



Energy Finance and Economics: Analysis and Valuation, Risk Management, and the Future of Energy

By Betty Simkins, Russell Simkins

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Thought leaders and experts offer the most current information and insights into energy finance

Energy Finance and Economics offers the most up-to-date information and compelling insights into the finance and economics of energy. With contributions from today's thought leaders who are experts in various areas of energy finance and economics, the book provides an overview of the energy industry and addresses issues concerning energy finance and economics.

The book focuses on a range of topics including corporate finance relevant to the oil and gas industry as well as addressing issues of unconventional, renewable, and alternative energy.

- A timely compendium of information and insights centering on topics related to energy finance
- Written by Betty and Russell Simkins, two experts on the topic of the economics of energy
- Covers special issues related to energy finance such as hybrid cars, energy hedging, and other timely topics

In one handy resource, the editors have collected the best-thinking on energy finance.

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Editorial Review

From the Inside Flap

When it comes to the issue of energy finance and economics, there are many opinions out there, but what's really needed in order to gain a realistic understanding of this field are accurate and unbiased facts. That's why *Energy Finance and Economics*, part of the Robert W. Kolb Series in Finance, has been created.

Engaging and informative, this reliable guide contains the latest insights regarding the finance and economics of energy based on contributions by practitioners and academics who are experts in these areas. It's intended to bridge the gap between the scientific and technological foundations of energy and the real-world applications in the fields of finance and economics.

Divided into four comprehensive parts—with each chapter containing review questions to help reinforce key concepts—this book offers extensive coverage in the areas of valuation, analysis, and risk management, and includes timely discussions about the future of energy. Page by page, it addresses the most essential issues associated with energy finance and economics, and will help you:

- Gain valuable knowledge regarding energy supply and demand, industry structure, the myths and realities about sustainable energy, geopolitics and world energy use, and the drivers of energy prices
- Develop a better sense of value creation and decision-making in the energy industry
- Understand energy applications for best practices in financial analysis, including accounting standards that apply to oil and gas companies, capital budgeting and risk analysis for energy projects, and the economics of renewables
- Become familiar with the various types of energy derivatives and markets, and utilize key hedging techniques useful to energy risk management
- Put the field in perspective with practical case studies related to energy financial analysis such as the economics of buying a hybrid vehicle; Southwest Airlines' decision to retrofit their fleet of jets with blended winglets to save on fuel costs; and the economics of wind energy projects, among others
- And much more

Energy finance is a complex topic, but with this book as your guide, you'll gain a broad understanding of it, and discover how it can be effectively applied in real-world situations.

From the Back Cover

The Robert W. Kolb Series in Finance is an unparalleled source of information dedicated to the most important issues in modern finance. Each book focuses on a specific topic in the field of finance and contains contributed chapters from both respected academics and experienced financial professionals. As part of the Robert W. Kolb Series in Finance, *Energy Finance and Economics* provides a comprehensive look at this topic by examining the areas of valuation, analysis, and risk management that are associated with it and including timely discussions about the future of energy.

Written for both financial professionals and aspiring students, this reliable guide skillfully addresses the finance and economics of energy and covers the principles and tools necessary to conduct sound decision-making and analysis. Divided into four comprehensive parts, it touches on a variety of issues you need to be

familiar with, including:

- Geopolitics and world energy markets
- The myths and realities of sustainable energy
- Financial statement analysis for oil and gas companies
- Financing large energy projects
- Petroleum economics, risk and opportunity analysis
- Energy derivatives and markets
- Carbon management and environmental issues

Rounding out this detailed discussion are six informative case studies that involve challenging analysis in different areas of energy finance and economics.

Energy Finance and Economics contains the latest thinking in this field from some of today's leading practitioners and academics. Engaging and accessible, this book provides a firm understanding of what it will really take to excel at this difficult endeavor.

About the Author

BETTY SIMKINS, PhD, is the Williams Companies Professor of Business and a Professor of Finance in the Department of Finance at Oklahoma State University's (OSU) Spears School of Business. She teaches energy finance, a course that she developed, at both the undergraduate and graduate levels, and also teaches executive education courses on energy finance for companies globally. Her primary area of research is risk management, including energy risk management, and she has published extensively in this area. Simkins has received a number of teaching awards at OSU, including the Regents Distinguished Teaching Award. She currently serves on the Board of Directors for the Financial Management Association, as coeditor of the *Journal of Applied Finance*, editor of *FMA Online*, and as past president of the Eastern Finance Association. Simkins worked in the corporate world for ConocoPhillips and Williams Companies.

RUSSELL SIMKINS is Manager of Proposal Services in the College of Engineering, Architecture, and Technology at Oklahoma State University (OSU) and a licensed Professional Engineer in the state of Oklahoma. He has over thirty years of engineering experience and worked for ConocoPhillips, Fractionation Research Inc., Lubrizol Corporation, Southwest Research Institute, and the U.S. Department of Energy. Simkins has also been active in the engineering profession as a member of various working groups in the Society of Automotive Engineers (SAE), Coordinating Research Council (CRC), and American Society of Testing Materials (ASTM) dealing with fuels and lubricants.

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