Title: **Dynamic Study on Wind Farm Modeling by Using OpenModelica and OpenIPSL**

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This model is carried out by using OpenModelica and OpenIPSL Model Consists of 30 Wind Generators (WT3G) Each of Rating 2 MW. The Model consists of three different voltage levels at respective buses namely 0.7kV,35kV and 110kV.A generator is connected to 0.7kV bus and then stepped up to 35kv with the help of a 2.1 MVA transformer. 35kV is then stepped up to 110kv with the help of a 63MVA transformer Finally, 110kv buses are connected to Transmission Grid. In this model fault created at different voltage levels at respective buses namely 0.7kV,35kV,110kV observe the voltage profiles of buses during fault condition and also observe the Active and Reactive Power Responses during Fault Condition.