

ANALYSIS OF MEDIUM AND LOW VOLTAGE DISTRIBUTION NETWORK WITH HIGH LEVEL PENETRATION OF DISTRIBUTED GENERATORS USING ERACS

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ABSTRACT

This paper analyses the technical impact of Distributed Generation on the Medium Voltage (MV) and Low Voltage (LV) Networks using ERACS specifically considering the changes in voltage profiles, real and reactive power flows caused by the introduction of small scale distributed generators(SSDGs) both at the medium voltage (MV) and low voltage (LV) levels of distribution networks.

Keywords: Distributed Generetors, Voltage profile, Three phase fault levels, Power distribution system.