

Centralized Self-Healing and increase security in distribution system with considering wind and solar generation resources

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Abstract Self healing one of the engineering design in smart grid.the ability to isolate and restore the system to normal without any human intervention. Self healing reduced or non-deterministic service delivery to consumers ,in order to control and better manage,network division into zones so that active and reactive power balance to be maintained between the zones. In each of these zones according to their situation,use of wind generators or solar panels,in order to increase our self-sufficiency in the network .how to implement in such a way that after fault,using the optimization PSO algorithm. Best of all network switches to isolate the defective area ed. In such a way as to minimize losses and load balancing preserved. In this dissertation to implement the plan self healing and demonstrate the advantages and benefits,we studied to networks 33 and 69 buses.

Keywords : demonstrate the advantages and benefits,we studied to networks 33 and 69 buses.

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