

**Title: Modelling and Simulation of Four Machine 10 bus system using OpenModelica 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 OpenModelica language using OpenIPSL package. The Model presents a scenario of fault at one of the 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.