

Unconventional Gas Shales:

Development, Technology, and Policy Issues



Congressional Research Service

Unconventional Gas Shales Development Technology And Policy Issues

Oguz A. Soysal, Hilkat S. Soysal



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Unconventional Gas Shales Anthony Andrews, Peter Folger, Marc Humphries, Claudia Copeland, Mary Tiemann, Robert Meltz, Cynthia Brougher, 2009 This report discusses the Barnett and Marcellus Shale formations which serve to illustrate the technical and policy issues that are most likely common to developing all gas shales

Unconventional Gas Shales Anthony Andrews, 2010-02 In the past the oil and gas industry considered gas locked in tight impermeable shale uneconomical to produce However advances in directional well drilling and reservoir stimulation have dramatically increased gas production from unconventional shales There may be as much as 200 trillion cubic feet of natural gas technically recoverable from these shales There is an expectation that the demand for natural gas will increase Developing these shales comes with some controversy Contents of this report 1 Background 2 Unconventional Gas Shale Resources in the U S 3 Drilling and Development Technology 4 Leasing Issues for Gas Development 5 Fed and State Laws and Regulations Affecting Gas Shale Development Illus

Unconventional Gas Shales CONGRESSIONAL RESEARCH. SERVICE, 2013-06-15 In the past the oil and gas industry considered gas locked in tight impermeable shale uneconomical to produce However advances in directional well drilling and reservoir stimulation have dramatically increased gas production from unconventional shales The United States Geological Survey estimates that 200 trillion cubic feet of natural gas may be technically recoverable from these shales Recent high natural gas prices have also stimulated interest in developing gas shales Although natural gas prices fell dramatically in 2009 there is an expectation that the demand for natural gas will increase Developing these shales comes with some controversy though The hydraulic fracturing treatments used to stimulate gas production from shale have stirred environmental concerns over excessive water consumption drinking water well contamination and surface water contamination from both drilling activities and fracturing fluid disposal

Unconventional Gas Shales Anthony Andrews, Peter Folger, Marc Humphries, Claudia Copeland, Mary Tieman, Robert Meltz, Cynthia Brougher, Congressional Service, 2012-04-29 In the past the oil and gas industry considered gas locked in tight impermeable shale uneconomical to produce However advances in directional well drilling and reservoir stimulation have dramatically increased gas production from unconventional shales The United States Geological Survey estimates that 200 trillion cubic feet of natural gas may be technically recoverable from these shales Recent high natural gas prices have also stimulated interest in developing gas shales Although natural gas prices fell dramatically in 2009 there is an expectation that the demand for natural gas will increase Developing these shales comes with some controversy though The hydraulic fracturing treatments used to stimulate gas production from shale have stirred environmental concerns over excessive water consumption drinking water well contamination and surface water contamination from both drilling activities and fracturing fluid disposal The saline flowback water pumped back to the surface after the fracturing process poses a significant environmental management challenge in the Marcellus region The flowback s high content of total dissolved solids TDS and other contaminants must be disposed of or

adequately treated before discharged to surface waters The federal Clean Water Act and state laws regulate the discharge of this flowback water and other drilling wastewater to surface waters while the Safe Drinking Water Act SDWA regulates deep well injection of such wastewater Hydraulically fractured wells are also subject to various state regulations Historically the EPA has not regulated hydraulic fracturing and the 2005 Energy Policy Act exempted hydraulic fracturing from SDWA regulation Recently introduced bills would make hydraulic fracturing subject to regulation under SDWA while another bill would affirm the current regulatory exemption Gas shale development takes place on both private and state owned lands Royalty rates paid to state and private landowners for shale gas leases range from 12 % to 20% The four states New York Pennsylvania Texas and West Virginia discussed in this report have shown significant increases in the amounts paid as signing bonuses and increases in royalty rates Although federal lands also overlie gas shale resources the leasing restrictions and the low resource potential may diminish development prospects on some federal lands The practice of severing mineral rights from surface ownership is not unique to the gas shale development Mineral owners retain the right to access surface property to develop their holdings Some landowners however may not have realized the intrusion that could result from mineral development on their property Although a gas transmission pipeline network is in place to supply the northeast United States gas producers would need to construct an extensive network of gathering pipelines and supporting infrastructure to move the gas from the well fields to the transmission pipelines as is the case for developing any new well field

