

Abstract

24th IERE General Meeting and PLN Indonesia Forum
November 19–22, 2024

Key Technologies and Applications of the Energy Internet for New Urban

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Keywords: *New Energy Consumption, low-carbon economic optimization dispatch, Industrial User Demand Response*

Abstract

This presentation focuses on the key technologies and applications of the Energy Internet in new urban development. It highlights the integration of various energy systems, such as electricity, heating, and cooling, to enhance energy efficiency, promote renewable energy use, and reduce operational costs. With China's urban energy systems facing challenges like low energy efficiency and insufficient clean energy utilization, the shift from single-source to multi-energy interconnected systems is crucial. Solutions proposed include a new multi-energy planning framework, coordination of energy stations, and the development of advanced optimization and evaluation methods. Demonstration projects in Beichen, Tianjin, and Yangzhong, Jiangsu, have shown notable improvements in energy efficiency and clean energy utilization, making a significant contribution to urban energy transformation.