



# New domestic battery materials

How much did DOE invest in a new battery project?

This round of investment builds off of a previous round of program funding in which DOE awarded a total of \$1.82 billion to 14 projects. Round one awardees will build and expand commercial-scale facilities to extract lithium, graphite, and other battery materials, and battery component manufacturing.

How much economic impact will a new battery project have?

The project will generate \$4.4 billion in total economic impact during its three-year construction period and over the first 10 years of operation. It will enable sourcing of critical battery materials from within the U.S. and reduce the dependence on foreign material suppliers.

Why should we recycle lithium-ion batteries?

The capability to recycle lithium-ion batteries is imperative for the U.S. to develop a sustainable domestic supply chain for the EV market, as well as to build a stable infrastructure for an electric future. Cirba Solutions is advancing a critical area in the battery supply chain.

What is the battery portfolio?

Learn more about the portfolio below. Funded with \$2.8 Billion through the Bipartisan Infrastructure Law, the portfolio of 21 projects supports new, retrofitted, and expanded commercial-scale domestic facilities to produce battery materials, processing, cell components, and battery recycling.

How will the CAM Project Impact the battery industry?

The CAM project will create \$299M in economic impact during construction and \$123M per year in ongoing activity. It will enable sourcing of critical battery materials from within the U.S. and reduce the dependence on foreign materials and foreign cathode material suppliers.

How much money does DOE spend on battery manufacturing & recycling?

As part of the Battery Materials Processing and Battery Manufacturing and Recycling Program, DOE is enabling \$16 billion in total investment for battery manufacturing, processing, and recycling.

In this paper, AVERE calls on European decision-makers to rapidly introduce a "Battery Materials Bank" to strengthen the EU's domestic battery and materials value chain. The scope of this new Bank should cover ...

The net-zero transition will require vast amounts of raw materials to support the development and rollout of low-carbon technologies. Battery electric vehicles (BEVs) will play a central role in the pathway to net zero; McKinsey estimates that worldwide demand for passenger cars in the BEV segment will grow sixfold from 2021 through 2030, with annual unit sales ...

Through this project, Anovion will invest in large-scale battery materials manufacturing and strengthen the

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domestic lithium-ion battery supply chain critical to multiple industries - including electric vehicles, energy storage systems, personal e-mobility, medical devices, military, and aerospace, as well as other industrial applications.

WASHINGTON (AP) -- The Biden administration is awarding over \$3 billion to U.S. companies to boost domestic production of advanced batteries and other materials used for electric vehicles, part of a continuing push to reduce China's global dominance in battery production for EVs and other electronics.

"To secure a thriving and resilient European battery industry, we must intensify our efforts in domestic battery raw materials production. While it's encouraging to see a growing list of ambitious initiatives and financial stimuli ...

5 ???&#0183; The new material, sodium vanadium phosphate with the chemical formula  $\text{Na}_x\text{V}_2(\text{PO}_4)_3$ , improves sodium-ion battery performance by increasing the energy density--the amount of energy stored per kilogram--by more than 15%. With a higher energy density of 458 watt-hours per kilogram (Wh/kg) compared to the 396 Wh/kg in older sodium-ion batteries, this material ...

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U.S. battery manufacturing companies have formed a new coalition to push for more investments in a domestic supply for critical materials. The Battery Advocacy for Technology Transformation (BATT) includes suppliers and firms such as Mitra Chem, Xerion Advanced Battery Corp. and Orbia Fluor & Energy Materials, among others. Its goal is to lobby ...

With up to \$3.5 billion available, the Battery Materials Processing and Battery Manufacturing Grants will support facilities used for "battery-grade processed critical minerals, battery precursor materials, battery components, and cell and pack manufacturing" at new, retrofitted, and expanded domestic facilities.

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The net-zero transition will require vast amounts of raw materials to support ...

The acceleration of the transition to battery electric vehicles (BEVs) entails a ...

The U.S. Department of Energy has announced funding of \$3.5 billion to boost domestic production of advanced batteries and battery materials. The initiative aims to create and upgrade facilities critical for supporting the future of clean energy industries, including renewable energy and electric vehicles (EVs).

5 ???&#0183; An international team of interdisciplinary researchers, including the Canepa Research

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Laboratory at the University of Houston, has developed a new type of material for sodium-ion batteries that could make them more efficient and boost their energy performance--paving the way for a more sustainable and affordable energy future.. The findings are published in the ...

5 ???&#0183; The new material, sodium vanadium phosphate with the chemical formula  $\text{Na}_x\text{V}_2$  ...

WASHINGTON, D.C. -- The U.S. Department of Energy (DOE) today announced an investment of \$25 million across 11 projects to advance materials, processes, machines, and equipment for domestic manufacturing of next-generation batteries. These projects will advance platform technologies upon which battery manufacturing capabilities can be built, ...

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