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# Section D: Energy Storage and Application



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# Section Information

With ever increasing concern on energy and environment, energy storage technologies and their emerging applications are one of the main themes in Energies. Since energy comes in various forms including electrical, mechanical, thermal, chemical and radioactive, the energy storage essentially stores that energy for use on demand. Major storage solutions include batteries, fuel cells, capacitors, flywheels, compressed air, thermal fluid, and pumped-storage hydro. Different energy storage technologies have different merits: more convenient, more economical, higher efficiency or longer term.

The stored energy should readily be utilized on demand for diverse applications such as power utilities, commercial and residential buildings, public and domestic appliances as well as electrified transportation. In particular, energy storage systems play an utmost important role for smart grids and smart buildings that involving high renewables with the nature of intermittent power outage. Moreover, electric, hybrid and fuel-cell vehicles can offer zero or ultralow emissions, which heavily rely on using on-board energy storage such as batteries, fuel cells, ultracapacitors and ultrahigh-speed flywheels. Power accessories for energy storage systems such as bidirectional power converters, fast chargers and wireless chargers are also actively developed.

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**Section Editor-in-Chief**

Prof. Dr. K. T. Chau

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