1. Record Nr. UNINA9910815014503321

Autore	Fogarty Tom <1963->
Titolo	Investing in the renewable power market : how to profit from energy transformation / / Tom Fogarty and Robert Lamb
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, c2012
ISBN	9786613620477 9781118234785 1118234782 9781119200628 1119200628 9781280590641 1280590645 9781118221020 1118221028
Descrizione fisica	1 online resource (225 p.)
Collana	Wiley finance ; ; 614
Classificazione	BUS036000
Altri autori (Persone)	LambRobert <1941->
Disciplina	333.79/40681
Soggetti	Renewable energy sources - United States - Finance Investments - United States
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	INVESTING IN THE RENEWABLE POWER MARKET: How to Profit from Energy Transformation; Contents; Acknowledgments; Introduction; CHAPTER 1: An Overview of Renewable Power; It's All About Natural Gas; Control of CO2 Emissions Is Not Currently Possible; Reality of Demand-Side Management; Summary; CHAPTER 2: Analyzing Power Project Economics; Regulated Utilities; Evaluating a Power Plant; Financing a Power Plant; Hedge Providers; Opportunities with Distressed Renewables; Summary; CHAPTER 3: The Challenges of Renewable Power Projects; Tax Issues; Special Exemptions; Summary CHAPTER 4: Risk Assessment for Power ProjectsProject Risk Assessment and Risk Mitigations; Precompletion Risks/Mitigants; Postcompletion Risks/Mitigants; Summary; CHAPTER 5: Exploiting Profitability of Distressed and Abandoned Municipal Power Plants; Waste-Fuel Projects Have Key Financial Advantages for Investors; Duties of Professionals in

a Municipal Power Plant; The Professional Feasibility Study Engineer; Disclosures of Risks in the Bond Offering Materials; Calculation of Debt Service Coverage; Investment Opportunities at Troubled Municipal Power Plants; Summary; CHAPTER 6: Energy Storage
Cheap Energy Storage-The Most Vital Game Changer in the WorldOpening the Market for Historic Energy Storage Financing; Categories of Energy Storage Technologies; U.S. Regional Multi-Energy Storage Collaborations; Flywheel Technology Energy Storage Has the Lowest Cycle-Life-Cost; Summary; CHAPTER 7: Shale Natural Gas and Its Effect on Renewable Power; Fracking; New Attitudes in Natural Gas; Cost of Production; Summary; CHAPTER 8: Solar PV and Solar Thermal Power Plants; The Economics of Solar Power; Financing Techniques; The Technology; Summary; CHAPTER 9: Wind Power Plants; Projects Overview
Wind Project EconomicsWind Project Power Contracting; Wind Energy Prediction; Summary; CHAPTER 10: Electric Power Transmission; Overview; Grid Input, Losses, and Exit; High-Voltage Direct Current; Controlling the Components of the Transmission System; Electricity Market Reform: Costs and Merchant Transmission Arrangements; Additional Concerns; Summary; CHAPTER 11: Natural Gas Power Plants; Gas Turbine Engines; Benefits of Gas Turbine Engines; Gas Turbines and CO2; Gas Turbine Operations; Summary; CHAPTER 12: Coal-Fired Power Plants; Coal's High Output Capacity; Life of a Coal Plant Extending Coal Plant OperationsCoal Technologies; Summary; CHAPTER 13: Biomass Energy and Biomass Power Plants; Wood Waste; Economics of Biomass; Summary; CHAPTER 14: Nuclear Power Energy Plants; Global Impact of Japan's Three Nuclear Plant Meltdowns; Comparative Costs of Energy; Key to the EIA Cost Estimates; Nuclear Power Plants' 50 Years of Electricity Globally; Required Up-Front Payment for Nuclear Waste Disposal before a New Plant's Approval; Asia Will Lead the Next Shift to Nuclear Power Plant Development; China's New Nuclear Reprocessing Is a Vast Expansion of Atomic Fuel
Summary: Nuclear Power Faces a Capital Cost and Ongoing Local Approval Challenge

Sommario/riassunto

"The financial challenges facing clean energy installations. The path to the widespread adoption of renewable energy is littered with major technological legal, political, and financial challenges. Investing in the Renewable Power Market is a reality check for the mass roll out of green energy and its financial dominance of the world energy market, focusing on real energy costs and global energy needs over the next decade. If green energy is to be truly successful, the market must be properly understood, so that dreams of a green future do not lead to actual energy nightmares.The first book to cover the major investing challenges and monetary constraints placed on electric power companies as they race to meet their green energy requirements, Investing in the Renewable Power Market explains how generating electricity is totally different from other energy enterprises in that it is highly regulated and its product cannot be stored. This combination greatly affects the finances of renewable power and influences how investors should navigate the energy market. To help the reader better understand the current state of the alternative energy industry, the book: Details the challenges facing green energy, such as the fact that it is priced compared to natural gas, which is currently at an all-time low; Analyzes real energy costs and the global demand for energy over the next decade; Describes why, in the short term, investment opportunities with renewable power will be with financial and operational restructurings. The green energy market is currently facing enormous challenges, but Investing in the Renewable Power Market

explains the real costs of energy, the future of the energy market, and how to profit in both the long and short term"--