

The social context of microgrids



Overview

These systems are socio-technical organisms, intricate webs of human intention and technological capability. Their potential for fostering social justice within the energy transition is immense, yet their current state reveals a landscape of profound and complex challenges. The adoption of micro smart grid technology, which links solar panels, batteries, and inverters to smart meters and power regulation algorithms, by a community (e. This is what we studied in Switzerland, based on a qualitative survey (12. Community microgrids are increasingly recognized as a vital component of a resilient and equitable energy future. These localized energy grids, often powered by renewable resources and capable of operating independently from the main grid, present a compelling alternative to centralized energy. The growth of the application of dispersed energy resources (DERs)—which is a diverse definition that includes both energy storage systems (ESSs) and distributed generators (DGs), with an emphasis on those based on renewable energy sources (RESs)—and the corresponding use of highly efficient. To contemplate the community-owned microgrid is to look past the schematics of solar panels, batteries, and inverters.

The social context of microgrids



Improving the Social Acceptability of Microgrids

This is what we studied in Switzerland, based on a qualitative survey (12 semi-structured interviews and 4 focus groups) to understand the psychological and social barriers, which prevent people from ...

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The social factors shaping community microgrid operation

Here, we carry out a survey to study the preferences of 1021 US residents on how the finite energy stored in a community microgrid should be rationed amongst various participating ...



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Community-Owned Microgrids and Social Justice in Energy Transition

These systems are socio-technical organisms, intricate webs of human intention and technological capability. Their potential for fostering social justice within the energy transition is ...

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Community Microgrids Resilience and Social Equity

However, the promise of microgrids extends beyond mere technical resilience; it encompasses a significant social dimension, specifically concerning equity. Microgrids offer a ...



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Technology, people, and place in microgrids: Addressing perceptions ...

To explore the role of community engagement in shaping the social acceptance of microgrids under the lens of the Technology, People, Place and Process framework, this research ...

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Microgrid Operation and the Social Impact of Its Deployment

The cultural changes, and also the social acceptance of the microgrids, depend on the policies adopted and also on the decisions taken by the institutional actors.



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Improving the Social Acceptability of Microgrids



Abstract--The smart grid will have to occupy a prominent place in people's lives in the years to come, as the renewable energy mix desired by all governments implies a change of role from consumer to ...

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The good, the bad, and the unplugged: Community reactions and key

Our aim is to better elucidate the social and community aspects of microgrid development - identifying responses to microgrids, the factors that drive these responses, and their influence on ...

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Public support for mobile community microgrids: Socioeconomic

As climate-induced disasters increasingly compromise electric grid reliability, mobile community microgrids (MCMs) have emerged as a promising strategy to strengthen local energy resilience. This ...

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