

# The Shale Energy Revolution A Lawyers Guide

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## **Burn Out**

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The shale gas revolution has created an unparalleled opportunity for investment and economic development while the industry's fast-paced and unconventional growth has resulted in a vast wave of litigation issues. This concise guide explains the fundamentals of the geology, exploration, drilling and production of shale plays. It identifies common litigation issues and contractual disputes, and provides a regional overview of the statutory and regulatory schemes that govern water use in oil and gas producing states."

### **The Absent Superpower**

This open access book is an encyclopaedic analysis of the current and future energy system of the world's most populous country and second biggest economy. What happens in China impacts the planet. In the past 40 years China has achieved one of the most remarkable economic growth rates in history. Its GDP has risen by a factor of 65, enabling 850,000 people to rise out of poverty. Growth on this scale comes with consequences. China is the world's biggest consumer of primary energy and the world's biggest emitter of CO<sub>2</sub> emissions. Creating a prosperous and harmonious society that delivers economic growth and a high quality of life for all will require radical change in the energy sector, and a rewiring of the economy more widely. In China's Energy Revolution in the Context of the Global Energy Transition, a team of researchers from the Development Research Center of the State Council of China and Shell International examine how China can revolutionise its supply and

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use of energy. They examine the entire energy system: coal, oil, gas, nuclear, renewables and new energies in production, conversion, distribution and consumption. They compare China with case studies and lessons learned in other countries. They ask which technology, policy and market mechanisms are required to support the change and they explore how international cooperation can smooth the way to an energy revolution in China and across the world. And, they create and compare scenarios on possible pathways to a future energy system that is low-carbon, affordable, secure and reliable. .

### **The Natural Gas Market**

This book answers the following questions: How will the global oil and gas market change in the next decade? How does the United States become the world's biggest oil and gas producer? What is the current condition of China's Shale Industry and energy security? Is hydraulic fracturing and horizontal drilling technology cheered or feared? Is energy production driven by economy or environment? Who are the major competitors in this market? This book covers not only macro analysis at country-level, but also micro analysis at firm-level, which helps investigate this industry more comprehensively.

### **The Fracking Debate**

In 2014's *The Accidental Superpower*, geopolitical strategist Peter Zeihan made the case that geographic, demographic and energy trends were

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unravelling the global system. Zeihan takes the story a step further in *The Absent Superpower*, mapping out the threats and opportunities as the world descends into Disorder.

### **Natural Gas**

Over the past six decades federal regulatory agencies have attempted different strategies to regulate the natural gas industry in the United States. All have been unsuccessful, resulting in nationwide gas shortages or massive gas surpluses and costing the nation scores of billions of dollars. In addition, partial deregulation has led the regulatory agency to become more involved in controlling individual transactions among gas producers, distributors, and consumers. In this important book, Paul MacAvoy demonstrates that no affected group has gained from these experiments in public control and that all participants would gain from complete deregulation. Although losses have declined with partial deregulation in recent years, current regulatory practices still limit the growth of supply through the transmission system. MacAvoy's history of the regulation of natural gas is a cautionary tale for other natural resource or network industries that are regulated or are about to be regulated. /DIV

### **The New Map**

*Windfall* is the boldest profile of the world's energy resources since Daniel Yergin's *The Quest*, asserting that the new energy abundance—due to oil and gas

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resources once deemed too expensive—is transforming the geo-political order and is boosting American power. “Riveting and comprehensive smart, deeply researched primer on the subject.” —The New York Times Book Review As a new administration focuses on driving American energy production, O’Sullivan’s “refreshing and illuminating” (Foreign Policy) *Windfall* describes how new energy realities have profoundly affected the world of international relations and security. New technologies led to oversupplied oil markets and an emerging natural gas glut. This did more than drive down prices—it changed the structure of markets and altered the way many countries wield power and influence. America’s new energy prowess has global implications. It transforms politics in Russia, Europe, China, and the Middle East. O’Sullivan considers the landscape, offering insights and presenting consequences for each region’s domestic stability as energy abundance upends traditional partnerships, creating opportunities for cooperation. The advantages of this new abundance are greater than its downside for the US: it strengthens American hard and soft power. This is “a powerful argument for how America should capitalise on the ‘New Energy Abundance’” (The Financial Times) and an explanation of how new energy realities create a strategic environment to America’s advantage.

