UNIVERSITI TEKNOLOGI MARA FACULTY OF ADMINISTRATIVE SCIENCE & POLICY STUDIES BACHELOR OF ENVIRONMENTAL ADMINISTRATION



A STUDY ON FACTORS CONTRIBUTE TOWARD ENERGY CONSERVATION AMONG HOUSEHOLDS IN KUANTAN, PAHANG

ADIBA ASYQEEN BINTI JAMIL ASRI

2020455476

FARAH NAJIHAH BINTI ENJAFRI

2020837406

AUGUST 2022

Acknowledgement

First of all, we would like to acknowledge and give our warmest thanks to our supervisor, Dr Fuad Bin Karim who made this work possible. His guidance and advice carried us through all the stages of doing this research paper. We would not be able to complete this research paper without his guidance.

We would also like to give special thanks to our family and friends who are always supporting and understanding us when we are undertaking our research paper. Finally, I would like to thank Allah SWT for letting us through all the difficulties we experienced with your guidance day by day.

Abstract

The title of the study is about the factors contribute towards energy conservation among households in Kuantan, Pahang. The objective of this study was to determine the significant relationship between factors (climate change, socio-demographic, financial) and energy conservation among households in Kuantan, Pahang and to examine the most significant needs, factors contribute toward energy conservation among households in Kuantan, Pahang. In addition, this study was conducted in Kuantan, Pahang. The method used to complete this study was through a questionnaire involving 300 respondents. The process of analyzing the data is implemented in the form of the Statistical Package for the Social Sciences (SPSS). To strengthen the reliability of the data, it was measured through descriptive analysis. Thus, data reporting is implemented in the form of statistics to achieve the objectives and unravel the research questions.

Keywords: Energy Conservation, Climate Change, Socio-Demographic, Financial

Table of Content

Declaration	2
Abstract	3
Abstrak	4
Table of Content	5
CHAPTER 1: INTRODUCTION	8
1.1 Introduction	8
1.2 Problem statement	9
1.3 Research Questions	11
1.4 Research Objectives	11
1.5 Scope of Study	11
 1.6 Significance of the proposed study 1.6.1 Body of knowledge 1.6.2 Policy Makers 1.6.3 Local Authority 1.6.4 Community 	11 12 12 12 12
 1.7 Definition of terms, terminology and concepts 1.7.1 Climate change 1.7.2 Financial literacy 1.7.3 Socio Demographic 1.7.4 Energy Conservation 	14 14 14 14 15
CHAPTER 2: LITERATURE REVIEW & CONCEPTUAL FRAMEWORK	16
2.1 Introduction	16
 2.2 Literature review 2.2.1 Energy Conservation 2.2.2 Climate change 2.2.3 Financial 2.2.4 Socio-Demographic 	16 16 19 22 25
2.3 Definition	28
2.4 Important	28
2.5 Barriers	29

