

عنوان مقاله:

Optimal Wind Thermal Operation Scheduling considering Demand Response Programs

محل انتشار:

ششمین کنفرانس ملی پژوهش های کاربردی در مهندسی کامپیوتر و فناوری اطلاعات (سال: 1398)

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خلاصه مقاله:

Due to population growth, there is no doubt of high rate of energy consumption within future years coming. The growing challenges related to energy supplement and price increments of fossil fuels and widespread efforts for reducing greenhouse gases release end in using renewable sources. Using wind-powered sources encounters power system operators with challenges and results in less trust-ability of such systems. With the emerge of smart grid, Demand Response (DR) Programs and Demand Side Management (DSM) are becoming more important. So, in this paper, the effect of DR program is analyzed and the proposed model is established from operator's point of view. Obtained results are achieved from economic and environmental points of view, and the role of different DR programs in reducing costs of operating system and emission reduction is evaluated. The results imply that using DR programs is beneficial for the systems and the DR program established and level of consumer's partnership are of paramount importance in the efficiency of DSM.

کلمات کلیدی:

Demand Response Programs (DR), Time Of Use (TOU), Real Time Pricing (RTP), Emergency Demand Response Programs (EDRP), Stochastic scheduling

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