



**DESIGN AND SIMULATION OF DISTRIBUTED SYSTEM BASED ON
MULTI AGENT SYSTEMS**

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ABSTRACT

As the revolutionary change in electric power industry begins with the latest communication infrastructure, it is on the verge of a revolutionary transformation to develop a smart grid to meet the requirements. The objective of this paper is to design and simulate the distributed smart grid system based multi agent. A multi agent application development will be discussed that involves agent specification and application design. The smart grid 8 bus system has designed and simulated using MATLAB Simulink for fault identification and restoration of the power.

Keywords: Distributed System, Smart Grid, multiagent, Microgrid