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Nota di contenuto	1. Electricity Access, Decarbonization, and Integration of Renewables: Insights and Lessons from the Energy Transformation in Bangladesh, South Asia, and Sub-Sahara Africa -- 2. Powering up a country into the middle-income club -- 3. 100% Electrification but What Comes Next for Bangladesh? Lessons from Insiders -- 4. Policy Options while Increasing Share of Renewable Energy: Technology Choices for Peaking Power in the Context of Bangladesh -- 5. Low-carbon energy transformations in China, India, Pakistan, and Afghanistan: An overview -- 6.

Consequences of Lockdown due to COVID-19 on the Electricity Generation and Environment in South Asia -- 7. Integrating Wind and Solar in the Indian Power System -- 8. Decentralized Electrification Pathways in Sub-Saharan Africa - Assessment of Experiences and Business models -- 9. Identifying Effective Electrification Approaches and Combinations thereof to meet Universal Electricity Access Targets in Eastern Africa -- 10. Are Mini-grid Projects in Tanzania Financially Sustainable? -- 11. Establishing local power markets and enabling financial access to solar photovoltaic technologies: experiences in rural Tanzania. .

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## Sommario/riassunto

This Open-Access-Book covers different aspects of the low-carbon energy transformation in a unique manner, with a particular focus on two regions, South Asia and Sub-Saharan Africa. The first part of the book provides useful insights on changes and reforms in the energy sector of Bangladesh, while the second part illustrates the low-carbon energy transformation in South Asia and the third part covers lessons from Sub-Saharan Africa. In all of these regions, the energy sector is undergoing major changes, driven by the four D's: Decarbonization, decentralization, digitization, and democratization. Major overhauls are taking place at all levels: The country level, where energy mixes are rapidly changing, the corporate level, where large state-owned and private companies are challenged and new actors are emerging, and the local level, where technical and regulatory change has made citizen engagement and community power an option to replace or at least complement centralized supply structures. About the Editors Sebastian Groh, Associate Professor at BRAC University's Business School (BBS) in Dhaka, Bangladesh; founder and managing director of a startup. Lukas Barner and Georg Heinemann, Workgroup for Infrastructure Policy (WIP) at Technische Universität Berlin (TU Berlin), Germany. Christian von Hirschhausen, Professor of Infrastructure Economics and Board Member of the Microenergy Systems Research Group (MES) at Technische Universität Berlin (TU Berlin), Germany; Research Director at the German Institute for Economic Research (DIW Berlin).

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