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Engine Emissions Critical Review of DIAL Emission Test Data for BP Petroleum Refinery in Texas City, Texas **BP Cherry Point Refinery Proposed Amendment to Air Emissions Permit** **IC Engines Emissions Trading and Business** Critical Review of DIAL Emission Test Data for BP Petroleum Refinery in Texas City, Texas **IC Engines Beta-delayed Proton Emission in the 100-fm Region** **Engine Emissions The New Map Handbook for Considering Practical Greenhouse Gas Emission Reduction Strategies for Airports** *Strategic Responses to the EU Emission Trading Scheme The Greenhouse Gas Protocol The Roadmap for Sustainable Business and Net Zero Carbon Emission* *Screening Level Assessment of Risks Due to Dioxin Emissions from Burning Oil from the BP Deepwater Horizon Gulf of Mexico Spill* *Bulletin of the Chemical Society of Japan* **Aggregation-Induced Emission Handbook of Aggregation-Induced Emission, Volume 1** *Advances in Ultra-low Emission Control Technologies for Coal-Fired Power Plants* **Aggregation-Induced Emission (AIE) Culture, Environment and Ecopolitics** *EU Emissions Trading Developing and Deploying Negative Emission Technologies: System-level Assessment and Rationalization Greenhouse Gas Emissions and Emissions Mitigation from Agricultural and Horticultural Production Systems Carbon Management Chemistry of Silica and Zeolite-Based Materials Emissions Trading Energy and Emissions Markets* **Report to the President from the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling** *Greenhouse Gas Emission Inventories New Energy BP Cherry Point Cogeneration Project Flexible Mechanisms for an Efficient Climate Policy The Business of Climate Change International Petroleum Conference & Exhibition of Mexico Veterinary Clinical Pathology Carbon Dioxide Capture and Storage Proceedings of the 3rd International Conference on Green Energy, Environment and Sustainable Development (GEESD2022) Unsettled Screening Level Assessment of Risks Due to Dioxin Emissions from Burning Oil from the BP Deepwater Horizon Gulf of Mexico Spill*

Engine Emissions Feb 20 2023 "Engine Emissions: Pollutant Formation and Advances in Control Technology provides an up to date reference to academics and professionals on emissions from SI and CI engine powered vehicles. - In this text, mechanism of formation of engine emissions, effect of engine design and operation variables, world wide vehicle emission standards and emission measurement and test procedures are presented. Advances in emission control technology that have taken place from those used initially and up to the ones employed on the present day vehicles meeting the stringent emission regulations e.g., Euro 4, ULEV, SULEV standards are discussed. - Newer developments on exhaust aftertreatment such as HC adsorber systems, NO, traps and other de-NO, catalysts, and advanced engines like GDI and HCCI engines are covered in the book."--Jacket.

Report to the President from the National Commission on the BP Deepwater Horizon Oil Spill and Offshore Drilling Sep 22 2020

Advances in Ultra-low Emission Control Technologies for Coal-Fired Power Plants Aug 02 2021 Advances in Ultra-low Emission Control Technologies for Coal-Fired Power Plants discusses the emissions standards of dust, SO₂, NO_x and mercury pollution, also presenting the key technologies available to control emissions in coal-fired power plants. The practical effects of ultra-low emissions projects included help the reader understand related implications in plants. Emphasis is placed on 300MW subcritical, 600MW subcritical, 660MW supercritical and 1000MW ultra-supercritical coal-fired units. The influence of different pollutant control units, such as wet electrostatic precipitator, desulfurization equipment and the electrostatic precipitator are also analyzed, and the pollutant levels before and after retrofitted ultra-low emissions are compared throughout. Provides a unique analysis of advanced technologies, such as dust-removal, desulfurization and denitrification used for ultra-low emissions in coal-fired power plants Introduces emission standards for dust, SO₂, NO_x and Mercury pollution from coal-fired power plants in China, the US and Europe Provides solutions to reducing emissions based on technological advances in China Analyzes the environmental and economic effects of these technologies