### **The 'shale Gas Revolution'**

Looks at the clash between gas/oil proponents and supports of alternative energies and offers a plan for

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the future that combines the best of both worlds.

### **Shale Gas: Ecology, Politics, Economy**

For the updated paperback edition of *Under the Surface*, Tom Wilber has written a new chapter and epilogue covering developments since the book's initial publication. Chief among these are the home rule movement and accompanying social and legal events leading up to an unprecedented ban of fracking in New York state, and the outcome of the federal EPA's investigation of water pollution just across the state border in Dimock, Pennsylvania. The industry, with powerful political allies, effectively challenged the federal government's attempts to intervene in drilling communities in Pennsylvania, Wyoming, and Texas with water problems. But it met its match in a grassroots movement—known as "fractivism"—that sprouted from seeds sown in upstate New York community halls and grew into one of the state's most influential environmental movements since Love Canal. Wilber weaves a narrative tracing the consequences of shale gas development in northeast Pennsylvania and central New York through the perspective of various stakeholders. Wilber's evenhanded treatment explains how the revolutionary process of fracking has changed both access to our domestic energy reserves and the lives of people living over them. He gives a voice to all constituencies, including farmers and landowners tempted by the prospects of wealth but wary of the consequences; policymakers struggling with divisive issues concerning free

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enterprise, ecology, and public health; and activists coordinating campaigns based on their respective visions of economic salvation and environmental ruin. Throughout the book, Wilber illustrates otherwise dense policy and legal issues in human terms and shows how ordinary people can affect extraordinary events.

### **Fractured Communities**

Meet Michael Skelly, the man boldly harnessing wind energy that could power America's future and break its fossil fuel dependence in this "essential, compelling look into the future of the nation's power grid" (Bryan Burrough, author of *The Big Rich*). The United States is in the midst of an energy transition. We have fallen out of love with dirty fossil fuels and want to embrace renewable energy sources like wind and solar. A transition from a North American power grid that is powered mostly by fossil fuels to one that is predominantly clean is feasible, but it would require a massive building spree—wind turbines, solar panels, wires, and billions of dollars would be needed. Enter Michael Skelly, an infrastructure builder who began working on wind energy in 2000 when many considered the industry a joke. Eight years later, Skelly helped build the second largest wind power company in the United States—and sold it for \$2 billion. Wind energy was no longer funny—it was well on its way to powering more than 6% of electricity in the United States. Award-winning journalist, Russel Gold tells Skelly's story, which in many ways is the story of our nation's evolving relationship with

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renewable energy. Gold illustrates how Skelly's company, Clean Line Energy, conceived the idea for a new power grid that would allow sunlight where abundant to light up homes in the cloudy states thousands of miles away, and take wind from the Great Plains to keep air conditioners running in Atlanta. Thrilling, provocative, and important, Superpower is a fascinating look at America's future.

### **After the US Shale Gas Revolution**

#### **Under the Surface**

This book highlights various aspects of shale gas production and discusses the associated problems, which have greatly influenced the current situation on the global gas market. It focuses on issues such as production technologies, environmental protection, and the impacts of shale gas production on human beings. Further, it investigates the role of shale gas in the development and implementation of foreign policy of many nations that welcomed the possibility to produce this hydrocarbon in their own countries. Taking into consideration the information published by world energy research centers, the prospects of shale gas production in different regions of the world are examined in detail. Given its coverage and scope, the book will greatly benefit specialists in the areas of hydrocarbon production, international relations and foreign policy, world economics and technologies, ecology and environmental protection.

## **The Frackers**

There has been ever increasing interest in understanding the various aspects of available resources and production, in terms of need and supply, conservation and environmental impacts and so on. From the current energy scenario, it is very clear that there are serious challenges related in achieving energy sustainability and security worldwide. The aim of this book is to present an overview of progress made towards energy sustainability addressing concerns regarding carbon emission and clean energy resources. Keeping this in mind, the book has chapters on all major energy sources which are being utilized at present, along with those having potential prospects for future.