Energy: Natural Gas Gene Whitney, Carl E. Behrens, 2009-12-31 This edition examines the production and use of natural gas natural gas imports and exports storage and other pertinent topics

Energy for Sustainable Society Oguz A. Soysal, Hilkat S. Soysal, 2020-05-18 A handbook of sustainable energy covering entire energy aspects from present status to future alternatives under one umbrella This book takes an interdisciplinary system approach to evaluating energy systems so that readers can gain the necessary technical foundation to perform their own performance evaluations and understand their interactions with socioeconomic indicators Topics include the current and future availability of primary sources energy supply chain conversion between different forms of energy security of energy supply and efficient end use of energy sources Each chapter provides readers with comprehensive background information an outline of the current technologies and potential future developments The book also examines the global economic societal ethical and environmental issues associated with currently used energy technologies

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Environmental Impacts of Hydraulic Fracturing Frank R. Spellman, 2024-10-03 There is a strong need for further innovation and the development of viable renewable energy sources Recent technological advances now allow natural gas supplies previously believed inaccessible or nonexistent to be discovered mined and processed for both industrial and consumer use The technology a controversial process called hydraulic fracturing has greatly expanded natural gas production in the United States and elsewhere As these practices have become more commonplace concerns about the related environmental and public health impacts have also increased one of the most significant concerns regarding the fluids that are injected into rock formations to cause the fracturing which contain potentially hazardous chemical additives *Environmental Impacts of Hydraulic Fracturing* is a balanced and comprehensive guide to all aspects of hydraulic fracturing and covers all facets of the issue including ongoing controversies about possible water pollution drinking water contamination and the potential for harmful chemical exposure The author discusses both the pros and cons of hydraulic fracturing explaining the process in great detail Arguably the first book of its kind this is the go to text on the use and impacts of hydraulic fracturing Includes suggestions and recommendations on how to mitigate environmental damage caused by hydraulic fracturing Weighs the pros and cons of hydraulic fracturing Describes the benefits of hydraulic fracturing and its importance for potential energy independence Largely updated for this new second edition

Energy's Water Demand: Trends, Vulnerabilities, and Management Nicole T. Carter, 2010 The nation's energy choices embody many tradeoffs Water use is one of those tradeoffs The energy choices before Congress represent vastly different demands on domestic freshwater The energy sector's water consumption is projected to rise 50% from 2005 to 2030 This rising water demand derives from both an increase in the amount of energy demanded and shifts to more water intense energy sources and technologies This report discusses this issue as well as related issues that may arise for the 112th Congress

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Liberating Energy from Carbon: Introduction to Decarbonization Nazim Muradov, 2014-04-07 Liberating Energy from Carbon analyzes energy options in a carbon constrained world Major strategies and pathways to decarbonizing the carbon intensive economy are laid out with a special emphasis on the prospects of achieving low risk atmospheric CO₂ levels The opportunities and challenges in developing and bringing to market novel low and zero carbon technologies are highlighted from technical economic and environmental viewpoints This book takes a unique approach by treating carbon in a holistic manner tracking its complete transformation chain from fossil fuel sources to the unique properties of the CO₂ molecule to carbon capture and storage and finally to CO₂ industrial utilization and its conversion to value added products and fuels This concise but comprehensive sourcebook guides readers through recent scientific and technological developments as well as commercial projects that aim for the decarbonization of the fossil fuel based economy and CO₂ utilization that will play an increasingly important role in the near and mid term future This book is intended for researchers engineers and students working and studying in practically all areas of energy technology and alternative energy sources and fuels

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