

عنوان مقاله:

Modification of Co-generation Plant in a Sugar Cane Factory

محل انتشار:

ششمین همایش ملی انرژی (سال: 1386)

تعداد صفحات اصل مقاله: 5

نویسنده:

Abtin Ataei - Department of Environment and Energy, Islamic Azad University, Tehran Science and Research Branch

خلاصه مقاله:

In contrast to the other industries, the sugar industry can generate surplus power by modification of their Co-generation plants [1]. Co-generation option has been adopted in many of the sugar mills, with substantial additional revenue for the mills [1,2]. This also contributes to serve the national cause in a small way, by bridging the 'Demand-Supply' gap. This modification contains high pressure steam production and minimization of process steam demand. The bagasse can be fired in the boiler as a biofuel, for producing high pressures steam, which is extracted through various backpressure turbines and used in the process [1,2,3]. By improvement of sugar factories CHP plants, selling additional power to national grid will be possible. This also offers an excellent opportunity for the sugar mills to generate additional revenue. For process low pressure steam demand minimization to add power production in CHP plant, replacement of steam driven mill drives with electric DC motors as a major process steam consumer, has been considered.

کلمات کلیدی:

Bagasse, CHP plant, back-pressure turbine, Process Steam, DC Motors

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