

Why should Germany invest in lithium-ion batteries?

Lithium is considered one of the key raw materials in the energy transition. Lithium is a soft metal and a key part of batteries for electric vehicles. Lithium-ion batteries are already widely used to store energy from renewable sources. Germany is extremely interested in these opportunities, as can be seen in its international partnerships.

Who owns Altech batteries GmbH?

A key milestone on this path was reached with the founding of Altech Batteries GmbH in September 2022, in which Altech Energy Holding holds a 75 % stake and the Fraunhofer-Gesellschaft a 25 % stake. The aim of Altech Batteries GmbH is to set up a production line for the solid-state battery cerenergy &#174;.

Could a German car be powered by a battery?

But Germany is also investing large amounts in battery technology. Production is being ramped up at pace, and in a few years one in four electric cars produced in Europe could be powered by a battery from a German factory. In 2022, 46% of Germany's gross energy generation came from solar, wind and hydro power.

What is Altech batteries?

The aim of Altech Batteries GmbH is to set up a production line for the solid-state battery cerenergy &#174;. A sustainable future for former power plant site The battery factory will be built on a 14-hectare industrial wasteland in the Saxon part of the industrial park Schwarze Pumpe. The planning is already in full swing.

Does Germany have a lithium mine?

At the same time Germany is actively exploring lithium mining within its own borders. The Zinnwald Lithium company plans to set up one of Europe's largest lithium mining operations in Altenberg in the Ore Mountains by around 2030. The company's goal is to extract enough lithium each year for around 600,000 car batteries.

What is electrochemical energy storage materials?

Prof. Dr. Dominic Bresser Electrochemical Energy Storage Materials The group &quot;Electrochemical Energy Storage Materials&quot; researches a variety of materials and technologies for electrochemical energy storages. The group tries to create a fundamental understanding of the electrochemical reactions and mechanisms. [View research group](#)

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Fraunhofer ISI predicts that annual manufacturing capacity for batteries in Germany will reach almost 400 gigawatt hours by 2030, which would provide batteries for 6.5 million cars at current levels. The leading ...

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In the research field of electrochemistry, the scientists examine, among other things, the interfaces between the electrode (electron conductor) and electrolyte (ion conductor), where the battery-specific redox reaction takes place.

To renew, join, or discuss the Institutional Partnership Program options, please contact Anna Olsen, Senior Manager, Corporate Programs, [sponsorship@electrochem](mailto:sponsorship@electrochem). "With a network of over 8,000 scientists and engineers, the ECS is invaluable for enriching my scientific and professional career.

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Erratum: Review--Electromobility: Batteries or Fuel Cells? [J. Electrochem. Soc., 162, A2605 (2015)] Oliver Groger,<sup>a</sup> Hubert A. Gasteiger,<sup>b</sup> and Jens-Peter Suchsland<sup>c</sup> <sup>a</sup>Volkswagen AG, 38436 Wolfsburg, Germany <sup>b</sup>Chair of Technical Electrochemistry, Technische Universitat M<sup>un</sup>chen, 85748 Garching, Germany <sup>c</sup>SolviCore GmbH & Co. KG, 63457 Hanau ...

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of cells, and then disconnects it from the load if it senses the voltage drops below a minimum voltage limit. This protection can ...

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