

Title: Smart Microgrid Profit Model

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Validation on a modified IEEE 33-bus RDN confirms that the proposed model enhances VPP placement and sizing, leading to improved economic, operational, and resilience metrics.

Return on Investment (ROI) - The yearly ROI for the optimal microgrid portfolio. o Cumulative Non-Discounted Cashflow - Cashflow without consideration for time value of money. Can be projected ...

In order to improve the consumption of DREs and the profit of a microgrid efficiently, an operating mechanism consisting of two stages is proposed to dispatch DREs, responsive loads and plug-in ...

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Microgrids (MGs) provide a promising solution by enabling localized control over energy generation, storage, and distribution. This paper presents a novel reinforcement learning (RL)-based ...

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This paper presents a multi-objective optimization approach for the pricing of a time-of-use (TOU) demand response program in a smart microgrid (MG), addressing the perspectives of the MG ...

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