Record Nr. UNINA9910770266103321 Autore Nwokolo Samuel Chukwujindu Titolo Africa's Path to Net-Zero: Exploring Scenarios for a Sustainable Energy Transition / / by Samuel Chukwujindu Nwokolo, Rubee Singh, Shahbaz Khan, Anil Kumar, Sunil Luthra Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2023 Pubbl/distr/stampa **ISBN** 9783031445149 3031445147 Edizione [1st ed. 2023.] Descrizione fisica 1 online resource (329 pages) Collana CSR, Sustainability, Ethics & Governance, , 2196-7083 Altri autori (Persone) SinghRubee KhanShahbaz KumarAnil LuthraSunil 338.9607 Disciplina Soggetti Sustainability Power resources **Economics** African Economics Natural Resource and Energy Economics Political Economy of Energy Africa Economic conditions Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia 1. Introduction - Africa's Net Zero Transition -- 2. Global Investment Nota di contenuto and Development in Africa -- 3. Remedies to the Challenges of Renewable Energy Deployment in Africa -- 4. Influencing The Scale of Africa's Energy Transition -- 5. Technological Pathways to Net-Zero Goals in Africa -- 6. Decarbonizing Hard-to-Abate Sectors in Africa --7. Impacts of Climate Change in Africa -- 8. Scenarios that Could Give Rise to an African Net-Zero Energy Transition -- 9. Africa's Awakening to Climate Action. Sommario/riassunto This book provides a comprehensive analysis of the challenges and

opportunities for achieving a net-zero energy transition in Africa. With a focus on policy, technology, financing, and socio-political factors, the

book presents four potential scenarios for a sustainable energy transition in the continent. The scenarios presented highlight the importance of balancing economic growth with environmental sustainability and social development. While foreign investments in renewable energy could be beneficial, they must be carefully monitored and regulated to prevent exploitation and ensure accountability. The book also emphasizes the need for collaboration and a calculated transition to ensure that all stakeholders are involved in the process. Additionally, the challenges of achieving self-sufficiency and export-free energy are discussed, with the importance of setting limitations and regulations to prevent a vicious cycle of poverty and dependency on foreign aid. With a deep understanding of Africa's environmental, socio-political, and socio-cultural complexities, "Africa's Path to Net-Zero" offers valuable insights for policymakers, investors, and anyone interested in promoting a sustainable energy future for the continent.