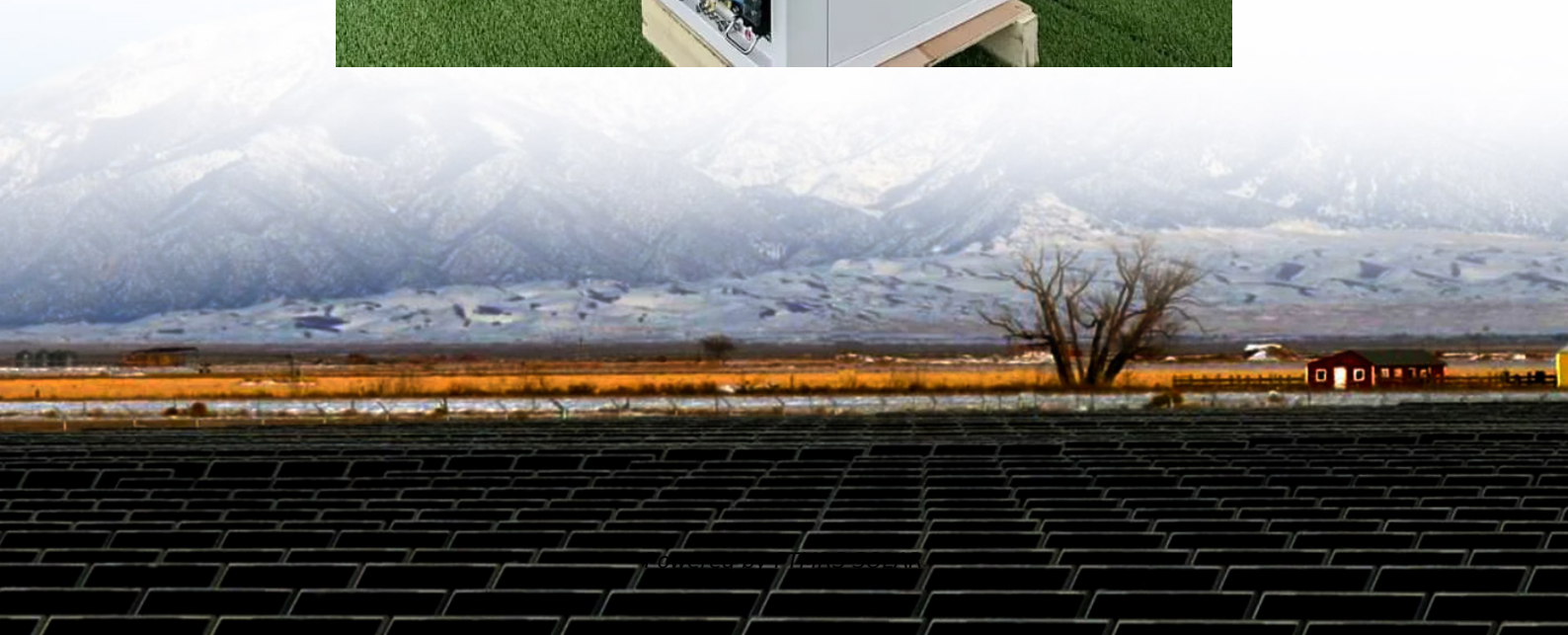


Energy storage ancillary products





Overview

What are ancillary services markets & balancing products?

The evolution of ancillary services markets (ASM) and balancing products is ongoing. The aim of the evolution is to integrate the products over the national boundaries and to open the ASM to distributed energy resources (DERs). Among DERs, battery energy storage systems (BESS) are increasing their importance.

Should ancillary services markets be regulated?

Ancillary services and ancillary services markets (ASM), originally built for conventional large-scale generation, should undergo a regulatory review to allow efficient and effective participation of distributed energy resources (DERs), including ESS [9, 10]. In other words, regulation should be able to abate regulatory barriers .

How reliable are ancillary services?

Reliability of ancillary services provision The reliability of the provided services is generally high: reliability is above 90% for 20 out of 22 relevant Cases (see bottom chart of Fig. 12). This is given by the effectiveness of the Multiservice Strategy, only bidding what can be provided.

Should ESS provide ancillary services?

When, indeed, the ESS are given the possibility to effectively provide ancillary services, they see the ASM as the core business , hence they are interested in offering flexibility at a competitive price, eventually lowering the system prices . The research so far investigated regulatory barriers on electricity markets in different ways.



Energy storage ancillary products

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