

## **Estimation of the efficiency for the use of renewable energy sources with the need of heat energy generation.**

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This article presents an analysis of the consequences for heat supply when using renewable energy sources with the aim of replacing electric power of diesel generators in isolated power supply systems with cogeneration. A calculation is proposed to account for the consumption of coal at the boiler house, taking into account the loading of the cogeneration of diesel stations. This calculation was made for the one of facilities in the Far East.

*Keywords: wind power station, diesel station, cogeneration, autonomous energy system.*