

Apia energy storage for resilience

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Picioroaga, I.; Luca, M.; Tudose, A.; Sidea, D.; Eremia, M.; Bulac, C. Resilience-Driven Optimal Sizing of Energy Storage Systems in Remote Microgrids. Sustainability 2023, 15, 16002. https://doi/10.3390/su152216002

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Large-scale integration of environment-dependent renewables coupled with intensifying climate extremes

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introduces superimposed risks on future net-zero power systems, expected to increase the frequency of severe power outages.

High-penetration renewable power systems under climate change may face escalating challenges, including more severe infrastructure damage, lower grid inertia and flexibility, and longer post-event recovery.

Achieving a climate-resilient power system in a net-zero future requires approaches for harnessing the inherent potential of distributed renewables through forming microgrids.

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