

Valuation and Risk Management in Energy Markets



Glen Swindle

Valuation And Risk Management In Energy Markets

Betty Simkins, Russell Simkins



Valuation And Risk Management In Energy Markets:

Valuation and Risk Management in Energy Markets Glen Swindle, 2014-02-17 Valuation and Risk Management in Energy Markets surveys the mechanics of energy markets and the valuation of structures commonly arising in practice The presentation balances quantitative issues and practicalities facing portfolio managers with substantial attention paid to the ways in which common methods fail in practice and to alternative methods when they exist The material spans basic fundamentals of markets statistical analysis of price dynamics and a sequence of increasingly challenging structures concluding with issues arising at the enterprise level In totality the material has been selected to provide readers with the analytical foundation required to function in modern energy trading and risk management groups **Energy Finance and Economics** Betty Simkins, Russell Simkins, 2013-02-20 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 *Managing Energy Risk* Markus Burger, Bernhard Graeber, Gero Schindlmayr, 2014-06-23 An overview of today's energy markets from a multi commodity perspective As global warming takes center stage in the public and private sectors new debates on the future of energy markets and electricity generation have emerged around the world The Second Edition of Managing Energy Risk has been updated to reflect the latest products approaches and energy market evolution A full 30% of the content accounts for changes that have occurred since the publication of the first edition Practitioners will appreciate this contemporary approach to energy and the comprehensive information on recent market influences A new chapter is devoted to the growing importance of renewable energy sources related subsidy schemes and their impact on energy markets Carbon emissions certificates post Fukushima market shifts and improvements in renewable energy generation are all included Further due to the unprecedented growth in shale gas production in recent years a significant amount of material on gas markets has been added in this edition Managing Energy Risk is now a complete guide to both gas and electricity markets and gas specific models like gas storage and swing contracts are given their due The unique practical approach to energy trading includes a comprehensive explanation of the interactions and relations between all energy commodities Thoroughly revised to reflect recent changes in renewable energy impacts of the financial crisis and market fluctuations in the wake of Fukushima

Emphasizes both electricity and gas with all new gas valuation models and a thorough description of the gas market Written by a team of authors with theoretical and practical expertise blending mathematical finance and technical optimization Covers developments in the European Union Emissions Trading Scheme as well as coal oil natural gas and renewables The latest developments in gas and power markets have demonstrated the growing importance of energy risk management for utility companies and energy intensive industry By combining energy economics models and financial engineering Managing Energy Risk delivers a balanced perspective that captures the nuances in the exciting world of energy

Energy Risk: Valuing and Managing Energy Derivatives Dragana Pilipovic, 2007-08-13 The Latest Methods and Strategies for Successfully Trading and Managing Risk in Today's Volatile Energy Markets The updated Second Edition of Energy Risk presents an authoritative overview of the contemporary energy trading arena combining the lessons from the last decade with proven methods and strategies required for valuing energy derivatives and managing risk in these ever volatile markets Written by renowned energy risk expert Dragana Pilipovic this revised classic examines market behavior covering both quantitative analysis and trader oriented insights The book shows how to establish a modeling process that involves the key players_ managers traders quantitative analysts and engineers_ and provides practical answers to energy trading and risk management questions The Second Edition of Energy Risk features Detailed coverage of the primary factors that influence energy risk Techniques for building marked to market forward price curves creating volatility matrices and valuing complex options Specific guidelines and tools for achieving risk goals New to this edition three new chapters on the emerging energy market and marked to market issues new material on energy specific models seasonal effects and the derivation of the mean reverting price model and more

Energy and Power Risk Management Alexander Eydeland, Krzysztof Wolyniec, 2002-12-30 Praise for Energy and Power Risk Management Energy and Power Risk Management identifies and addresses the key issues in the development of the turbulent energy industry and the challenges it poses to market players An insightful and far reaching book written by two renowned professionals Helyette Geman Professor of Finance University Paris Dauphine and ESSEC The most up to date and comprehensive book on managing energy price risk in the natural gas and power markets An absolute imperative for energy traders and energy risk management professionals Vincent Kaminski Managing Director Citadel Investment Group LLC Eydeland and Wolyniec's work does an excellent job of outlining the methods needed to measure and manage risk in the volatile energy market Gerald G Fleming Vice President Head of East Power Trading TXU Energy Trading This book combines academic rigor with real world practicality It is a must read for anyone in energy risk management or asset valuation Ron Erd Senior Vice President American Electric Power

Energy Trading and Risk Management Felix Müsgens, Alexander Bade, 2024-07-26 This book offers important insights into the intricacies of energy trading and risk management to students and professionals in the liberalized electricity and natural gas markets In its opening chapter the book delves into fundamental concepts including price formation on wholesale markets

