

# Energy Deloitte Us

Fireside chat on Deloitte's new book on the accelerated future of work Shining light on the possibilities for Power, Utilities \u0026 Renewables Building the backbone of the energy transition Breakthrough Book 48C advanced energy project credit: Recent IRS updates Illuminating the possibilities of Energy, Resources \u0026 Industrials: US The Deloitte Greenhouse®, Powered by Energy \u0026 Industrials: Immersion Dome Introducing the Next Gen Deloitte Greenhouse®, Powered by Energy \u0026 Industrials Deloitte's Scott Buchholz gives a primer on quantum computing The Deloitte Greenhouse®, Powered by Energy \u0026 Industrials: VR Pod You're invited to the 2023 Deloitte Renewable Energy Seminar Deloitte | Power and Utilities Digital Transformation 24 hr AI conference: Agile AI: Crunching time to market (India) Future of Health Consumer - Chapter 1 Punit Renjen: The Future of Work at Deloitte | Future of Work Pioneers Podcast #45 FinanceAI™ Explained - Future with Generative AI CEIBS Executive Lounge: Cameron Johnson (Tidalwave Solutions) Powering creativity with data, technology and diversity Kim Christfort of Deloitte Greenhouse On Business Chemistry and Work Environments | Velocitize Talks Deloitte Resources 2017 Study video highlights 24 hr AI conference: How AI can help fintechs in developing countries become leaders (Luxembourg) Deloitte and Climate Week '23 - We're Inspired The AI-Fueled Organization: Disruptive AI in energy, resources, and industrials Join us virtually at the 2021 Deloitte Renewable Energy Seminar The power of chemistry Practical Magic for Crafting Powerful Work Relationships Something Different - Deloitte Greenhouse®, Powered by Energy \u0026 Industrials Are brighter days ahead for energy M\u0026A? Energy in focus: Creating advantage via scenario planning The power of "I" in equity Dynamic Solutions for Energy Transitions THE COAL COST CROSSOVER: ECONOMIC VIABILITY OF EXISTING COAL COMPARED TO NEW LOCAL WIND AND SOLAR RESOURCES Using Taxes for Climate Action Winners Take All Can Artificial Intelligence and Cyber-Physical Systems Help Achieve Climate Mitigation Targets? Response to Climate Change Ending Africa's Energy Deficit and the Law Achieving Sustainable Energy for All in Africa Building a Clean, Resilient Grid Save Money, Make Money, and Help Your Community Profit from Clean Energy How Leaders Shape the Future by Overcoming Fatal Human Flaws Hearing Before the Committee on Energy and Natural Resources, United States Senate, One Hundred Thirteenth Congress, Second Session on "importing Energy, Exporting Jobs. Can it be Reversed?" March 25, 2014 Renewable Electricity, Renewable Energy Certificates and On-site Renewable Generation Unlocking Commercial Financing for Clean Energy in East Asia Aspects of the Energy Union Smart, Secure, Green and Reliable The New Rules of the Game Intelligent Decarbonisation Innovative and Agile Contracting for Digital Transformation and Industry 4.0 Bits, Bytes, and Barrels Critical Reflections

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**MICAH BRADFORD**

## **DYNAMIC SOLUTIONS FOR ENERGY TRANSITIONS**

Springer

Synergistic Design of Sustainable Built Environments introduces and illustrates a novel systems approach that fosters both design excellence and a leap toward a more biocentric (ecologically sustainable) design paradigm. The book provides a deeper understanding of the theories and principles of biocentric design and offers detailed descriptions of the synergistic design process of integrating theories and principles into practice. It also presents extensive thermal and visual built environment design strategies, along with

qualitative and quantitative information that designers can use to generate feasible solutions in response to varying climate and occupant comfort. Features: Examines the principles and practices of the synergistic design (a fusion of anthropocentric and biocentric) of sustainable built environments and how they relate to practical applications. Presents climatic data and its analysis along with sun-path diagrams for numerous cities to aid in the design of sustainable built environments in multiple regional contexts. Includes numerous case studies of sustainable built environments in varying climatic zones. Explains how renewable energy (solar, wind, biomass, geothermal, hydro, fuel cells) can be successfully integrated in the built environment. This forward-thinking and highly illustrated book will be an

invaluable reference to all those concerned with sustainable built environments and related architectural issues.

