

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.

Are EU Battery regulations a threat to energy security?

Although the EU battery regulations are relatively quiet on trade and investment, they are part of a broader geopolitical environment that has become increasingly concerned about the security of energy and critical mineral supply chains (Petitjean and Verheecke, 2023; Riofrancos, 2023; Torjesen, 2024).

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'.

How much money does the US spend on batteries?

Of the \$30 billion that the U.S. government has committed to battery investments in the last two years through grants, loan guarantees, and tax incentives, more than 90 percent supports lithium-ion batteries.

How can a European battery ecosystem help achieve a sustainable future?

In this context, a European battery ecosystem with scaled production and circular supply chains can help achieving this goal. These transitions, however, are now being driven by international crises and traditional alliances have become more fragile, so the role of access to critical technologies has returned to centre stage.

Why is Europe a leading supplier of sustainable battery technologies?

The continent's focus is on lithium-ion, solid-state and alternative battery types such as redox-flow, metal-air and sodium-ion batteries and the main goal is becoming a leading supplier of sustainable battery technologies in order to establish a competitive and sustainable battery value chain in the EU.

At the upstream end of the value chain, a slew of battery-related investments, overwhelmingly Chinese, have been announced for precursor materials required to produce ...

Lithium-ion batteries (LIBs) are pivotal in a wide range of applications, including consumer electronics, electric vehicles, and stationary energy storage systems. The broader ...

EPO's first joint study with the International Energy Agency underlines the key role that battery innovation is playing in the clean energy transition.

On October 9 (same day local time), the first meeting of the Dialogue based on the Memorandum of Cooperation (MOC) between the Ministry of Foreign Affairs of Japan, the ...

This photo taken on August 28, 2024 shows a general view of boxes of battery cells stored for shipment at the battery manufacturing plant at PT HLI Green Power, ...

Meanwhile, with planning in Europe for around 30 gigafactories - a loose term for large manufacturing hubs that make battery units or related decarbonisation technologies - ...

The battery-related ED visit rate per 100 000 children has continued to rise in the last decade and was 2.1 times higher during 2010 to 2019 compared with 1990 to 2009 (9.5 ...

amicable foreign battery supply capacity. Keywords: Batteries, Electric vehicles, Supply chains, Manufacturing, China, Dominance, ... which accounts for nearly 30% of global energy-related ...

The US IRA has established policies that aim to strengthen the entire domestic EV value chain. Under the IRA, battery cells can receive a tax credit of up to \$35 per kWh of ...

Indonesia is the world's biggest producer of nickel, a key component in long-range EV batteries. Dozens of battery-related projects are under construction -- mainly on nickel-rich Sulawesi and ...

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