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# Energy And Climate Vision For The Future

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Advancing Equity in Clean Energy Solutions  
Agile Energy Systems  
Informing Energy and Climate Policies Using  
Energy Systems Models  
Special Report of the Intergovernmental Panel on  
Climate Change  
Renewable Energy and Climate Change  
Climate Change  
Advocating for the Environment  
Energy and Climate in the Urban Built  
Environment  
Vision for the Future  
Energy and Climate Wars  
New Vision 2050  
The Future We Choose  
The Renewable Revolution  
Insights from Scenario Analysis Increasing the  
Evidence Base  
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Global Lessons from the California Energy Crisis  
ESTABLISHING A COMMON TRANSATLANTIC  
AGENDA

## Climate Change, Clean Energy, and Justice

*Energy And  
Climate  
Vision For  
The Future*

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### **CORDOVA RYKER**

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Advancing Equity in  
Clean Energy Solutions  
Springer Science &  
Business Media  
Global warming is  
changing the world as  
we know it. Climate  
change can have  
catastrophic impacts in  
numerous cities across  
the world. It is time for  
us to react - quickly  
and effectively. The  
European Community  
(EC) has been leading  
the fight against  
climate change,  
making it one of its top  
priorities. We have  
introduced the most  
ambitious targets of  
their kind, known as  
the “20/20/20 by  
2020” initiative within  
the “Climate Action

and Renewable Energy  
Package.” As a result,  
European Member  
States have taken on a  
commitment to curb  
their CO emissions by  
at least 20% by 2020.  
2 These targets are  
indeed commendable;  
however, they are only  
the start if we are to  
avoid the  
consequences of global  
warming. Whilst top  
level coordination from  
the European  
Institutions and  
Member State  
governments is vital,  
the role of mitigating  
and adapting to  
climate change at local  
level must not be  
forgotten. In fact, here  
cities, regions and their  
citizens play a  
significant a role. It is  
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change challenge. The European Commission therefore launched in 2008 a new initiative, the Covenant of Mayors, which brings together a network of European mayors in a voluntary effort to go beyond the European Union's already ambitious targets. Half of our greenhouse gas emissions (GHGs) are created in and by cities.

### **Agile Energy**

**Systems** Elsevier Energy And Climate Wars cuts through the jargon, the media hype and the speculative science to present key facts too often obscured in the media. Along the way it demolishes a string of popular myths, including beliefs that: - politicians understand the importance of energy in the modern

world -"the science is all in" on climate and that CO2 is a pollutant -renewable energy can ever replace hydrocarbon energy - the oil is running out or has already peaked Further, it reveals how: -Russia has embarked on a new era of energy imperialism -China is buying up the world's energy resources and will dominate - ideologically-driven elites are using energy-climate as a means to achieve power Energy is the world's most important commodity. Without energy the modern industrialized world, as we know it, would return to the dark ages. In this well-researched book, Glover and Economides reveal how creating a culture of alarmism has given political and green ideologues an

unprecedented opportunity to promote distortions about energy and climate and impose social engineering ideals alleged to be in the 'common interest'.

Informing Energy and Climate Policies Using Energy Systems Models Routledge

This dazzling introductory textbook encompasses the full range of today's important renewable energy technologies. Solar thermal, photovoltaic, wind, hydro, biomass and geothermal energy receive balanced treatment with one exciting and informative chapter devoted to each. As well as a complete overview of these state-of-the-art technologies, the chapters provide: clear

analysis on their development potentials; an evaluation of the economic aspects involved; concrete guidance for practical implementation; how to reduce your own energy waste. If we do not act now to stop climate change, the consequences will be catastrophic. The current world situation is demonstrated here with the aid of full-colour figures and photographs, data diagrams and simple calculations and results. A multiplicity of impressive examples from countries across the globe show international 'alternative' energy in action. With its easy-to-read approach, this is an essential textbook for students on renewable energy

courses, also environment and sustainability courses. Planners, operators, financiers and consultants will find this an excellent manual for planning and realizing climate protection. Furthermore, this book makes great background reading for energy workers, designers, politicians and journalists, and anyone who is interested in the topic of climate change. Looking for further study? Visit the complimentary website; it hosts many useful related internet sites: [www.wiley.com/go/qualifying\\_renewable](http://www.wiley.com/go/qualifying_renewable)