## **THE COAL COST CROSSOVER: ECONOMIC VIABILITY OF EXISTING COAL COMPARED TO NEW LOCAL WIND AND SOLAR RESOURCES**

John Wiley & Sons

Interest in biomass energy resources from forests, farms and other sources has been rapidly increasing in recent years because of growing concern with reducing carbon dioxide emissions and developing alternatives to increasingly scarce, expensive and insecure oil supplies. The uniqueness of this book is its coverage of biomass energy markets in the US from an economic as well as technical perspective.

Existing books typically focus on single markets or technical aspects at the exclusion of economics, and have given greater coverage to biomass energy outside the US. This edited collection has three main parts. Part One provides a historical overview of forest biomass energy use in the US; the major technologies, economics, market prospects, and policies. Part Two presents forest biomass energy assessments, including life cycle and sustainability perspectives, and Part Three includes five sets of regional case studies. After reviewing the history of wood energy use in the US and technology options, the book shows that forests could displace sixteen per cent of domestic transportation fuel use in 2030. *Renewable Energy from Forest Resources in the United States* includes a Foreword from Chris Flavin, President of the Worldwatch Institute. *Using Taxes for Climate Action* Policy Press "In many ways, everything we once knew about energy resources and technologies has been impacted by: the longstanding scientific consensus on climate change and related support for renewable energy; the affordability of extraction of unconventional fuels; increasing demand for energy resources by middle- and low-income nations; new regional and global stakeholders; fossil fuel discoveries and emerging renewable technologies; awareness of (trans)local politics; and rising interest in corporate social responsibility (CSR) and the need for energy justice. Research on these and related topics now appears frequently in social science academic journals-in broad-based journals, such as *International Organization*, *International Studies Quarterly*, and *Review of International Political Economy*, as well as those focused specifically on energy (e.g., *Energy Research & Social Science* and *Energy Policy*), the environment (*Global Environmental Politics*), natural resources (*Resources Policy*), and extractive industries (*Extractive Industries and Society*). The *Oxford Handbook of Energy Politics* synthesizes and aggregates this substantively diverse literature to provide insights into, and a foundation for teaching and research on, critical energy issues primarily in the areas of international relations and comparative politics. Its primary goals are to further develop the energy politics scholarship and community, and generate sophisticated new work that will benefit a variety of scholars working on energy issues"--

### WINNERS TAKE ALL

Springer Nature

An easy-to-understand and engaging exploration of the battery's development across history that reveals current technological advances, celebrates the innovators who have led the charge forward, and shows how the electric battery represents the path to a low-carbon future. • Demystifies the electric battery, explains how modern technology has overcome its historic limitations, and presents how this seemingly ordinary technology will enable a new era of sustainability for future generations • Addresses a topic of growing interest among general readers as electric cars designed to be affordable to the middle class from major manufacturers such as Chevrolet and Nissan are joined by new options from upstart electric vehicle manufacturer Tesla • Written by an Institute for Energy and the Environment research team with the requisite knowledge of energy policy and of science, as well as communication skills, to research and present a compelling narrative on electric batteries past, present, and future

*Can Artificial Intelligence and Cyber-Physical Systems Help Achieve Climate Mitigation Targets?* CRC Press

Project risk management is regarded as a necessary dimension of effective project delivery. Current practices tend to focus on tangible issues such as late delivery of equipment or the implications of technology. This book introduces a framework to identify emergent behavior-centric intangible risks and the conditions that initiate them. *Decision Making in Risk Management: Quantifying Intangible Risk Factors in Projects* identifies the quantitative measures to assess behavior-induced risks by presenting a framework that limits the interpersonal tension of addressing behavioral risks. Included in the book is an illustrative case study from the oil and gas sector that demonstrates the use of the framework. The missing dimension of behavior-centric intangible risk factors in current risk identification is explored. The book goes on to cover management processes, providing a systematic analytical approach to mitigate subjectivity when addressing behavioral risks in projects. This book is useful to those working in the fields of Project Management, Systems Engineering, Risk Management, and Behavioral Science. *Response to Climate Change* Madcann Press

