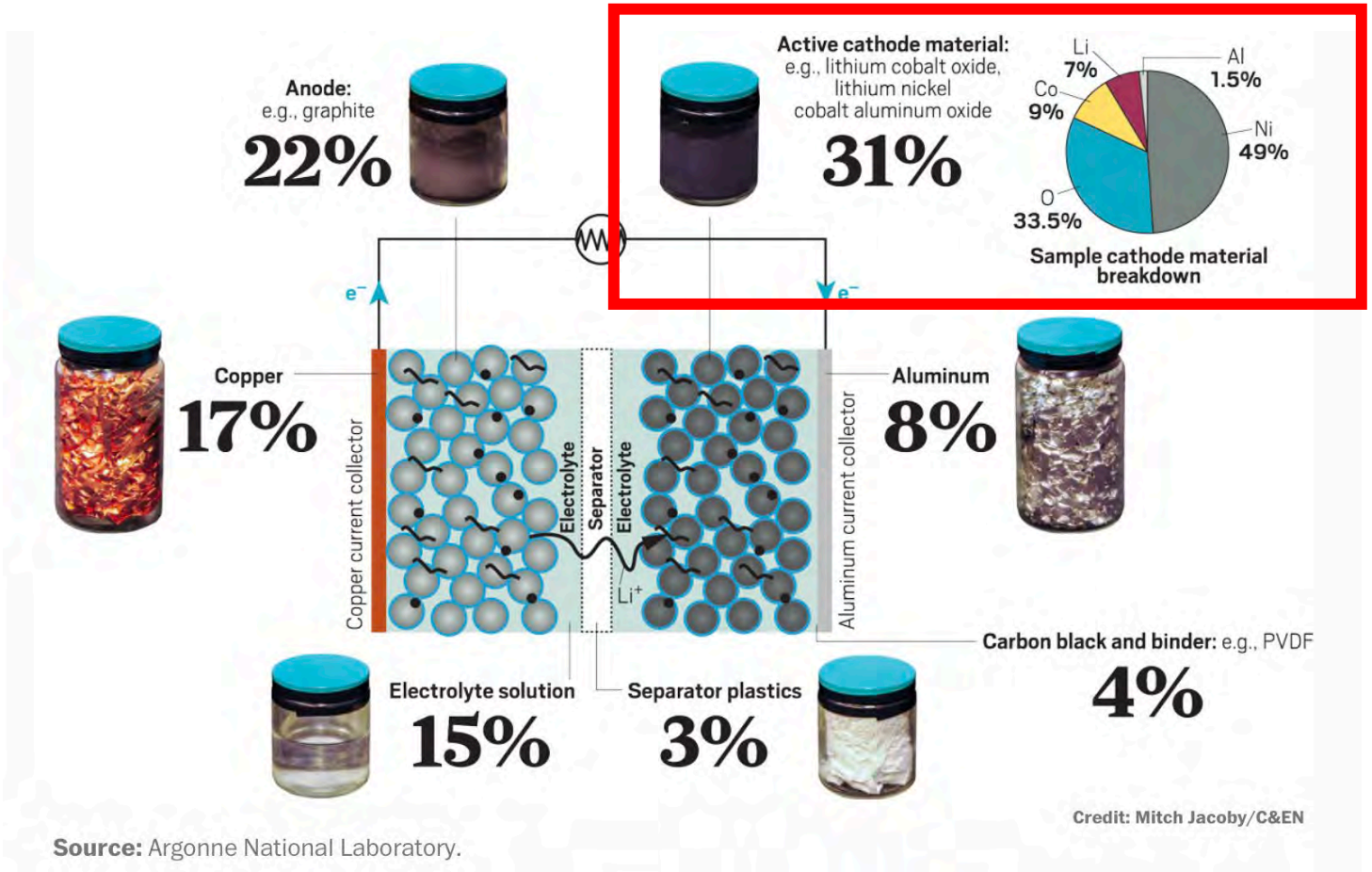
Company Objective

Recovering Value from

Lithium-ion Battery Cathode Metals



Inside Lithium-ion Batteries



Source: Argonne National Laboratory.

