

Are countries adapting their political strategies for battery technology?

Countries worldwide are renewing or adapting their political strategies for battery technologies. In this context, a new Fraunhofer ISI report is analysing the different battery policies and targets with focus on three fields of battery technology research: Lithium-ion, solid-state, and alternative batteries.

Can international battery policies be benchmarked?

In this context, an international comparison between the different battery policy strategies of the leading countries is helpful - and now part of a new Fraunhofer ISI study entitled 'Benchmarking International Battery Policies'.

Which countries support research and innovation on solid-state batteries?

The research and innovation alliances at EU (Batteries Europe) and national level (e.g. Batterie2020 in Germany) also support research on solid-state batteries as an emerging technology. The European Commission has declared battery research and innovation a European priority area and has approved two IPCEIs on batteries.

Which countries are focusing on battery technology?

China is currently focusing on lithium-ion, solid-state, metal-sulfur, and especially Li-sulfur batteries. - Germany has historically pursued an open technology strategy for battery technology with many different measures, but the 'Battery Research Road Concept' updated in January 2023 newly introduced a specific strategy on performance parameters.

Which countries have a cycle life target for alternative batteries?

Three countries set a cycle life target for alternative batteries beyond 2030, for different types of batteries (Japan for zinc-anode and fluoride batteries (EVs/PHEVs use) and the EU for metal-air batteries, China's KPI did not specify the type of battery), but with the same value (at least 2,000 cycles).

What are the future 'revolutionary battery technologies'?

Future 'revolutionary battery technologies' include solid-state and Li-metal batteries for example, but the U.S. also focus on Lithium-ion and Li-metal batteries with liquid electrolyte and the supply of the domestic market. - South Korea aims for international leadership regarding its battery industry.

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November 11, 2024: Research by CATL, the largest lithium cell manufacturer in the world, into solid-state batteries is looking set to bear fruit. According to Chinese media source LatePost, ...

The International Battery Materials Association (IBA) is a registered nonprofit which fosters and promotes science and technology of batteries and related electrochemical energy storage ...

Countries around the world are developing political strategies for battery technologies or adapting them to global developments. In this context, a new study by ...

The Battery Research Laboratory is headed by Dr. Bilal El-Zahab, Associate Professor of Mechanical and Materials Engineering in the College of Engineering and Computing at Florida ...

Karim Zaghib, professor in the Department of Chemical and Materials Engineering at Concordia University's Gina Cody School of Engineering and Computer ...

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Having identified the relevance of international observation, Batteries Europe has prepared an overview of battery R& D& I, funding and international benchmarking on KPIs of nine ...

In this context, a new study by Fraunhofer ISI, commissioned by the BMBF, analyses the various battery policies and objectives with a focus on three areas of battery ...

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Over the past decade, China has emerged as a prominent player in worldwide electric vehicle battery supply chains by means of assertive financial commitments, astute ...

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