



# Microgrid Optimization

# Multi-source

# Intelligent

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In contrast, IMOPSO ensures coordinated control and effectively balances economic efficiency, environmental sustainability, and operational safety. This study provides a robust

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This study focuses on the management and optimization of a low-voltage microgrid with a multi-source (wind, PV, diesel generator) and multi-load (DC and AC) configuration, coupled with an

Article Open access Published: 08 April 2026 An improved sinh cosh optimizer for optimal scheduling of a microgrid with multi-energy resources and storage considering different weather

Abstract: To address the insufficient scheduling economy of microgrids caused by renewable energy output fluctuations and the time-of-use (TOU) electricity pricing environment, a multi-source

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