2.8 Hypotheses Development332.9 Summary37CHAPTER 3: RESEARCH METHODOLOGY3.1 Introduction383.2 Research design383.3 Unit of analysis393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change3.6.3Socio-Demographic3.6.4Financial41443.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1Test of Normality3.9.2Reliability Analysis3.9.2.1Spearman Correlation3.9.2.2Multiple Regression40A9.2.2CHAPTER 4: RESEARCH FINDINGS5041504250	2.6 Factors that contribute towards energy conservation among households	30
2.6.3 Financial312.7 Conceptual Framework322.8 Hypotheses Development332.9 Summary37CHAPTER 3: RESEARCH METHODOLOGY383.1 Introduction383.2 Research design383.3 Unit of analysis393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change4.23.6.33.6.4Financial3.7 Data collection453.8 Data analysis453.9.1Test of Normality3.9.2.1Spearman Correlation433.9.2.13.9.2.2Multiple Regression49CHAPTER 4: RESEARCH FINDINGS504.2 Preliminary analysis524.2.1Reliability results524.2.14.2.1Reliability results52	2.6.1 Climate change	30
2.7 Conceptual Framework322.8 Hypotheses Development332.9 Summary37CHAPTER 3: RESEARCH METHODOLOGY3.1 Introduction383.2 Research design383.3 Unit of analysis393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change3.6.3Socio-Demographic3.6.4Financial3.7 Data collection453.8 Data analysis453.9.2Reliability Analysis3.9.2.1Spearman Correlation3.9.2.2Multiple Regression413.9.2.242483.9.2.1Spearman Correlation3.9.2.2Multiple Regression42Social Social Correlation3.9.2.2Multiple Regression42Social Social Socia	2.6.2 Socio-Demographic	30
2.8 Hypotheses Development332.9 Summary37CHAPTER 3: RESEARCH METHODOLOGY383.1 Introduction383.2 Research design383.3 Unit of analysis393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change3.6.3Socio-Demographic3.6.4Financial3.7 Data collection453.8 Data analysis463.9.1Test of Normality3.9.2Reliability Analysis3.9.2.1Spearman Correlation3.9.2.2Multiple Regression41AD3.9.2.2Multiple Regression42453.9.2.1Spearman Correlation3.9.2.1Spearman Correlation3.9.2.2Multiple Regression425042.2Aultiple Regression433.9.2.1Spearman Correlation483.9.2.1Spearman Correlation3.9.2.2Multiple Regression40ALP reliminary analysis524.2.14.2.1Reliability results524.2.1Reliability results52	2.6.3 Financial	31
2.9 Summary37CHAPTER 3: RESEARCH METHODOLOGY3.1 Introduction383.2 Research design383.3 Unit of analysis393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change3.6.3Socio-Demographic3.6.4Financial3.7 Data collection453.8 Data analysis453.9.1Test of Normality3.9.2Reliability Analysis3.9.2.1Spearman Correlation3.9.2.2Multiple Regression41Application3.9.2.3Multiple Regression42Application3.9.4Application3.9.5423.9.7FestARCH FINDINGS4.1Demographic Profile504.24.2.1Reliability results524.2.14.2.1Reliability results52	2.7 Conceptual Framework	32
CHAPTER 3: RESEARCH METHODOLOGY 3.1 Introduction 3.8 3.2 Research design 3.3 Unit of analysis 3.3 Unit of analysis 3.3 Unit of analysis 3.4 Sample size 3.9 3.5 Sampling technique 3.9 3.6 Measurement/ Instrumentation 40 3.6.1 Energy conservation 41 3.6.2 Climate change 42 3.6.3 Socio-Demographie 43 3.6.4 Financial 44 3.7 Data collection 45 3.8 Data analysis 45 3.9 Results of pilot study 46 3.9.1 Test of Normality 46 3.9.2 Reliability Analysis 45 3.9.2.1 Spearman Correlation 48 3.9.2.1 Spearman Correlation 48 3.9.2.1 Spearman Correlation 48 3.9.2.2 Multiple Regression 49 CHAPTER 4: RESEARCH FINDINGS 41. Demographic Profile 50 4.2 Preliminary analysis 52 4.2.1 Reliability results 52	2.8 Hypotheses Development	33
3.1 Introduction383.2 Research design383.3 Unit of analysis393.4 Sample size393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change3.6.3Socio-Demographic3.6.4Financial3.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1Test of Normality3.9.2Reliability Analysis3.9.2.1Spearman Correlation3.9.2.2Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1Reliability results524.2.14.2.1Reliability results	2.9 Summary	37
3.2 Research design383.3 Unit of analysis393.4 Sample size393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change3.6.3Socio-Demographic3.6.4Financial3.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1Test of Normality3.9.2Reliability Analysis3.9.2.1Spearman Correlation3.9.2.2Multiple Regression41483.9.2.1Spearman Correlation3.9.2424.1Demographic Profile504.24.1Demographic Profile514.24.1Demographic Profile524.2.14.2.1Reliability results52	CHAPTER 3: RESEARCH METHODOLOGY	
3.3 Unit of analysis393.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation413.6.2Climate change423.6.3Socio-Demographic433.6.4Financial443.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1Test of Normality463.9.2Reliability Analysis463.9.2.1Spearman Correlation483.9.2.2Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1Reliability results52	3.1 Introduction	38
