American Battery Technology Company

OTCQB: ABML

24th Annual Needham Virtual Growth Conference

January 14, 2022

Disclaimer

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Forward-looking statements:

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ABTC Company Overview

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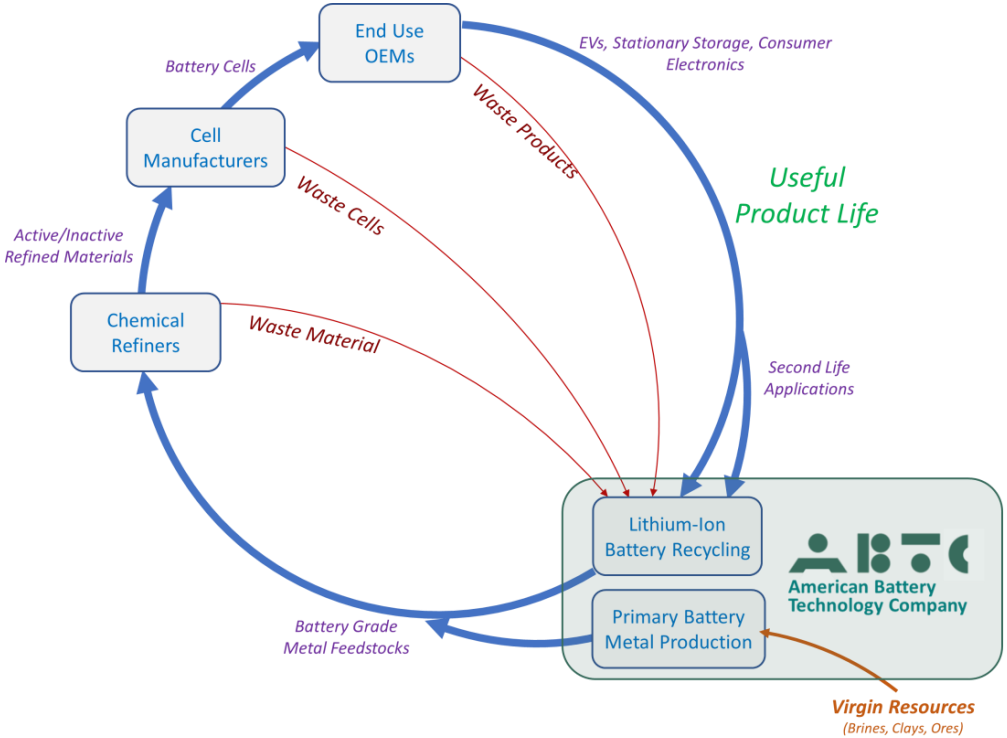
Enabling Closed-Loop Circular Economy



Lithium-Ion Battery Recycling

Processing spent lithium-ion batteries to recover and reuse battery metals

Primary Metals Extraction

Manufacturing battery metals from primary resources with new scalable technologies