The various market places and trading products are presented and the distinguishing characteristics of electricity and natural gas compared to other commodities are emphasised. Moving forward the next chapter concentrates on portfolio management offering insights into the trading process through the perspectives of various agents. It begins with proprietary traders and progresses to encompass the portfolio management activities of integrated companies responsible for both generation assets and a retail client base. The book then looks at risk management explaining the diverse risks that impact the value of energy portfolios in the market. It places emphasis on credit risk, price risk, quantity risk and product liquidity risk as the most influential factors and presents effective practices for their management. Furthermore, readers will gain a comprehensive understanding of how to manage quantity risk and its interconnectedness with price risk. Additionally, the book addresses the measurement of product liquidity and its disparities across different energy market products. In summary, this book is an accessible introduction and a concise reference for students and professionals across all fields of energy.

Energy Trading and Risk Management Tadahiro Nakajima, Shigeyuki Hamori, 2022-11-03. This book introduces empirical methods for analyzing energy markets. Even beginners in econometrics and mathematical finance must be able to learn how to utilize these methodologies and how to interpret the analysis results. This book provides some example analyses of the North American, European and Asian energy markets. The reader will experience some theories and practices of energy trading and risk management. This book reveals the characteristics of energy markets using quantitative analyses. Examples include unit root cointegration, long term equilibrium, stochastic arbitrage, simulation, multivariate generalized autoregressive conditional heteroscedasticity, GARCH models, exponential GARCH, EGARCH models, optimal hedge ratio, copula, value at risk, VaR, expected shortfall, vector autoregressive VAR models, vector moving average VMA models, connectedness and frequency decomposition. This book is suitable for people interested in the empirical study of energy markets and energy trade.

Managing Energy Risk Markus Burger, Bernhard Graeber, Gero Schindlmayr, 2014-09-09. An overview of today's energy markets from a multi-commodity perspective. As global warming takes center stage in the public and private sectors, new debates on the future of energy markets and electricity generation have emerged around the world. The Second Edition of *Managing Energy Risk* has been updated to reflect the latest products, approaches and energy market evolution. A full 30% of the content accounts for changes that have occurred since the publication of the first edition. Practitioners will appreciate this contemporary approach to energy and the comprehensive information on recent market influences. A new chapter is devoted to the growing importance of renewable energy sources, related subsidy schemes and their impact on energy markets. Carbon emissions certificates, post Fukushima market shifts and improvements in renewable energy generation are all included. Further, due to the unprecedented growth in shale gas production in recent years, a significant amount of material on gas markets has been added in this edition. *Managing Energy Risk* is now a complete guide to both gas and electricity markets and gas-specific models like gas storage and swing contracts are given their due. The unique practical

approach to energy trading includes a comprehensive explanation of the interactions and relations between all energy commodities Thoroughly revised to reflect recent changes in renewable energy impacts of the financial crisis and market fluctuations in the wake of Fukushima Emphasizes both electricity and gas with all new gas valuation models and a thorough description of the gas market Written by a team of authors with theoretical and practical expertise blending mathematical finance and technical optimization Covers developments in the European Union Emissions Trading Scheme as well as coal oil natural gas and renewables The latest developments in gas and power markets have demonstrated the growing importance of energy risk management for utility companies and energy intensive industry By combining energy economics models and financial engineering Managing Energy Risk delivers a balanced perspective that captures the nuances in the exciting world of energy

Handbook of Risk Management in Energy Production and Trading Raimund M. Kovacevic, Georg Ch. Pflug, Maria Teresa Vespucci, 2013-11-27 This book presents an overview of the risks involved in modern electricity production delivery and trading including technical risk in production transportation and delivery operational risk for the system operators market risks for traders and political and other long term risks in strategic management Using decision making under uncertainty as a methodological background the book is divided into four parts with Part I focusing on energy markets particularly electricity markets Topics include a nontechnical overview of energy markets and their main properties basic price models for energy commodity prices and modeling approaches for electricity price processes Part II looks at optimal decisions in managing energy systems including hydropower dispatch models cutting plane algorithms and approximative dynamic programming hydro thermal production renewable stochastic investments and operational optimization models for natural gas transport decision making in operating electricity networks and investment in extending energy production systems Part III explores pricing including electricity swing options and the pricing of derivatives with volume control Part IV looks at long term and political risks including energy systems under aspects of climate change and catastrophic operational risks particularly risks from terrorist attacks

