

Kongres Container

Uruguay s flow battery supply chain



Overview

How do battery supply chains affect environmental and socio-economic impacts?

However, depending on the design of battery supply chains, environmental and socio-economic impacts can vary considerably. Especially the selection of suppliers as well as production locations and processes can have a major influence.

Can supply chains affect the price of a battery cell?

Regarding the economic assessment, the perspective was limited to the battery cell producer. However, the cell and car producers aspire to integrate supply chains. This can affect the prices they have to pay for materials, as they then have more control over the processes and cost structure.

Does battery supply exceed global demand?

Although battery supply may exceed demand at the global level, the picture is more nuanced and varied by region. Some countries have excess capacity—meaning more than enough to satisfy local demand—while others rely on imports to alleviate local shortages. This regional view could become critical if more countries try to localize production.

Are batteries produced in Poland a sustainable supply chain?

However, in the case of particulate matter formation, the indicator scores would decrease if the batteries were produced in Poland, highlighting possible conflicts for the design of sustainable supply chains. For the social impact categories, comparable effects can be observed as for the environmental impact categories.

Who are flow battery subject matter experts?

The Framework Team interviewed 26 flow battery subject matter experts (SMEs) who represented 20 organizations, ranging from industry groups (e.g.,

ESS, Inc., Lockheed Martin Corporation) to vendors (e.g., Primus Power, Largo Inc.) and National Laboratories (e.g., SLAC National Accelerator Laboratory).

How can battery recycling affect sustainable supply chains?

However, the recycling of batteries can significantly affect the practical design of sustainable supply chains . Thus, the scope of the study has to be broadened. Furthermore, the assembly of battery modules and packs must be included. Another influential parameter can be the composition and design of the battery cells.

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