## **Windfall**

Shale Gas: Exploration and Environmental and Economic Impacts explores the shale gas exploration and production activities that are increasing globally, also presenting a basic understanding on the geological, geochemical, and geophysical aspects. The book is a key reference that is useful for researchers, the oil and gas industry, and policymakers in gas producing and prospective countries. Users will find chapters on hydraulic fracturing and shale gas drilling, as well as the environmental and economic impacts of these activities. Further chapters include case studies on the shale gas revolution in the United States and other producing countries around the world. Provides

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wide-ranging coverage of both the environmental and economic impacts of shale gas exploration Includes case studies that describe the prolific and potential shale gas systems from both producing and prospective countries Appeals to both those in academia and those in the unconventional gas exploration industry

### **Alternative Energy and Shale Gas Encyclopedia**

The last decade has seen a revolution in global energy. First, we saw explosive growth in demand from Asia's rising powers, which fueled fears about scarcity and conflict. But we've also seen an American revolution in technology and markets, resulting in a dramatic increase in supply. This is strengthening America's hand in the world—but it's not without complications. There are major security consequences of these shifts. Among the most consequential are China and India, Asia's emerging giants, which are increasingly exposed to political risks associated with energy risks, as well as the energy flows, pivoting to Asia. Meanwhile the great powers struggle to balance their need for fossil fuels with a mounting effort to tackle climate change. The top powers, and the United States above all, face a strategic choice: whether to use energy as a weapon of geopolitics, or as a tool of a stable order.

CONTENTS Introduction 1. The President and the King—Key Messages of the Book 2. The Energy Revolutions—A Primer Geopolitics in Flux—The Players 3. Choices—Scenarios, and the Choice the Powers Confront 4. Rough Seas

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Ahead—The Great Powers' Search for Energy Security  
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of Global Energy Governance 11. Leadership Choices

### **China's Energy Revolution in the Context of the Global Energy Transition**

Energy opportunities and challenges

### **Lacustrine Shale Gas**

The riveting, untold story of the men who are transforming global energy. In five years, the United States has seen a historic burst of oil and natural gas production, easing our insatiable hunger for energy. A new drilling process called fracking has made us the world's fastest growing energy power, on track to pass Saudi Arabia by 2020. But despite headlines and controversy, no previous book has shown how the revolution really happened. *The Frackers* tells the dramatic tale of how a group of ambitious and headstrong wildcatters ignored the ridicule of experts and derision of colleagues to pursue massive, long-overlooked deposits. Against all odds, they changed the world—and made astonishing fortunes in the process. Zuckerman's exclusive access enabled him to get close to men like George Mitchell, who developed a new way to drill for gas in shale rock; Harold Hamm, who discovered so much oil he's now

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worth more than the estate of Steve Jobs; and Aubrey McClendon, who lost more than \$2 billion on a misguided gambit. Zuckerman shows how the frackers are now using their wealth to shake up Hollywood, education, politics, sports, and other fields, much like the Rockefellers and Gettys before them. He also explores the debate over the environmental risks of fracking, and whether those risks are worth it for the United States to achieve energy independence and for the rest of the world to follow.

## **OPEC in a Shale Oil World**

As the United States aggressively expands its exports of liquefied natural gas, it stands poised to become an energy superpower. This unanticipated reality is rewriting the conventional rules of intercontinental gas trade and realigning strategic relations among the United States, the European Union, Russia, China and beyond, as Agnia Grigas shows.

## **The Quest**

Introduction -- The end of the commodity super-cycle -- Binding carbon constraints -- An electric future -- The US: the lucky country -- The Middle East: more trouble to come -- Russia: blighted by the resource curse -- China: the end of the transition -- Europe: not as bad as it seems -- The gradual end of big oil -- Energy utilities: a broken model -- The new energy markets and the economics of the Internet -- Conclusion

## **The Power Surge**

While environmental disputes and conflicts over fossil fuel extraction have grown in recent years, few issues have been as contentious in the twenty-first century as those surrounding the impacts of unconventional natural gas and oil development using hydraulic drilling and fracturing techniques—more commonly known as “fracking”—on local communities. In *Fractured Communities*, Anthony E. Ladd and other leading environmental sociologists present a set of crucial case studies analyzing the differential risk perceptions, socio-environmental impacts, and mobilization of citizen protest (or quiescence) surrounding unconventional energy development and hydraulic fracking in a number of key U.S. shale regions. *Fractured Communities* reveals how this contested terrain is expanding, pushing the issue of fracking into the mainstream of the American political arena.

