

How can Sudan transform its energy sector?

A comprehensive package of technical and financial assistance will be needed to transform Sudan's energy sector. This will involve the development of risk management strategies that effectively promote public and private investments into scaled-up sustainable energy solutions.

Does consumer environmental protection awareness affect the recycling price of waste power batteries?

Therefore, under the two recycling modes of new energy vehicle manufacturers and third-party recycling enterprises, this study analyzes the impact of consumer environmental protection responsibility awareness on the recycling price of waste power batteries and profit in the supply chain.

Should the government prohibit waste lithium-ion batteries from entering the informal market?

(3) The government should strictly prohibit waste lithium-ion batteries from entering the informal market and crack down on informal workshops so as to encourage the healthy development of the waste power battery recycling industry to gradually get on the right track and enter into a new era. In addition, there are some shortcomings in this paper.

Which countries are responsible for recycling batteries?

The regulatory action of the USA, Germany, Japan and China on spent batteries is summarized by Fan et al. . Most of these policies are constrained to the responsibility of the manufacturer and the recycling companies but omit the consumer's. Additionally, in the case of the USA framework, recycling policies are not unified at the state level.

Who is responsible for power battery recycling in China?

Although the framework of the power battery recycling system in China is becoming more and more mature [10], the law still mainly focuses on new energy vehicle manufacturers and battery manufacturers, and it ignores the other stakeholders in the power battery recycling process, especially consumers, who are the source of power battery recycling.

How to promote the recycling of NEV batteries?

Positive and effective incentive policies can promote the recycling of NEV batteries. The government should encourage relevant enterprises in the market to establish a comprehensive recycling system while attracting consumers to actively participate in battery recycling.

With the "scrap tide" of power batteries in China, the resulting resource and environmental problems will become increasingly apparent. If the batteries of retired new-energy vehicles are not effectively recycled, it will cause a great waste of resources [1], as surplus electricity is a crucial factor that affects the development of stand-alone renewable energy ...

"Renewable energy and further steps towards expanded use, are critical to unlocking Sudan's development potential, particularly in agriculture, tackling poverty and gender inequality and empowering a new Sudan. Steps like a National Solar Fund are a concrete way to achieve this," she explained.

Non-recyclable combustible municipal solid waste and other urban organic waste streams can be used to provide low-emission baseload electricity and a cost-effective supply of heat for...

The situation in South Sudan, the world's newest country, is unique. It does not have any real existing energy infrastructure. The government is roiled by factionalism and corruption, and unable to control large areas of its territory, which is divided into diverging tribal groups and significant parts are difficult to access, creating an effective degree of autonomy.

This paper presents an overview of the potential for municipal solid waste to be used as an energy source in Khartoum State in Sudan. The renewable energy technologies in Sudan seem to be on hydropower and electricity from solar and wind systems; the economics and flexibility of waste-to-energy are most favorable due to the use of ...

With the expansion of the new energy vehicle market, more and more batteries will be scrapped. This paper will study how to use the "Internet +"; recycling mode to reasonably recycle these batteries in order to reduce environmental ...

Battery recycling is an important aspect of the sustainable development of NEVs. In this study, we conducted an in-depth analysis of the current status of research on NEV battery recycling from a new perspective using bibliometric methods and visualization software.

Sudan faces many energy development challenges brought about by high electricity subsidy levels and climate-induced impacts on hydroelectric generation which has been decreasing at ...

Dongguan ZWAYN New Energy Co., Ltd was established in 2011, which is a clean and green energy manufacturer factory of lithium batteries for solar, telecom base, EV, scooter, golf cart, marine, CCTV, etc. NCM lithium batteries and LiFePo4 batteries ...

Sudan faces an electricity supply shortage despite its abundant natural resources. This paper aims to manage these resources for sustainable power generation to meet Sudan's electricity demand ...

Sudan faces a problem with limited fossil fuel resources and. an increase in waste accumulation as population growth and economic development play. an important role in increasing solid ...

For example, Shanghai introduced the interim measures of Shanghai Municipality for encouraging the purchase and use of new energy vehicles to encourage EV manufacturers to recycle waste batteries in 2014. According to the measures, the EV manufacturers will receive 1000 yuan subsidies if recycling a set of waste

EV battery. ...

used through waste to energy technologies. This study aims to develop the engineering. waste dump in the Faculty of Engineering, Sudan University of Science and Technology, which was designed in October 2017 in the form of a trapezoid with dimensions (2 * 1.75 * 1.4) to provide a suitable technical solution for both the waste and energy sectors by

When paired with currently reported contaminants, the new generation of energy storage devices may prove a challenging case for the proper management of waste streams to minimize ecological impact. To our knowledge, the present work is the first one to integrate metal nanostructures, carbon-based nanomaterials and ionic liquids in the context ...

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Freshwater resources have faced serious threats in recent decades, primarily due to rapid population growth and climate change. Seawater desalination has emerged as an essential process to ensure a sustainable supply of freshwater to meet the global demand for freshwater. However, this approach has some shortcomings, such as the disposal of brines ...

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