عنوان مقاله:

The Effect of Thermal Rnergy Storage in Multiple Energy Networks on the Economic Performance of CHP

محل انتشار:

هشتمین کنگره ملی تازه های مهندسی برق و کامپیوتر ایران (سال: 1400)

تعداد صفحات اصل مقاله: 6

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خلاصه مقاله:

One of the most significant problems of distribution networks is supplying energy requirements of customers. In the past, different energy requirements of customers were supplied by independent energy networks. Nowadays, customers are supplied by dependent energy infrastructures. Combined Heat and Power (CHP) is considered as a well-known technology to fulfill this goal. CHP allows integration of different energy networks such as gas, electricity and heat. Integration of different energy networks not only uses for energy requirements, but it also reduces the operation costs of customers in energy distribution networks. In this paper, effects of CHP components such as boiler and thermal storage are evaluated on operation of CHP's performance in a proposed energy hub. Furthermore, the coupled electricity and gas networks are scheduled when CHP and its components are connected to the energy .networks

کلمات کلیدی:

Multi Carrier Energy Networks, CHP,Thermal Storage, Coupled Electricity and Gas Networks