

# RESEARCH ON THE STRATEGIC TRANSFORMATION OF LITHIUM MINE ENERGY STORAGE



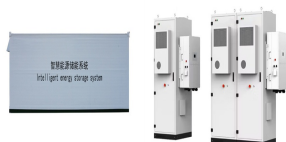
Does discursively framed lithium affect the socio-environmental implications of lithium extraction? It finds that apart from the research on negative socio-environmental implications of lithium extraction, the way lithium is discursively framed plays an influential role in governing its extraction.



Is lithium a sustainable resource exploitation? The ???environmentally benign and climate-friendly extraction discourse??? promotes lithium extraction as ???sustainable, contemporary, responsible, reflexive, and adapted to the 21st century??? . In this regard, Barandarian reports that lithium gets contrasted with past resource exploitations in the lithium triangle countries.



Does lithium mining pose socio-environmental challenges posed by global climate goals? The findings underscore the need for more sustainable extraction policies and equitable governance mechanisms that account for the socio-environmental challenges posed by lithium mining in the context of global climate goals. 1. Introduction



How are investment trends shaping the future of lithium-ion batteries? Investment trends also play a vital role in shaping the future of lithium-ion batteries. The increasing demand for electric vehicles, renewable energy integration, technology development. Collaborations between battery manufacturers, research institutions, and governments are fostering innovation and accelerating the scale-up of production .



Why is lithium so important? The global push towards renewable energy has surged the demand for lithium, which is vital for manufacturing batteries that power electric vehicles and stabilize energy grids.

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Is lithium the next big resource? The state discourses portrayed lithium as the ???next big resource??? and Bolivia ???as the Saudi Arabia??? of lithium . Those narratives have shaped lithium as a strategic asset, embedding it in the public's imagination as the next major national resource???????the jewel of the salt flats.???



In this article, we first present the potential of lithium, both as a stra-tegic resource as well as for industrial development in Argentina. Next, based on extensive field research in the region, we ???



Lithium has a broad variety of industrial applications. It is used as a scavenger in the refining of metals, such as iron, zinc, copper and nickel, and also non-metallic elements, ???



In recent years, strategic mineral resources have played an important role in ensuring China's economic security and the development of strategic emerging industries. Especially with the ???



Consequently, lithium serves as a crucial input for the advancement of energy storage batteries, specifically lithium-ion batteries, which are indispensable for electric vehicles and other energy

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An increased supply of lithium will be needed to meet future expected demand growth for lithium-ion batteries for transportation and energy storage. Lithium demand has tripled since 2017 [1] and is set to grow tenfold ???



At present, the energy density of the mainstream lithium iron phosphate battery and ternary lithium battery is between 200 and 300 Wh kg ???1 or even <200 Wh kg ???1, which ???