عنوان مقاله:

Optimal probabilistic scheduling of charge/discharge EV stations in micro-grid considering renewable energy generations uncertainties

محل انتشار:

سومین کنفرانس ملی پژوهش های نوین در مهندسی و علوم کاربردی (سال: 1400)

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خلاصه مقاله:

The issue of simultaneous planning of electric vehicles and distributed generation resources has received more attention from energy researchers in recent years. Scattered renewable sources do not have a certain amount of production and, according to research, follow possible mathematical functions. Renewable energy sources are modeled on wind and solar production, both of which are moderately generated per hour. In this study, using particle aggregation algorithm and with proper microgrid planning and charging / discharging of electric vehicles, the profitability of the microgrid operator increased to an acceptable level, the voltage profile was improved and network .losses were reduced. Finally, the results curves and tables show the efficiency of the proposed method

کلمات کلیدی:

energy generations uncertainties, micro-grid, DC microgrids

لینک ثابت مقاله در پایگاه سیویلیکا: