Contents

Part I  Policy Frameworks and Decision-Making on Charging Infrastructure Development

Fostering Sustainable Mobility in Europe: The Contributions of the Project “E-Mobility North Sea Region” .......................... 3
Walter Leal Filho, Kathrin Rath, Franziska Mannke, Johanna Vogt, Richard Kotter, Martin Borgqvist, Benjamin Myklebust and Peter van Deventer

EV Policy Compared: An International Comparison of Governments’ Policy Strategy Towards E-Mobility ...................... 27
Martijn van der Steen, R.M. Van Schelven, R. Kotter, M.J.W. van Twist and Peter van Deventer MPA

An Analysis of the Standardization Process of Electric Vehicle Recharging Systems ................................................................. 55
Sjoerd Bakker and Jan Jacob Trip

Addressing the Different Needs for Charging Infrastructure: An Analysis of Some Criteria for Charging Infrastructure Set-up ...... 73
Simon Árpád Funke, Till Gnann and Patrick Plötz

Results of the Accompanying Research of the ‘Modellregionen Elektromobilität’ in Germany for Charging Infrastructure .................. 91
Robert Kuhfuss

Large-Scale Deployment of Public Charging Infrastructure: Identifying Possible Next Steps Forward ................................. 107
Peter van Deventer, Martijn van der Steen, Rogier van Schelven, Ben Rubin and Richard Kotter
Part II   Regional and City Case Studies on E-Mobility Development

Rolling Out E-Mobility in the MRA-Electric Region .......................... 127
Christine van ’t Hull and Maarten Linnenkamp

Electrifying London: Connecting with Mainstream Markets .......... 141
Stephen Shaw and Louise Bunce

Technology Trajectory and Lessons Learned from the Commercial Introduction of Electric Vehicles in North East England ........................................... 161
Colin Herron and Josey Wardle

Stuttgart Region—From E-Mobility Pilot Projects to Showcase Region ......................................................... 179
Rolf Reiner and Holger Haas

Launching an E-Carsharing System in the Polycentric Area of Ruhr .......................... 187
Timm Kannstätter and Sebastian Meerschiff

Cohousing and EV Sharing: Field Tests in Flanders ................. 209
Sidharta Gautama, Dominique Gillis, Giuseppe Pace and Ivana Semanjski

New Electric Mobility in Fleets in the Rural Area of Bremen/Oldenburg ......................................................... 237
Dirk Fornahl and Noreen Wernern

Part III   Technological Advancements and User-Friendly Strategies

To Cluster the E-Mobility Recharging Facilities (RFs) ......................... 255
Eiman Y. ElBanhawy

An Architecture Vision for an Open Service Cloud for the Smart Car ........................................... 281
Matthias Deindl, Marco Roscher and Martin Birkmeier

Inductive Charging Comfortable and Nonvisible Charging Stations for Urbanised Areas ......................................................... 297
Steffen Kümmell and Michael Hillgärtner
Contents ix

Information and Communication Technology for Integrated Mobility Concepts Such as E-Carsharing ........................................ 311
Michael Rahier, Thomas Ritz and Ramona Wallenborn

Thermal Management in E-Carsharing Vehicles—Preconditioning Concepts of Passenger Compartments. . . . 327
Daniel Busse, Thomas Esch and Roman Muntaniol

Towards the Integration of Electric Vehicles into the Smart Grid .... 345
Ghanim Putrus, Gill Lacey and Edward Bentley

Strategies to Increase the Profitability of Electric Vehicles in Urban Freight Transport ......................................................... 367
Tessa T. Taefi, Jochen Kreutzfeldt, Tobias Held and Andreas Fink

Erratum to: New Electric Mobility in Fleets in the Rural Area of Bremen/Oldenburg ...................................................... E1
Dirk Fornahl and Noreen Werner

Conclusions ...................................................................................... 389
E-Mobility in Europe
Trends and Good Practice
Leal Filho, W.; Kotter, R. (Eds.)
2015, XIV, 394 p. 100 illus., Hardcover
ISBN: 978-3-319-13193-1