Review of: "Mathematical Assessment of the Reliability in a Complex Deregulated Power System"

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Potential competing interests: No potential competing interests to declare.

This paper examines bulk power system performance-based control using sequential simulation to determine composite system reliability. In a deregulated power system, system adequacy and security are critical requirements for power system reliability, especially in energy markets with Distributed Generators. Distribution Generators and FACTS devices are used to supervise power system networks in a novel way. The suggested strategy optimises DG and FACTS device placement, focusing on ratings and locations. This optimisation is done using Genetic Algorithms, which have a coding structure that allows exact mutations. The technique works well in one-dimensional arrays.