

Economic model of second-life lithium battery energy storage



Overview

We present a techno-economic model of a solar-plus-second-life energy storage project in California, including a data-based model of lithium nickel manganese cobalt oxide battery degradation, to predict its capacity fade over time, and compare it to a project that uses a new.

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Second-life battery energy storage system for energy sustainability

The novel innovation of this review is to provide an in-depth analysis of second-life LIB batteries with an emphasis on the key degradation mechanism and several battery remaining

Economic Optimal Power Management of Second-Life Battery

This paper proposes an economic optimal power management approach to ensure the cost-minimized operation of SL-BESS while adhering to safety regulations and maintaining a balance between the



The Global Risks Report 2026 , World Economic Forum

The Global Risks Report 2026 analyses global risks through three timeframes to support decision-makers in balancing current crises and longer-term priorities.

Economic and Environmental Feasibility of Second-Life Lithium-Ion

To address both the need for a fast-charging infrastructure as well as management of end-of-life EV batteries, second-life battery (SLB)-based energy storage is proposed for EV fast





Economic Optimal Power Management of Second-Life Battery Energy

The presented model allows us to quantify the capacity fading for second-life battery packs for different operating temperatures and C-rates.

[Davos: What to know about jobs and skills transformation](#)

Frontier technologies such as AI are transforming jobs and skills. Here are the top trends to know at the World Economic Forum's Annual Meeting 2026.



Mathews et al_Solar + Second Life_vsub

We present a techno-economic model of a solar-plus-second-life energy storage project in California, including a data-based model of lithium nickel manganese cobalt oxide battery degradation, to

Techno-Economic and Environmental Viability of Second-Life EV

This study assesses the techno-economic and environmental viability of second-life battery energy storage systems (SLBESS) in a California commercial building, using one year of



[Davos 2026: Special address by Mark Carney, PM of Canada](#)



In charts: 7 global shifts defining 2025 so far , World Economic Forum

2025 has been marked by significant global shifts, including increased geopolitical instability, the accelerating impact of AI and a changing labour market.



The Future of Jobs Report 2025

Learn how global trends like tech innovation and green transition will transform jobs, skills, and workforce strategies in The Future of Jobs Report 2025

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[Techno-economic Analysis of Second Life Electric Vehicle](#)

It presents a comprehensive analysis of the economic feasibility of using second-life EV batteries as stationary energy storage.

The key economic takeaways from Davos 2026 , World Economic Forum

The key economic takeaways from Davos 2026 show resilience in the global economy after a turbulent year, even as experts warn that underlying pressures are starting to emerge.



GDP: What is it and why does it matter?

GDP has been used as a measure of economic growth since 1937. But the need for wellbeing metrics is bringing its relevance into question. Know what is GDP and why it matters.

Techno-economic analysis of second-life lithium-ion batteries

This paper deals with a techno-economic tool that allows to model a microgrid connected to the electrical grid and composed of photovoltaic solar panels, a second life lithium-ion battery and power



[Second-Life Battery Storage Systems Market \(2025\)](#)

Consumer preference for decentralized energy solutions and the gradual shift toward circular economy models contribute to expanding adoption,

World Economic Forum Annual Meeting

The Annual Meeting 2026 of the World Economic Forum will take place at Davos-Klosters from 19th to 23rd January.





[A survey of second-life batteries based on techno-economic](#)

In addition to the technical challenges, this paper also analyzed the economic perspective of SLBs, highlighting the impact of accuracy in second-life SOH estimation and RUL extension on

[The global price tag of war in the Middle East](#)

The Iran war's cascading economic fallout is radiating well beyond the Persian Gulf and the wider Middle East, reshaping markets and supply chains potentially for years to come.



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