

Downstream customers of electric vehicle energy storage business

Should upstream EV manufacturers supply batteries to their competitors?

If the procurement cost from the external supplier is low, the upstream EV manufacturer should not supply batteries to its competitor to maximize social welfare.

Can the EV battery supply chain meet increasing demand?

Concerns about the EV battery supply chain's ability to meet increasing demand. Although there is sufficient planned manufacturing capacity, the supply chain is currently vulnerable to shortages and disruption due to

Do upstream and Downstream manufacturers choose to buy batteries?

If the procurement cost is moderate, the downstream manufacturer prefers to buy batteries from the upstream manufacturer and the upstream manufacturer will supply batteries to satisfy the order. In addition, we investigate the effects of key parameters on the equilibrium capacity allocation decisions and manufacturers' profits using numerical experiments.

How do public-private consortiums contribute to EV battery development?

Public-private consortia are instrumental in pioneering DPPs for EV batteries. Industry actors in the manufacturing and EOL portions of the value chain, data platform providers, civil society, consumer protection groups and regulatory agencies need to collaborate on developing secure data exchange

How can a circular battery economy benefit raw material extraction markets?

Help new industries and transition workers to higher-skilled, higher-paying jobs. Raw material extraction markets, and their workforce, must be enabled to benefit from a circular battery economy in a way that has not occurred in the current battery value chain - namely, capturing the returns

Should EV manufacturers supply batteries to other EV companies?

For an EV manufacturer that has the ability to produce batteries, such as BYD, it is optimal to supply batteries to other EV manufacturers and satisfy their entire orders due to the rapid technology improvement and decline of battery price in the EV industry.

RePurpose Energy, for example, installs upcycled EV batteries in large container units (Figure 3), delivering up to 1.2 MWh of capacity for commercial, industrial, and ...

Power capacity and energy storage look different for different technologies as shown in Figure 2. Different applications of energy storage systems require systems with different power ...

Battery Swapping Service Intelligent Equipment Center Software Center Energy Storage Business. ... technology service company specializing in the construction and operation of ...

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They have invested in upstream areas, such as financial services, flexible mobility solutions and charging infrastructure. Whereas in downstream areas, they have targeted raw material production, artificial intelligence ...

We help clients navigate the global energy transition; plan and implement solar, wind, storage, biomass, geothermal, waste-to-energy, and hydropower systems; and optimize operations ...

The downstream industrialization of nickel as reflected through the construction of the Electric Vehicle Battery Factory is a mandate from the current regulation, Presidential Regulation Number 55 of 2019 on the ...

Mobility has been dominated by combustion engines and fuelled by oil companies. Regulation, customer demand and technological development, are pushing electricity as a mobility power ...

As a heavy-asset industry, downstream customers adopt a project bidding model, and companies that have binding cooperative relationships with downstream customers are expected to benefit. ... In 2022, the total scale of electric energy ...

In 2022, SUNGROW POWER's energy storage business revenue surged by 222.74%, reaching 10.126 billion yuan, with revenue proportion increasing from 13% in 2021 to ...

We support many companies in the EV charging sector including Auto OEMs, Energy Companies, Investors, eMobility Service Providers, Manufacturers, Chargepoint Operators and Policy ...

like energy storage ("second life"); then recycled, ... - Downstream industry demand: Recyclers need nearby industries, such as battery ... L., et al. (2021). Circular Business Models for ...

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