

FULL CONTENTS

<i>List of figures</i>	x
<i>List of contributors</i>	xi
<i>Preface</i>	xii
<i>List of abbreviations</i>	xiii
<i>Table of cases</i>	xvi
<i>Table of legislation</i>	xviii

PART I INTRODUCTION

1 Purpose, approach and outline of the book	2
1.1 Purpose of the book	2
1.2 Approach of the book	4
1.3 Contribution of the book	6
1.4 Outline of the book	7
1.5 Acknowledgements	8
2 EU climate policy	10
2.1 Introduction	10
2.2 Basics of 'climate' and 'policy'	11
2.3 International climate policy	14
2.4 History and origins of EU climate policy	23
2.5 EU climate policy towards 2030 and beyond	26
2.6 The role of cities in climate action	37
2.7 Conclusion	41

PART II ESSENTIAL EU CLIMATE LAW

3 EU emissions trading system	44
3.1 Introduction	44
3.2 Basics of greenhouse gas emissions trading	45
3.3 Emissions trading design and hybrid carbon pricing schemes	48
3.4 The EU ETS Directive	52
3.5 Linking the EU ETS to non-EU emissions trading systems	62
3.6 Implementation problems of the EU ETS and solutions	63
3.7 Conclusion	72
4 Regulation of emissions from non-ETS sectors	74
4.1 Introduction	74
4.2 Basics of non-ETS sector greenhouse gas emissions	76

4.3 The Effort Sharing Regulation	78
4.4 EU instruments to support the Effort Sharing Regulation	86
4.5 Conclusion	96
5 Renewable energy consumption	98
5.1 Introduction	98
5.2 Basics of renewable energy	99
5.3 The development of renewable energy legislation	102
5.4 The Renewable Energy Directive	106
5.5 Financial support for renewable energy	118
5.6 Conclusion	128
6 Energy efficiency	130
6.1 Introduction	131
6.2 Basics of energy efficiency	132
6.3 The Energy Efficiency Directive	134
6.4 Energy efficiency of buildings	143
6.5 Energy efficiency of appliances	148
6.6 Energy efficiency of various other products	151
6.7 Conclusion	154
7 Carbon capture and storage	156
7.1 Introduction	156
7.2 Basics of carbon capture and storage	157
7.3 The Carbon Capture and Storage Directive	160
7.4 Regulation of CO ₂ capture, transport and storage	164
7.5 Review of the CCS Directive	180
7.6 Offshore CCS deployment	181
7.7 Conclusion	188
8 Regulation of fluorinated gases	190
8.1 Introduction	190
8.2 Basics of fluorinated gases	191
8.3 The Mobile Air-Conditioning Directive	194
8.4 The F-gas Regulation	198
8.5 Conclusion	204
PART III OVERARCHING ISSUES IN EU CLIMATE REGULATION	
9 EU climate law and energy network regulation	207
9.1 Introduction	207

9.2 Challenges of decarbonizing energy networks	208
9.3 Energy networks and network governance in the EU	210
9.4 Decarbonizing electricity networks	218
9.5 Conclusion	234
10 Multi-level governance in EU climate law	237
10.1 Introduction	237
10.2 Multi-level governance and EU climate law	239
10.3 EU climate law and intra-EU multi-level governance	242
10.4 EU climate law and international multi-level governance	253
10.5 Conclusion	257
11 Human rights and EU climate law	259
11.1 Introduction	259
11.2 International human rights law and climate change	261
11.3 European human rights law and climate change	268
11.4 Effectuating human rights within EU climate law	272
11.5 Human rights and European climate litigation	282
11.6 Conclusion	291
PART IV CONCLUSION	
12 The past and possible future of EU climate law	294
12.1 Introduction	294
12.2 General lessons from the past	294
12.3 Specific lessons for cost-effectiveness and solidarity	297
12.4 The broader picture of EU climate regulation	298
12.5 EU climate law's possible future	300
12.6 Conclusion	303
<i>Index</i>	304