

# RESEARCH ON PROBLEMS AND COUNTERMEASURES IN ENERGY STORAGE DEVELOPMENT



Is energy storage a precondition for large-scale integration and consumption? So to speak, energy storage is the precondition of large-scale integration and consumption of RES. However, China's energy storage industry is at the exploration stage and far from commercialization. This restricts the development of RES to certain extent. For this reason, this paper will concentrate on China's energy storage industry.



Does China's energy storage industry have a comprehensive study? However, because of the late start of China's energy storage industry, the comprehensive study for the whole industry is very few. We found a review which provided a relatively comprehensive analysis of the technical and economic issue of it. Compared with other studies, its research has a good comprehensiveness.



Why is energy storage industry in China a big problem? Judging from the present condition, cost problem is the main barrier. And the high performance and high security of the relative technology still need to be improved. Until 2020, energy storage industry in China may not be spread massively and the key point during this period is the technology research .



How can China improve the construction of energy storage technology standard system? In the future, China should strengthen the construction of energy storage technology standard system from three aspects. First of all, quicken the pace of establishing basic standards and revising the existing standards. Technology standards, design specifications and other requirements are of the basic standards of energy storage technologies.

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How to improve the commercialization of energy storage industry in China? The above problems have constrained the commercialization of energy storage industry in China. Therefore, we should take relevant measures, including reducing costs by all means, perfecting technical standards, establishing advanced benefits assessment system, and improving relevant incentive policies. 4.1. Reduce costs by all means



How to improve energy storage technology? First of all, quicken the pace of establishing basic standards and revising the existing standards. Technology standards, design specifications and other requirements are of the basic standards of energy storage technologies. At present, some relevant standards for corporations and industry have been established and published.



This paper introduces the safety problems and countermeasures of hydrogen fuel cell vehicles and hydrogen refueling stations. Li Y. 2022. Research and development of hydrogen energy safety. Emergency Management Science ???



Under the background of the new normal of economic development and supply side reform,the number of closed/abandoned mines has increased year by year,leaving a large number of ???

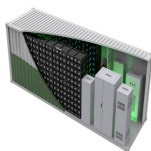


Further discussion on the scientific problems and countermeasures in the utilization of abandoned mines YUAN Liang 1,2,YANG Ke 1,2 (1 .Anhui University of Science & Technology, Huainan 232001, China ???

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In recent years, with the development of society and the progress of science and technology, energy and environmental problems have become increasingly prominent, and the new energy automobile



Technology innovation is becoming a source of power to lead the transition and development of global energy industry. The development of emerging industries in the energy field is rooted ???



Through in-depth analysis and research to the practical issues, appropriate solutions should be made to ensure the security and environmental protection of oil and gas storage and ???

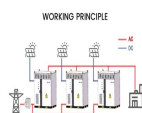


Therefore, based on the existing reviews, this paper studies the develop status, existing problems and countermeasures of the energy storage industry in China from a deeper level to further ???



Then, this paper analyzes the existing problems of China's energy storage industry from the aspects of technical costs, standard system, benefit evaluation and related policies. ???

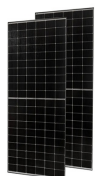
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In November 2014, the State Council of China issued the Strategic Action Plan for energy development (2014-2020), confirming energy storage as one of the 9 key innovation areas.



It is estimated that the total energy storage of green plants on the earth is roughly 8.0-10.12 t that of coal, which is more than 11 times the total available reserves of coal.



Statistics on 287 development units show that the maximum production water-gas ratio is more than 5 m<sup>3</sup>/10 m<sup>3</sup> in the history and that units strongly affected by water.



At present, the international energy situation is in a stage of new changes and adjustments [6, 7]. The basic trend of the global energy transition is to realize the transition of energy.



Currently, the technology for energy storage equipment is still under development and constant improvement so equipment currently on the market may not have the expected service life due to various factors.

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Due to environmental pollution and national energy security, China, which has successively issued many policies on new energy vehicles, has entered a period of rapid development in ???