



Emerging Converters, Advanced Control and Technologies Enhancing Electric Energy Conversion in Photovoltaic Systems

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Message from the Guest Editor

Sustainable development is the only way for humanity to survive exhaustion of fossil fuels and overcome environmental challenges piled up during industrial age. Significant cost and efficiency improvements of PV systems made them commercially attractive solution. Therefore, mass deployment of photovoltaic systems is advancing at an accelerating pace. Large photovoltaic plants are considered as the best replacement for central generation facilities burning fossils. Each year new records are achieved in the top of the largest PV power plants. Moreover, building integrated photovoltaic as well as powering IoT devices and micro satellites show trend towards low-power high-performance systems. Hence, the PV technology is advancing fast at all power levels and penetrate increasing number of applications.

Even though the PV industry achieved high maturity level, there are numerous challenges and opportunities open for new solutions. Among them, stability of parallel PV generation units, reliability driven design of converters, shade-tolerant residential power interfaces, and active power control methods are of special interest among others...





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