

# Contents

<b>Introduction</b> . . . . .	1
Christian Hanke, Michael Hülsmann and Dirk Fornahl	
<b>Part I Mobility Needs and Mobility Concepts</b>	
<b>Socio-Economic Aspects of Electric Vehicles: A Literature Review</b> . . .	13
Christian Hanke, Michael Hülsmann and Dirk Fornahl	
<b>Mobility Scenarios for the Year 2030: Implications for Individual Electric Mobility</b> . . . . .	37
Tobias Kuhnimhof, Irene Feige and Peter Phleps	
<b>How Does the Actual Usage of Electric Vehicles Influence Consumer Acceptance?</b> . . . . .	49
Uta Schneider, Elisabeth Dütschke and Anja Peters	
<b>Identifying Consumer Groups with Satisfactory Characteristics for Electric Mobility Usage</b> . . . . .	67
Dominik Santner and Dirk Fornahl	
<b>What Do Potential Users Think About Electric Mobility?</b> . . . . .	85
Christian Hoffmann, Daniel Hinkeldein, Andreas Graff and Steffi Kramer	
<b>Electric Car Sharing as an Integrated Part of Public Transport: Customers' Needs and Experience</b> . . . . .	101
Steffi Kramer, Christian Hoffmann, Tobias Kuttler and Manuel Hendzlik	
<b>Transforming Mobility into Sustainable E-Mobility: The Example of Rhein-Main Region</b> . . . . .	113
Birgit Blätzel-Mink, Monika Buchsbaum, Dirk Dalichau, Merle Hattenhauer and Jens Weber	

<b>Validation of Innovative Extended Product Concepts for E-Mobility</b> . . . . .	131
Jens Eschenbaecher, Stefan Wiesner and Klaus-Dieter Thoben	
 <b>Part II Challenges for Companies and Politics</b>	
<b>Strategic Perspectives for Electric Mobility: Some Considerations About the Automotive Industry</b> . . . . .	155
Richard Colmorn and Michael Hülsmann	
<b>How Knowledge-Based Dynamic Capabilities Help to Avoid and Cope with Path Dependencies in the Electric Mobility Sector</b> . . . .	169
Philip Cordes and Michael Hülsmann	
<b>Safety Aspects of Electric Vehicles: Acoustic Measures, Experimental Analysis, and Group Discussions</b> . . . . .	187
Kathrin Dudenhöffer and Leonie Hause	
<b>Transition Management Towards Urban Electro Mobility in the Stuttgart Region</b> . . . . .	203
Alanus von Radecki	
<b>Assessment of CO<sub>2</sub>-Emissions from Electric Vehicles: State of the Scientific Debate</b> . . . . .	225
Jürgen Gabriel, Philipp Wellbrock and Marius Buchmann	
<b>How to Integrate Electric Vehicles in the Future Energy System?</b> . . . .	243
Patrick Jochem, Thomas Kaschub and Wolf Fichtner	
<b>An Approach Towards Service Infrastructure Optimization for Electromobility</b> . . . . .	265
Tim Hoerstedt and Axel Hahn	
 <b>Part III Practical Insights</b>	
<b>Coping with a Growing Mobility Demand in a Growing City: Hamburg as Pilot Region for Electric Mobility</b> . . . . .	283
Sören Christian Trümper	

<b>The City of Bremen and Its Approach Towards E-Mobility</b> . . . . .	307
Michael Glotz-Richter	
<b>Acceptance of Electric Vehicles and New Mobility Behavior: The Example of Rhine-Main Region</b> . . . . .	319
Petra K. Schaefer, Kathrin Schmidt and Dennis Knese	