

ON THE PERFORMANCE CRITERIA OF COGENERATION PLANTS

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ABSTRACT

The paper presents the most suitable criteria to assess the performance of the cogeneration plants. Special attention is attached to the criteria of fuel saving achieved by cogeneration. The structural and functional influences on the cogeneration plants performance are highlighted.

REFERENCES

- [1] Korobitsyn, M.A. Analysis of Cogeneration, Combined and Integrated Cycles, Febodruk BV, Enschede, Netherland, 1998.
- [2] Panait T., Uzuneanu K., Dragan M. Some aspects of optimisation of gas-steam combined plants with additional burning, International Journal of Heat and Technology, Volume 22, n.1, pg. 51-58, 2004
- [3] Bejan, A., Tsatsaronis, G., Moran, M., 1996, Thermal design and optimization, John Wiley & Sons, New York.
- [4] Erlach, B., Tsatsaronis, G., Cziesla, F., 2001, “A New Approach for Assigning Costs and Fuels to Cogeneration Products”, Proceedings of ECOS’01, Öztürk, A. and Göğüş, Y.A., ed., Istanbul, Vol. II, pp. 759-770.
- [5] Panait T., 2003, Exergoeconomia sistemelor termoenergetice. Editura Fundației Universitare “Dunărea de Jos”, Galați.
- [6] Panait, T.; Gheorghiu, C.; Uzuneanu, K.; Drăgan, M., 2002, Application de l’analyse d’exergie à l’étude des systèmes thermoénergétiques complexes, In: Travaux du Colloque Franco-Roumain COFRET’02, Université “Politehnica” Bucarest, pg. 68 – 71.
- [7] Panait T., Uzuneanu K., Drăgan M., Gheorghiu C., Exergoeconomie și protecția mediului. Termotehnica, nr. 2/2002, pag. 12-21. Revista Societății Române a Termotehnicienilor, ISSN 1222-4057.