

## European Solar and Energy Storage Solutions

# Domestic energy storage lithium battery industry chain



## Overview

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This document outlines a U.S. national blueprint for lithium-based batteries, developed by FCAB to guide federal investments in the domestic lithium-battery manufacturing value chain that will decarbonize the transportation sector and bring clean-energy manufacturing jobs to America.

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As demand for EVs and stationary storage alone is projected to increase the size of the lithium battery market five- to ten-fold by the end of the decade, DOE's assessment underscores the need for robust and swift policy action to support the full U.S. battery supply chain—reducing risks, spurring domestic job creation, and boosting demand .

Building a robust and sustainable lithium battery manufacturing base in the United States will require addressing a number of challenges that have depressed investment in the domestic lithium battery supply chain to date. It will also need to respond to the aggressive actions of competing nations that recognized the importance of.

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WASHINGTON, D.C. — Today, two years after President Biden signed the Bipartisan Infrastructure Law, the U.S. Department of Energy (DOE) announced up to \$3.5 billion from the Infrastructure Law to boost domestic production of advanced batteries and battery materials nationwide. Should lithium-based batteries be a domestic supply chain?

Establishing a domestic supply chain for lithium-based batteries requires a

national commitment to both solving breakthrough scientific challenges for new materials and developing a manufacturing base that meets the demands of the growing electric vehicle (EV) and electrical grid storage markets.

What is the lithium-ion battery supply chain database?

As part of ongoing efforts to map the battery landscape, NAATBatt International and NREL established the Lithium-Ion Battery Supply Chain Database to identify every company in North America involved in building lithium-ion batteries, from mining to manufacturing to recycling and everything in between.

How many lithium-ion battery companies are there in North America?

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What policy developments are affecting the lithium battery supply chain?

The past year has seen many policy developments with implications for the U.S. lithium battery supply chain. The most significant are two laws, the Infrastructure Investment and Jobs Act of 2021 (IIJA) and the Inflation Reduction Act of 2022 (IRA). The provisions of these two laws align with many of the recommendations made in this report.

How can the US protect a North American lithium battery supply chain?

To protect U.S. security and critical interests on several fronts, the U.S. government must act immediately to support the timely development of a North American lithium battery supply chain based on U.S. know-how and free from the threat of foreign supply constraints. III. The Li-Bridge Initiative.

Should a strong lithium battery supply chain be shared?

The costs and benefits of building a strong lithium battery supply chain should be shared across all groups in aggregate, though some projects may promote equity more than others. Cultivating competitive advantage is critical for U.S. industry to compete globally and reduce future need for government subsidies and/or policy intervention.

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### Building a Resilience US Lithium Battery Supply Chain

To develop a healthy US lithium battery supply chain and meet the Li-Bridge 2030 and 2050 goals, nine challenges must be overcome. Chief among them: A Lack of Attractive Returns on US Capital Investment. BCG ...

### Energy Department tries to boost US battery industry with ...

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The Department of Energy is making a push to strengthen the U.S. battery supply chain -- the minerals and parts This photo shows part of a battery energy storage facility in Saginaw, ...



### Mine to market: critical minerals supply chain for domestic ...

Chain for Domestic Value Addition in Battery Manufacturing, June 2023. This report was produced as a part of TA 6726-IND: Promoting Clean Energy Usage Through Enhanced Adoption of ...

### NREL Battery Supply Chain Database Maps Out the ...

As of March 2024, the database now offers a

directory of nearly 700 companies and 850 facilities in North America across lithium-ion battery supply chain segments, including mining, material processing, cell and pack ...



## Fact Sheet: Lithium Supply in the Energy Transition

An increased supply of lithium will be needed to meet future expected demand growth for lithium-ion batteries for transportation and energy storage. Lithium demand has tripled since 2017 [1] and is set to grow tenfold ...

## Three Domestic Energy Storage Supply Chain Trends for 2024

4 ???· Energy storage manufacturers are utilizing existing supply chains and experimenting with new materials to help bring about the future of clean energy future. Here are three supply ...



## Bridging the lithium battery supply chain gap -- a new ...

Putting the U.S. on a path to long-term competitiveness in the global battery value chain, the blueprint outlines five critical goals to creating a domestic lithium-battery supply chain that generates equitable, clean-energy ...

## Battery Energy Storage Scenario Analyses Using the Lithium-Ion Battery ...

We developed the Lithium-Ion Battery Resource Analysis (LIBRA) model as a tool to help stakeholders better understand the following types of questions: What are the roles of R& D, ...



## Overview of the Chinese Lithium-ion Power Battery Export Industry

This article introduces the overview of the Chinese Lithium-ion Power Battery Export Industry as well as the lithium battery industry chain. Specifically, the article focuses on ...

## Li-Bridge

As widespread electrification drives demand for lithium-based batteries to power electric vehicles and stationary storage, the domestic battery supply chain must expand. Li-Bridge is a public-private alliance committed to accelerating the ...



## Li-Bridge , Energy Storage Center

History of Li-Bridge. February 2021 - The Biden Administration issues an Executive Order on America's Supply Chains ; June 2021 - The Federal Consortium for Advanced Batteries - established to put the U.S. on a path to ...



## 2023 China lithium battery industry chain market ...

Energy storage batteries: Driven by the growth of the power energy storage and industrial and commercial energy storage markets, China's energy storage lithium battery shipments in the first three quarters of 2023 ...



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