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**Abstract**--This paper proposes a new convex model predictive control strategy for dynamic optimal power flow between battery energy storage systems distributed in an AC microgrid. ...

**Summary**MicrogridOverviewTechnologiesIntegration with the gridMitigating voltage and frequency issues of DG integrationStand alone hybrid systemsCost factorsA microgrid is a localized grouping of electricity generation, energy storage, and loads that normally operates connected to a traditional centralized grid (macrogrid). This single point of common coupling with the macrogrid can be disconnected. The microgrid can then function autonomously. Generation and loads in a microgrid are usually interconnected at low voltage and it can operate in DC, AC, or the combination of both. From the point of view of the grid operator...

The combination of energy storage and microgrids is an important technical path to address the uncertainty of distributed wind and solar resources and reduce their impact on the ...

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