*The Transformation Myth* Leading Your Organization through Uncertain Times MIT Press

*Ending Africa's Energy Deficit and the Law Portfolio* (Hardcover)

This book provides a comprehensive exploration of some of the most critical issues regarding the EU's Energy Union policy. Applied European energy policies face a number of challenges ranging from the geopolitics of energy and energy regulation, to climate change, advancing renewable and gas technologies, and consumer empowerment structures. This book takes a multi-dimensional look into some of these vital issues regarding the European energy sector with a special focus on the effects the Energy Union policy has in two sensitive regional systems, Southeastern Europe and the Eastern Mediterranean. Energy, being by definition a multi-disciplinary field, presents a challenge for readers of any specific disciplinary background that need to grasp an overall understanding of the various aspects of this exciting sector. This book's objective is to offer the opportunity for readers to get a quality, hands-on overview of the Energy Union by the professionals and academics that interact with it on a daily basis.

### Achieving Sustainable Energy for All in Africa

Vibrant Clean Energy, LLC

A guide to putting cognitive diversity to work Ever wonder what it is that makes two people click or clash? Or why some groups excel while others fumble? Or how you, as a leader, can make or break team potential? *Business Chemistry* holds the answers. Based on extensive research and analytics, plus years of proven success in the field, the *Business Chemistry* framework provides a simple yet powerful way to identify meaningful differences between people's working styles. Who seeks possibilities and who seeks stability? Who values challenge and who values connection? *Business Chemistry* will help you grasp where others are coming from, appreciate the value they bring, and determine what they need in order to excel. It offers practical ways to be more effective as an individual and as a leader. Imagine you had a more in-depth understanding of yourself and why you thrive in some work environments and flounder in others. Suppose you had a clearer view on what to do about it so that you could always perform at your best. Imagine you had more insight into what makes people tick and what ticks them off, how some interactions unlock potential while others shut people down. Suppose you could gain people's trust, influence them, motivate them, and get the very most out of your work relationships. Imagine you knew how to create a work environment where all types of people excel, even if they have conflicting perspectives, preferences and needs.

Suppose you could activate the potential benefits of diversity on your teams and in your organizations, improving collaboration to achieve the group's collective potential. Business Chemistry offers all of this--you don't have to leave it up to chance, and you shouldn't. Let this book guide you in creating great chemistry!

### **Building a Clean, Resilient Grid**

Brookings Institution Press

With the inclusion of access to energy in the sustainable development goals, the role of energy to human existence was finally recognized. Yet, in Africa, this achievement is far from realized. Omorogbe and Ordor bring together experts in their fields to ask what is stalling progress, examining problems from institutions catering to vested interests at the continent's expense, to a need to develop vigorous financial and fiscal frameworks. The ramifications and complications of energy law are labyrinthine: this volume discusses how energy deficits can burden disabled people, women, and children in excess of their more fortunate counterparts, as well as considering environmental issues, including the delicate balance between the necessity of water for drinking and cleaning and the use of water in industrial processes. A pivotal work of scholarship, the book poses pressing questions for energy law and international human rights.

### **SAVE MONEY, MAKE MONEY, AND HELP YOUR COMMUNITY PROFIT FROM CLEAN ENERGY**

Springer Nature

Taxing Energy Use (TEU) 2019 presents a snapshot of where countries stand in deploying energy and carbon taxes, tracks progress made, and makes actionable recommendations on how governments could do better. The report contains new and original data on energy and carbon taxes in OECD and G20 countries, and in international aviation and maritime transport.

