

What does the group battery production of Professor Kampker do?

The group Battery Production of Professor Kampker's chair deals with the manufacturing processes of the lithium-ion cell as well as with the assembly processes of the battery module and pack. The focus is on integrated product and process development approaches to optimize cost and quality drivers in manufacturing and assembly processes.

What are the targets for domestic battery production?

In particular, targets for domestic production of batteries should be consistent with the 2035 ban on emissions for passenger cars and vans, and with the supply of the raw and advanced materials needed to sustain that production. Target implementation date: End of 2025.

What is sustainable battery production?

Sustainable battery production: Within the scope of alternative mobility technologies and the transition to alternative energies, batteries play a key role in decreasing the impact on the environment, especially when it comes to reducing the CO₂ footprint.

Why is battery development important for the EU?

The development and production of batteries has become a strategic imperative for the EU, enabling the clean energy transition and as a key component of the competitiveness of the automotive sector. To help the EU become a global leader in sustainable battery production and use, in 2018 the Commission published a strategic action plan on batteries.

What data should be included in battery monitoring?

ensure that the monitoring covers the critical stages of the EU battery value chain. Data should include in particular actual battery production, measured in gigawatt hours, and the domestic production of the main raw and advanced materials needed to deliver the current and future generations of batteries.

What factors influence the performance of battery cells in the production process?

A large number of factors influence the performance of the battery cell in the production process. Detailed knowledge of parameters related to the product and production and how these interact is essential in order to improve the energy density, power density, costs, cycle stability, and service life of battery cells.

This special report by the International Energy Agency that examines EV battery supply chains from raw materials all the way to the finished product, spanning different segments of manufacturing steps: materials, components, cells and electric vehicles.

Europe can become self-sufficient in battery cells by 2026, and manufacture most of its demand for key

components (cathodes) and materials such as lithium by 2030. But over half of ...

Strong growth occurred for utility-scale battery projects, behind-the-meter batteries, mini-grids and solar home systems for electricity access, adding a total of 42 GW of battery storage capacity globally. Electric vehicle (EV) battery ...

The Roadmap Battery Production Resources 2030 - Update 2023 addresses process-related challenges that contribute significantly to progress in the industrial production of Li-ion batteries...

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Which technology breakthroughs are needed in large-scale production by 2030? Regarding intelligent, sustainable battery production, it is important to understand the interaction of ...

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The manufacturers of battery production equipment make a major contribution to progress in the industrial production of high-capacity energy storage devices. They are thus a crucial factor in the success of electromobility and stationary storage systems. Only if batteries as key components can win customers over in terms of price

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equipping and fitting of entire battery factories. Our aim is to offer the manufacturers of lithium-ion batteries a single source of supply for fitting their facilities with production technology - Dür offers equipment for every stage of the value chain - not only paving the way for the production of efficient, high-quality

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Battery cell production is a complex process chain with interlinked manufacturing processes. Calendering in particular has an enormous influence on the subsequent manufacturing steps and final cell performance. However, the effects on the mechanical properties of the electrode, in particular, have been insufficiently investigated. For this reason, ...

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