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Electrical And Topological Drivers Of The Cascading Failure Dynamics In Power Transmission Networks

Alberto Azzolin , Leonardo Dueñas-Osorio , Francesco Cadini , Enrico Zio

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Highlights:

- Slightly increasing line redundancy and decentralizing generators are effective for reducing load
- shedding and line failures
- Better line redundancy and generator decentralization also reduce uncertainty in cascading failure
- consequences
- Optimal power re-dispatch successfully manages cascading failures in all considered power grid
- configurations
- Coupling synthetic yet realistic power grids with direct current (DC) cascading failure simulators
- supports planning against cascading failures

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