## **The Boom**

The “best all-around book yet on fracking” (San Francisco Chronicle) from a Pulitzer Prize finalist: “Gold’s work is a tour de force of contemporary journalism” (Booklist). First invented in 1947, hydraulic fracturing, or fracking, has not only become a major source of energy, it is changing the way we use energy, and the energy we use. It is both a threat and a godsend for the environment, and it is leading the revival of manufacturing in the United States. A definitive narrative history, *The Boom* follows the

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twists and turns in the development and adoption of this radical technology. It is a thrilling journey filled with colorful characters: the green-minded Texas oilman who created the first modern frack; a bare-knuckled Oklahoman natural gas empire-builder who gave the world an enormous new supply of energy and was brought down by his own success and excesses; an environmental leader whose embrace of fracking brought an end to his public career; and an aging fracking pioneer who is now trying to save the industry from itself. A fascinating and exciting exploration of one of the most controversial and promising sources of energy, *The Boom* “brings new clarity to a subject awash in hype from all sides...a thoughtful, well-written, and carefully researched book that provides the best overview yet of the pros and cons of fracking. Gold quietly leads both supporters and critics of drilling to consider other views” (Associated Press).

### **The New Geopolitics of Natural Gas**

Over roughly the past decade, oil and gas production in the United States has surged dramatically—thanks largely to technological advances such as high-volume hydraulic fracturing, more commonly known as “fracking.” This rapid increase has generated widespread debate, with proponents touting economic and energy-security benefits and opponents highlighting the environmental and social risks of increased oil and gas production. Despite the heated debate, neither side has a monopoly on the facts. In this book, Daniel Raimi gives a balanced and

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accessible view of oil and gas development, clearly and thoroughly explaining the key issues surrounding the shale revolution. The Fracking Debate directly addresses the most common questions and concerns associated with fracking: What is fracking? Does fracking pollute the water supply? Will fracking make the United States energy independent? Does fracking cause earthquakes? How is fracking regulated? Is fracking good for the economy? Coupling a deep understanding of the scholarly research with lessons from his travels to every major U.S. oil- and gas-producing region, Raimi highlights stories of the people and communities affected by the shale revolution, for better and for worse. The Fracking Debate provides the evidence and context that have so frequently been missing from the national discussion of the future of oil and gas production, offering readers the tools to make sense of this critical issue.

### **Shale Oil and Gas Handbook**

RAMADy, Mahdi Opec in a SHALE oil world -where to NEXT? With PREFACE by Dr. Sadad Al Hussein , former Board Member and Executive Vice President , Saudi Aramco. "OPEC has played an important role since its founding and continues to do so, but it has to recognize that this role has now changed and the organization has to adapt to new challenges. This book provides some possible solutions" Abdulsamad Al Awadhi, former Kuwait National Representative at OPEC . "Authoritative, well-informed, and excellent account of the role of OPEC in managing the oil

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market, present, past, and future" Hassan Qabazard, former Director of Research Division , OPEC. ". The call for action by Mohamed Ramady and Wael Mahdy in this book makes it clear that time, and not oil, is the precious commodity that is running out fast on OPEC's side", Sadad Al Hussein, former Board Member and EVP Saudi Aramco "OPEC is dead. Long live OPEC". The organization is now going through a mid life crisis in its 54 years of existence trying to figure out where it goes next in a world where OPEC has been relegated from being the energy swing producer, and Saudi Arabia as the 'Sultan of the Swing,' to one where it now faces competition from both non- OPEC traditional well as non-conventional shale producers. The Authors examine how OPEC has had to come to terms with the reality that the earlier decades 'call on OPEC' has now been replaced by a 'call on non-OPEC' and that a new 'swing' has been identified- the producers of shale oil. Drawing upon the Authors combined academic and practical first hand insights on OPEC, the book discusses how a new OPEC paradigm has emerged following the oil price rout of 2014, whereby the organization's principal concern is now protecting market share, without being in charge unlike earlier fleeting periods of the late 1970's, which brought with it a lasting myth of the OPEC cartel. Mohamed Ramady is Visiting Associate Professor, King Fahd University of Petroleum and Minerals, Saudi Arabia; Wael Mahdi is Bloomberg OPEC Energy Correspondent.

