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Electrical Power Challenge's: Road to Unknown

Abstract — Electrical power become very important for decision making in field of Power Electronics, and decisions cannot be left only to the scientist and politicians. challenges are so intensive (smart technology implementation that enables transition from fossil fuels usage to usage of renewable energy sources and changes in role of the consumer, accelerated transition toward electrical roads, etc.) that they require synergy of all existing knowledge in order to optimize power routes that is highly unknown to us.

Need for energy leads toward acceptance of different power solutions (micro grid and usage of existing renewable resources, more criteria optimization of all power routs but also macro picture with Pan-European Power Grid). Expected, but uncertain, technological process connected with question related to the economy and ecology, impose that road to unknown has to be within regulatory boundaries, as catalyst of more certain power future.