Resource Stewardship

Managing mineral resources on leased and owned land

Executive Team

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Ryan Melsert

CEO / CTO / Director

Andrés Meza

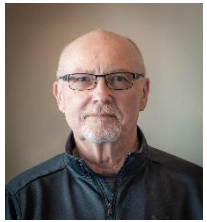
Chief Operating Officer

David Corsaut

Chief Financial Officer

Scott Jolcover

Chief Resources Officer



Chuck Leber

Head of Construction

Tiffiany Moehring

VP Marketing

Opportunity: Demand for Battery Metals

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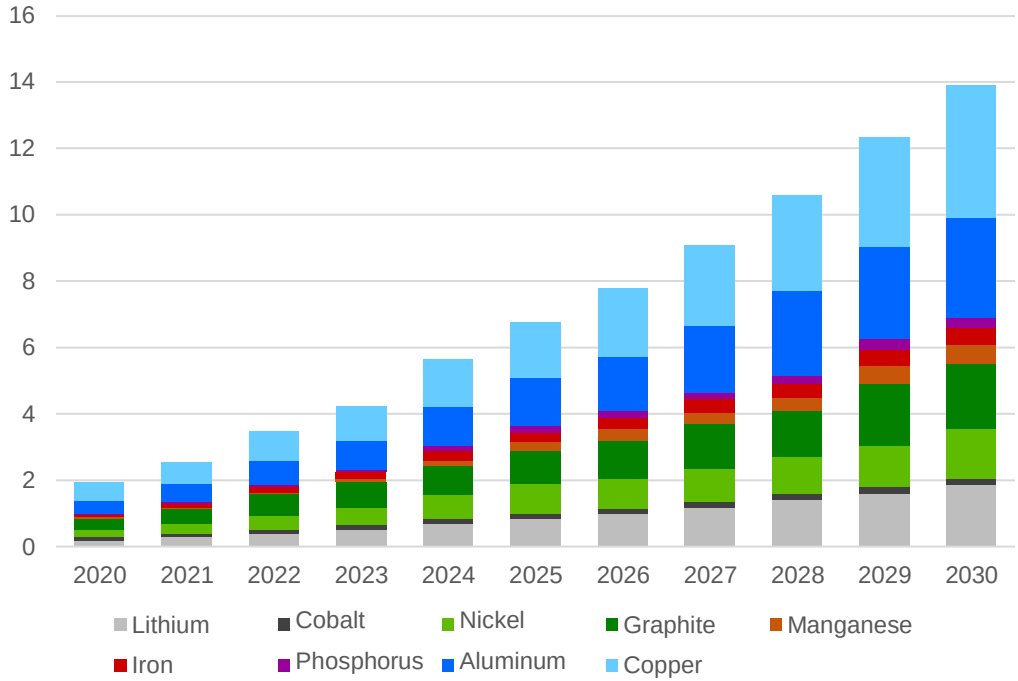
Growing Total Addressable Market

Demand for battery metals set to **grow exponentially** through 2030

Thermal refiners and traditional hydrometallurgical processes are primarily focused on Nickel and Cobalt, **missing large value** from other metals

The **battery recycling process of tomorrow** must be able to recover a wide range of metals in order to meet global demand

Global Battery Metals Demand (Million Tonnes/yr)



Source: BloombergNEF Battery Metals Review

Opportunity: US Critical Mineral Supply Issue

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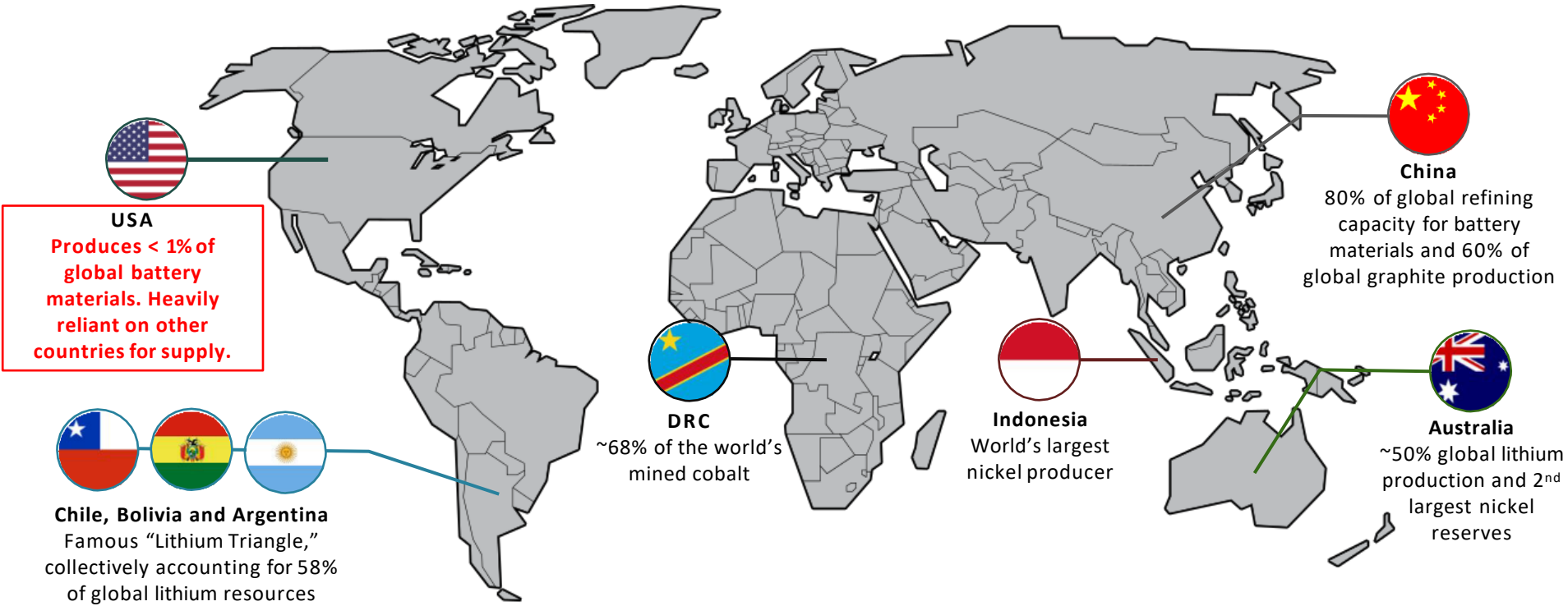