3.4 Sample size393.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1Energy conservation3.6.2Climate change3.6.3Socio-Demographic3.6.4Financial3.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1Test of Normality3.9.2Reliability Analysis3.9.2.1Spearman Correlation3.9.2.2Multiple Regression4149CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1Reliability results524.2.14.2.1Reliability results524.2.15252	3.2 Research design	38
3.5 Sampling technique393.6 Measurement/ Instrumentation403.6.1 Energy conservation413.6.2 Climate change423.6.3 Socio-Demographic433.6.4 Financial443.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1 Test of Normality463.9.2 Reliability Analysis463.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS504.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.3 Unit of analysis	39
3.6 Measurement/ Instrumentation403.6.1 Energy conservation413.6.2 Climate change423.6.3 Socio-Demographic433.6.4 Financial443.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1 Test of Normality463.9.2 Reliability Analysis463.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.4 Sample size	39
3.6.1 Energy conservation 41 3.6.2 Climate change 42 3.6.3 Socio-Demographic 43 3.6.4 Financial 44 3.7 Data collection 45 3.8 Data analysis 45 3.9 Results of pilot study 46 3.9.1 Test of Normality 46 3.9.2 Reliability Analysis 46 3.9.2.1 Spearman Correlation 48 3.9.2.2 Multiple Regression 49 CHAPTER 4: RESEARCH FINDINGS 50 4.1 Demographic Profile 50 4.2 Preliminary analysis 52 4.2.1 Reliability results 52	3.5 Sampling technique	39
3.6.2 Climate change 42 3.6.3 Socio-Demographic 43 3.6.4 Financial 44 3.7 Data collection 45 3.8 Data collection 45 3.9 Results of pilot study 46 3.9.1 Test of Normality 46 3.9.2 Reliability Analysis 46 3.9.2.1 Spearman Correlation 48 3.9.2.2 Multiple Regression 49 CHAPTER 4: RESEARCH FINDINGS 4.1 Demographic Profile 50 4.2 Preliminary analysis 52 4.2.1 Reliability results 52	3.6 Measurement/ Instrumentation	40
3.6.3Socio-Demographic433.6.4Financial443.7 Data collection453.8 Data analysis453.9 Results of pilot study463.9.1Test of Normality463.9.2Reliability Analysis463.9.2.1Spearman Correlation483.9.2.2Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1Demographic Profile504.2Preliminary analysis524.2.1Reliability results52	3.6.1 Energy conservation	41
3.6.4 Financial443.7 Data collection453.8 Data analysis453.8 Data analysis463.9 Results of pilot study463.9.1 Test of Normality463.9.2 Reliability Analysis463.9.2 Testing of the hypothesis483.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52		42
3.7 Data collection453.8 Data analysis453.8 Data analysis463.9 Results of pilot study463.9.1 Test of Normality463.9.2 Reliability Analysis463.9.2 Results of the hypothesis483.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52		
3.8 Data analysis453.9 Results of pilot study463.9.1 Test of Normality463.9.2 Reliability Analysis463.9.2 Testing of the hypothesis483.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.6.4 Financial	44
3.9 Results of pilot study463.9.1 Test of Normality463.9.2 Reliability Analysis463.9.2 Reliability Analysis463.9.2 Testing of the hypothesis483.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.7 Data collection	45
3.9.1 Test of Normality463.9.2 Reliability Analysis463.9.2 Testing of the hypothesis483.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.8 Data analysis	45
3.9.2 Reliability Analysis463.9.2 Testing of the hypothesis483.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGSCHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.9 Results of pilot study	46
3.9.2 Testing of the hypothesis483.9.2.1 Spearman Correlation483.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.9.1 Test of Normality	46
3.9.2.1Spearman Correlation483.9.2.2Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1Demographic Profile504.2Preliminary analysis524.2.1Reliability results52	3.9.2 Reliability Analysis	46
3.9.2.2 Multiple Regression49CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.9.2 Testing of the hypothesis	48
CHAPTER 4: RESEARCH FINDINGS4.1 Demographic Profile504.2 Preliminary analysis4.2.1 Reliability results5252	3.9.2.1 Spearman Correlation	48
4.1 Demographic Profile504.2 Preliminary analysis524.2.1 Reliability results52	3.9.2.2 Multiple Regression	49
4.2 Preliminary analysis524.2.1 Reliability results52	CHAPTER 4: RESEARCH FINDINGS	
4.2.1 Reliability results 52	4.1 Demographic Profile	50
-	4.2 Preliminary analysis	52
4.2.2 Normality Results 53	4.2.1 Reliability results	52
	4.2.2 Normality Results	53