### **Shale Energy Revolution**

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China's Solar-Powered Revolution China's New Energy Revolution explains how China can tackle its energy bottleneck and achieve a sustainable, peaceful rise by taking the lead in the solar industry. The author covers all the important issues from the vantage points of the economy, society, industry, and business. He explores current and future strategies, policies, and measures that China must take in this round of the new industrial revolution. Finally, he explains why he believes China will lead the world in the solar industry.

### **Energy Security and Sustainability**

After 20 years at different positions in the gas sector, from the policy side to trading floors, the author gives an overview of the major gas issues and elaborates on the consequences of the US shale gas revolution. The first part of the book provides basic knowledge and gives needed tools to better understand this industry, that often stands, in sandwich, between upstream oil and utilities. After extensive research, publication and teaching, the author shares his insights on fundamental issues all along the gas chain and explains the price mechanisms ranging from oil-indexation to spot. The second part looks into the future of worldwide gas balance. To supply growing markets, the major resource holder, Russia, is now in direct competition with the major gas producer, the US. China has the potential not only to select the winner but also to decide the pricing principle for all Asian buyers in 2020. As China is a new and growing gas importer and has a lower price tolerance than

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historical Asian buyers (Japan and South Korea), it is highly possible that, against basic geography, China selects waterborne US LNG versus close Russian pipe gas, to achieve lower import price. Europe, so risk adverse that it won't be able to take any decision regarding shale gas production on this side of 2020, should see its power fading on the energy scene and would rely more on Russia. Gas geopolitics could tighten Russia stronghold on Europe, on one side, and create a flourishing North America-Asian trade This book is accessible to ail and will particularly interest readers seeking a global gas perspective where economics and geopolitics mix. It can be read as an economic novel where billions of \$ are invested to shape tomorrow energy world or as a geopolitical thriller where Russia and the US compete to impose their respective agenda, leaving China tn select the winner.

### **Fracking**

Lacustrine Shale Gas: Case Study from the Ordos Basin examines the special sedimentation and formation environment based on the actual exploration of lacustrine shale gas. Using the Chang7 black shale of Yanchang formation in Ordos basin as an example, this book deeply dissects the Lacustrine shale geological characteristics and offers fresh insights into Lacustrine shale geochemistry, shale reservoir, hydrocarbon accumulation and resource evaluation. The book not only enriches, develops and contributes to new theories of shale gas exploration, but also contributes to a new research field, lacustrine

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shale gas exploration. Shale gas is the mixed phase natural gas that includes adsorbed phase and free phase gas. It is accumulated in the rich organic matter in shale. In recent years, with great changes in global oil and gas exploration and energy supply situation, shale gas has attracted a lot of attention, becoming the focus of the energy industry. Reflects the development of world-leading shale gas exploration technology in China Analyzes first-hand experimental data and scientific research methods on the geological characteristics of lacustrine shale gas Systematically discusses the theory of lacustrine shale gas exploration, from source rock characteristics, shale reservoir characteristics, and shale gas accumulation, to shale gas resources evaluation Provides practical guidance by using the Ordos basin as example

### **The Domino Effect**

This book examines the economics and related impacts of unconventional shale gas development. While focusing on the Marcellus and Utica Shales in the Mid-Atlantic region, additional insights from other regions are included to provide a broader view of these issues. Shale gas development in recent years has changed the energy discussion in the US, as existing reserves of natural gas coupled with horizontal drilling and hydraulic fracturing make exploitation of these reserves economically feasible. The importance of natural gas is seen as likely to continue to expand over the coming years, and is expected to increase even further with environmental

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considerations, such as greenhouse gas emissions. Horizontal drilling and hydraulic fracturing producing natural gas from deposits such as the Marcellus Shale is making the US a net producer of natural gas. Previous studies have examined the economic impact of exploration and production in the region. Other studies have addressed legal, environmental, biodiversity, and public health impacts of unconventional shale development. This is the first volume to focus solely on the economics and related financial impacts of this development. This book not only fills the research gap, but also provides information that policy makers and the public need to better understand this pressing issue.

