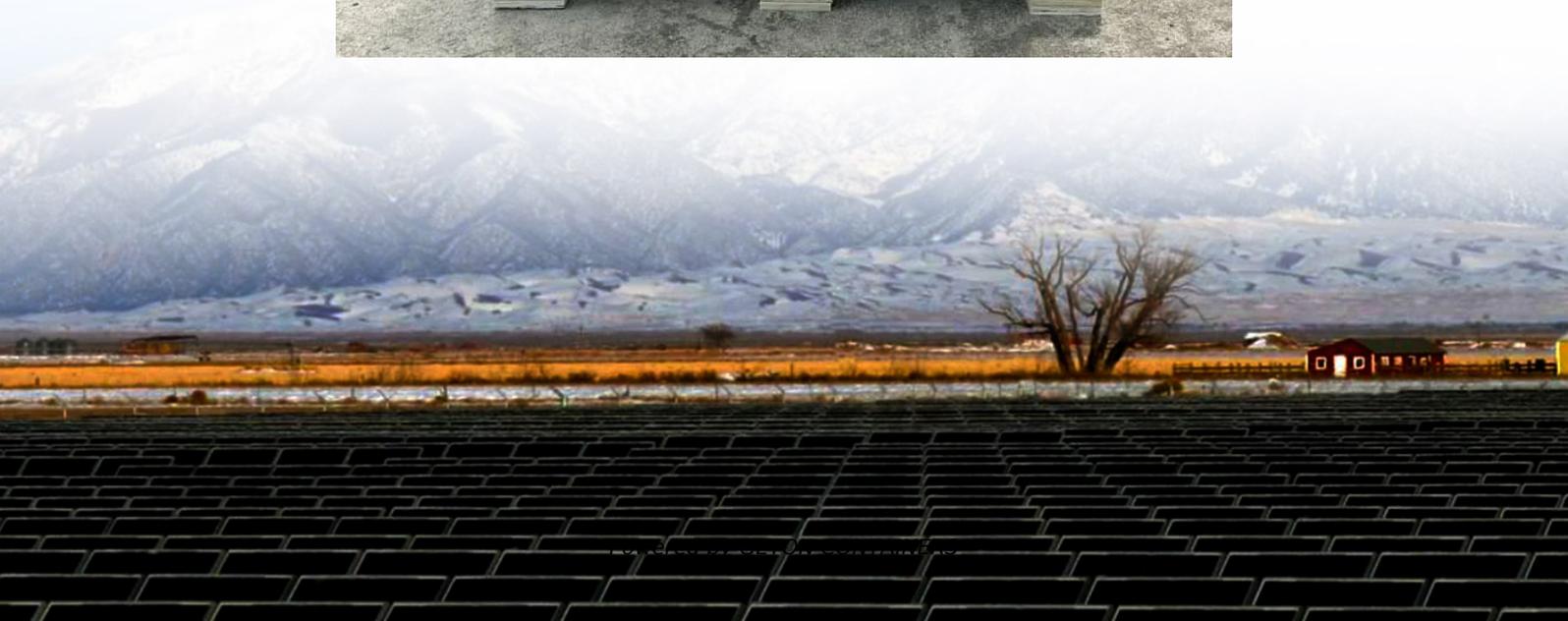


Urban energy storage power station solution





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).

What is community energy storage?

In urban areas, community energy storage serves various purposes including increasing self-consumption, enabling the seamless integration of intermittent renewables, and providing economic incentives (Barabino et al., 2023; Koirala et al., 2018; Zhang et al., 2023).

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.

Are electric energy storage systems scalable?

The former is a mature technology (Comello & Reichelstein, 2019), while the latter is an emerging technology for large-scale electric energy storage (Wei et al., 2020). ESSs based on both technologies are scalable in terms of system sizing.



Urban energy storage power station solution



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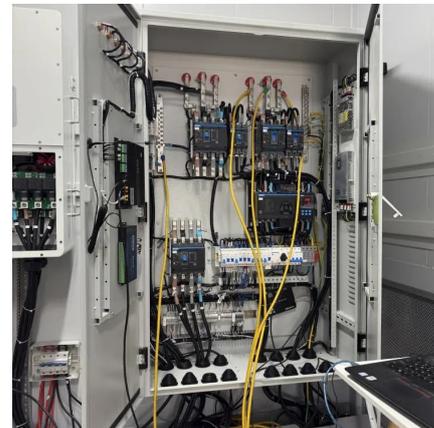
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