

The collective setup of these resources is referred to as a microgrid. Here, we carry out a survey to study the preferences of 1021 US residents on how the finite energy stored in a community ...

This paper explores the efficacy designing community microgrids around dimensions of social and energy equity. It integrates a social vulnerability index (SoVI) into a mixed-integer linear ...

Globally, around 770 million people have no access to electricity, despite electrification interventions. Standalone solutions, such as Solar Home Systems (SHS)

We introduce and apply socially focused Key Performance Indicators (KPIs) to evaluate the impact of microgrid operations on community engagement, equity, and governance. The ...

This study advances our understanding of the social dimensions involved in microgrid deployment by analyzing community responses from twelve cases of microgrid development across ...

True procedural justice moves beyond tokenistic community meetings; it involves capacity building, transparent governance structures like cooperatives or community trusts, and shared ...

Studying the factors influencing the responses on the fairness of differentiated service (for consumers) and willingness-to-sell (for storage owners), we identify for policymakers and businesses ...

The concept of a microgrid emerges as an evolution of the conventional grids, closely tied to the idea of active distribution grids (ADNs) and allowing a more flexible operation of DERs due to an increased ...

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