



**ECONOMIC POWER DISPATCH OF POWER SYSTEM
WITH POLLUTION CONTROL USING MATLAB
OPTIMIZATION TOOLBOX**

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ABSTRACT

This study presents a study on solving the economic power dispatch problem of power system using MATLAB Optimization Toolbox. The objective is to minimize the total fuel cost of generation and environmental pollution control levels caused by fossil based thermal generating units and also maintain an acceptable system performance in terms of limits on generator real power outputs and system losses. The proposed approach has been evaluated on the test system contain of six generating units. The result obtained show that the purposed method can be used to solve economic power dispatch.

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