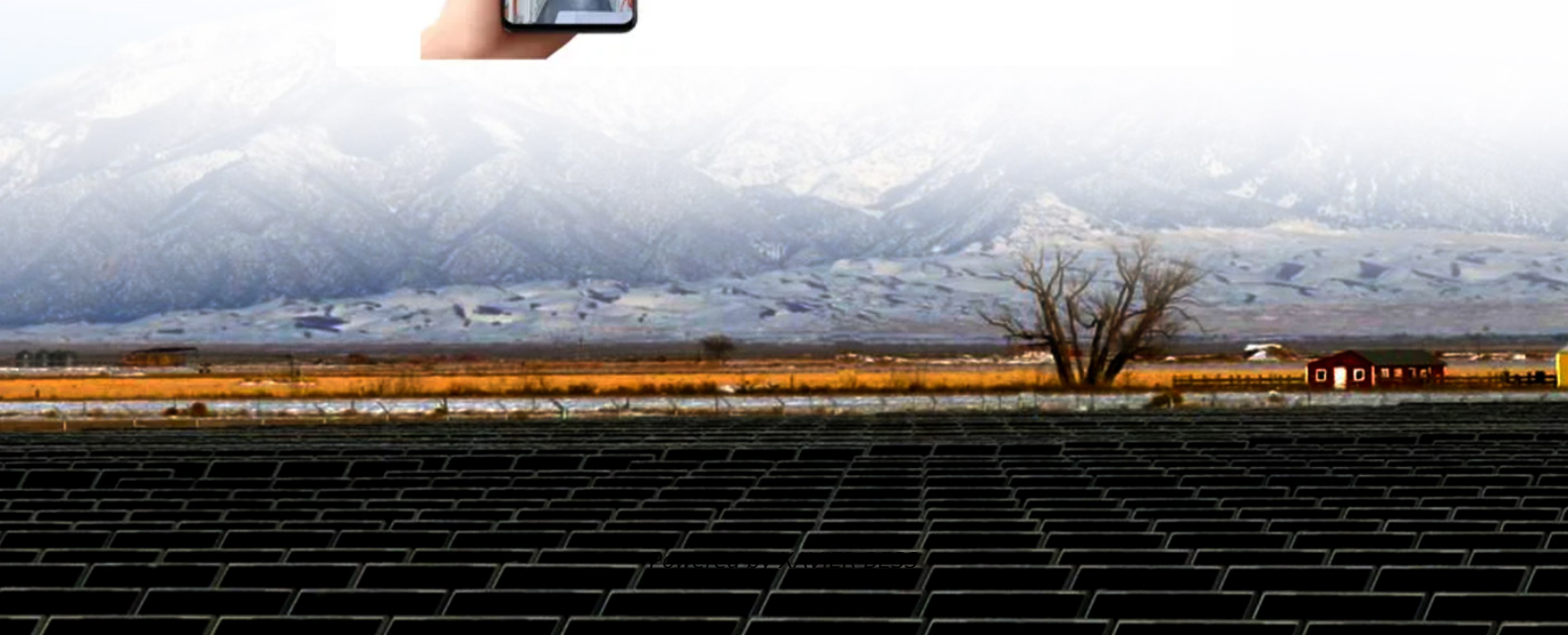


Environmental impact assessment of lithium battery energy storage



Overview

This thesis provides an assessment of the life-cycle environmental impact of a lithium-ion battery pack intended for energy storage applications in 16 different impact categories.

Environmental impact assessment of lithium battery energy storage



[Estimating the environmental impacts of global lithium-ion battery](#)

Understanding the environmental impact of electric vehicle batteries is crucial for a low-carbon future. This study examined the energy use and emissions of current and future battery

Environmental Assessment of Lithium-Ion Battery

This review analyzed the literature data about the global warming potential (GWP) of the lithium-ion battery (LIB) lifecycle, e.g., raw material mining, production,



EPA in Florida , US EPA

Portal for news and information about EPA's efforts in Florida and Hot Topics, Environmental Information, Events, Public Notices and Press Releases, Recent News, Federal &

[Environmental Impact Assessment in the Entire Life Cycle of Lithium](#)

The growing demand for lithium-ion batteries (LIBs) in smartphones, electric vehicles (EVs), and other energy storage devices should be correlated with their environmental impacts from



[Life Cycle Assessment of a Lithium-Ion Battery Pack for Energy](#)



Laws & Regulations , US EPA

Overview of EPA's law and regulatory information, including complying with and enforcing environmental regulations.

This thesis provides an assessment of the life-cycle environmental impact of a lithium-ion battery pack intended for energy storage applications in 16 different impact categories.



U.S. Environmental Protection Agency , US EPA

Website of the U.S. Environmental Protection Agency (EPA). EPA's mission is to protect human health and the environment.

[Life cycle assessment of lithium-based batteries: Review of](#)

This review offers a comprehensive study of Environmental Life Cycle Assessment (E-LCA), Life Cycle Costing (LCC), Social Life Cycle Assessment (S-LCA), and Life Cycle Sustainability



[Environmental Impact of Lithium-Ion Battery Fires vs Other](#)

Research comparing air, water, and soil impacts of lithium-ion battery fires in Energy Storage Systems (ESS) with other common fires.

Environmental Topics , US EPA

EPA's resources on environmental issues include research, basics, what you can do, and an index

covering more specific terms.



[Environmental Impact Assessment in the Entire Life Cycle of](#)

This review paper analyses and categorizes the environmental impacts of LIBs from mining their constituents, their usage and applications, illegal disposal, and recycling.



Environmental Justice Strategic Plan

The goals, objectives, priority actions, and metrics identified in this EJ Strategic Plan are rooted in the agency's historic commitment to environmental justice, as demonstrated by over 32 years of



[Life cycle environmental impact assessment for battery-powered](#)

As an important part of electric vehicles, lithium-ion battery packs will have a certain environmental impact in the use stage. To analyze the comprehensive environmental impact, 11



Environmental health

Healthier environments could prevent almost one quarter of the global burden of disease. The COVID-19 pandemic is a further reminder of the delicate relationship between people and our



[EPA is Racking Up Massive Environmental](#)



[Environmental impacts, pollution sources and pathways of spent](#)

Lithium-ion batteries (LIBs) are permeating ever deeper into our lives - from portable devices and electric cars to grid-scale battery energy storage systems, which raises concerns over the safety and



[Accomplishments Under](#)

Learn about the major strides EPA has taken to safeguard human health and the environment, ensuring clean air, land, and water for every American under the Trump Administration.



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