

Title: Modelling and simulation of radial distribution feeder using OpenIPSL

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Abstract: The power system model will contain one generator (infinite bus) to meet power demand from the various loads. The model includes seven buses, one two-winding transformer, nine constant PQ loads, and five transmission lines (PwLine). System base is 10 MVA. A three-phase balanced fault simulated in one of the buses (seventh bus) at a duration of 0.08 seconds (from 7.01 seconds to 7.09 seconds). The purpose of this power system model is to study the voltage stability at multiple buses. Simulation obtained shows profiles at generators, buses and various constant PQ loads. Waveforms obtained is observed.