Carbon Management Jan 27 2021 Considerable international concerns exist about global climate change and its relationship to the growing use of fossil fuels. Carbon dioxide is released by chemical reactions that are employed to extract energy from fuels, and any regulatory policy limiting the amount of CO₂ that could be released from sequestered sources or from energy-generating reactions will require substantial involvement of the chemical sciences and technology R&D community. Much of the public debate has been focused on the question of whether global climate change is occurring and, if so, whether it is anthropogenic, but these questions were outside the scope of the workshop, which instead focused on the question of how to respond to a possible national policy of carbon management. Previous discussion of the latter topic has focused on technological, economic, and ecological aspects and on earth science challenges, but the fundamental science has received little attention. This workshop was designed to gather information that could inform the Chemical Sciences Roundtable in its discussions of possible roles that the chemical sciences community might play in identifying and addressing underlying chemical questions. *Energy and Emissions Markets* Oct 24 2020 Written by best selling author Peter C. Fusaro and renowned energy market expert and commentator Tom James, this book demonstrates that the forces of energy and environmental issues and linked more than ever before. The beginning of European emissions and trading in 2005 and the implementation of the Kyoto protocol have accelerated efforts already underway in the US to use market forces to remediate environmental issues. Topics such as emissions trading, renewable energy trading, the fourth dimension in energy trading, and new outcomes on green project finance will be analyzed in this book.

Critical Review of DIAL Emission Test Data for BP Petroleum Refinery in Texas City, Texas Sep 15 2022

Handbook of Aggregation-Induced Emission, Volume 1 Sep 03 2021 The first volume of the ultimate reference on the science and applications of aggregation-induced emission The Handbook of Aggregation-Induced Emission explores foundational and advanced topics in aggregation-induced emission, as well as cutting-edge developments in the field, celebrating twenty years of progress and achievement in this important and interdisciplinary field. The three volumes combine to offer readers a comprehensive and insightful interpretation accessible to both new and experienced researchers working on aggregation-induced emission. In this first volume of three, the editors survey the subject of aggregation-induced emission with a focus on the fundamentals of various branches of the discipline, such as crystallization-induced emission, room temperature phosphorescence, aggregation-induced delayed fluorescence, and more. This book covers the new properties of materials endowed by molecular aggregates. It also includes: A thorough introduction to the mechanistic understanding of the importance of molecular motion to aggregation-induced emission An exploration of the aggregation-induced emission mechanism at the molecular level Practical discussions of aggregation-induced emission from the restriction of double bond rotation at the excited state, and clusterization-triggered emission Perfect for academic researchers working on aggregation-induced emission, this set of volumes is also ideal for professionals and students in the fields of photophysics, photochemistry, materials science, optoelectronic materials, synthetic organic chemistry, macromolecular chemistry, polymer science, and biological sciences.

IC Engines Nov 17 2022

International Petroleum Conference & Exhibition of Mexico Mar 17 2020

EU Emissions Trading Apr 29 2021 The EU Emissions Trading Scheme (EU ETS) has been characterized as one of the most far-reaching and radical environmental policies for many years. Given the EU's earlier resistance to this market-based and US-flavoured programme, the development and implementation of the EU ETS has been rapid. This novel approach to environmental regulation has the potential to affect not only greenhouse gas emissions in the EU, but also international strategies for climate change protection. This book investigates the origins, evolution and consequences of the EU ETS and offers significant contributions to the literatures on climate policy and EU policy making.

BP Cherry Point Refinery Proposed Amendment to Air Emissions Permit Dec 18 2022 The BP Cherry Point Refinery is requesting an amendment to the existing Prevention of Significant Deterioration (PSD) permit No. 07-01, Amendment 2, permit for steam boiler #6 and #7 to correct an error made in the original boiler permit by increasing the short-term particulate matter less than 10 microns emission limit from the current 3.4 lb/hr to 5.0 lb/hr.

