

Title: Hezhang Microgrid

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This paper studies networked HE microgrids planning (NHEMP), considering a critical but often-overlooked issue, i.e., the demand-inducing effect (DIE) associated with infrastructure development decisions.

Abstract: The development and utilization of hydrogen hold the potential to revolutionize new power systems by providing a clean and versatile energy carrier. This paper presents a practical hydrogen-integrated microgrid ...

He and Y. A. Shamash, " Quantum Annealing-Infused Microgrids Formation: Distribution System Restoration and Resilience Enhancement," IEEE Transactions on Power Systems, vol. 40, no. 1, pp. 463-475, Jan. 2025.

In this paper, an optimal operation model for a microgrid with hydrogen energy storage system is developed. The efficiency-power model of the electrolyzer is established based on linear interpolation to ...

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To replace diesel generators with high fuel cost and serious environmental pollution, in this paper we propose a technical solution to construct a zero-carbon microgrid based on hydrogen storage in ...

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The mathematical modeling of the key components in the microgrid, including renewable generation, battery energy storage, hydrogen system components, PHEV integration, and energy ...

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