USA
Produces < 1% of global battery materials. Heavily reliant on other countries for supply.

Chile, Bolivia and Argentina
Famous "Lithium Triangle," collectively accounting for 58% of global lithium resources

DRC
~68% of the world's mined cobalt

Indonesia
World's largest nickel producer

China
80% of global refining capacity for battery materials and 60% of global graphite production

Australia
~50% global lithium production and 2nd largest nickel reserves

Source: Bloomberg NEF, Reuters, USGS Mineral Commodity Summaries (2021)

Opportunity: Regulatory Incentives

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	Regulatory Drivers	Government Spending
 United States	90% recycling of consumer electronics, EVs and grid storage batteries by 2030 Federal policies **require recycled materials** in cell manufacturing by 2030	**$150M** in R&D spending on battery recycling & collection ABTC already secured **$6.5M in US Grants**
 China	Required **recovery rates of +80%** on battery metals in effect since 2018 Set to **increase required rates to +90%** on Nickel, Cobalt, and Manganese	**$+60B** spent to support EV industry, including R&D for battery recycling
 EU	Batteries Directive mandates that **all collected batteries must be recycled** Set to increase **minimum recycling efficiency rate to +75%** in 2022	**$1.1B** Battery Alliance project to boost battery R&D

Source: US Federal Consortium for Advanced Batteries, China National Energy Administration, EU Batteries Directive and EU Battery Alliance