Emissions Trading and Business Oct 16 2022 Emissions trading (ET) challenges business managers in an entirely new manner, changing the criteria by which environmental policy steers management decisions from hierarchical to monetary. The 24 contributions to this volume discuss ET theoretically and empirically in these broad topic areas: 1) Institutional design, decision making and innovation; 2) Investment and management strategies; 3) ET and business administration and 4) Effects of existing and emerging ET schemes.

BP Cherry Point Cogeneration Project Jun 19 2020

Engine Emissions Jun 12 2022 Introduces readers to the fundamentals of formation of pollutant formation in IC engines and advances in the engine emission control that have taken place over recent years.

Proceedings of the 3rd International Conference on Green Energy, Environment and Sustainable Development (GEESD2022) Dec 14 2019 With the general acknowledgement that climate change constitutes an existential threat to both mankind and to the planet, the quest for more sustainable and environmentally-friendly ways of developing and maintaining human civilizations has become ever more important in recent years. This book presents the proceedings of GEESD2022, the 3rd International Conference on Green Energy, Environment and Sustainable Development. Due to continuing travel restrictions as a result of the COVID-19 pandemic, the conference was held as a hybrid event, part face-to-face in Beijing, China, and partly online via Zoom, on 29 June 2022. The 141 papers included here were selected after a rigorous 6-month process of evaluation and peer-review from the more than 300 submissions received, and are grouped into 7 sections: energy system and smart control; sustainable and green energy; environmental modeling and simulation; environmental science and pollution research; ecology and rural environment; building and environment; and water and mineral resources. The book provides an overview of the most up-to-date findings and technologies current in green energy, environment and sustainable development today, and will be of interest to all those working in the field.

Veterinary Clinical Pathology Feb 14 2020 *Veterinary Clinical Pathology: A Case-Based Approach* presents 200 cases with questions for those interested in improving their skills in veterinary clinical pathology. It emphasises an understanding of basic pathophysiological mechanisms of disease, differential diagnoses and recognition of patterns associated with various diseases or conditions. Topics discussed include haematology, clinical chemistry, endocrinology, acid-base and blood gas analysis, haemostasis, urinalysis, biological variation and quality control. Species covered include the cat, dog and horse, with additional material on ruminants. Cases vary in difficulty, allowing beginners to improve their clinicopathologic skills while more complicated cases, or cases treating unfamiliar topics, are included for experienced readers. This book is a helpful revision aid for those in training as well as for those in practice who are pursuing continuing education. It is also a valuable resource for veterinary nurses and technicians.

Screening Level Assessment of Risks Due to Dioxin Emissions from Burning Oil from the BP Deepwater Horizon Gulf of Mexico Spill Oct 12 2019 "Between April 28 and July 19 of 2010, the US Coast Guard conducted in situ oil burns as one approach used for the management of oil spilled after the explosion and subsequent sinking of the BP Deepwater Horizon platform in the Gulf of Mexico. The purpose of this paper is to describe a screening level assessment of the exposures and risks posed by the dioxin emissions from these fires. Using upper estimates for the oil burn emission factor, modeled air and fish concentrations, and conservative exposure assumptions, the potential cancer risk was estimated for three scenarios: inhalation exposures to workers, inhalation exposure to residents on the mainland, and fish ingestion exposures to residents. U.S. EPA's AERMOD model was used to estimate air concentrations in the immediate vicinity of the oil burns and NOAA's HYSPLIT model was used to estimate more distant air concentrations and deposition rates. The lifetime incremental cancer risks were estimated at 6 x 10⁻⁸ for inhalation by workers, 6 x 10⁻¹² for inhalation by onshore residents and 6 x 10⁻⁸ for fish consumption by residents. For all scenarios the risk estimates represent upper bounds and actual risks would be expected to be less."--Abstract.

