

# Boron: A Critical Mineral in Rising Demand

Boron is a critical mineral vital to clean energy, agriculture, and advanced manufacturing. With global demand on the rise, projected to reach \$16 billion by 2034<sup>1</sup>, and supply dominated by just two players—Rio Tinto and Turkey’s Eti Maden—there is a growing need for new Boron sources.

**Canter Resources is advancing its Columbus Lithium-Boron Project and Railroad Valley Lithium-Boron Project in Nevada to help diversify supply and support the world’s transition to a low-carbon future.**

<sup>1</sup>"Boron Market Analysis 2015-2034." ChemAnalyst, March 2024.  
<sup>2</sup>"Boron Market Size & Share Analysis - Growth Trends & Forecasts (2024 - 2029)". Mordor Intelligence. 2024.  
<sup>3</sup>"Assessment of Boron Reserves and Resources Worldwide". International Boron Association Report. 2021.

## Global Demand for Boron<sup>1</sup>



The market is dominated by Eti Maden (Turkey state-owned) and Rio Tinto, with limited public investment opportunities



## Nevada’s Next Strategic Boron District: Canter Positioned Among Major Players

With Rio Tinto’s century-old California boron mine set to close by 2042, the U.S. is facing a looming supply gap for this critical mineral. Canter Resources is advancing two strategically located lithium-boron projects in Nevada to help fill that gap.

### Columbus Lithium-Boron Project

- Located in Nevada, with access to key infrastructure and markets
- One of few U.S. boron projects as Rio Tinto’s mine nears closure
- Co-hosted lithium and boron, serving dual demand
- Early exploration shows strong potential, with drilling planned
- Critical timing as the U.S. needs secure boron supply
- The Columbus basin has seen periodic exploration over the past 150 years starting with a borax brine discovery (1871) and borax mining operations until 1885
- Located 17 miles from Loneer’s Rhyolite Ridge Lithium-Boron deposit with same shared volcanic source rocks

NEVADA, USA

### Railroad Valley Lithium-Boron Project

- Shares geologic features with Clayton Valley but 3.5x the size and underexplored
- High exploration upside for both lithium and boron
- Contiguous ground with private company 3PL who is actively advancing a new discovery

NEVADA, USA

# Boron's Strategic Role in Defense and Innovation

Boron is already classified as a strategic mineral by the U.S. Department of Defense and recognized as a critical raw material by the European Union. It is also under active review for inclusion on the U.S. Geological Survey's critical minerals list.

Valued for its unique properties, boron is essential to key industries including defense, aerospace, clean energy, and semiconductor manufacturing.

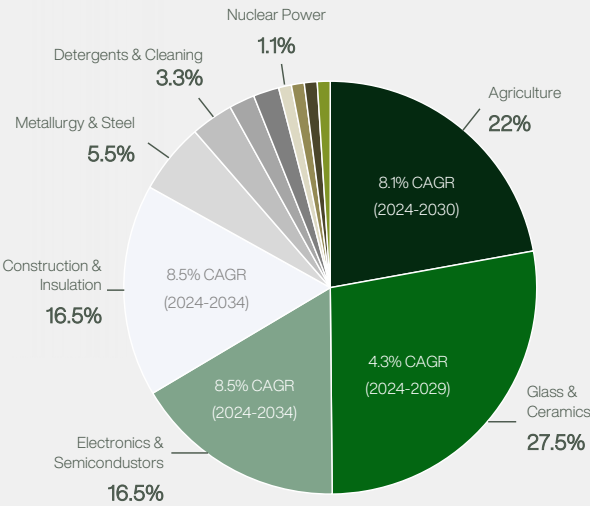
Boron is designated strategic mineral by:



# Powering Industries Across the Globe

Boron plays a vital role across a wide range of industries, including agriculture, glass and ceramics, electronics, metallurgy, aerospace, nuclear energy, automotive, pharmaceuticals, and renewable energy.

"Global CAGR of the Boron Market by Application from 2021 to 2030." Statista, 2023



# A Strategic Mineral Fueling National Security, Clean Energy, and Next-Gen Technology

Boron is vital to defense, aerospace, clean energy, and EV technologies. With growing recognition from the U.S. and EU –securing domestic supply is a national priority.

## Driving Innovation in Military Applications

Advanced anti-corrosion Boron properties are spearheading enhanced durability and strength among steel shells, protective vests, helicopters, and tanks.

## Revolutionizing Aerospace Engineering

Boron alloys create materials resistant to corrosion and oxidation, crucial for aerospace components.

## Renewable Energy Innovations

Boron is used to synthesizing energy-rich molecules, improving solar cell efficiency, and producing high-powered magnets for wind turbines.

## Advancing Semi-Conductors & Electric Vehicles

Boron enhances conductivity and performance in semiconductor devices, as well, offers high energy density and stability in batteries for electric vehicles.



**The USGS Inflation Reduction Act** is expected to include Boron on the Critical Metals List in 2025, highlighting its strategic importance and underlining its crucial role in national security and economic stability across diverse industries.

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