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Rationale for the selection of optimal structure and parameters of the stand-alone wind-diesel complex.

A method of estimating the real amount of electricity, received by the consumer from wind turbine, is proposed. Taking into account the proposed method technique of optimizing the quantitative composition and the parameters of the equipment, which is part of the stand-alone wind-diesel complex, is developed. Optimality criterion of complex configuration option is results of economic efficiency evaluation of investments.

Keywords: stand-alone wind-diesel complex, equipment selection, optimization, economic efficiency evaluation.

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