### **Superpower**

The Fossil Fuel Revolution: Shale Gas and Tight Oil describes the remarkable new energy resources being obtained from shale gas and tight oil through a combination of directional drilling and staged hydraulic fracturing, opening up substantial new energy reserves for the 21st Century. The book includes the history of shale gas development, the technology used to economically recover hydrocarbons, and descriptions of the ten primary shale gas resources of the United States. International shale resources, environmental concerns, and policy issues are also addressed. This book is intended as a reference on shale gas and tight oil for industry members, undergraduate and graduate students, engineers and geoscientists. Provides a cross-cutting view of shale gas and tight oil in the context of

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geology, petroleum engineering, and the practical aspects of production Includes a comprehensive description of productive and prospective shales in one book, allowing readers to compare and contrast production from different shale plays Addresses environmental and policy issues and compares alternative energy resources in terms of economics and sustainability Features an extensive resource list of peer-reviewed references, websites, and journals provided at the end of each chapter

### **The Shale Energy Revolution**

Reveals how gas resources are transforming the global energy industry, explaining the key technologies, identifying nations and regions that may achieve unexpected energy independence, and the environmental risks.

### **The Green and the Black**

A guide to environmental and communication issues related to fracking and the best approach to protect communities Environmental Considerations Associated with Hydraulic Fracturing Operations offers a much-needed resource that explores the complex challenges of fracking by providing an understanding of the environmental and communication issues that are inherent with hydraulic fracturing. The book balances the current scientific knowledge with the uncertainty and risks associated with hydraulic fracking. In addition, the authors offer targeted approaches for helping to keep communities safe. The

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authors include an overview of the historical development of hydraulic fracturing and the technology currently employed. The book also explores the risk, prevention, and mitigation factors that are associated with fracturing. The authors also include legal cases, regulatory issues, and data on the cost of recovery. The volume presents audit checklists for gathering critical information and documentation to support the reliability of the current environmental conditions related to fracking operations and the impact fracking can have on a community. This vital resource: Contains the technical information and mitigation recommendations for safety and environmental issues related to hydraulic fracturing Offers an historical overview of conventional and unconventional oil and gas drilling Explains the geologic and technical issues associated with fracking of tight sand and shale formulations Presents numerous case studies from the United States EPA and other agencies Discusses issues of co-produced waste water and induced seismicity from the injection of wastewater Written for environmental scientists, geologists, engineers, regulators, city planners, attorneys, foresters, wildlife biologists, and others, Environmental Considerations Associated with Hydraulic Fracturing Operations offers a comprehensive resource to the complex environmental and communication issues related to fracking.

### **Environmental Considerations Associated with Hydraulic Fracturing Operations**

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Over the past two decades, "fracking" has led to a revolution in shale gas production. For some, shale gas promised economic opportunities, cheaper energy bills, and an alternative to coal. For others, shale gas was fool's gold. Critics contend that the shale boom has occurred in a regulatory Wild West, that the response has been fractured and ineffective, or that the harmful environmental and health consequences exceed the benefits from shale gas production. The Political Economy of Fracking argues that the criticism of the shale revolution has been misplaced. The authors use insights from a diversity of perspectives in political economy to understand why the shale boom occurred, who won in the race for shale, and who was left behind. The book explains how private property rights and entrepreneurs led to the shale boom. It contends that polycentric governance, which encourages a diversity of regulatory responses, is a virtue because it generates knowledge about the most appropriate ways to regulate shale development. Private property rights and political institutions that provide for local self-governance also helped to ensure that the benefits of shale gas production exceeded its costs. The authors make the case for fracking shale gas using evidence from shale-producing countries from around the world, comparing them to those that have fallen behind in the shale race. They show that private property rights and markets have been a source of innovation and dynamism and that a diversity of regulatory responses is appropriate to govern shale gas development. This book is insightful reading for academics and professionals interested in the shale

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boom, the fracking industry in general, and regulatory policy.

