

Voltage quality improvement using DVR

Written by Administrator

Tuesday, 08 March 2011 13:18

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The problem of voltage sags and Swells and its severe impact on sensitive loads is well known. To solve this problem, custom power devices are used. One of those devices is the Dynamic Voltage Restorer (DVR), which is the most efficient and effective modern custom power device used in power distribution networks. Its appeal includes lower cost, smaller size, and its fast dynamic response to the disturbance. This paper describes DVR principles and voltage restoration methods at the point of common coupling (PCC).

Simulation results are presented to illustrate and understand the performances of DVR in load voltage compensation.



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