Development program for heat balance analysis fuel to steam efficiency boiler and data wireless transfer

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ABSTRACT
This research aim to improve a combustion system of boiler within increase combustion efficiency and use all out of the energy. The large boilers were used in the industrial factories which consume a lot of energy for production. By oil and gas fuel will be increasing costs everyday cause many factories interested in energy saving with any method technical engineering, specifically for production costs and environment effect decreasing. This researching was installed and program was invented in the industrial factory. This industry factory consumed cogeneration energy for fabric dying. The efficiency before installing the software is measured about 65.85 - 71.98% which heat in exhaust gas about 20% of overall energy is filled in the system. After installing heat loss in the system has been fallen until remain about 5 - 12% and efficiency of heat in system has been reached a peak of 80 - 85%.

REFERENCES
Note: OCR errors may be found in this Reference List extracted from the full text article. ACM has opted to expose the complete List rather than only correct and linked references.
1 Jianmin Zhu; Zhongyu Wang; Xintao Xia, On the development of on-line monitoring and intelligent control system of the total alkalinity of boiler water, IEEE/IET journals on electrical power, Volume 4, 15-19 June 2004 Vol. 4, Page(s):3390 - 3394.


