

عنوان مقاله:

ENERGY SAVING BY MOTOR DRIVE IN WASTEWATER TREATMENT PLANT OF TABRIZ

محل انتشار:

ششمین کنفرانس بین‌المللی مسائل فنی و فیزیکی در مهندسی قدرت (سال: 1389)

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خلاصه مقاله:

Permanent almost all electricity in the Iran is generated by rotating electrical generators in Power Plant, and approximately half of it is used to drive electrical motors in industrial base. This means if we used any equipment to increased efficiency of electrical motors, it leads to very large positive impact on energy saving. The key challenges to increased efficiency in systems driven by electrical machines lie in three areas: to extend the application of variable-speed electric drives into new areas through reduction of power electronic and control costs; to integrate the drive and the driven load to maximize system efficiency; and to increase the efficiency of the electrical drive itself. In the short to medium term, efficiency gains within electrical machines will result from the development of new materials and construction techniques

کلمات کلیدی:

Electrical Efficiency, Continuous Drive, Variable-Speed Drive, Energy Saving

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