The Open Loop

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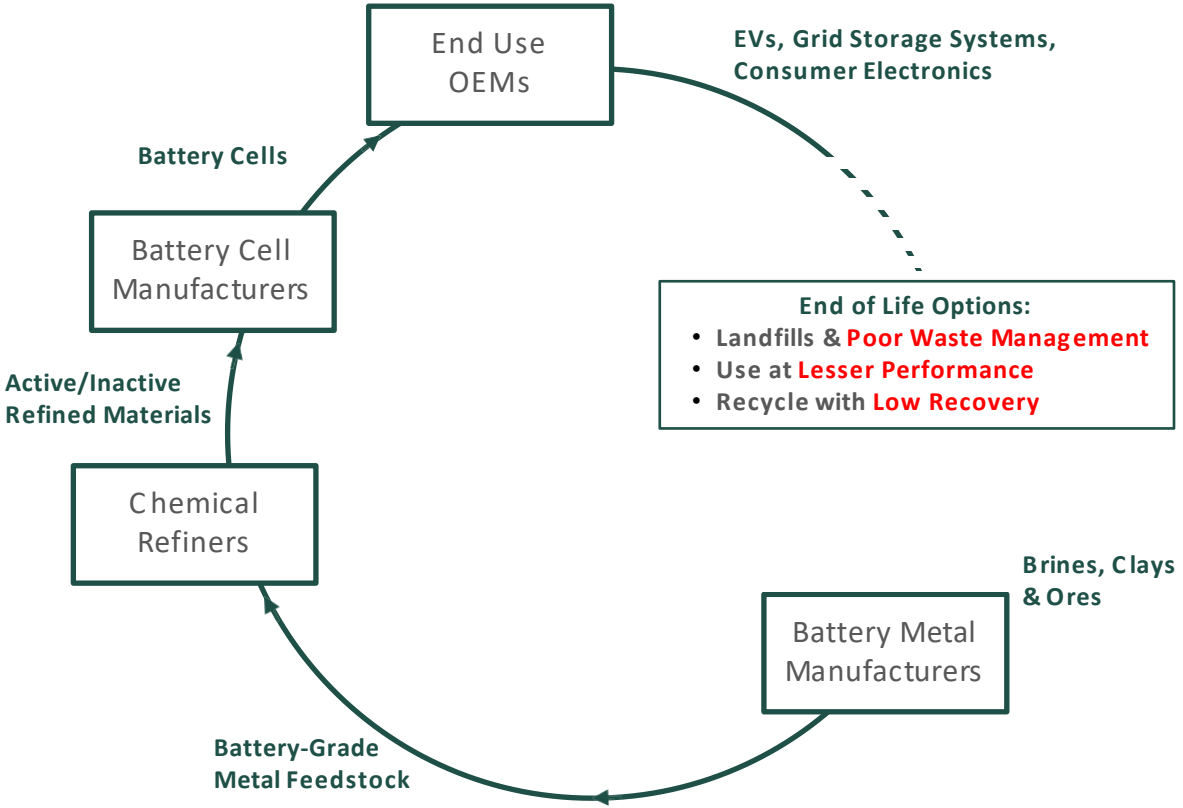
Spent Battery Dilemma

The global market is set to be **flooded with lithium-ion batteries** over the next decade

The current battery economy has no reliable, scalable and cost-efficient method for **re-introducing spent batteries into the cycle**

With battery production set to boom in the next decade, the **market desperately needs better end of life options** for spent batteries



Strategic De-Manufacturing Philosophy

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Founding Gigafactory Design Team

Tesla's Reno, Nevada Gigafactory: one of the **highest volume battery plants** in the world

ABTC CEO/CTO Ryan Melsert, former Tesla engineer, explains fundamentals of manufacturing processes during **Gigafactory Grand Opening** in July 2016

Treating Batteries as a Resource

Deep understanding of **raw materials processing**, refined materials synthesis, electrode manufacturing, cell/module/pack manufacturing

Leverage **knowledge of defect mechanisms** to undermine battery structure and increase efficiency for sorting and separation

Conduct all sorting and separation in a **fully-automated, hands-free process**

Current Battery Recycling Ecosystem

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Current Thermal Process

<50% recovery rate
High-temperature processing
Includes discharging and dismantling

Batteries Received	High-Temp Processing	Smelting	Hydromet Refining	Re-Dissolve Metals
Lost: Electrolyte, Plastics	**Lost:** Graphite, Fluorine Emitted	**Lost:** Lithium, Graphite, Aluminum	**Lost:** Manganese	

Simple Hydro Process

Expensive solvents
Limited separation
Narrow design for Ni and Co

Grinding / Shredding	Bulk Hydrometallurgical
Limited separation of contaminants Low removal of lesser value materials	Complex removal of impurities Need for expensive solvents

Advanced Hydro Process

>90% recovery rates
Avoids high-temperature processing
Streamlined and efficient

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De-Manufacturing of Batteries	Targeted Hydrometallurgical
High separation of low-value byproducts Automated de-manufacturing process Targeted removal of contaminants	Simplified impurity removal Highly selective recovery of products Battery cathode specification products

Corporate Award: Circularity Challenge

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In 2019, BASF, one of the largest Cathode Manufacturers in North America, hosted a global competition to identify the most promising lithium-ion battery recycling technologies in the world. The winner to receive:

