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| Nota di bibliografia    | Includes bibliographical references at the end of each chapters.  |
| Nota di contenuto       | Foreword; Preface; Acknowledgments; Contents; About the Authors; Part I Background; 1 Introduction; Abstract ; References; 2 Background of the Agricultural Power Supply Situation in India and Andhra Pradesh; Abstract ; 2.1 History of the Indian Power Sector; 2.2 Structure of the Power Sector in India; 2.3 The Vicious Circle of Agricultural Power Supply; References; 3 Strategies and Existing Projects; Abstract ; 3.1 Recent and Ongoing Projects in India; 3.1.1 Public and State-Level Projects; 3.1.2 Foreign Development Cooperation Projects; 3.1.3 Research and Development Projects<br>3.1.4 Community-Driven Projects3.1.5 Summary; 3.2 Discussion of Various Implementation Strategies; 3.2.1 Low-Cost Versus High-Cost |

Solutions; 3.2.2 Technical Solutions and Institutional Requirements; References; 4 Technical Background; Abstract ; 4.1 Introduction; 4.2 Electricity Infrastructure; 4.2.1 Generation; 4.2.2 Transmission; 4.2.3 Distribution; 4.3 Agricultural Pumpsets; 4.4 Power Factor and Capacitors; References; Part II Pilot Project; 5 Introduction; Abstract ; 6 Project Overview; Abstract ; 6.1 Partners; 6.2 Pilot Project Region; 6.3 Aims and Stakeholders; 6.4 Technical Approach  
6.5 Social ApproachReference; 7 Project Steps in Detail; Abstract ; 7.1 Preparation and Planning Phase; 7.1.1 Rationale for Choice of Intervention; 7.1.2 Selection of Feeders; 7.1.3 Social Survey; 7.1.4 Technical Survey; 7.2 Implementation Phase; 7.2.1 Initial Capacitor Selection; 7.2.2 Farmer Awareness-Raising Meetings; 7.2.3 Capacitor Installation; 7.2.4 Establishing Farmer Committees; 7.2.5 Cooperation with CESS; 7.2.6 Major Issues of Phase I; 7.3 Evaluation Phase; 7.3.1 Rationale; 7.3.2 Technical Evaluation Methods; 7.3.2.1 Sequential Method; 7.3.2.2 Batch-Wise Method  
7.3.2.3 Comparison of MethodsReferences; 8 Results; Abstract ; 8.1 Evaluation Results; 8.1.1 Pumpset and DTR Measurement Results; 8.1.2 Marginal Abatement Cost Analysis; 8.2 Observations from the Field; 8.2.1 Social Implementation; 8.2.2 Technical Implementation; Reference; 9 Upscaling Potential; Abstract ; 9.1 Regional Upscaling; 9.2 Technical Upscaling; 9.3 Business Models for Upscaling; 9.4 Political Upscaling; 10 Conclusions and Outlook; Abstract ; Appendix I Technical Parameters; Appendix IITechnical Questionnaire; Appendix IIIDTRC Constitution and Minutes of Meetings  
Appendix IV Letter of Agreement to Join DTRC

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## Sommario/riassunto

This SpringerBrief reviews currently applied and potential solutions for improving the efficiency and quality of rural electricity supply in India, a major bottleneck for agricultural development. It provides background on the current state of supply and reviews recent and ongoing research and development projects. One selected project, designed and conducted by the authors, is outlined in detail. The research findings, project implementation, and evaluation are intended to provide development practitioners, policy makers, and applied researchers with experience from the field. At the core of this Brief is the integration of technical and social solutions, emphasizing the role of collective action, and the merits and demerits of small-scale, technically simple measures.

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