

1. Record Nr.	UNINA9910864182103321
Titolo	Carbon Capture, Utilization, and Storage Technologies : Towards More Sustainable Cities // edited by Ali Ahmadian, Ali Elkamel, Ali Almansoori
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2024
ISBN	3-031-46590-3
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (VIII, 240 p. 92 illus., 86 illus. in color.)
Collana	Green Energy and Technology, , 1865-3537
Disciplina	628.532
Soggetti	Energy policy Energy storage Renewable energy sources Sustainability Electric power-plants Energy Policy, Economics and Management Mechanical and Thermal Energy Storage Renewable Energy Power Stations
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	The CCUS Technologies and Standards -- Carbon Capture Technologies and Methods -- Carbon Utilization Technologies and Methods.-Carbon Storage Technologies and Methods -- Integration of CCUS Technologies in the Modern Energy Systems -- Technical Evaluation of CCUS in Modern Energy Systems -- Economic Evaluation of CCUS in Modern Energy Systems -- The CCUS Required Infrastructures in Sustainable Cities -- The Policy Makers Role in CCUS Development in Smart Cities -- The Impact of CCUS Technologies on the Electricity Market.-The Role of CCUS Technologies in the Sustainable Smart Cities -- The Role of CCUS Technologies in Climate Change Mitigation -- Environmental Evaluation of CCUS Impact in Sustainable Cities.
Sommario/riassunto	This book brings together cross-disciplinary research on carbon capture, utilization, and storage (CCUS) to examine the impact of

implementing CCUS tools and technologies on emissions reduction and sustainable development in cities and large metropolitan areas. An expert group of global contributors provides in-depth technical discussions, case studies, and examples with an emphasis on the worldwide application of the latest developments in technology, protocols, implementation, and application of CCUS in power and energy systems. Carbon Capture, Utilization, and Storage Technologies: Towards More Sustainable Cities is an essential multidisciplinary reference for researchers and industry practitioners from engineering, energy, computer science, data science, economics, and operational research working in the energy and environmental fields. Presents interdisciplinary research on carbon capture, utilization, and storage; Examines the potential impact of CCUS on future energy systems; Includes numerous case studies.
