

**SOLVING SHORT TERM HYDROTHERMAL  
SCHEDULING PROBLEM USING GREY WOLF  
OPTIMIZER (GWO)**

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## **ABSTRACT**

The objective of the hydrothermal scheduling is to minimize the total cost system, while fulfilling the power balance and system constraints. This final year project report proposes a solution to handle the problems of short-term hydrothermal scheduling and economic load dispatch. Grey Wolf Optimizer (GWO) method is developed in this study to solve Short Term Hydrothermal Scheduling (SHTS). This method is tested on a system consisting a hydro unit and a thermal unit and a system consisting two thermal units and two hydro units. Simulation results were compared with those obtained using conventional method to show that GWO is able to solve the problem with satisfactory results.

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