### **The Routledge Research Companion to Energy Geographies**

Gary Sernovitz leads a double life. A typical New York liberal, he is also an oilman - a fact his left-leaning friends let slide until the word "fracking" entered popular parlance. "How can you frack?" they suddenly demanded, aghast. But for Sernovitz, the real question is, "What happens if we don't?" Fracking has become a four-letter word to environmentalists. But most people don't know what it means. In his fast-paced, funny, and lively book, Sernovitz explains the reality of fracking: what it is, how it can be made safer, and how the oil business works. He also tells the bigger story. Fracking was just one part of a shale revolution that shocked our assumptions about fueling America's future. The revolution has transformed the world with consequences for the oil industry, investors, environmentalists, political leaders, and anyone who lives in areas shaped by the shales, uses fossil fuels, or cares about the climate - in short, everyone. Thanks to American engineers' oilfield innovations, the United States is leading the world in reducing carbon emissions, has sparked a potential manufacturing renaissance, and may soon eliminate its dependence on foreign energy. Once again the largest oil and gas producer in the world, America has altered its balance of power with Russia and the Middle East. Yet the shale revolution has also caused local disruptions and pollution. It has

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prolonged the world's use of fossil fuels. Is there any way to reconcile the costs with the benefits of fracking? To do so, we must start by understanding fracking and the shale revolution in their totality. The Green and the Black bridges the gap in America's energy education. With an insider's firsthand knowledge and unprecedented clarity, Sernovitz introduces readers to the shales - a history-upturning "Internet of oil" - tells the stories of the shale revolution's essential characters, and addresses all the central controversies. To capture the economic, political, and environmental prizes, we need to adopt a balanced, informed perspective. We need to take the green with the black. Where we go from there is up to us.

### **American Shale Energy and the Global Economy**

Is natural gas the 'bridge' to our low-carbon future? In power generation, industrial processes, parts of the transportation sector, and for domestic use, natural gas still has the potential to play a greater role in various energy transition pathways around the world. But such a future is by no means certain. In this book, Michael Bradshaw and Tim Boersma offer a sober and balanced assessment of the place of natural gas in the global energy mix today, and the uncertainties that cloud our understanding of what that role may look like in the future. They argue that natural gas has become prominent in recent decades, spurred by two revolutions: the first has been the rise of unconventional natural gas production, and the

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second the coming of age of the market for liquefied natural gas (LNG). However, a third revolution is required to secure natural gas' long-term role in various energy transition pathways, as countries are increasingly pushing to address air quality concerns and curtail greenhouse gas emissions. This revolution has to take place as politicians, citizens, investors and shareholders are becoming increasingly vocal about the need to improve the environmental footprint of the fuel, while simultaneously, and perhaps paradoxically, demand for it continues to grow, in a world where geopolitical challenges seem to be mounting.

### **The Risk Pivot**

"This report received a Special Note in the Publication of the Year category at the Prospect Think Tank Awards 2011"--Publisher.

### **The Political Economy of Fracking**

Demonstrates how the competition to solve pressing energy problems has become an engine of political and economic change, and shares inside stories of current and developing energy sources from different world regions.

### **The Shale Dilemma**

Shale Oil and Gas Handbook: Theory, Technologies, and Challenges provides users with information on how shale oil and gas exploration has revolutionized

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today's energy industry. As activity has boomed and job growth continues to increase, training in this area for new and experienced engineers is essential. This book provides comprehensive information on both the engineering design and research aspects of this emerging industry. Covering the full spectrum of basic definitions, characteristics, drilling techniques, and processing and extraction technologies, the book is a great starting point to educate oil and gas personnel on today's shale industry. Critical topics covered include characterization of shale gas, theory and methods, typical costs, and obstacles for exploration and drilling, R&D and technology development in shale production, EOR methods in shale oil reservoirs, and the current status and impending challenges for shale oil and gas, including the inevitable future prospects relating to worldwide development. Reveals all the basic information needed to quickly understand today's shale oil and gas industry, including advantages and disadvantages, equipment and costs, flow diagrams, and processing stages. Evenly distributes coverage between oil and gas into two parts, as well as upstream and downstream content. Provides a practical handbook with real-world case studies and problem examples, including formulas and calculations.

