

# Innovation For Sustainable Electricity Systems

[DOWNLOAD HERE](#)

1;Contents;6 2;Preface;10 3;1 Introduction;11 3.1;1.1 Electricity Systems under Transformation;12 3.2;1.2 Shaping Innovation Towards Sustainability;13 3.3;1.3 Empirical Foci of the Book;14 3.4;1.4 Structure of the Book;16 3.5;References;17 4;2 Transformation and Innovation in Power Systems;18 4.1;2.1 Systems in Flux: An Everlasting Path of Electricity Innovation;18 4.2;2.2 Are we Locked in a Carbon (and Nuclear) Trap?;22 4.3;2.3 Current Stimuli for Change;26 4.4;2.4 Actors and Institutions of Change;32 4.5;References;33 5;3 Towards a Systemic Understanding of Innovation;37 5.1;3.1 Conceptualizing Innovation;37 5.2;3.2 Sustainability;42 5.3;3.3 Systemic Perspectives on Innovation in Literature;45 5.4;3.4 Design of the Innovation Case Studies;47 5.5;References;49 6;4 Micro Cogeneration;52 6.1;4.1 Micro Cogeneration as an Innovation Cluster;52 6.2;4.2 Design Options and Sustainability Potential;55 6.3;4.3 The Innovation Process of Micro Cogeneration;63 6.4;4.4 Shaping the Innovation Process;74 6.5;4.5 Conclusions;78 6.6;References;81 7;5 Carbon Capture and Storage;83 7.1;5.1 CCS as an Innovation to the Electricity System;83 7.2;5.2 Design Options and Sustainability Potential;84 7.3;5.3 The Innovation Process of CCS;99 7.4;5.4 Shaping the Innovation Process;109 7.5;5.5 The Future of CCS in a Sustainable Electricity System;112 7.6;References;115 8;6 Consumer Feedback Through Informative Electricity Bills;121 8.1;6.1 Introduction;121 8.2;6.2 Description of Innovation and Design Options;122 8.3;6.3 Effects and Sustainability Potential of Consumer Feedback;130 8.4;6.4 Process of Innovation and Factors Influencing It;137 8.5;6.5 Possibilities for Shaping;146 8.6;6.6 Conclusions;150 8.7;References;153 9;7 Emissions Trading;157 9.1;7.1 Introduction;157 9.2;7.2 Design Options;158 9.3;7.3 Process of Innovation: Networks, Politics, Institutions;170 9.4;7.4 Shaping the Innovation Process for the Sustainable Development of Electricity Systems;185 9.5;7.5 Conclusions;187 9.6;References;190 10;8 Network Regulation;196 10.1;8.1 Introduction;196 10.2;8.2 Design Options and Sustainability;198 10.3;8.3 Process of Innovation;206 10.4;8.4 Possibilities for Shaping;219 10.5;8.5 Conclusions;223 10.6;References;226 11;9 Innovation Dynamics in the Electricity System: Progressing Towards a Sustainable Path?;231 11.1;9.1 Overview and Summary;231 11.2;9.2 Explaining the Innovation Dynamics;236 11.3;9.3 Shaping the Environment for Innovation Dynamics;243 11.4;9.4 Some Final

Remarks;247 11.5;References;249 EAN/ISBN : 9783790820768 Publisher(s): Springer, Berlin, Physica-Verlag Format: ePub/PDF Author(s): Feess, Eberhard - Hemmelskamp, Jens - Huber, Joseph - Praetorius, Barbara

[DOWNLOAD HERE](#)

Similar manuals: