

## عنوان مقاله:

The effect of installing CHP and ESS on distribution networks

## محل انتشار:

سومین کنفرانس بین المللی مهندسی برق (سال: 1397)

تعداد صفحات اصل مقاله: 10

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## خلاصه مقاله:

The average efficiency of a power generator is about 35% and the average efficiency of a boiler is 90%. While the average efficiency of a CHP system is above 85%. The CHP is usually located at place of consumer and the losses due to the transmission line disappear. CHP fuel is of a kind of gas and it consumes less fuel than similar systems, it has less pollution than other systems. The study was conducted on an IEEE 33-bay network, and active and reactive loads are planned as a 24-hour scheduling. The results show the performance of the system in terms of losses and voltage profiles. Particle swarm optimization (PSO) has also been used to optimize and solve this problem. Also, in this paper, the effect of energy storage system is investigated

## کلمات کلیدی:

CHP, voltage profiles, reduce losses

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/831578>