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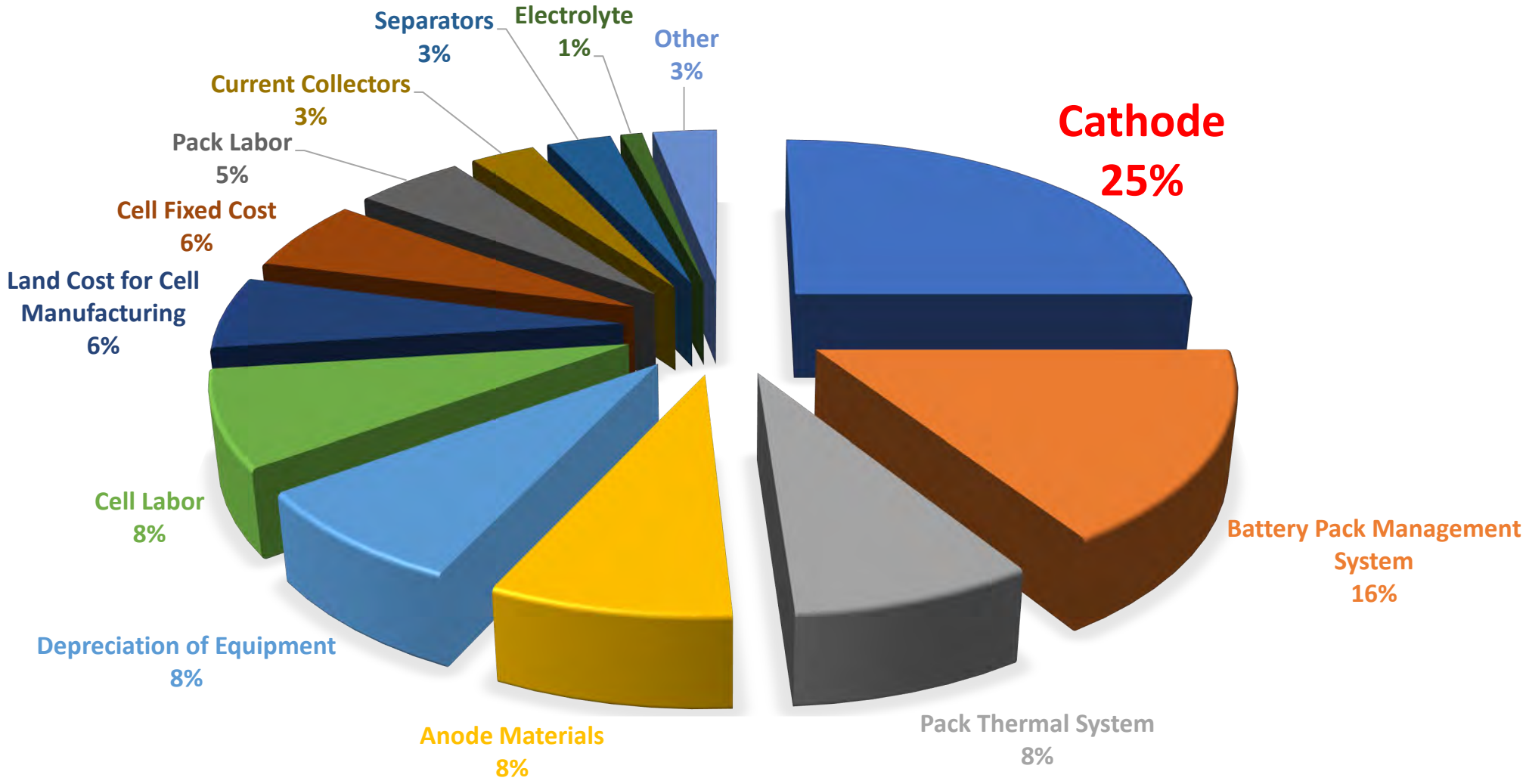
Fully Burdened Lithium-ion Battery Pack Cost Breakdown



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Growing Demand for Lithium-ion and Production Waste

Planned Battery Manufacturing Capacity by 2028:

1,956,000,000 kWh

20M+ Tesla Model S Battery Packs

Estimated Battery Manufacturing Waste

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Pilot Plant Recycling

Nickel-Manganese-Cobalt (NMC) Precipitation

High Purity NMC (99.93%)

Nickel-Cobalt-Aluminum (NCA) Precipitation

High Purity NCA (99.94%)

Cathode Manufacturing Waste

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CATHODE SCRAPS

RECYCLED ALUMINUM FOIL

RECYCLED HIGH PURITY NICKEL-COBALT HYDROXIDE

RECYCLED HIGH PURITY LITHIUM CARBONATE

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99.99% Pure Nickel-Cobalt Sulfate
Produced From Tier 1 NCA Cathode Scraps
Using the RecycLiCo™ Patented Process

Patent No. 10,246,343

United States Patent and Trademark Office granted patent for lithium-ion battery recycling process and recovery of cathode materials on April 2, 2019

Patent No. 10,308,523

United States Patent and Trademark Office granted patent on June 4, 2019 for:

