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Titolo	Synergy Development in Renewables Assisted Multi-carrier Systems // edited by Majid Amidpour, Mohammad Ebadollahi, Farkhondeh Jabari, Mohammad-Reza Kolahi, Hadi Ghaebi
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Nota di contenuto	Efficiency improvement from energy, exergy, economic, and environmental viewpoints, and water, energy, and food nexus -- Procedures for storage and carbon capture in energy system set-ups -- Energy procurement in sensitive places and remote areas.
Sommario/riassunto	This book explores the different aspects of energy in human life especially expressing the advanced technologies in renewable energy resources. Due to the environmental pollution caused by fossil fuels and the non-permanent nature of these resources, the move towards the use of renewable energy has accelerated. In recent years, many attempts have been made to improve energy systems' performance by using multi-generation units, and these set-ups have been analyzed from the perspective of energy, exergy, economics, and environmental indicators. The book's primary goal is the effort to introduce new methods for assessing and upgrading the synergy. Therefore it examines sustainable practices such as water-energy-food nexus in

poly-generation units, novel desalination systems, and smart greenhouses. One of the significant issues in these energy systems is the storage methods; for instance, carbon capture to reduce environmental pollution and the hydrogen store for the utilization in supplementary fuel. Also, robust optimization, uncertainty and risk-aware probabilistic analysis, energy management, and power supply of sensitive places such as oil rig platforms by renewables are examined.
