

Contents

1	Introduction	1
	Maryke van Staden and Francesco Musco	
 Part I A focus on Climate, Energy and Local Governments		
2	Motivation for Action	
2.1	Communities, Mitigation and Adaptation	17
	Maryke van Staden	
2.2	Global Action: The Case for Rapid Mitigation in the Stern Review and the More Recent Evidence from the IPCC AR4	31
	Michele Pittini	
2.3	Urban Energy Security	41
	Rian van Staden	
2.4	Rational and Efficient People? Sometimes We Are	53
	Nils Borg	
2.5	Policy Design for Sustainable Integrated Planning: From Local Agenda 21 to Climate Protection	59
	Francesco Musco	
3	Strategic framework supporting local action	
3.1	The International Local Government Climate Roadmap	79
	Monika Zimmermann, Gino Van Begin, and Irene Vergara Cristóbal	
3.2	The Covenant of Mayors: Cities Leading the Fight Against the Climate Change	91
	Pedro Ballesteros Torres and Roman Doubrava	
3.3	ICLEI's Support for Local Climate Action: A Selection of Tools	99
	Maryke van Staden and Christine Klas	

4	Local action – planning and implementation	
4.1	Three Streams of Local Action: Strategy and Policy; Technology and Measures; People and Lifestyle.....	111
	Maryke van Staden and Francesco Musco	
4.2	Urban Renewal: A Particular Challenge for Many European Cities.....	123
	Sander Scheurwater, Ursula Hartenberger, and Laura Lindberg	
4.3	Renewable Energy Technology Roadmap: 20% RES by 2020.....	131
	Christine Lins	
4.4	Financing of Sustainable Energy Operations.....	163
	Marco Bianchi	
5	Framework conditions and support mechanisms	
5.1	Giving Priority to Renewable Energies: The German Renewable Energy Act.....	175
	Ole Langniß and Dieter Seifried	
5.2	Local Climate Change Initiatives in the United States: The Primacy of Short-Term Economic Returns	181
	Peter B. Meyer and Lauren Heberle	
5.3	Local Action on Climate Change in England: Indicators, Targets and Much More	191
	Joan Bennett	
 Part II Local Climate Action Case Studies		
6	Selected case studies illustrating the three streams of action	
6.1.1	Fossil Fuel Free Växjö: Moving Towards the Vision of Zero Emissions (Växjö, Sweden)	201
	Henrik Johanson	
6.1.2	Self-sufficient Community: Vision or Reality? Creating a Regional Renewable Energy Supply Network (Güssing, Austria).....	217
	Dean Marcelja	
6.1.3	A multi-sector Network Approach for an Integrated Local Climate Policy: Think Global, Connect Local (Tilburg, The Netherlands)	229
	Maartje Hazebroek and Hans Schneider	
6.1.4	Tourist Destination Handling Climate Change: A Mediterranean Experience (Almada, Portugal).....	243
	Catarina Freitas, Carlos Sousa, Nuno Lopes, and Pedro Machado	
6.1.5	Climate Change Strategy: Thinking Globally, Acting Locally (Woking, United Kingdom)	257
	Lara Curran	

6.2.1 From Industrial Area to Solar Area: The Redevelopment of Brownfields and Old Building Stock with Clean Energy Solutions (City of Gelsenkirchen, Germany)	275
Wolfgang Jung, Armin Harges, and Wilhelm Schröder	
6.2.2 The Varvarin Energy Clock: Displaying Energy Savings to Mobilise Environmental Initiatives (Varvarin, Republic of Serbia).....	293
Siegfried Brenke and Maja Matejic	
6.2.3 Ecological Waste Management: A Modern Waste Management Approach (Freiburg, Germany)	305
Edith Wild and Klaus Hoppe	
6.2.4 The Minewater Project Heerlen: Low Exergy Heating and Cooling in Practice (City of Heerlen, The Netherlands).....	317
Peter Op't Veld and Erwin Roijen	
6.2.5 The Province of Rovigo Supporting Municipalities with Local Climate Action.....	333
Federico Saccardin and Luigi Ferrari	
6.3.1 Focus on Climate Change Communication: The Climate Smart Campaign in Malmö (City of Malmö, Sweden).....	345
Johanna Ekne	
6.3.2 A Coastal Municipality Using the Local Agenda 21 Approach in Developing an Action Plan on Climate Change (San Sebastián, Spain)	357
Victoria Iglesias Vacas and Ana Juaristi Arrieta	
6.3.3 Reducing Environmental Impact: The 'CAMBIERESTI?' (Will You Change?) Community Involvement Project (Comune di Casalecchio di Reno, Bologna, Italy).....	365
Beatrice Grasselli	
6.3.4 Municipal Climate Protection: Success Through an Integrated Approach (Viernheim, Germany).....	373
Philipp Granzow	
6.3.5 A Systematic Approach to Climate Protection: Towards a Fossil Fuel Free Stockholm 2050 (Stockholm, Sweden).....	389
Jonas Tolf	
6.3.6 Monitoring Energy in Schools in the Veneto Region: The Legambiente Campaign 'Switch to Savings' (Veneto Region, Italy)	403
Marco Boscolo	

7 Conclusion	415
Francesco Musco and Maryke van Staden	
Glossary and Abbreviations	421
Index	429