

# CONTENTS

CHAPTER ONE Introduction .....	1
1.1 Research Background and Purposes.....	1
1.2 Research Questions .....	4
1.3 Methodology and Procedures .....	5
1.4 Limitation of the Research .....	8
CHAPTER TWO Framing the Environmental Problem .....	9
2.1 Outlining the Environmental Problem.....	9
2.1.1. Environment as a political issue .....	10
2.1.2. Environment as an economic issue.....	11
2.1.3. The political economy of the environment.....	13
2.2 The Evolution of international environmental discourse... ..	16
2.2.1 The Stockholm Conference and 1970s.....	18
2.2.2 The Brundtland Report and the 1980s.....	21
2.2.3. The Earth Summit and 1990s .....	22
2.2.4. Johannesburg and Beyond.....	24
2.3 North-South Environmental Debate .....	25
CHAPTER THREE Literature Review .....	28
3.1. Theories of the Political Economy .....	28
3.1.1. Nationalism, Liberalism and Marxism .....	29
3.1.2. Green perspective on Political economy .....	33
3.1.3. Summary.....	34
3.2. The Concept of Sustainable development .....	35
3.3. Domestic Environmental Debates-the Political Economy of Environmental in Taiwan .....	38
3.3.1. Political angle .....	38
3.3.2. Economic angle .....	40
3.3.3. Policy angle .....	41
3.3.4. Political-economy angle .....	42
3.4. The Practice of the UNFCCC in Taiwan.....	43
3.4.1. Environmental politics.....	44

3.4.2. Environmental law.....	45
3.4.3. Domestic policy.....	47
3.5. The Literature Finding.....	49
CHAPTER FOUR The Development of International Environment Law toward Global Warming .....	51
4.1 The science of global warming.....	51
4.2 The Political economy of the global warming issue.....	55
4.3. The UNFCCC-the Kyoto Protocol .....	57
4.3.1. The goal of the Convention .....	60
4.3.2. Obligations under the Convention.....	60
4.3.3. Mechanisms and institutions under the Convention.....	63
4.3.4. The Kyoto Protocol .....	64
4.3.5. The achievement of the UNFCCC.....	67
CHAPTER FIVE The Political Economy of Taiwan’s Environment Policy-Economic Growth and Sustainable Development Perspectives .....	69
5.1. The development of domestic environmental policy .....	69
5.1.1. The authoritarianism period (1950-1987) .....	70
5.1.2. Political liberalization period (1987-2000).....	73
5.1.3. The DPP ruling period.....	77
5.1.4. Summary.....	80
5.2. Taiwan’s international environmental policy .....	81
5.2.1. The legal status of Taiwan in the international environmental institutions and agreements .....	81
5.2.2. Taiwan’s international environmental policy after 1990.....	82
5.2.3. The Compliance with the UNFCCC of Taiwan .....	83
CHAPTER SIX The Political Economy of the Practice of Taiwan toward Global Warming .. .....	87
6.1. The present economic structure, energy supply and consumption as well as the GHG emissions .....	87
6.1.1 The present economic structure.....	87
6.1.2 Energy supply in Taiwan.....	88

6.1.3 Energy consumption in Taiwan.....	89
6.1.4 Taiwan’s GHG Emissions .....	90
6.2. Institutional framework for addressing global warming .....	92
6.2.1 Central Coordination .....	92
6.2.2 Government Agencies .....	95
6.2.3 Summary.....	99
6.3. Legal framework for addressing global warming.....	101
6.3.1 The Constitution .....	101
6.3.2 Basic Environment Act.....	101
6.3.3 Promotion Legislation of the Greenhouse Gas Reduction Act.....	102
6.3.4 Other relevant laws.....	105
6.3.5 Summary.....	106
6.4. GHG Reduction Policy .....	107
6.4.1 National Energy Meeting .....	108
6.4.2 2006 National Meeting for Sustainable Development Affairs .....	110
6.4.3 Economic and Industrial Policy- big Investment, big Warmth .....	111
6.4.4 Recent development of GHG policy .....	113
6.4.5 Summary.....	114
CHAPTER SEVEN Suggestions and Conclusion.....	118
7.1 Suggestions.....	120
7.1.1. The Institutional Framework .....	120
7.1.2. Legal framework.....	121
7.1.3. Policy Analysis .....	121
7.2. Conclusion.....	122
References .....	124
Appendix I .....	133
Appendix II .....	156
Appendix III .....	177
Appendix IV .....	179
<b>Keywords:</b> Political economy, Sustainable development, Environment protection, Kyoto Protocol, Global warming	

## **TABLES**

<b>Table 1.1:</b> Interview Subjects .....	6
<b>Table 2.1:</b> The Interest-based National Attitudes toward International Environment Negotiation .....	15
<b>Table 2.2:</b> Northern and Southern Agenda .....	26
<b>Table 4.1:</b> Share of Greenhouse Warming Due to Different Gases.....	52
<b>Table 6.1:</b> Taiwan's GHG Emissions Structure in 2005 .....	91
<b>Table 6.2:</b> Government Agencies and their Functions in Climate Change .....	95
<b>Table 6.3:</b> Results of Interview Question 2 .....	96
<b>Table 6.4:</b> Results of Interview Question 4 .....	98
<b>Table 6.5:</b> Major nations' GHG reduction regulations .....	103
<b>Table 6.6:</b> Results of Interview Question 8 .....	115
<b>Table 6.7:</b> Results of Interview Question 9 .....	116

## FIGURES

<b>Figure 1.1:</b> Research Flow Chart .....	7
<b>Figure 3.1:</b> Sustainable Development Framework .....	37
<b>Figure 6.1:</b> Energy Supply and Structure of Energy Supply .....	89
<b>Figure 6.2:</b> Structure of Energy Consumption by Consuming Sector and Energy Form .....	90
<b>Figure 6.3:</b> The National Council for Sustainable Development, Executive Yuan .....	93