- Entry into BASF accelerator program, hosted by Greentown Labs in Boston, one of the largest clean technology business incubators in the world
- Cash grant and support funds, unlimited access to the BASF wet chemistry development laboratory
- Dedicated contacts within BASF (Cathode R&D, Cathode Manufacturing, Battery Metals Procurement, M&A)

Among 100 applications, ABTC was selected as sole winner of Battery Recycling Circularity Challenge

BASF
We create chemistry

Stanley Black & Decker

Greentown Labs

CIRCULARITY CHALLENGE

Corporate Award: USABC

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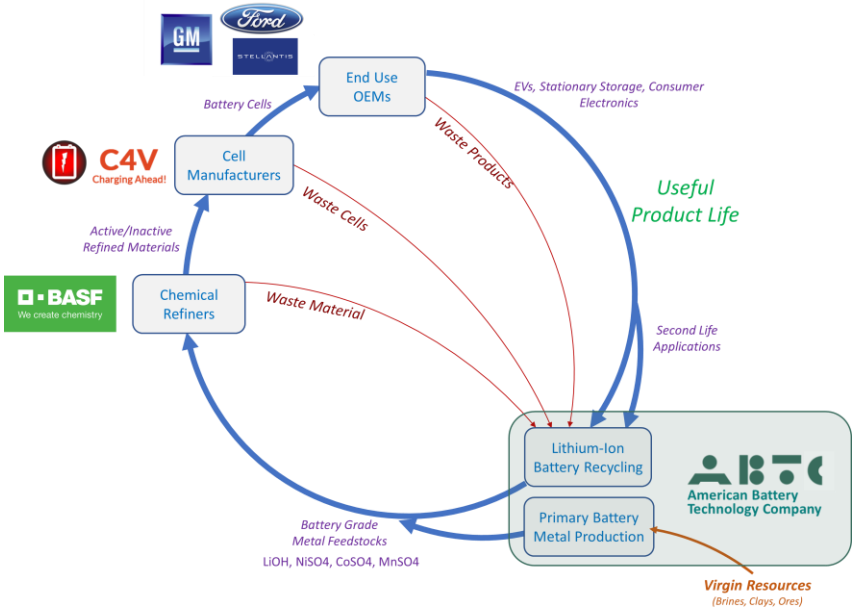
$2M Grant from the United States Advanced Battery Consortium

October 1st, 2021

"The overall objective is to challenge the existing recycling business model and innovate towards a value driven, self sustaining model for large format lithium-ion batteries."

- Recycling of battery packs and extraction of battery metals and refining products to meet rigorous **battery cathode feedstock specifications**
- Synthesis of new active cathode materials (>500 kg)
- Fabrication **of large-format automotive battery cells** utilizing active cathode made from recycled battery metal feedstocks
- Performance testing of large format cells made from recycled vs virgin sourced battery metals