Aggregation-Induced Emission Oct 04 2021 Aggregation-Induced Emission (AIE) is a novel photophysical phenomenon which offers a new platform APPLICATIONS for researchersto look into the light-emitting processes from luminogenaggregates, from which useful information onstructure-property relationships may be collected andmechanistic insights may be gained. The discovery of the AIE effectopens a new avenue for the development of new luminogen materialsin the aggregate or solid state. By enabling light emission in thepractically useful solid state, AIE has the potential tosignificantly expand the technological applications of luminescentmaterials. *Aggregation-Induced Emission: Applications* is the firstbook to explore the high-tech applications of AIE luminogens, including technological utilizations of AIEmaterials in the areas of electroluminescence, mechanochromism,chiral recognition, ionic sensing, biomolecule detection, and cellimaging. Potential applications in room temperaturephosphorescence, liquid crystals, circularly polarizedluminescence, and organic lasing are also introduced in thisvolume. Topics covered include: AIE materials for electroluminescenceapplications Liquid crystals with AIE characteristics Mechanochromic AIE materials Chiral recognition and enantiomericdifferentiation based on AIE AIE and applications of aryl-substituted pyrrolederivatives New chemo-/biosensors with AIE-activemolecules AIE luminogens for in vivo functionalbioimaging Applications of AIE materials in biotechnology This book is essential reading for scientists and engineers who aredesigning optoelectronic materials and biomedical sensors, and willalso be of interest to academic researchers in materials science,physical and synthetic organic chemistry as well as physicists andbiological chemists.

IC Engines Aug 14 2022 This book introduces the reader to fundamentals of engine combustion processes and pollutant formation combustion thermodynamics, conceptual and thermodynamic engine combustion models, fluid motion in the cylinder, the conventional and advanced combustion systems such as for DISC, CAI, and HCCI engines are discussed. For a wider coverage on the subject, emission measurement alternative propulsion systems are included in this text. Laser based and other combustion diagnostic techniques are outlined to introduce readers to modern combustion research methods. The book attempts to present theoretical aspects and the practices including the latest developments in engine and emission control technology.

Aggregation-Induced Emission (AIE) Jul 01 2021 *Aggregation-Induced Emission (AIE): A Practical Guide* introduces readers to the topic, guiding them through fundamental concepts and the latest advances in applications. The book covers concepts, principles and working mechanisms of AIE in AIE-active luminogens, with different classes of AIE luminogens reviewed, including polymers, three-dimensional frameworks (MOFs and COFs) and supramolecular gels. Special focus is given to the structure-property relationship, structural design strategies, targeted properties and application performance. The book provides readers with a deep understanding, not only on the fundamental principles of AIE, but more importantly, on how AIE luminogens and AIE properties can be incorporated in material development. Provides the fundamental principles, design and synthesis strategies of aggregation induced emission materials Reviews the most relevant applications in materials design for stimuli-responsive materials, biomedical applications, chemo-sensing and optoelectronics Emphasizes structural design and its connection to aggregation induced emission properties, also exploring the structure-property relationship

Bulletin of the Chemical Society of Japan Nov 05 2021

The Roadmap for Sustainable Business and Net Zero Carbon Emission Jan 07 2022 What does sustainable business and net zero carbon emission mean for businesses globally? How should companies globally transform into sustainable businesses with net zero carbon emissions? This book unpacks the institutional, organisational and management challenges in pursuing sustainable business and carbon neutrality for businesses. In this book, Henry K. H. Wang, an internationally recognised Climate and Business expert, provides real-life cases across different countries and business sectors. He outlines potential policy implications and strategy options for companies to consider in their transitions to sustainable business practices. He also explores important new global developments in smart cities, green transport and carbon solutions, and how the adoption of sustainable finance and green investments can accelerate businesses transformation. This book will appeal to anyone interested to learn more about the successful planning and execution of sustainable business and net zero carbon neutrality transformations.

Carbon Dioxide Capture and Storage Jan 15 2020 IPCC Report on sources, capture, transport, and storage of CO₂, for researchers, policy-makers and engineers.

