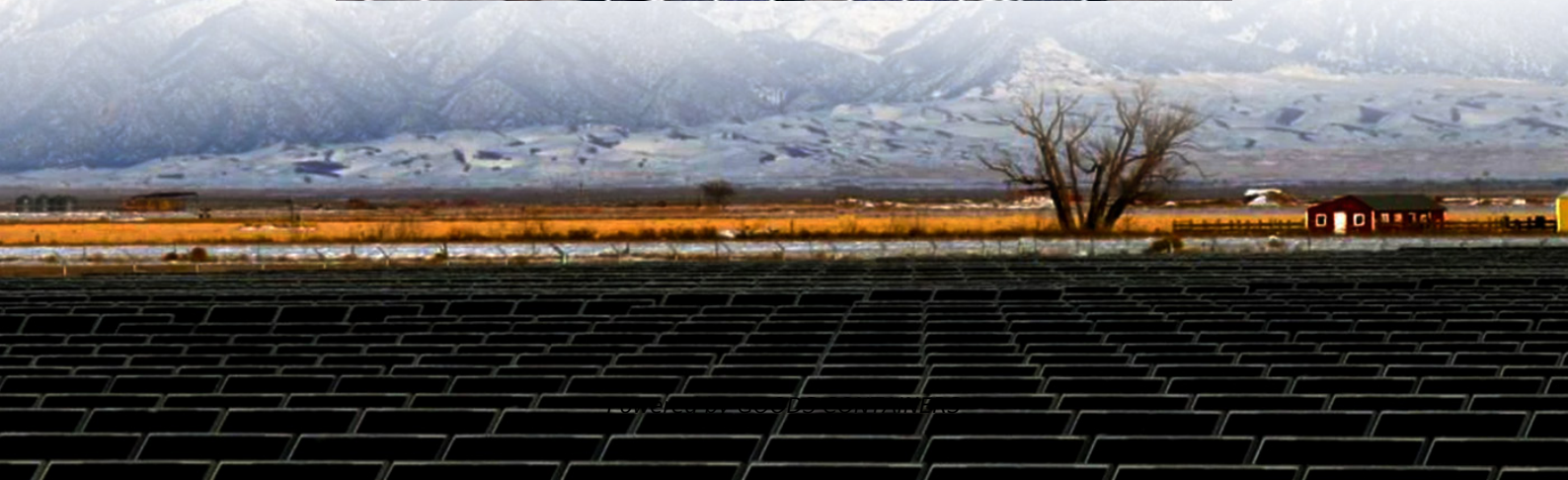


Preliminary design of solar container storage capacity scheme





Overview

What is the optimal configuration of energy storage capacity?

The optimal configuration of energy storage capacity is an important issue for large scale solar systems. a strategy for optimal allocation of energy storage is proposed in this paper. First various scenarios and their value of energy storage in PV applications are discussed. Then a double-layer decision architecture is proposed in this article.

How does storage affect solar energy production?

To begin with, solar energy production is stochastic, with a high peak-to-average ratio, thus the access link is typically provisioned at less than peak capacity, leading to the potential waste of energy due to curtailment. The use of storage prevents power curtailment, but the allocation of capital to storage reduces the amount of energy produced.

How can solar energy be stored in a storage unit?

The major challenge now a days is to store the excess energy ,when the demand is low, and reuse this energy later or when needed. This energy can be stored in a Storage unit called „Battery“. Power from grid connected solar PV units is generated in the form of few KW to several MW.

How a grid tied solar power generation is a distributed resource?

The output of a grid tied solar power generation which is a distributed resource can change very quickly. Solar power can be integrated into the grid by the help of Battery Energy Storage System .Real and reactive power can be absorbed and delivered by the photovoltaic systems with very few response times.



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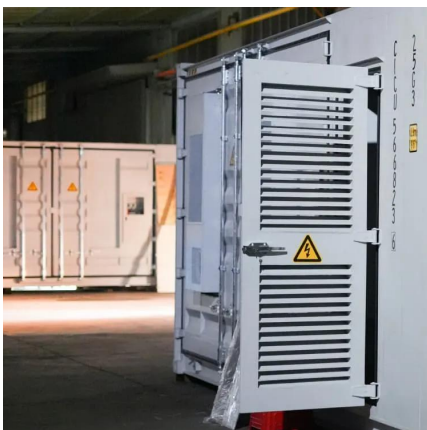
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