Record Nr. UNISA996199323303316 Autore Islam Rafigul <1959-> Titolo The greening of petroleum operations [[electronic resource] /] / M.R. Islam, A.B. Chhetri, M.M. Khan Salem, Mass.:,: Scrivener,, c2010 Pubbl/distr/stampa **ISBN** 1-282-78309-2 9786612783098 1-61344-172-X 0-470-92237-0 0-470-92236-2 Descrizione fisica 1 online resource (884 p.) Collana Wiley-Scrivener;; 27 THEi Wiley ebooks Altri autori (Persone) ChhetriA. B KhanM. M Disciplina 665.5 Soggetti Petroleum industry and trade - Environmental aspects Petroleum chemicals industry - Environmental aspects Green technology Best management practices (Pollution prevention) Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references and index. Nota di contenuto The Greening of Petroleum Operations; Contents; Foreword; 1 Introduction: 2 A Delinearized History of Civilization and the Science of Matter and Energy; 3 Fundamentals of Mass and Energy Balance; 4 A True Sustainability Criterion and Its Implications; 5 Scientific Characterization of Global Energy Sources; 6 Scientific Characterization of Light and Light Sources; 7 The Science of Global Warming; 8 Diverging Fates of Sustainable and Unsustainable Products; 9 Scientific Difference Between Sustainable and Unsustainable Processes: 10 Comparison of Various Energy Production Schemes 11 The Zero-Waste Concept and its Application to Petroleum Engineering12 Sustainable Refining and Gas Processing: 13 Flow Assurance in Petroleum Fluids; 14 Sustainable Enhanced Oil Recovery;

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Sommario/riassunto

The Future of Petroleum Operations This state-of-the-art text analyzes some of the most contentious issues in the energy industry, covering new and greener processes for engineers and scientists and urging them to move petroleum operations closer to sustainability. Although petroleum is still the world's most diverse, efficient, and abundant energy source, there is a growing initiative from global political and industry leaders to ""go green,"" because of climate concerns and high gasoline prices. This book investigates and details how to do that. This groundbreaking new volume: