

Title: Fault Analysis of 39 bus Power System using Openmodelica Open IPSL

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**Abstract:**

The 39 bus Power system consist of ten generating units and 46 lines. The IEEE 39 bus System commonly known as the New England System. The aim of the model is to simulate a 10 generator 39 bus system in the Openmodelica software using open IPSL library under faulty condition. The Purpose of the power system simulation is to study the voltage stability of the system during faulty conditions.