**Special Report of the Intergovernmental Panel on Climate Change** Elsevier

Science Limited  
 This project has aimed to take forward the Environment Agency's contribution to sustainable energy, and to develop the Agency's capacity to undertake a leadership role in sustainable energy. It has consisted of two main elements; firstly, researching and writing an holistic and robust vision of sustainable energy for the UK, and secondly, stimulating and provoking the organisation to consider the need for an Agency energy policy and the content of that sustainable energy policy. Both aspects of this project have represented substantial challenges, and taken as a whole the project has been quite ambitious - that of drafting a

sustainable energy policy and then encouraging the Agency to officially adopt it. The project has been embedded within a substantial process of change and redirection within the organisation. My work has contributed to the Sustainable Development Unit's general programme of work, and a key component of the project has involved encouraging the Agency to embrace a high profile and, potentially risky; new approach to sustainable development. My project has promoted the message that the Environment Agency needs to engage in the politics of sustainable development if it wishes to be more influential in shaping

key sustainability issues, such as energy, and that developing policy positions on sustainability issues is the first step in that process. Over the last year of my project, the Sustainable Development Unit has undertaken a specific policy advocacy initiative to encourage the organisation to adopt advocacy as a sustainable development tool, and to develop the organisation's capacity to develop and disseminate advocacy messages. Prior to this initiative, one way in which my work promoted this agenda was through producing internal discussion papers to advocate approaches and stimulate thinking. These discussion papers have been vital

products of my research work, and the main ones are appended to this paper. There have been significant positive developments during the course of my work, and my project has played a role in contributing to this. The Agency is in the process of considering the energy vision I drafted and is putting the structures in place to develop energy positions. The organisation is now on the verge of adopting an energy vision and a set of robust policy advocacy positions on sustainable energy. In my role as sustainable energy researcher I have sought to develop a robust understanding of sustainable energy, and paint a picture of a sustainable energy system. The Agency

has needed to develop a shared understanding because there are many divergent views on the meaning of sustainable energy, and the best policies for the future. A particularly divisive issue is that of whether nuclear power is necessary for the delivery of a climate-friendly energy system. This issue was particularly stalling the internal sustainable energy debate, and therefore the development of an Agency sustainable energy position, and it was a key investigation within my energy research. Assessing the ability of renewable energy and improved energy productivity to meet our energy service needs, and to deliver the required reductions in carbon



dioxide emissions for addressing climate change, has been a central project objective. This research has taught me a great deal and it has inspired me about the positive prospects for the future. The main products of this research have been the development of a Sustainable Energy Vision for the Environment Agency and an Environment Agency Renewable Energy Position Statement (which are appended to this paper). I believe that the sustainable energy vision has made a valuable contribution to the sustainable energy debate within the Agency, and within the UK energy policy community as a whole. Much of the argument and analytical material

which underpins my understanding of sustainable energy is presented in the vision document (indeed, the energy vision is effectively a direct communication of my understanding of what constitutes sustainable energy, and the research I have based this upon) and therefore, to avoid repetition, I refer to this underpinning research only briefly in the following text. This first chapter provides a brief introduction to the aims and context of this project. The second chapter then examines the role of the Environment Agency in delivering sustainable development and sustainable energy, and examines ways in which it may improve its contribution. It also

introduces the arguments for why I undertook the project and the key messages that I have conveyed as a component of the project work. The third chapter outlines the complexities of the sustainable energy debate, the challenge involved in developing a position, and coming to an opinion on, sustainable energy and the approach I decided to adopt. The fourth chapter introduces my position and role within the organisation in the context of this project. The fifth chapter outlines the literature review that I undertook for the project work, and the sixth my methodological approach. The seventh chapter presents my project activity in seeking to deliver my project objectives and

influence Agency opinion, and it documents my developing understanding of sustainable energy. The eighth attempts to evaluate the impact of my project work and my success in delivering my original objectives. Finally, the appendices include some of the main products of the project. This includes the key output, which is a Sustainable Energy Vision for the Environment Agency, a Renewable Energy Policy Position for the Agency, an internal discussion paper on the need for an Agency energy position, and an internal discussion paper which looks at the key issues involved in an analysis of sustainable energy. *Renewable Energy and*

