

عنوان مقاله:

Modeling and Optimization of Microgrid Considering Emissions

محل انتشار:

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خلاصه مقاله:

In this paper, the optimum design for a microgrid system is proposed. The microgrid is independent from the power grid, operating in a stand-alone state. Wind, solar, diesel generators and batteries are distributed resources supplying power to the microgrid. The design is optimized on both cost considerations and performance of the power system. Sensitivity analysis is performed in order to explore the effect of uncertainties. Case study and simulation results are presented and discussed in this paper.

کلمات کلیدی:

Hybrid system, Microgrid, NPC, Optimization, Renewable energy

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