The Price Reporters Owain Johnson, 2017-08-09 Every consumer in a modern economy is indirectly exposed to the work of a price reporting agency PRA each time they fill up their car take a flight or switch on a light and yet the general public is completely unaware of the existence of PRAs Firms like Platts Argus and ICIS which are referenced every day by commodity traders and which influence billions of dollars of trade are totally unfamiliar to consumers The Price Reporters A Guide to PRAs and Commodity Benchmarks brings the mysterious world of price reporting out of the shadows for the first time providing a comprehensive guide to the agencies that set the world's commodity prices This book explains the importance of PRAs to the global commodities industry highlighting why PRAs affect every consumer around the world It introduces the individual PRAs their history and the current state of play in the industry and also presents the challenges that the PRA industry is facing now and in the future in particular how regulation might impact on the PRAs their relationships with commodity exchanges and their likely direction

This is the first ever guide to PRAs and is destined to become the standard reference work for anyone with an interest in commodity prices and the firms that set them

Fuel Hedging and Risk Management Simo M. Dafir, Vishnu N.

Gajjala, 2016-03-04 A hands on guide to navigating the new fuel markets Fuel Hedging and Risk Management Strategies for Airlines Shippers and Other Consumers provides a clear and practical understanding of commodity price dynamics key fuel hedging techniques and risk management strategies for the corporate fuel consumer It covers the commodity markets and derivative instruments in a manner accessible to corporate treasurers financial officers risk managers commodity traders structurers as well as quantitative professionals dealing in the energy markets The book includes a wide variety of key topics related to commodities and derivatives markets financial risk analysis of commodity consumers hedge program design and implementation vanilla derivatives and exotic hedging products The book is unique in providing intuitive guidance on understanding the dynamics of forward curves and volatility term structure for commodities fuel derivatives valuation and counterparty risk concepts such as CVA DVA and FVA Fully up to date and relevant this book includes comprehensive case studies that illustrate the hedging process from conception to execution and monitoring of hedges in diverse situations This practical guide will help the reader Gain expert insight into all aspects of fuel hedging price and volatility drivers and dynamics Develop a framework for financial risk analysis and hedge programs Navigate volatile energy markets by employing effective risk management techniques Manage unwanted risks associated with commodity derivatives by understanding liquidity and credit risk calculations exposure optimization techniques credit charges such as CVA DVA FVA etc

Energy and Power Risk Management

Alexander Eydeland, Krzysztof Wolyniec, 2003-02-03 Praise for Energy and Power Risk Management Energy and Power Risk Management identifies and addresses the key issues in the development of the turbulent energy industry and the challenges it poses to market players An insightful and far reaching book written by two renowned professionals Helyette Geman Professor of Finance University Paris Dauphine and ESSEC The most up to date and comprehensive book on managing energy price risk in the natural gas and power markets An absolute imperative for energy traders and energy risk management professionals Vincent Kaminski Managing Director Citadel Investment Group LLC Eydeland and Wolyniec's work does an excellent job of outlining the methods needed to measure and manage risk in the volatile energy market Gerald G Fleming Vice President Head of East Power Trading TXU Energy Trading This book combines academic rigor with real world practicality It is a must read for anyone in energy risk management or asset valuation Ron Erd Senior Vice President American Electric Power

Risk Management and Value Mondher Bellalah, 2008

This book provides a comprehensive discussion of the issues related to risk volatility value and risk management It includes a selection of the best papers presented at the Fourth International Finance Conference 2007 qualified by Professor James Heckman the 2000 Nobel Prize Laureate in Economics as a high level one The first half of the book examines ways to manage risk and compute value at risk for exchange risk associated to debt portfolios and portfolios of equity It also covers the Basel

II framework implementation and securitisation The effects of volatility and risk on the valuation of financial assets are further studied in detail The second half of the book is dedicated to the banking industry banking competition on the credit market banking risk and distress market valuation managerial risk taking and value in the ICT activity With its inclusion of new concepts and recent literature academics and risk managers will want to read this book *Financial Derivative and Energy Market Valuation* Michael Mastro, PhD, 2013-02-19 A road map for implementing quantitative financial models Financial Derivative and Energy Market Valuation brings the application of financial models to a higher level by helping readers capture the true behavior of energy markets and related financial derivatives The book provides readers with a range of statistical and quantitative techniques and demonstrates how to implement the presented concepts and methods in Matlab Featuring an unparalleled level of detail this unique work provides the underlying theory and various advanced topics without requiring a prior high level understanding of mathematics or finance In addition to a self contained treatment of applied topics such as modern Fourier based analysis and affine transforms Financial Derivative and Energy Market Valuation also Provides the derivation numerical implementation and documentation of the corresponding Matlab for each topic Extends seminal works developed over the last four decades to derive and utilize present day financial models Shows how to use applied methods such as fast Fourier transforms to generate statistical distributions for option pricing Includes all Matlab code for readers wishing to replicate the figures found throughout the book Thorough practical and easy to use Financial Derivative and Energy Market Valuation is a first rate guide for readers who want to learn how to use advanced numerical methods to implement and apply state of the art financial models The book is also ideal for graduate level courses in quantitative finance mathematical finance and financial engineering [Real Options In Energy And Commodity Markets](#) Nicola Secomandi, 2016-11-28 The field of real options is concerned with the management and financial valuation of operational flexibility in business endeavors From the very outset energy and commodity markets which play fundamental roles in the worldwide economy have provided a relevant context for real option analysis both in theory and practice This volume is a collection of six chapters covering recent research on real options in energy and commodity markets reflecting the significance of these markets for real option analysis The volume is divided into two parts the first on theory and the second on methods and applications The two chapters in the first part of the book respectively address commodity storage and the concept of convenience yield and how the management of real options can be impacted by the trader s own market decisions in the context of commodity shipping The four chapters in the second part of the book propose and apply real option models in various domains modeling the evolution of futures prices of emission certificates managing copper extraction illustrated with an application to a project at Codelco Chile the largest copper producer in the world the core ideas behind real option analysis in the context of the merchant management of hydrocarbon cracking operations and optimizing the portfolio of contracts that oil refineries use to market their gasoline production *Energy Markets* Tom

