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

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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