*How Leaders Shape the Future by Overcoming Fatal Human Flaws* World Bank Publications

Explore a new and effective method for seizing opportunity in the face of uncertainty In *Provoke: How Leaders Shape the Future by Overcoming Fatal Human Flaws*, renowned strategy consultants and best-selling authors Geoff Tuff and Steven Goldbach deliver an insightful exploration of how people tend to act tentatively in the face of uncertainty and provide the tools we need to do things differently. Tuff and Goldbach offer up a

compelling argument for the proposition that taking a "wait and see" approach is the exact opposite of what helps visionary leaders change the world. Drawing on principles from business and behavioral economics, the book shows readers from all walks of life how to provoke action as a mechanism to advance. In this book you'll discover: An overview of the assortment of cognitive biases which tend to restrain and distort leadership decision making in the face of uncertainty How to recognize the 'phase change' that occurs when an uncertainty resolves from being a question of "if" to being a matter of "when" Five different models of provocation which can be used alone or in combination to anticipate, drive through and exit that phase change in a way that creates the future you desire How true "provocateurs" shake the foundations of their industries, firms, sectors, and governments by overcoming their need for certainty before action Perfect for leaders or aspiring leaders in all walks of life where uncertainty abounds—which is to say, almost everywhere —Provoke will become your go-to guide to overcoming those natural human instincts that keep us frozen in place and prevent us from seizing our opportunities.

*Hearing Before the Committee on Energy and Natural Resources, United States Senate, One Hundred Thirteenth Congress, Second Session on "Importing Energy, Exporting Jobs. Can it be Reversed?" March 25, 2014* Routledge

An informed modern plan for post-2020 American foreign policy that avoids the opposing dangers of retrenchment and overextension Russia and China are both believed to have "grand strategies"—detailed sets of national security goals backed by means, and plans, to pursue them. In the United States, policy makers have tried to articulate similar concepts but have failed to reach a widespread consensus since the Cold War ended. While the United States has been the world's prominent superpower for over a generation, much American thinking has oscillated between the extremes of isolationist agendas versus interventionist and overly assertive ones. Drawing on historical precedents and weighing issues such as Russia's resurgence, China's great rise, North Korea's nuclear machinations, and Middle East turmoil, Michael O'Hanlon presents a well-researched, ethically sound, and politically viable vision for American national security policy. He also proposes complementing the Pentagon's set of "4+1" pre-existing threats with a new "4+1": biological, nuclear, digital, climatic,

and internal dangers.

*Renewable Electricity, Renewable Energy Certificates and On-site Renewable Generation* Academic Press

Water is intricately linked with food security, energy security, and sustainable development. As the world is moving towards sustainable development goals, it is critical to recognize the role of water in attaining these goals. The Water-Energy-Food Nexus draws attention to the complex and interrelated nature of global resource systems and forces us to think about how a decision in one sector impacts other interlinked sectors as well. This book looks at the three dimensions of sustainable development—environment, economics and society – and how water is linked with them and explores the nexus approach as a framework to look at the issues and identify solutions.

*Unlocking Commercial Financing for Clean Energy in East Asia* The Transformation Myth Leading Your Organization through Uncertain Times

This report draws lessons to date from recent international experience in applying public financing instruments to unlock commercial financing to scale-up clean energy in East Asia. It addresses the following issues: when to use public financing instruments; which instrument to select; and how to design and implement them most effectively.

*Aspects of the Energy Union* IGI Global

This book provides a comprehensive introduction to different elements of smart city infrastructure - smart energy, smart water, smart health, and smart transportation - and how they work independently and together. Theoretical development and practical applications are presented, along with related standards, recommended practices, and professional guidelines. Throughout the book, diagrams and case studies are provided that demonstrate the systems presented, and extensive use of scenarios helps readers better grasp how smart grids, the Internet of Things, big data analytics, and trading models can improve road safety, healthcare, smart water management, and a low-carbon economy. A must-read for practicing engineers, consultants, regulators, utility operators, and environmentalists involved in smart city development, the book will also appeal to city planners and designers, as well as upper-level undergraduate and graduate students studying energy, environmental science, technology, economics, signal processing, information science, and power engineering.