Critical Review of DIAL Emission Test Data for BP Petroleum Refinery in Texas City, Texas Jan 19 2023

Developing and Deploying Negative Emission Technologies: System-level Assessment and Rationalization Mar 29 2021

The Business of Climate Change Apr 17 2020 In recent years climate change has become a leading issue on both the business and political agenda. With the Kyoto Protocol to the UN Framework Convention on Climate Change now ratified, business is bracing itself for the reality of serious regulation on the reduction of greenhouse gas emissions. The Business of Climate Change presents a state-of-the-art analysis of corporate responses to the climate change issue. The book describes and assesses a number of recent business approaches that will help to identify effective strategies and promote the dissemination of proactive corporate practices on climate change worldwide. By identifying the factors that cause companies to pursue low-carbon strategies and support the Kyoto process, the book will also be helpful to governments in formulating policy. Business and industry have a crucial role to play in the implementation of the Kyoto Protocol. They are major emitters of greenhouse gases, and pressure is mounting for them to engage in a range of mitigation strategies, from emission inventorying and trading schemes to investments in low-carbon technologies. Behind the scenes a number of companies have started to develop strategies to curtail greenhouse gas emissions. These strategies can be very diverse in nature. At a political level, companies try to influence policy implementation and, more specifically, to test ideas in anticipation of possible regulation on the climate change issue. At a more practical level, there are a burgeoning number of initiatives to conserve energy use in production, transportation and buildings, to develop renewable sources of energy, to measure carbon emissions and sequestration at a detailed level, and to develop various markets for trading carbon credits among companies and countries. Some technologies, such as hybrid cars and compact fluorescent lighting, are now market realities. Common to all of these initiatives is that they operate in an environment of high complexity and uncertainty. The political implementation of the Kyoto Protocol remains uncertain and many details remain unspecified. Economic instruments such as emission trading are favoured, but their mechanisms are still hotly debated and the future price of credits is unknown. New markets for low-emission products and technologies are beginning to appear, but there are currently few regulatory drivers to assist their development. The impact of potential regulation on business will vary tremendously between companies and sectors. The fossil fuel and energy sectors fear the economics of action, while sectors such as insurance and agriculture fear the economics of inaction. Combined with the remaining uncertainties about what form climate change may take, corporate responses to reduce risks have to differentiate between sectors and have to be flexible. For individual companies, these big uncertainties demand new thinking and contingency planning. The Business of Climate Change is split into four sections: "Introduction and overview" presents a broad perspective on business and climate policies

The Greenhouse Gas Protocol Feb 08 2022 The GHG Protocol Corporate Accounting and Reporting Standard helps companies and other organizations to identify, calculate, and report GHG emissions. It is designed to set the standard for accurate, complete, consistent, relevant and transparent accounting and reporting of GHG emissions.

Flexible Mechanisms for an Efficient Climate Policy May 19 2020 In the Kyoto Protocol to the UN Framework Convention on Climate Change, industrialized countries agreed on binding absolute targets for greenhouse gas emissions and on the admission of flexible market-economy instruments - such as emissions trading, joint implementation and the clean development mechanism - used for reaching the targets. The contributions in this volume reveal that flexible instruments can lower the costs of climate protection considerably - not only in theory, but also in practice. Concerning implementation, it will be necessary to take care of possible loopholes, uncertainties and transaction costs which may be too high if no proper design is chosen.

Greenhouse Gas Emissions and Emissions Mitigation from Agricultural and Horticultural Production Systems Feb 25 2021

Screening Level Assessment of Risks Due to Dioxin Emissions from Burning Oil from the BP Deepwater Horizon Gulf of Mexico Spill Dec 06 2021

Emissions Trading Nov 24 2020 Authoritative, comprehensive, accessible-the definitive guide to a new approach in environmental policy Emissions Trading: Environmental Policy's New Approach presents the work of an outstanding group of contributors on the successes and limitations of this new and exciting incentive-based tool for reducing environmental pollutants. By including the comments of emitters, regulators, public interest group representatives, and academics, the book reveals the criticisms, disagreements, and growing resolution of numerous environmental questions, including: * Can markets be used to correct market environmental failure? * Will decentralized decisions by emitters produce an improvement in air quality? * Can this approach realize significant control cost savings? * Can emissions trading be monitored and enforced effectively at a reduced cost? * Will affected groups support this dramatic innovation? Supported with sound analytical thinking and careful consideration of the evidence, Emissions Trading presents an open and candid discussion of the issues and choices that lie ahead. As emissions trading is extended to air pollutants such as nitrogen oxides and carbon dioxide, the data and information contained in this book will become even more important and compelling for anyone interested in matters destined to have a profound impact on the economy, the environment, and public health.

