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Sommario/riassunto	This monograph explores the potential of blockchain technology to facilitate the transition in the oil and gas (O&G) industry. As the world shifts towards a sustainable energy future, the oil and gas industry faces significant challenges and opportunities. Focusing on the development of a sustainable O&G industry, the book delves into the role of climate and financial markets in the energy sector, applications

of blockchain in sustainable energy development, and the challenges of legal and regulatory issues in applying blockchain technology. It provides insight into how the energy industry is already working on reducing carbon emissions and paving the way to a sustainable future with detailed examples of reducing methane emissions, carbon credit markets, sustainable aviation fuels, and plastics. The book also examines how O&G companies could further their sustainability initiatives using blockchain technology for emission data monitoring, carbon capture, utilization, storage, and supply-chain management to develop clean products. .