- Recovery of graphite and carbon from ground battery concentrates
- Treatment of fluoride originating from electrolyte solution
- Separation of aluminum from cathode active material

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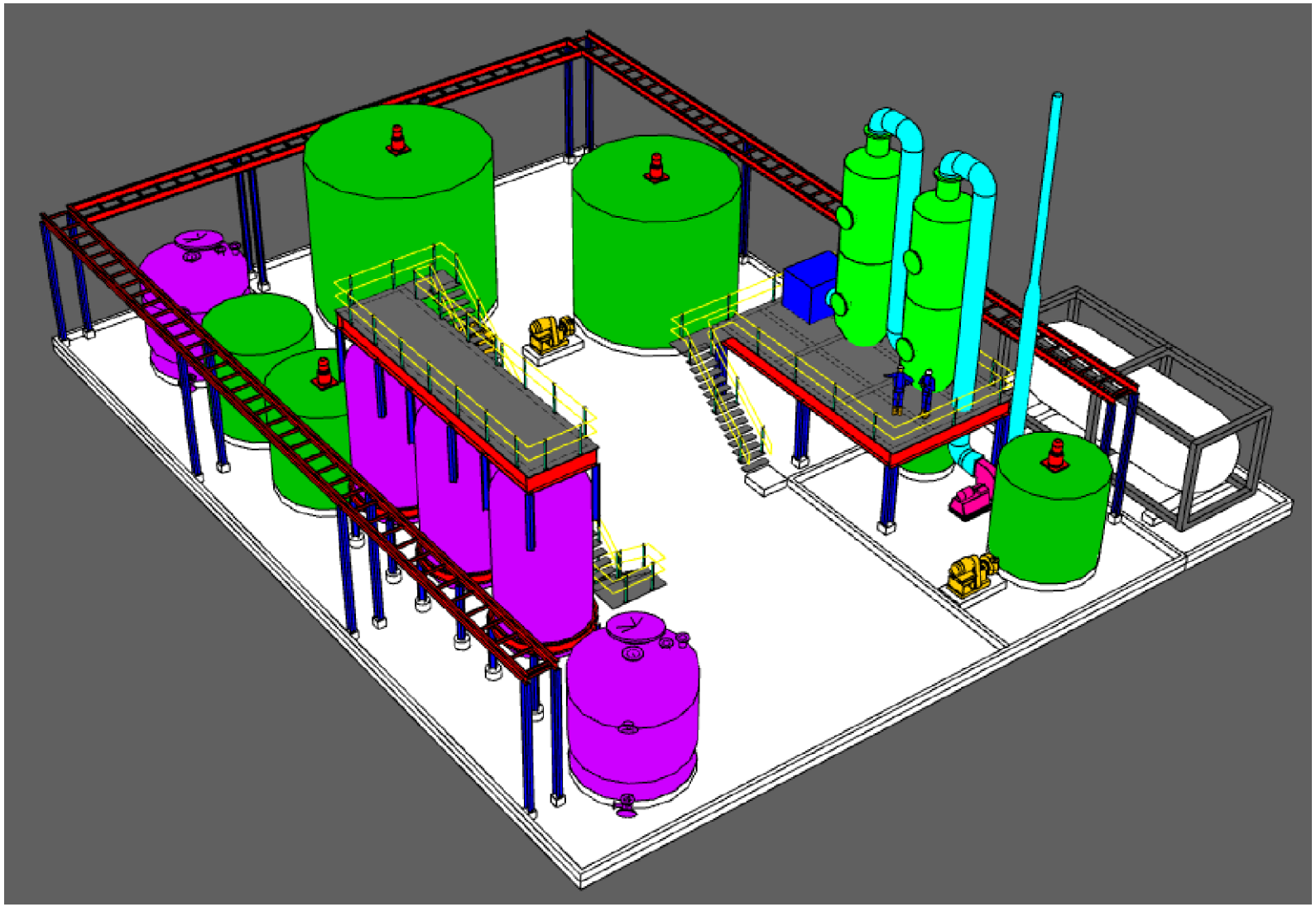
Commercial Demonstration Recycling Plant (3 Tonnes/Day)