Greenhouse Gas Emission Inventories Aug 22 2020 International concern for the continued growth of greenhouse gas emissions, and the potentially damaging consequences of resultant global climate change, led to the signing of the United Nations Framework Convention on Climate Change by 155 nations at the Earth Summit in June 1992. The Convention came into force on 21 March 1994, three months after receiving its 50th ratification. All Parties to the Convention are required to compile, periodically update, and publish national inventories of anthropogenic greenhouse gas emissions and sinks using comparable methodologies. In support of this process, the US Country Studies Program (US CSP) is providing financial and technical assistance to 56 developing and transition countries for conducting national inventories. This book presents the results of preliminary national inventories prepared by countries participating in the US CSP that are ready to share their interim findings. In some cases, inventories were prepared with support from other organizations. Preliminary inventories of twenty countries in Africa, Asia, Central and Eastern Europe and the Newly Independent States, and Latin America are presented, as well as regional and global syntheses of the national results. The regional and global syntheses also discuss results of eleven other preliminary national inventories that have been published elsewhere with the assistance of other programs. Results are discussed in the context of national and regional socioeconomic characteristics, and the regional and global syntheses compare national inventory estimates to other published estimates that are based largely on international databases. Papers also discuss inventory development issues, such as data collection and emission factor determination, and problems associated with applying the IPCC inventory methodologies. The preliminary inventory results reported here represent significant progress towards meeting country commitments under the Framework Convention, and provide useful information for refining international greenhouse gas emission databases and improving inventory methodologies. As the first book to compile national greenhouse gas emission estimates prepared by national experts in developing countries and countries with economies in transition, this will be an invaluable resource to scientists, policymakers, and development specialists in national, regional and global anthropogenic sources and sinks of greenhouse gases.

Beta-delayed Proton Emission in the 100-tin Region Jul 13 2022

New Energy Jul 21 2020 This book comprehensively and systematically introduces the principles, key technologies and main types of new energy utilization based on the analysis and prospect of global energy development trend and energy transformation law. Starting from the basic law of energy development, this book points out the inevitability of the development of fossil energy to non-fossil new energy, expounds scientifically and prospectively the importance of developing new energy to conform to the law of energy development and to ensure national energy security, introduces in detail various new energy technologies, summarizes the new strategies of traditional energy companies, and expounds respectively current situation and application prospect. The book is divided into four parts. The first one is "Energy Trend" includes the law of energy development, world energy layout and energy development trend. The second part, "New Energy Revolution", includes revolutionary energy technology and energy Internet technology. The third part is "New Strategies of Traditional Energy Companies", which includes the new energy distribution of oil companies and coal-fired power companies. Part IV "New Energy Theories", includes hydrogen energy, energy storage and new materials, geothermal, nuclear energy, wind and tide and other new energy sources.

Handbook for Considering Practical Greenhouse Gas Emission Reduction Strategies for Airports Apr 10 2022 Section 1. Introduction and purpose of the research -- section 2. Development of the fact sheets -- section 3. How to use the handbook, fact sheets, and AirportGEAR -- section 4. Greenhouse gas accounting principles and other considerations -- appendix A. Fact sheets -- appendix B. AirportGEAR user's manual -- appendix C. Awareness presentation.