Dual Track Approach: Primary Resources

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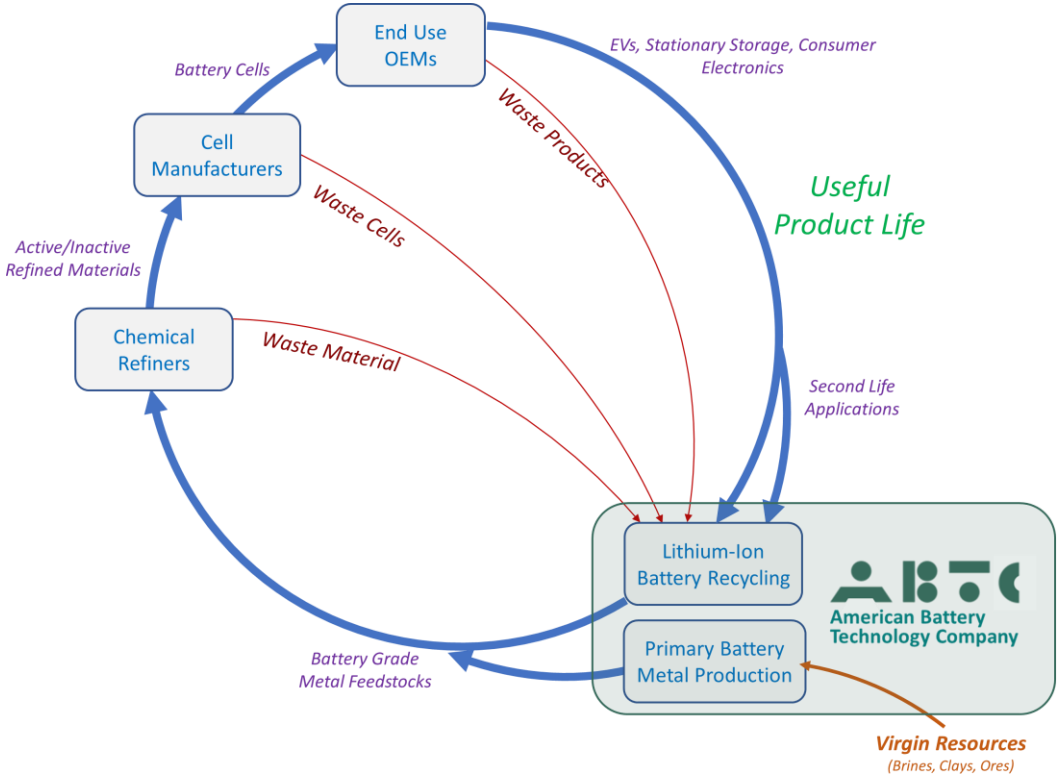
Primary Resource Extraction Technology

In addition to the recycling technology, ABTC has developed a **new sustainable lithium extraction process** that is specifically tailored to Nevada based sedimentary resources

This **strengthens domestic supply** of battery metals and **decreases US dependence on** foreign imports

ABTC also plans to secure offtake agreements with battery aggregators and black mass traders to **guarantee feedstock** for their recycling plants



Corporate Award: US DOE Grant

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$4.5M Grant for Critical Materials Innovations

Project Initiated October 1, 2021

- Utilizing lithium-rich claystone sedimentary resource as feedstock which is unique to Western Nevada
- **Bench-scale validations** of first-of-kind ABTC technology for selective extraction of lithium from claystone resources; drastically reduced chemical reagent consumption and **environmental impact**
- Construction of **field demonstration** ~5 MT/day system that takes in claystone resource and produces **battery grade lithium hydroxide (LiOH)**
- Deployment directly to the claystone resource in Western Nevada for long duration field validations

"Field Demonstration of Selective Leaching, Targeted Purification, and Electro-Chemical Production of Battery Grade Lithium Hydroxide Precursor from Domestic Claystone Resources"

DEPARTMENT OF ENERGY · UNITED STATES OF AMERICA

DUPONT™

AMERICAN LITHIUM

Pilot Plant: Fernley, NV

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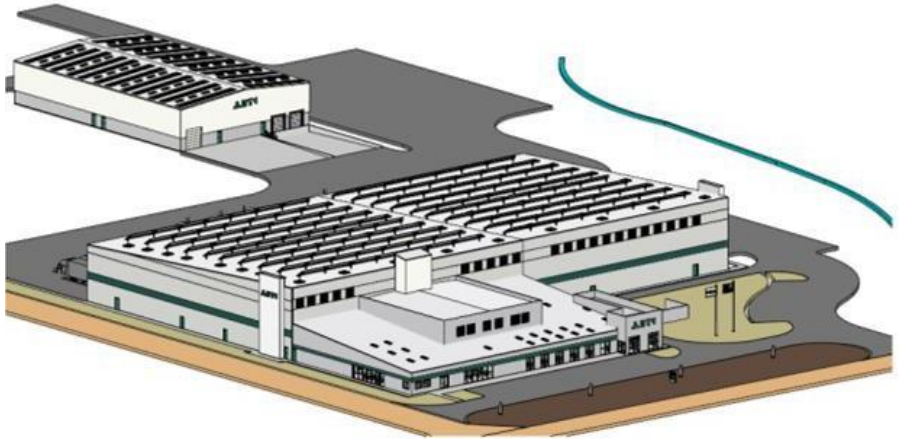
Global Development Center

