

Title: Modelling and Simulation of Four Machine 10 bus system using Modelica and OpenIPSL

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**Abstract:** The power system model consists of 4 generators, 10 buses, 2 constant PQ loads, 11 lines, 4 transformers, and 2 Shunt admittances. The submitted model implemented in Modelica language using OpenIPSL package. Model represents presents scenario of fault at one of buses and cases of line trip at separate lines at different intervals of time. Simulation obtained shows voltage profiles at various buses for different cases.