



TWO STAGE APPROACH FOR ECONOMIC POWER DISPATCH

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ABSTRACT

This thesis studies an alternative approach to improve the economic power dispatch on operation of the power system. The proposed economic power dispatch method consists of two stages. The first stage involves the economic dispatch without considering the losses, where the second stage involves the economic dispatch considering the losses. The determination of two stage economic power dispatch of data is based on the real power generations and general constraint involved. The proposed method was tested on the system of three and six generating units. The results show the two stage economic dispatch can improve the system by minimizing the total fuel consumption or the total cost function in the system.

TABLE OF CONTENTS

CHAPTER	CONTENTS	PAGE
	ACKNOWLEDGEMENT	i
	ABSTRACT	ii
	TABLE OF CONTENTS	iii
	LIST OF TABLES	vi
	LIST OF FIGURES	vii
	LIST OF ABBREVIATIONS	viii
1	INTRODUCTION	
	1.0 Background of Study	1
	1.1 Problem Statement	1
	1.2 Research Objectives	2
	1.3 Scope of Project	3
	1.4 Thesis Organization	3
2	LITERATURE REVIEW	
	2.0 What is Economic Dispatch	4
	2.1 Economic Dispatch in Current Industry	4
	2.2 The Benefits of Economic Dispatch	5
	2.3 Understanding Economic Dispatch	6
	2.4 Current Practices in Building the Economic Dispatch Resource Stack	7
	2.5 Study Method and Overview	9
	2.5.1 Optimal Power Flow	9
	2.5.2 Classical Economic Dispatch	10
	2.5.3 Economic Dispatch in Relation to Automatic Generation Control	10

	2.5.4	Dynamic Dispatch	11
	2.5.5	Dispatch With Non-Conventional Generation Sources	11
	2.5.6	Two Stage Approach For Economic Dispatch	12
3		METHODOLOGY	
	3.0	Introduction	14
	3.1	Method Adopted	
	3.1.1	Primary Data	15
	3.1.2	Secondary Data	15
	3.2	MATLAB Programming	
	3.2.1	The MATLAB Desktop	17
	3.2.2	Script M-file	18
	3.2.3	Arrays and Array Operations	19
	3.2.4	Flow Control	24
	3.2.5	Loop	25
	3.3	Developing MATLAB Program Using Two-Stage Methods	28
	3.4	Working Principle	31
	3.5	Schematic Diagram	31
4		RESULTS AND DISCUSSION	
	4.0	Introduction	33
	4.1	Results for three generating units	33
	4.2	Results for six generating units	35
	4.3	Comparison between best five results	37