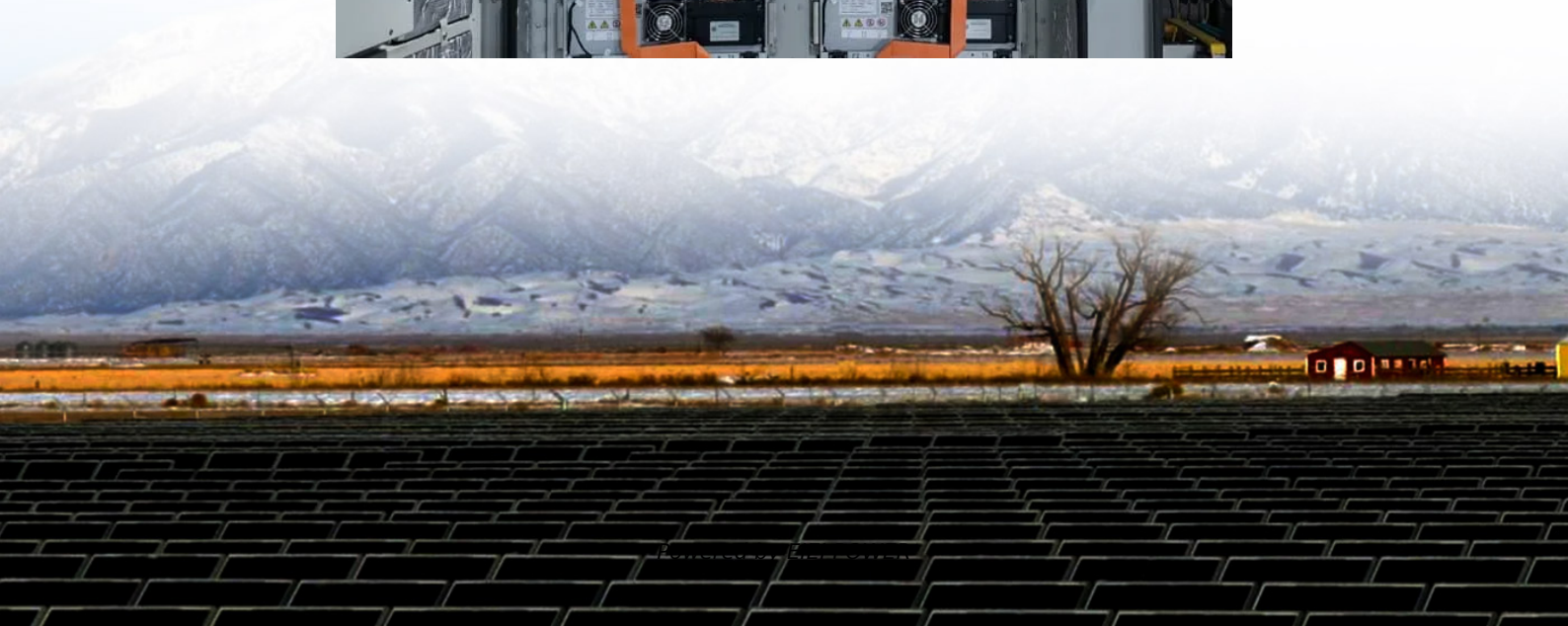


# Electrical topology of container energy storage





## Overview

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What is a D-Hest energy storage topology?

We suggest the topology class of discrete hybrid energy storage topologies ( D-HESTs ). Battery electric vehicles ( BEVs) are the most interesting option available for reducing CO<sub>2</sub> emissions for individual mobility. To achieve better acceptance, BEVs require a high cruising range and good acceleration and recuperation.

What are the four topologies of energy storage systems?

The energy storage system comprises several of these ESMs, which can be arranged in the four topologies: pD-HEST, sD-HEST, spD-HEST, and psD-HEST. Detailed investigations will be undertaken in future work to examine special aspects of the proposed topology class.

What are the different types of hybrid energy storage topologies?

The topologies examined in the scientific literature to date can be divided into the passive hybrid energy storage topology ( P-HEST ), which is presented in Section 2, and the active hybrid energy storage topology ( A-HEST ), which is presented in Section 3.

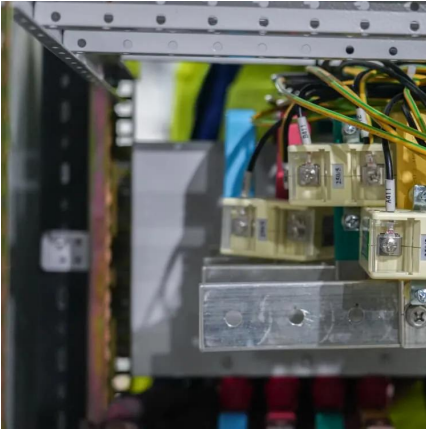
What are the basic interconnection topologies of energy storage elements?

Basic interconnection topologies of energy storage elements having the same cell type and chemistry. (a) Serial interconnection, (b) parallel interconnection, and (c) parallel–serial interconnection to increase storable energy, capacity, or ampacity and/or achieve a higher output voltage.



## Electrical topology of container energy storage

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