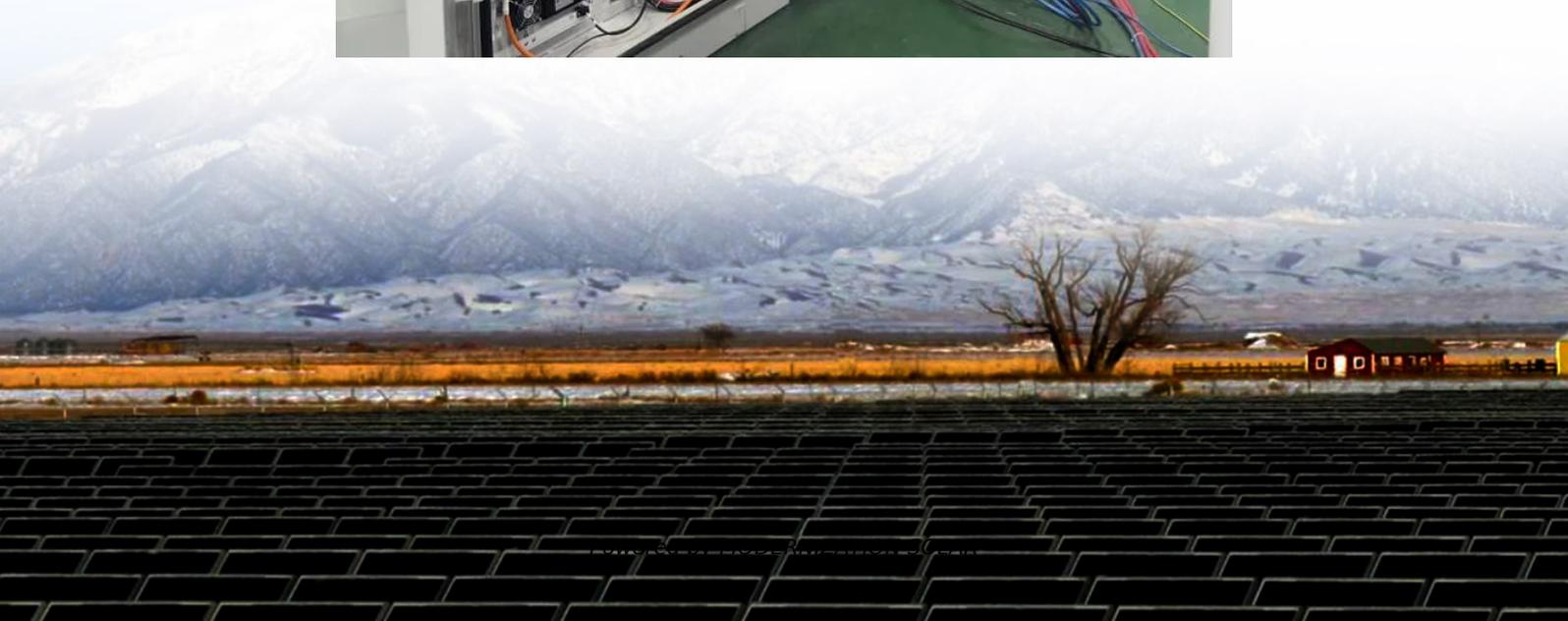


Advantages of Antimony Battery Energy Storage





Overview

Is antimony a good material?

Pure antimony material, although energy density and power density are not as good as other materials. Its simple synthesis process can bring some economic benefits. The composite modification means can realize more considerable electrochemical performance enhancement [5, 58].

Is antimony sulfide a good anode material?

Owing to its high theoretical specific capacity, effective working voltage, and abundant raw materials, antimony sulfide (Sb_2S_3) was regarded as one promising anode material for electrochemical energy conversion and storage, especially regarding alkali-ion (Li^+ , Na^+ , and K^+) batteries.

Can antimony materials be used in commercial production?

The composite modification means can realize more considerable electrochemical performance enhancement [5, 58]. Therefore, choosing pure antimony material may be one of the first choices for commercial production. In the sequel, we present applications of Sb-based anode materials and their derivatives and discuss their practical feasibility.

Can antimony be commercialized?

Considerations are made in terms of the economics of the material and the fact that it can be commercialized. Pure antimony material, although energy density and power density are not as good as other materials. Its simple synthesis process can bring some economic benefits.



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