

With the increasing penetration of renewable energy, the inertia of grid is gradually decreasing, and transient support capability is seriously insufficient. In order to enhance the inertia, this ...

OverviewIntentional islandingDetection methodsDistributed generation controversyIntentional islanding divides an electrical network into fragments with adequate power generation in each fragment to supply that fragment"s loads. In practice, balancing generation and load in each fragment is difficult, and often the formation of islands requires temporarily shedding load. Synchronous generators may not deliver sufficient reactive power to prevent severe transients during fault-induced island formation, and any inverters must switch from constant-current to constant-voltage

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