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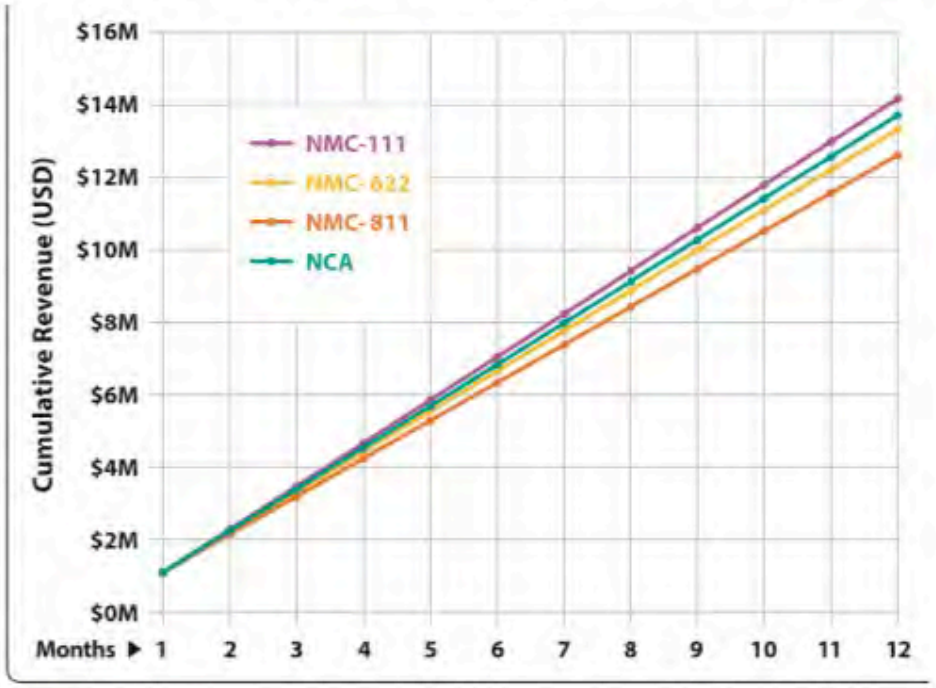
Financial Model

Pro-Forma 3 TPD Commercial Demonstration Plant



Revenue is based upon 95% recovery of cathode materials and commodity prices as of January 13th, 2020

Type	Li2CO3 (kg)	Co (kg)	Ni (kg)	Mn (kg)
NMC-111	1,092	580	578	541
NMC-622	1,086	347	1,035	323
NMC-811	1,082	173	1,376	161
NCA	1,096	262	1,393	0

Metal	Li2CO3	Co	Ni	Mn
Market Price (USD/kg)	$10.00	$33.00	$14.00	$2.00

Estimated Revenue Based on a **3 Tonnes/Day** Commercial Demonstration Plant

Estimated Capital Cost of **US$12 Million**

Reagent Consumption Cost Less Than **$1/kg** of Cathode Material Processed

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Business Strategy

Create a circular economy for the lithium-ion battery supply chain by recycling cathode manufacturing scrap and end-of-life lithium-ion batteries

Scrap/Disassembled Lithium-ion Battery Cathode Material

U.S. DEPARTMENT OF ENERGY

BATTERY SAFETY SOLUTIONS

Discharge and Disassembly

End-of-Life Batteries

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Cathode Manufacturing Scrap

Recycled Lithium, Cobalt, Nickel, and Manganese

Panasonic

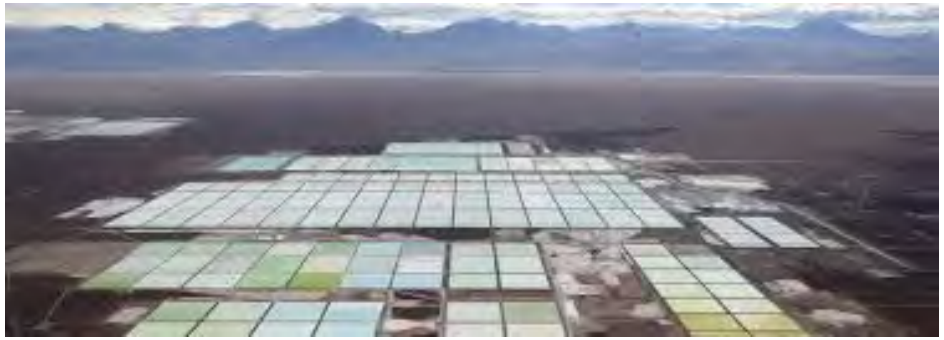
SK

SAMSUNG

LG Chem

Intend to commercialize intellectual property with joint venture partnerships and licencing agreements with industry leaders

Battery Metal Supply Chain



LITHIUM
Mining: South America
Processing: South America

NICKEL & COBALT
Mining: DRC, Canada
Smelting: China, Canada, Europe
Refining: China, Canada, Europe

ALUMINUM
Mining: Australia
Refining: Middle East, Canada

MANGANESE
Mining: Africa
Refining: USA/China/Europe

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