

Special Issue

Advanced Research on Sustainable Performance Optimization in Electrical Systems

Message from the Guest Editors

The search for intrinsic usage-limited performance can lead to poor life cycle solutions in terms of resource consumption, pollution, greenhouse gas emissions and other environmental impacts. Despite the fact that electrical systems are known to greatly improve energy efficiency, they have disastrous impacts on the environment. An awareness is growing among research laboratories, increasingly considering environmental issues related to the new and old uses of electrical systems. For instance, although it is necessary, the use of renewable energy for a system to be sustainable. For it to be sustainable, the environmental cost of the system itself over its life cycle must be considered. This complex problem needs first to be characterized specifically for electrical systems. Then, tools must be designed to address the issues, to find the trade-offs between functional and environmental performance. Thus, this defines sustainable performance optimization of electrical systems, the scope of this Special Issue.

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