

Supervisor's report on dissertation "Elements of analyzing and testing an electric power system" written by Generalov Alexey

Generalov Alexey was interested in continuing the research area from his bachelor's studies on capacitor batteries and adding the economic feasibility analysis. Alexey fulfilled all the instructions for the master's dissertation we agreed upon in the very beginning. The results of this dissertation are based on simulating the power system in the Sakhalin region.

When working with Alexey, I was making suggestions to ensure clarity and correctness. But there are some mistakes left still left in the text. For example, the second sentence of the second and fifth paragraphs in Introduction. These mistakes are understandable as English is not the student's native language.

Alexey was working diligently and independently throughout the whole year. He also submitted part of his dissertation for consideration for a poster presentation and received the recognition award.

Questions:

I must admit that the international experience of managing isolated power systems is underpresented and its overview is very superficial. Why?

My next question is related to the time of data. Many Tables do not mention the year. In particular, the sources for Tables 1 and 2 are from different years.

Explain how the probability of failure-free operation of the battery on page 58 is derived.

Finally, how can you explain the result that NPV is virtually insensitive to changes in inflation and discount rates.

These questions must be addressed during the dissertation defense.

For the dissertation I propose the classification A (excellent).

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