

Stability of Power System with High Penetration of Wind Energy: A Comprehensive Review

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Abstract : This paper presents the literature review on the works done so far in the area of stability of power system with high penetration of Wind Power with other conventional power sources. Out of many problems, the voltage and frequency stability is of prime concern as it is directly related with the stable operation of power system. In this paper, different aspects of stability of power system, particularly voltage and frequency, Optimization of FACTS-Energy Storage devices is discussed.

Keywords : small signal stability, voltage stability, frequency stability, LVRT, wind power, FACTS

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