



Airborne Wind Energy Systems

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Message from the Guest Editors

Airborne wind energy (AWE) systems convert wind energy into electrical energy using autonomous tethered flying devices. Deemed a potentially game-changing solution to clean and sustainable energy generation, AWE is increasingly attracting the attention of governments, policymakers and industry worldwide. AWE technology can significantly reduce the levelized cost of energy (LCoE) by eliminating (i) the drive-train installation, (ii) a large part of the rotor blades, (iii) the tower, and (iv) the foundation, which make up for about 50% of the conventional turbine costs. On the other hand, the development of this technology is also facing substantial technical challenges. Important aspects are, for example, autonomous, efficient, reliable, safe, and uninterrupted operation of AWE systems and their interconnection with the future power grid.





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Message from the Editor-in-Chief

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