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| Titolo | Achieving the Paris Climate Agreement Goals [[electronic resource]] : Global and Regional 100% Renewable Energy Scenarios with Non-energy GHG Pathways for +1.5°C and +2°C // edited by Sven Teske |
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| Edizione | [1st ed. 2019.] |
| Descrizione fisica | 1 online resource (LIX, 491 p. 210 illus., 182 illus. in color.) |
| Disciplina | 621.042 |
| Soggetti | Renewable energy resources Climate change Sustainable development Natural resources Renewable and Green Energy Climate Change Management and Policy Sustainable Development Natural Resource and Energy Economics |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Chapter 1: The scientific status quo of climate change -- Chapter 2: Development of energy markets – past, present and future perspectives -- Chapter 3: 100% renewable energy – the concept -- Chapter 4: Modelling approaches -- Chapter 5: Energy transition – main assumptions (working title) -- Chapter 6: Global Transport – transition concepts -- Chapter 7: Energy Scenario results -- Chapter 8: Non-energy GHG mitigation scenarios -- Chapter 9: Linking Energy Transition and Climate change mitigation -- Chapter 10: Employment projections -- Chapter 11: Requirement of minerals and metals for 100% RE scenarios -- Chapter 12: Discussion, Conclusions and Recommendations. |
| Sommario/riassunto | This open access book presents detailed pathways to achieve 100% renewable energy by 2050, globally and across ten geographical |

regions. Based on state-of-the-art scenario modelling, it provides the vital missing link between renewable energy targets and the measures needed to achieve them. Bringing together the latest research in climate science, renewable energy technology, employment and resource impacts, the book breaks new ground by covering all the elements essential to achieving the ambitious climate mitigation targets set out in the Paris Climate Agreement. For example, sectoral implementation pathways, with special emphasis on differences between developed and developing countries and regional conditions, provide tools to implement the scenarios globally and domestically. Non-energy greenhouse gas mitigation scenarios define a sustainable pathway for land-use change and the agricultural sector. Furthermore, results of the impact of the scenarios on employment and mineral and resource requirements provide vital insight on economic and resource management implications. The book clearly demonstrates that the goals of the Paris Agreement are achievable and feasible with current technology and are beneficial in economic and employment terms. It is essential reading for anyone with responsibility for implementing renewable energy or climate targets internationally or domestically, including climate policy negotiators, policy-makers at all levels of government, businesses with renewable energy commitments, researchers and the renewable energy industry.
