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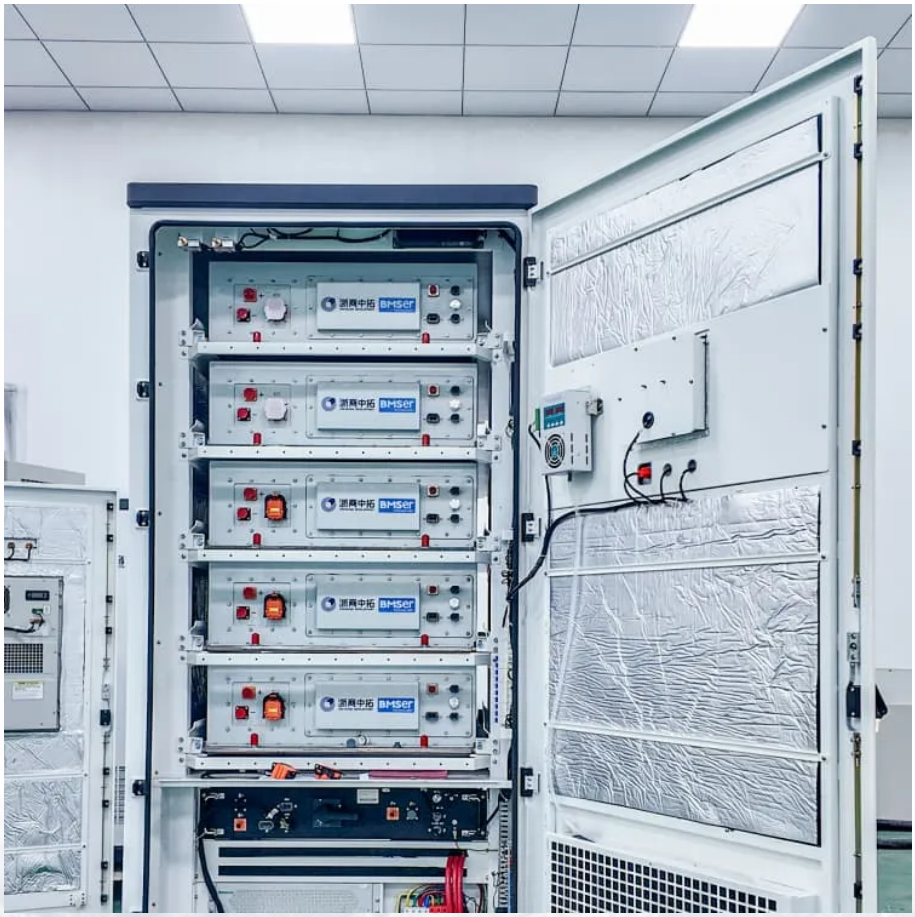
Urban Development Environmental Energy Storage Project



Overview

Can energy storage technologies improve urban energy performance?

Summary of findings and limitations The case study's results, summarized in Table 7, demonstrated that the scope and economic potential of different energy storage technologies and configurations (single and hybrid) for improving the energy performance of an urban energy community depends on (and varies with) its built context (form and function).

Does urban context influence energy storage prospects?

Case study The case study intends to demonstrate the merits of the analytical framework and exhibit the influence of urban context on energy storage prospects. It evaluates and compares the techno-economic potential of ESSs (of single and hybrid types) for improving the performance of energy communities of different urban built types.

When will energy storage projects be regulated?

The storage industry anticipates this to be passed into law in 2022, and that it will apply to projects that achieved commercial operation after December 31, 2020, reducing the risks and uncertainty in energy storage project economics.

Can urban sustainability be achieved without the transformation of the buildings sector?

The aspiration of urban sustainability cannot be materialized without the transformation of the buildings sector (IEA, 2021) because it accounts for >50 % of electricity consumption and almost 30 % of final energy consumption worldwide (IEA, 2019).

What is Doe's strategic investment in energy storage?

DOE’s strategic investment in energy storage aims to ensure that all Americans have access to energy storage innovations to enable resilient,

reliable, secure, and affordable electricity systems and supplies.

Are prosumer buildings a performance potential of urban energy communities?

An expanded version of this model (Mussawar et al., 2023) covered both the community and individual configurations of prosumer buildings to study the performance potential of urban energy communities with respect to their built form and function (land-area wise proportions of different building use-types).

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