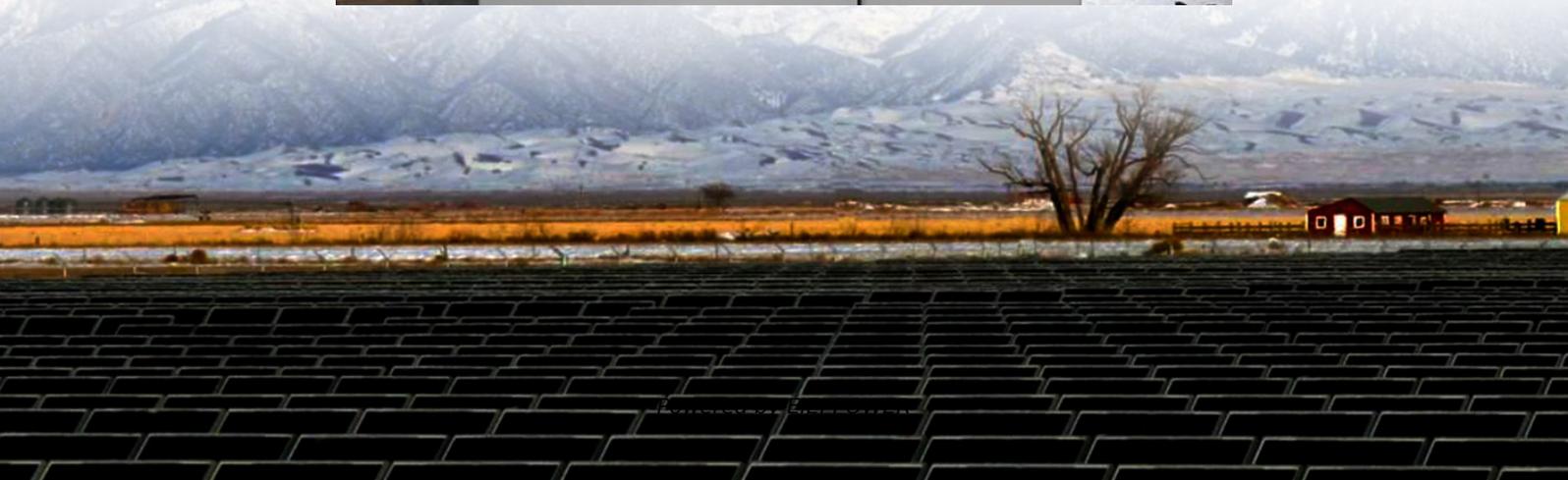


How much discount can be given to electricity bills of energy storage power stations





Overview

Should energy storage be optimised for a cheaper electricity system?

It shows that the introduction of optimised sizing can lead to electricity bill savings of roughly half a cent, with the H2 -Hub scenario contributing only to negligible more savings. As a result, increasing design freedom of energy storage can be desirable for a cheaper electricity system and should be considered while designing technology.

Do energy storage systems provide value to the energy system?

In general, energy storage systems can provide value to the energy system by reducing its total system cost; and reducing risk for any investment and operation. This paper discusses total system cost reduction in an idealised model without considering risks.

Can energy storage provide a positive net value to the electricity system?

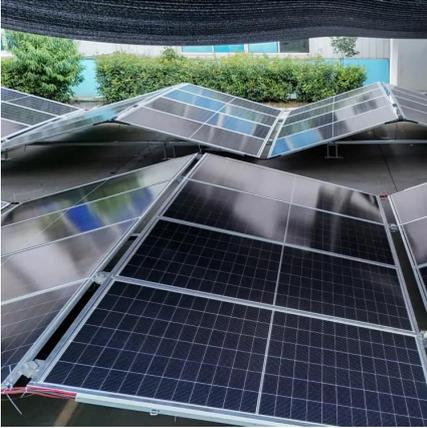
Energy storage can offer various electricity services, and while the best deployment location is unknown, behind-the-meter storage models can already provide a positive net value to the electricity system.

How many benefits can energy storage provide?

How many benefits can be delivered by energy storage depends, among others, on how future technology will be designed. Consequently, research and development (R&D) must evaluate the techno-economic design of energy storage systems to be most beneficial. A traditional technology evaluation approach is to reduce the cost of its devices [4].



How much discount can be given to electricity bills of energy storage



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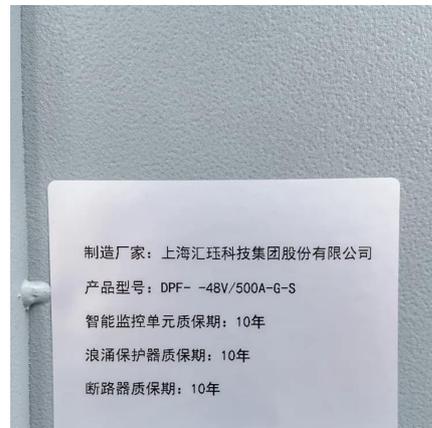
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