Title: Modelling and Simulation of IEEE 24 Bus system using OpenModelica and Open IPSL

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Abstract: The IEEE 24-bus test system was developed by the IEEE reliability subcommittee and published in 1979 as a benchmark for testing various reliability analysis methods. The power system model consists of 10 generators, 1 synchronous condenser 24 buses, 16 loads, 34 lines, 5 transformers. Model Submitted is implemented in OpenModelica language using OpenIPSL package. The Model presents a simulation scenario of fault at one of the buses. Simulation obtained shows voltage profiles at various buses.