James, 2012-11-27 Price Risk Management and Trading Energy risk management expert Tom James does it again His latest book is a timely addition to the rapidly developing energy trading markets This book should be on every energy trader risk manager and corporate planner's desk it is an easy read as Tom goes into great detail to explain the intricacies of this market and its various unique elements Peter C Fusaro Chairman Global Change Associates Inc Best selling Author and Energy Expert This sensible and practical guide is essential for those seeking an understanding of commerce in energy derivatives beyond merely informative this hand book for the practitioner details the finer points of the use of derivatives as tools for price risk management No energy trading desk should be without it Ethan L Cohen Senior Director Utility and Energy Technology UtiliPoint International Inc Energy markets are much more volatile than other commodity markets so risk mitigation is more of a concern Energy prices for example can be affected by weather geopolitical turmoil changes in tax and legal systems OPEC decisions analysis reports transportation issues and supply and demand to name just a few factors Tom James's book is a practical guide to assessing and managing these risks It is a must read for senior management as well as risk and financial professionals Don Stowers Editor Oil Gas Financial Journal This book is the most comprehensive on price risk management centric efforts It provides the reader with a tangible experience of derivatives in today's capital and energy markets The breadth and scope of the passages are immense in that both developed and developing countries energy markets are considered and examples applied Terrific read Rashpal Bhatti Marketing Manager Energy Trading Asia Enron BHP Billiton Tom James has simplified the intricacies of a very complex market In this new market of hot commodities he has been able to give a fresh course to those who are new to the energy markets and a solid review for those that are well seasoned he covers everything within the oil market from A to Z in this book and does it well Coming from a financial background myself it's good to finally find a book that can bring a better understanding to the field of energy commodities Carl Larry Vice President Citi Energy Global Commodities

Energy Price Risk T. James, 2002-12-03 Energy Price Risk was inspired by the success of the courses Tom James has been running in global energy and commodities trading and price risk management It is the practitioner's guide to optimizing company performance using the correct price risk strategies and tools Based on the author's extensive experience in the commodity derivatives industry it comprehensively covers the full spectrum of the energy complex including crude oil petroleum products natural gas LPG LNG and electricity Using many worked examples this book offers practical insights and solutions

Modeling and Valuation of Energy Structures Daniel Mahoney, 2016-01-26 Commodity markets present several challenges for quantitative modeling These include high volatilities small sample data sets and physical operational complexity In addition the set of traded products in commodity markets is more limited than in financial or equity markets making value extraction through trading more difficult These facts make it very easy for modeling efforts to run into serious problems as many models are very sensitive to noise and hence can easily fail in practice Modeling and Valuation of Energy Structures is a comprehensive guide to quantitative and statistical

approaches that have been successfully employed in support of trading operations reflecting the author's 17 years of experience as a front office quant. The major theme of the book is that simpler is usually better, a message that is drawn out through the reality of incomplete markets, small samples and informational constraints. The necessary mathematical tools for understanding these issues are thoroughly developed with many techniques, analytical, econometric and numerical, collected in a single volume for the first time. A particular emphasis is placed on the central role that the underlying market resolution plays in valuation. Examples are provided to illustrate that robust approximate valuations are to be preferred to overly ambitious attempts at detailed qualitative modeling.

Energy Risk Management Peter C. Fusaro, 1998. Addressing the important issues of worldwide energy price risk management, this work assembles the leading industry figures to explain general theories and practices for hedging risk and specific methods to effectively manage risk in markets such as coal, natural gas, electricity and hydropower.

Energy Finance and Economics Betty Simkins, Russell Simkins, 2013-02-19. 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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