Chemistry of Silica and Zeolite-Based Materials Dec 26 2020 Chemistry of Silica and Zeolite-Based Materials covers a wide range of topics related to silica-based materials from design and synthesis to applications in different fields of science and technology. Since silica is transparent and inert to the light, it is a very attractive host material for constructing artificial photosynthesis systems. As an earth-abundant oxide, silica is an ideal and basic material for application of various oxides, and the science and technology of silica-based materials are fundamentally important for understanding other oxide-based materials. The book examines nanosolvation and confined molecules in silica hosts, catalysis and photocatalysis, photonics, photosensors, photovoltaics, energy, environmental sciences, drug delivery, and health. Written by a highly experienced and internationally renowned team from around the world, Chemistry of Silica and Zeolite-Based Materials is ideal for chemists, materials scientists, chemical engineers, physicists, biologists, biomedical sciences, environmental scientists, toxicologists, and pharma scientists. --- "The enormous versatility of silica for building a large variety of materials with unique properties has been very well illustrated in this book.... The reader will be exposed to numerous potential applications of these materials - from photocatalytic, optical and electronic applications, to chemical reactivity in confined spaces and biological applications. This book is of clear interest not only to PhD students and postdocs, but also to researchers in this field seeking an understanding of the possible applications of meso and microporous silica-derived materials." - Professor Avelino Corma, Institute of Chemical Technology (ITQ-CSIC) and Polytechnical University of Valencia, Spain Discusses the most important advances in various fields using silica materials, including nanosolvation and confined molecules in silica hosts, catalysis and photocatalysis, and other topics Written by a global team of experts from a variety of science and technology disciplines Ideal resource for chemists, materials scientists, and chemical engineers working with oxide-based materials

Strategic Responses to the EU Emission Trading Scheme Mar 09 2022 Master's Thesis from the year 2011 in the subject Economy - Environment economics, grade: 1.1, , course: International Business, language: English, abstract: Emitting half of the greenhouse gases in industrialised countries, the oil and gas sector plays a central role in global GHG emissions. Environmental regulations such as the EU ETS emerged to fight climate change by reducing GHG emissions. Although those regulations increasingly affect oil and gas companies, specific implications of the EU ETS on business strategies are widely unknown. Therefore, this dissertation explores strategic responses to the EU ETS and analyses the impact of the regulation on the oil and gas sector. A strategic response framework, derived from the literature review, provides the basis for the analysis and is consequently adapted to the research findings. Empirical case studies of BP and Shell, combine secondary data and expert interviews to identify and further outline specific responses to the EU ETS. The research findings indicate that the EU ETS significantly impacts business strategies of oil and gas firms. The resulting strategic responses are mainly influenced by regulatory pressure, economic factors and competitive implications. Responses in various corporate, managerial and operational areas could be identified. From a corporate perspective, oil and gas companies support the EU ETS, as a trading scheme for carbon is preferred to other options, such as carbon taxes. Managerial responses comprise the introduction of environmental risk management systems, incorporating a carbon price into investment decisions, and the establishment of carbon trading teams, mitigating the costs of the EU ETS. Operationally, oil and gas firms responded directly by engaging in carbon trading and investing in Carbon Capture and Storage technologies. While, process improvements and lower emission generating products such as natural gases and biofuels are responses triggered by the EU ETS, investments in renewables are not affected. Additional findings of the research are the high probability that carbon and investment leakage will take place as well as the significant impact, the EU ETS might have on M&A and outsourcing decisions, depending on the carbon price.