### **The Natural Gas Revolution**

The 'shale revolution' in oil and gas made possible by fracking technology, but not without controversy, has transformed the American economy, giving the United States unprecedented leverage in the world while

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putting an end to the 'era of shortage'. Almost overnight, and without many Americans realising it, the United States has become the world's number one energy powerhouse. Yergin brilliantly reveals and explains the 'new map' to show the great energy and geopolitical transformations looming for Americans and the world -- at the very moment they influence the 2020 U.S. presidential election.

### **Economics of Unconventional Shale Gas Development**

A comprehensive depository of all information relating to the scientific and technological aspects of Shale Gas and Alternative Energy Conveniently arranged by energy type including Shale Gas, Wind, Geothermal, Solar, and Hydropower Perfect first-stop reference for any scientist, engineer, or student looking for practical and applied energy information Emphasizes practical applications of existing technologies, from design and maintenance, to operating and troubleshooting of energy systems and equipment Features concise yet complete entries, making it easy for users to find the required information quickly, without the need to search through long articles

### **China's New Energy Revolution: How the World Super Power is Fostering Economic Development and Sustainable Growth through Thin-Film Solar Technology**

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The US shale boom and efforts by other countries to exploit their shale resources could reshape energy and environmental landscapes across the world. But how might those landscapes change? Will countries with significant physical reserves try to exploit them? Will they protect or harm local communities and the global climate? Will the benefits be shared or retained by powerful interests? And how will these decisions be made? The Shale Dilemma brings together experts working at the forefront of shale gas issues on four continents to explain how countries reach their decisions on shale development. Using a common analytical framework, the authors identify both local factors and transnational patterns in the decision-making process. Eight case studies reveal the trade-offs each country makes as it decides whether to pursue, delay, or block development. Those outcomes in turn reflect the nature of a country's political process and the power of interest groups on both sides of the issue. The contributors also ask whether the economic arguments made by the shale industry and its government supporters have overshadowed the concerns of local communities for information on the effects of shale operations, and for tax policies and regulations to ensure broad-based economic development and environmental protection. As an informative and even-handed account, The Shale Dilemma recommends practical steps to help countries reach better, more transparent, and more far-sighted decisions.

### **Shale Gas**

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This brief explores the business and global implications of the American shale energy, or natural gas, revolution. Specifically, it provides a rational, comprehensive look at the major business themes and management implications that surround the new abundance of natural gas in the United States and identifies some of the most significant geopolitical considerations globally. While acknowledging some of the controversies and hazards surrounding the extraction techniques, commonly known as “fracking”, the author also looks at the hopes this technique poses and details how shale energy will impact supply chains for firms. The discovery of new sources of domestic natural gas in recent years - coupled with innovations that facilitated their extraction - has altered the global landscape. However, the vast majority of the information out there for business students, faculty, and practitioners about the natural gas revolution is focused on the impact of “longer and lower” energy prices; and, secondarily, opportunities within the domestic energy sector. Each of these is crucial for business people to understand, however, the natural gas revolution is about much more. Companies of all sizes, whether they see it or not, are having new opportunities open up for their products and services. Further, the globalization of shale energy will have far reaching influence beyond simply economic factors. Geopolitical considerations and the re-structuring of international relations around shale energy will impact supply chains in a myriad of ways. This book aims to examine these opportunities. Featuring case studies from contemporary companies, this book will be of interest to students, academics, researchers,

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professionals and policy makers who are seeking to understand the business and global implications of the shale energy revolution.

### **The Fossil Fuel Revolution**

Energy has become a central concern of many strands of geographical inquiry, from global climate change to the effects of energy decisions on our lives. However, many aspects of the 'black box' of relationships at the energy-society interface remain unopened, especially in terms of the spatial underpinnings of energy production and consumption within nations, cities and regions. Debates focusing on the location and nature of energy flows frequently fail to consider the multiple geographical networks that illustrate and explain the distribution of fuels and services around the world. Providing an integrated perspective on the complex interdependencies between energy and geography, *The Routledge Research Companion to Energy Geographies* offers a timely conceptual framework to study the multiple facets of energy geography, including security, space and place, planning, environmental science, economics and political science. Illustrating how a geographic approach towards energy can aid decision-making pathways in the domains of social justice and environment, this book provides insights that will help move the international community toward greater cooperation, stability, and sustainability.

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