

Cambridge University Press 978-1-316-63680-0 — Renewable Energy Law Penelope Crossley Table of Contents More Information

Contents

List of Tables		þage x
Acknowledgements		
List of Acronyms and Abbreviations		
List of National Renewable Energy Legislation		
List of Other Legislation and Treaties		
Units of Measurement		
1 Intro	duction	1
1.1	The Problem and Significance of the Research	4
1.2	Hypothesis and Research Methodology	7
1.3	Structure of the Book	11
PART I WI	HAT IS RENEWABLE ENERGY? A CASE OF CONCEPTUAL	
CONSENSU	VS .	17
2 The	Renewable Energy Sources Used for Electricity Generation	1 19
2.1	Wind Energy	20
2.2	Solar Energy	24
2.3	Biomass	27
2.4	Landfill Gas, Sewage Treatment Gas and Biogas	34
2.5	Hydropower	36
2.6	Geothermal Energy	43
2.7	9	47
2.8	Hydrogen/Fuel Cells	53
2.9	Peat	55
2.10	Nuclear Energy	56



Cambridge University Press 978-1-316-63680-0 — Renewable Energy Law Penelope Crossley Table of Contents More Information

V111		Contents	
	2.11	Any Other Source Prescribed by the Regulations or	_
		Otherwise Permitted	60
	2.12	Conclusion	60
		THY DO COUNTRIES INTERVENE IN THE RENEWABLE ENERGY A CASE OF NORMATIVE DIVERGENCE	63
3	The 3.1	Economic Justification for Regulating Renewable Energy The Characteristics of Electricity That Warrant Special	65
		Regulatory Treatment	65
	3.2	Market Failures Affecting the Renewable Energy Sector	73
	3·3 3·4	Market Barriers Within the Renewable Energy Sector Is Regulatory Intervention in the Renewable Energy Sector	79
		Warranted from an Economic Perspective?	93
	3.5	Conclusion	96
4	Why	Do Countries Legislate to Accelerate the Deployment of	
	-	ewable Energy?	98
	4.1	What Does It Mean to Legislate?	98
	4.2	The Identification and Role of Legislative Objectives	100
	4.3	The Legislative Objectives in Renewable Energy Law	103
	4.4	A Comprehensive Study of the Legislative Objectives in	
		Renewable Energy Laws	107
	4.5	Multiple and Competing Legislative Objectives Conclusion	159 161
	4.6	Conclusion	101
		WHAT ROLE DO REGULATORY SUPPORT MECHANISMS PLAY VAL RENEWABLE ENERGY LAWS? A CASE OF	
SUB	STANT	IVE DIVERGENCE	165
5	How	Do Countries Regulate to Support Renewable Energy?	167
	5.1	The Selection of Regulatory Support Mechanisms	167
	5.2	Types of Regulatory Support Mechanisms Used in the	,
		Renewable Energy Sector	176
	5.3	Evaluating the Success of Regulatory Support Mechanisms	219
	5.4	Conclusion	222



Cambridge University Press 978-1-316-63680-0 — Renewable Energy Law Penelope Crossley Table of Contents More Information

Contents ix

6	The Future Development of Regulatory Support Mechanisms –			
		Unification, Harmonisation, Convergence, Divergence or		
		ulatory Competition?	224	
	6.1	What Are the Advantages and Disadvantages of National		
		Renewable Energy Laws Becoming More Similar		
		Internationally?	225	
	6.2	The Future Development of Regulatory Support		
		Mechanisms: Same, Same or Different?	229	
	6.3	Unification	230	
	6.4	Harmonisation	231	
	6.5	Convergence	237	
	6.6	Divergence	240	
	6.7	Regulatory Competition	241	
	6.8	Conclusion	248	
7	Conclusion		250	
	7.1	What Is Renewable Energy? A Case of Conceptual		
		Consensus	253	
	7.2	Why Intervene in the Renewable Energy Sector?		
		A Case of Normative Divergence	255	
	7.3	What Role Do Regulatory Support Mechanisms Play in		
		National Renewable Energy Laws? A Case of Substantive		
		Divergence	260	
	7.4	Conclusion	264	
Ind	Index		265	