- **20,000 MT/year** lithium-ion battery recycling pilot plant; permitting and design-build construction commenced
- Onsite global development center supports **both recycling and primary battery metal extraction technologies**; analytical lab, process lab, and piloting bays
- Global development center also helps **de-risk the project** by proving one sub-system at a time and allowing for adaptation to new battery chemistries
- Access to low-cost electricity and utilities; nearby rail and highway infrastructure
- Located in an Opportunity Zone
- Scalable and repeatable opportunity for future plants



Pilot Plant: Fernley, NV

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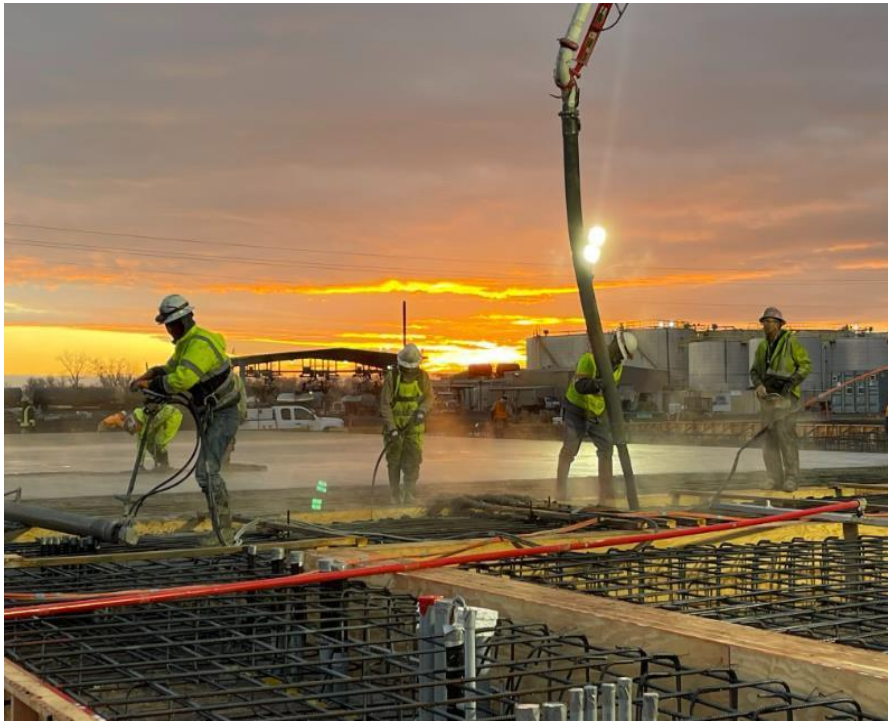
Pre-Commercial Facility Under Construction



Tonopah Flats Lithium Exploration Project

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Primary Resource Development

- Exploration of **427 unpatented lode mining claims** covering approximately **8,540 acres** of land near Tonopah, Nevada
- Initial surface sample data demonstrated grades of anomalous reported **lithium present from 260 ppm to 1,530 ppm i**n the project area; Samples with values of **300 ppm** and up are typically considered very prospective in nature
- Commenced **exploratory subsurface sampling** to further develop this resource where the sample results will be used to define the extent of the deposit in footprint, depth, and the grades of the lithium