Unsettled Nov 12 2019 "Unsettled is a remarkable book—probably the best book on climate change for the intelligent layperson—that achieves the feat of conveying complex information clearly and in depth." —Claremont Review of Books "Surging sea levels are inundating the coasts." "Hurricanes and tornadoes are becoming fiercer and more frequent." "Climate change will be an economic disaster." You've heard all this presented as fact. But according to science, all of these statements are profoundly misleading. When it comes to climate change, the media, politicians, and other prominent voices have declared that "the science is settled." In reality, the long game of telephone from research to reports to the popular media is corrupted by misunderstanding and misinformation. Core questions—about the way the climate is responding to our influence, and what the impacts will be—remain largely unanswered. The climate is changing, but the why and how aren't as clear as you've probably been led to believe. Now, one of America's most distinguished scientists is clearing away the fog to explain what science really says (and doesn't say) about our changing climate. In *Unsettled: What Climate Science Tells Us, What It Doesn't, and Why It Matters*, Steven Koonin draws upon his decades of experience—including as a top science advisor to the Obama administration—to provide up-to-date insights and expert perspective free from political agendas. Fascinating, clear-headed, and full of surprises, this book gives readers the tools to both understand the climate issue and be savvy consumers of science media in general. Koonin takes readers behind the headlines to the more nuanced science itself, showing us where it comes from and guiding us through the implications of the evidence. He dispels popular myths and unveils little-known truths: despite a dramatic rise in greenhouse gas emissions, global temperatures actually decreased from 1940 to 1970. What's more, the models we use to predict the future aren't able to accurately describe the climate of the past, suggesting they are deeply flawed. Koonin also tackles society's response to a changing climate, using data-driven analysis to explain why many proposed "solutions" would be ineffective, and discussing how alternatives like adaptation and, if necessary, geoengineering will ensure humanity continues to prosper. *Unsettled* is a reality check buoyed by hope, offering the truth about climate science that you aren't getting elsewhere—what we know, what we don't, and what it all means for our future.

Culture, Environment and Ecopolitics May 31 2021 Culture, Environment and Ecopolitics brings together a series of new reflections on historical and current ecological and environmental predicaments. By way of critical interventions in environmental thought, and through engagements with literary, visual, architectural, philosophical, and more general cultural studies scholarship, this collection of essays by an international panel of writers breaks new interpretative ground. While techno-science has in some quarters been elevated to a master discourse of humanity's salvation, charged with providing a magical 'fix' for planetary ecological dilemmas, the focus of our volume is on the importance of cultural reflection for bringing matters of local and global import to light. Moving from the abstractions of eco-critical utopianisms to the concrete identity of the land in the poetry of John Clare, from British Petroleum's attempts to re-brand climate change to examples of eco-architecture, and much more besides, these essays exemplify ways in

which eco-political thought and practice might now be theorized. The collection is framed by a substantial editors' introduction which offers but one contextualization of the ideas and critical trajectories that follow. Culture, Environment and Ecopolitics will allow readers to discover original intersections and argumentative cross-references across contested terrains in a world increasingly troubled by ecological crises.

The New Map May 11 2022 A Wall Street Journal bestseller and a USA Today Best Book of 2020 Named Energy Writer of the Year for The New Map by the American Energy Society "A master class on how the world works." —NPR Pulitzer Prize-winning author and global energy expert, Daniel Yergin offers a revelatory new account of how energy revolutions, climate battles, and geopolitics are mapping our future The world is being shaken by the collision of energy, climate change, and the clashing power of nations in a time of global crisis. Out of this tumult is emerging a new map of energy and geopolitics. The "shale revolution" in oil and gas has transformed the American economy, ending the "era of shortage" but introducing a turbulent new era. Almost overnight, the United States has become the world's number one energy powerhouse. Yet concern about energy's role in climate change is challenging the global economy and way of life, accelerating a second energy revolution in the search for a low-carbon future. All of this has been made starker and more urgent by the coronavirus pandemic and the economic dark age that it has wrought. World politics is being upended, as a new cold war develops between the United States and China, and the rivalry grows more dangerous with Russia, which is pivoting east toward Beijing. Vladimir Putin and China's Xi Jinping are converging both on energy and on challenging American leadership, as China projects its power and influence in all directions. The South China Sea, claimed by China and the world's most critical trade route, could become the arena where the United States and China directly collide. The map of the Middle East, which was laid down after World War I, is being challenged by jihadists, revolutionary Iran, ethnic and religious clashes, and restive populations. But the region has also been shocked by the two recent oil price collapses—and by the very question of oil's future in the rest of this century. A master storyteller and global energy expert, Daniel Yergin takes the reader on an utterly riveting and timely journey across the world's new map. He illuminates the great energy and geopolitical questions in an era of rising political turbulence and points to the profound challenges that lie ahead.

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