National Conference of State Legislators

July 2022
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A Leader In Developing Critical Battery Materials

In-house technical, battery metals scientists that evolve, advance, and leverage hydrometallurgical extraction capabilities for recycled and primary battery metals.

Recycling of spent lithium-ion batteries utilizing first-of-kind advanced, combined demanufacturing-hydrometallurgical process.

Development of lithium resources owned by American Battery Technology Company.
Surging Demand For Batteries Requires Significant Capacity Expansion

- **Surging demand** for LiBs driven by new and rapidly growing end uses such as electric vehicle production

- **Supply limited** by investment in new production capacity at each level of supply chain

- **Anticipated Underinvestment in Materials Refining** portions of the supply chain relative to battery production

## Lithium-Ion Battery Demand (GWh)

<table>
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<th>EV</th>
<th>ESS</th>
<th>Portables</th>
<th>Total</th>
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</table>

## 2030E Processing Capacity at Each Stages of Battery Chain (kt Metal)

- **Battery Cathode Precursor Material Refining Capacity**: 33.6x 2020 Capacity
- **Cathode Production Capacity**: ~33%
- **Battery Production Capacity**: ~10%

Anticipated 2030 LiB demand is **~22x** Current Levels

Anticipated 2030 battery production capacity is **~10x** Precursor Materials Refining Capacity

Source: Benchmark Mineral Intelligence, Roskill, United States Geological Survey, Company Filings

1. Includes USA, Europe, Japan, and South Korea
North American Supply Chains Are Dependent On International Producers Of Critical Materials

US Currently Produces < 1% Of Global Critical Materials

- **US is highly dependent on foreign production** of critical materials
- **Primary production largely overseas and in non-OECD jurisdictions**, introducing higher transportation costs and greater geopolitical risk to domestic battery supply chains

Source: Benchmark Mineral Intelligence, Roskill, United States Geological Survey, Company Filings
ABTC: A Circular Economy Solution for Lithium-Ion Batteries

The global market is set to be flooded with lithium-ion batteries ("LiBs") over the next decade.

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

Primary supply of virgin materials alone will not be sufficient to meet demand for new LiBs batteries.

With battery production set to boom in the next decade, the market desperately needs better end of life options for spent batteries.
Lithium-Ion Battery Recycling

Primary and Secondary Metals Refining

Primary Resource Development

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Secondary Resource Development Through Recycling

**Treating Batteries as a Resource**

- Leveraging knowledge of defect mechanisms
  - Increases efficiency of sorting and separation
- Fully automated, hands-free de-manufacturing process
- Deep understanding of raw materials processing
  - Refined materials synthesis
  - Electrode manufacturing
  - Cell/module/pack manufacturing

**R&D driven approach** to developing secondary supply of critical minerals.
Award Winning Technology

Sole Winner: BASF Circularity Challenge

Global competition to identify the most promising lithium-ion battery recycling technologies in the world

- Entry into BASF’s corporate accelerator program, hosted by Greentown Labs in Boston
- Support funds and unlimited access to the BASF wet chemistry development laboratory
- Ongoing partnership between ABTC and BASF
  - Cathode R&D, Cathode Manufacturing, Battery Metals Procurement, M&A
Closing the Loop in the Battery Value Chain

Objective:
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

$2 million grant from the United States Advanced Battery Consortium

Chemical Refiners
Cell Manufacturers
End Use OEMs
Pilot Plant
Pre-commercial recycling facility in Fernley, Nevada

- 20,000 metric tons / year capacity
  - Ramping operations in 2023
- Onsite analytical and process labs
  - Will leverage existing partnership with UNR
- Access to low-cost electricity and utilities; nearby rail and highway infrastructure
- Opportunity Zone
- Continuous development of sub-systems
  - Allows for adaptation to new battery chemistries
  - Testing facility for deployment of new technologies and systems to commercial-scale facilities

Scalable and repeatable for future, commercial-scale facilities
US DOE AMO Grant

$4.5M Grant for Critical Materials Innovations
Project Initiated October 1, 2021

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

- Bench-scale validations for lithium extraction from claystone resources
  - First-of-kind technology; Significantly reduced environmental impact from reduced chemical reagent consumption

- Construction of ~5 tonne/day field demonstration system to produce battery grade lithium hydroxide (LiOH)

- Deployed directly on ABTC’s Tonopah Flats Lithium Exploration Project in Western Nevada
Tonopah Flats
Lithium claystone exploration project in Tonopah, Nevada

• 516 unpatented lode claims covering 10,340 acres
• Initial surface sampling completed in early 2022; 16-hole initial drill program initiated in February 2022
• Favorable resource development jurisdiction; Access to necessary infrastructure
  – Available labor force and supportive community
  – Power generation and related infrastructure adjacent to site
  – Direct access to transportation / highways

Optimal location in Nevada’s Lithium Valley
Primary Metals Refining

Increasing recoveries from claystone resources

- Developing 5 tonne/day test facility to validate bench-sale trials
- Utilizes a selective leaching process to extract lithium from claystone sedimentary resources
  - significantly lower consumption of acid
  - lower levels of contaminants in the generated leach liquor
  - lower overall costs of production
- Separates and recovers critical materials, including lithium, nickel and cobalt, from primary resources utilizing a novel process that conserves natural resources

Increases recoverable minerals from Tonopah Flats
Scalable to process third-party lithium concentrates
Potential license opportunities with mining firms
Lithium-Ion Battery Recycling

Primary and Secondary Metals Refining

Primary Resource Development

ABTC
AMERICAN BATTERY TECHNOLOGY COMPANY

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Framework for Domestic Critical Mineral Supply

Federal Initiatives
- Bi-Partisan Infrastructure Bill
  - $3 billion in competitive grants to accelerate domestic supply chain
  - Competitive grants for battery/battery component manufacturing, including recycling
- National Blueprint for Lithium Batteries
  - Guide for investments in Li-ion value chain focused on clean energy, job creation

State-level Support
- Distribution of federal funding initiatives
- Support for local government investments
- Consumer education initiatives

Stakeholder Engagement: EPA Stakeholder Report, January 2022
- Transportation and Storage
- Labeling and Material Characterizations
- Safety and Fire Prevention
- Public and Consumer Education
- Incentives and Enforcement
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Primary Resource Development

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Thank You

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