Plant Capacity Timeline

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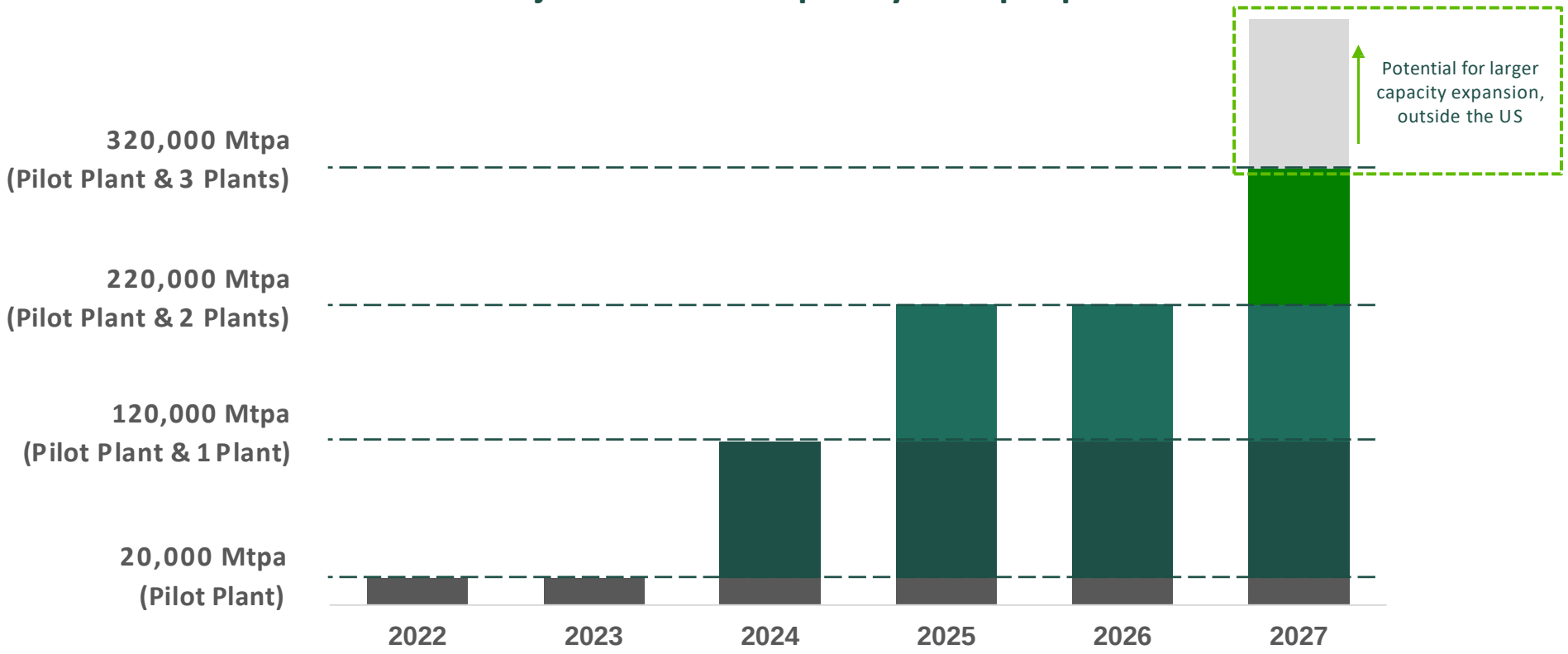
Projected Total Capacity Ramp Up



Summary

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American Battery Technology Company (ABTC) is a global leader in the **critical material** and **lithium-ion battery recycling** space. The Company is focused on developing technologies for the **circular economy** required for the **global energy transition** by treating spent batteries as a valuable resource, instead of hazardous waste – providing the United States with **a premier domestic source** of Lithium, Nickel, Cobalt, and Manganese.

Growing Market for Battery Recycling

+15M tonnes of lithium-ion batteries worth >$96B globally available for recycling from 2020-2030

Partnership with Industry Leaders

Close relationships with BASF, DuPont, US DOE, US Automakers, Critical Materials Institute and others

Award-Winning Process

Proprietary process that reduced e-waste and pollution while strengthening domestic supply chain

Pilot Facility to Generate Revenue in 2022

Set to process 20,000 Mtpa of battery feedstock to produce battery-grade metals

Battery Recycling & Metal Extraction

Providing disruptive and clean technology to meet accelerating demand for circular battery economy

Highly-Experienced Team

First-hand knowledge of advanced lithium-ion battery manufacturing processes at Tesla

American Battery Technology Company

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