



## Urban Air Mobility: Energy Management Progress and Challenges

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### Message from the Guest Editors

Dear colleagues,

The implementation of energy storage and renewable energies for unmanned aerial vehicles (UAVs, also called drones) could be essential for guaranteeing flight durations under specific weight/volume constraints. When multiple power supply sources are installed in a drone, the variability of the operation conditions means the energy management and the power distribution strategies should match the characteristics of each power supply source. To address these issues, some special design considerations should be adopted to combine different power sources (battery, fuel cell, supercapacitor, flywheel, etc.) and advanced energy management strategies (EMS) in the most efficient and effective way. Moreover, some fault-tolerant control strategies can be considered to ensure the smooth operation of the drone.

In this context, this Special Issue aims to be an open platform to share knowledge about energy management progress and challenges in VTOL aircraft and UAVs. It particularly seeks original contributions regarding ideas, recent developments, or matured studies addressing both theoretical and experimental aspects.





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## Message from the Editor-in-Chief

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