

# Review of: "The Application of Adjustable Magnetic Devices in Electric Power Systems"

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**Potential competing interests:** No potential competing interests to declare.

The manuscript describes the research on the tunable magnetic devices with adjustable parameter values, exploring their potential use in adaptive electric power systems. The manuscript has limited content, and the innovative points need to be further highlighted.

Please highlight your research methods and techniques further so that readers can understand how you solve research problems and gain inspiration from it. Compare your research results with existing research results, and highlight the differences and advantages of your research results compared to existing ones.

Here are some specific suggestions:

(1) In the section of the introduction, it is recommended to provide a clearer explanation of what the Tuning Inductor (TI) is and its function, to help readers understand.

(2) In the literature review section, it is recommended to supplement the existing compensation measures for nonlinear loads in the power system, including the advantages and disadvantages of traditional static and dynamic reactive power compensation, harmonic filtering methods, and compare the unique advantages of the proposed method in this paper.

(3) Regarding the relationship between TI and the adaptive compensator, it is recommended to clarify that TI is an important component of the adaptive compensator that can automatically adjust the inductance value of the circuit through an adaptive control algorithm to achieve dynamic compensation of the circuit. Furthermore, it is recommended to explain the concept of the adaptive compensator, which is to automatically adjust the compensation measures in real-time by monitoring the load changes of the power system to achieve optimal compensation effect. This will help readers better understand the role of TI in the adaptive compensator.

(4) I couldn't find the simulation results in the simulation section. What was the inductance value obtained from the simulation, and which structural parameters of the inductor are the key factors to focus on?

Overall, the manuscript presents a promising approach to using tunable magnetic devices in adaptive electric power systems, but further development and clarification are needed to fully understand its potential and applications.

