



Progress in Virtual Power Plant Design and Applications

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Message from the Guest Editors

The aim of this Special Issue is to assess how the recent advances in the design and implementation of the Virtual Power Plant (VPP) concept would help to face the transition towards decarbonized and sustainable energy systems, by allowing improved observability, reliability and enhanced control capabilities. This Special Issue welcomes theoretical papers, methodological studies and empirical research (or combination thereof) on the design and implementation of the VPP concept, concerning (but not limited to) the application of: Active demand-side response, energy management, control and optimization, improved flexibility, reliability, and cyber-security, including the related key enabling information and communication technologies.





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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal *Applied Sciences* has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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