**Smart, Secure, Green and Reliable** Oxford University Press, USA

There are few existential challenges more serious in the twenty first century than energy transition. As current trends in energy production prove unsustainable for the environment, energy security, and economic development, innovation becomes imperative. Yet, with technological challenges, come legal challenges. Zillman, Godden, Paddock, and Roggenkamp assemble a team of experts in their field to debate how the law may have to adapt to changes in the area. What regulatory approach should be used? How do we deal with longer-term investment horizons and so called 'stranded assets' such as coal-fired power stations? And can a form of energy justice be achieved which encompasses human rights, sustainable development goals, and the eradication of energy poverty? With a concept as unwieldy as energy innovation, it is high time for a text tackling changes which are dynamic and diverse across different communities, and which provides a thorough examination of the legal ramifications of the most recent technological changes. This book which be of vital importance to lawyers, policy-makers, economists, and the general reader.

**The New Rules of the Game** Oxford University Press

Digital transformation is reshaping the business arena as new, successful digital business models are increasing agility and presenting better ways to handle business than the traditional alternatives. Industry 4.0 affects everything in our daily lives and is blurring the line between the physical, the biological, and the digital. This created an environment where technology and humans are so closely integrated that it is impacting every activity within the organizations. Specifically, contracting processes and procedures are challenged to align with the new business dynamics as traditional contracts are no longer fitting today's agile and continuously changing environments. Businesses are required to facilitate faster, more secure, soft, and real-time transactions while protecting stakeholders' rights and obligations. This includes agile

contracts which are dynamically handling scope changes, smart contracts that can automate rule-based functions, frictionless contracts that can facilitate different activities, and opportunity contracts that looks toward the future. Innovative and Agile Contracting for Digital Transformation and Industry 4.0 analyzes the consequences, benefits, and possible scenarios of contract transformation under the pressure of new technologies and business dynamics in modern times. The chapters cover the problems, issues, complications, strategies, governance, and risks related to the development and enforcement of digital transformation contracting practices. While highlighting topics in the area of digital transformation and contracting such as artificial intelligence, digital business, emerging technologies, and blockchain, this book is ideally intended for business, engineering, and technology practitioners and policy makers, along with practitioners, stakeholders, researchers, academicians, and students interested in understanding the scope, complexity, and importance of innovative contracts and agile contracting. *Intelligent Decarbonisation* World Bank Publications

In this book, Dr. Soofastaei and his colleagues reveal how all mining managers can effectively deploy advanced analytics in their day-to-day operations-one business decision at a time. Most mining companies have a massive amount of data at their disposal. However, they cannot use the stored data in any meaningful way. The powerful new business tool-advanced analytics enables many mining companies to aggressively leverage their data in key business decisions and processes with impressive results. From statistical analysis to machine learning and artificial intelligence, the authors show how many analytical tools can improve decisions about everything in the mine value chain, from exploration to marketing. Combining the science of advanced analytics with the mining industrial business solutions, introduce the "Advanced Analytics in

Mining Engineering Book" as a practical road map and tools for unleashing the potential buried in your company's data. The book is aimed at providing mining executives, managers, and research and development teams with an understanding of the business value and applicability of different analytic approaches and helping data analytics leads by giving them a business framework in which to assess the value, cost, and risk of potential analytical solutions. In addition, the book will provide the next generation of miners - undergraduate and graduate IT and mining engineering students - with an understanding of data analytics applied to the mining industry. By providing a book with chapters structured in line with the mining value chain, we will provide a clear, enterprise-level view of where and how advanced data analytics can best be applied. This book highlights the potential to interconnect activities in the mining enterprise better. Furthermore, the book explores the opportunities for optimization and increased productivity offered by better interoperability along the mining value chain - in line with the emerging vision of creating a digital mine with much-enhanced capabilities for modeling, simulation, and the use of digital twins - in line with leading "digital" industries. *Innovative and Agile Contracting for Digital Transformation and Industry 4.0* Yale University Press  
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**Bits, Bytes, and Barrels** CRC Press  
 The electricity sector is facing its toughest test: eliminate carbon emissions while meeting much larger demands for power and adjusting to massive disruptions in its markets, technologies, business models, and policies. Peter Fox-Penner unwinds the industry's fast-moving challenges and makes realistic recommendations for this essential industry.

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