Title: Fault analysis of 33 bus distribution system using
OpenModelica and openIPSL

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Abstract:

Fault analysis of power system is required in order to analyse the performance of the system during occurrence of fault. The system can be analysed based on its pre-fault, during fault and post-fault parameters. In this project, 33-bus radial distribution system is selected to perform fault analysis. In radial distribution system, electric power flows along a single path. It is an effective distribution network which links bulk power consumers. In case of any failure in the distribution system, the supply power beyond the fault gets isolated. The system will be simulated using Modelica and Open-IPSL, assuming fault at bus 10 between 1 to 1.2 sec and the waveforms will be analysed.