*Climate Change* John Wiley & Sons  
Global warming is changing the world as we know it. Climate change can have catastrophic impacts in numerous cities across the world. It is time for us to react - quickly and effectively. The European Community (EC) has been leading the fight against climate change, making it one of its top priorities. We have introduced the most ambitious targets of their kind, known as the "20/20/20 by 2020" initiative within the "Climate Action and Renewable Energy Package." As a result, European Member States have taken on a commitment to curb their CO emissions by at least 20% by 2020. 2 These targets are indeed commendable;

however, they are only the start if we are to avoid the consequences of global warming. Whilst top level coordination from the European Institutions and Member State governments is vital, the role of mitigating and adapting to climate change at local level must not be forgotten. In fact, here cities, regions and their citizens play a significant a role. It is therefore vital they become directly involved in the climate change challenge. The European Commission therefore launched in 2008 a new initiative, the Covenant of Mayors, which brings together a network of European mayors in a voluntary effort to go beyond the European Union's already

ambitious targets. Half of our greenhouse gas emissions (GHGs) are created in and by cities.

*Climate Change*

Morgan & Claypool  
Publishers

Concerns over climate change and energy depletion are increasing exponentially.

Mainstream solutions still assume a panacea that will cure our climate ills without requiring any serious modification to our way of life. Plan C explores the risks inherent in trying to continue our energy-intensive lifestyle. Using dirtier fossil fuels (Plan A) or switching to renewable energy sources (Plan B) allows people to remain complacent in the face of potential global catastrophe.

Dramatic lifestyle

change is the only way to begin to create a sustainable, equitable world. The converging crises of Peak Oil, Climate Change and increasing inequity are presented in a clear, concise manner, as are the twin solutions of community (where cooperation replaces competition) and curtailment (deliberately reducing consumption of consumer goods). Plan C shows how each person's individual choices can dramatically reduce CO2 emissions. It offers specific strategies in the areas of food, transportation and housing. One chapter analyzes the decimation of the Cuban economy when the USSR stopped oil exports in 1990 and provides an inspiring

vision for a low energy way of living. Plan C is an indispensable resource for anyone interested in living a lower-energy, saner, and sustainable lifestyle.

*Advocating for the Environment* Yale University Press

Our environment and society is threatened by fuel shortages, a changing climate and energy wars. In our race for survival we are awakened to the simple truth that the essential condition of sustainability lies in our ability to live within the limits and renewability of natural resources. It invokes within us an urgent need for transition from an obsolete, destructive and unsustainable energy path to a sustainable path of innovation, renewable

energy and peace. The good news is that the technology required to make this transition is already available. From an author with over thirty years' experience campaigning for and setting up renewable energy projects around the world, this book is unique for its interdisciplinary approach-interweaving technology, economics, environmental science, philosophy, history, spirituality and politics, asserting that to understand the crisis and find a sustainable solution requires a holistic perspective. Readers will understand the vast renewable resource we have at our disposal in the form of solar, wind, water, heat and biogas, and the technologies used to harness this

power. There are also the emerging prospects of solar hydrogen fuel cells, biofuels and geothermal. The true economic advantages of a shift to a renewables-based economy (and how we can get there) are also laid out clearly. There's much to learn from examples around the world while we devise local and appropriate solutions. Written for a crossover readership of students, educators, professionals, academics, activists and policymakers, both nationally and internationally, this is a comprehensive but readable and practical book that will inspire readers to wake others up to our renewable solutions.

Energy and Climate in the Urban Built

Environment Springer  
Nature

The climate of our planet is changing at a rate unprecedented in recent human history. The energy absorbed from the sun exceeds what is returned to space. The planet as a whole is gaining energy. The heat content of the ocean is increasing; the surface and atmosphere are warming; mid-latitude glaciers are melting; sea level is rising. The Arctic Ocean is losing its ice cover. None of these assertions are based on theory but on hard scientific fact. Given the science-heavy nature of climate change, debates and discussions have not played as big a role in the public sphere as they should, and instead are relegated

to often misinformed political discussions and inaccessible scientific conferences. Michael B. McElroy, an eminent Harvard scholar of environmental studies, combines both his research chops and pedagogical expertise to present a book that will appeal to the lay reader but still be grounded in scientific fact. In *Energy and Climate: Vision for the Future*, McElroy provides a broad and comprehensive introduction to the issue of energy and climate change intended to be accessible for the general reader. The book includes chapters on energy basics, a discussion of the contemporary energy systems of the US and China, and two

chapters that engage the debate regarding climate change. The perspective is global but with a specific focus on the US and China recognizing the critical role these countries must play in addressing the challenge of global climate change. The book concludes with a discussion of initiatives now underway to at least reduce the rate of increase of greenhouse gas emissions, together with a vision for a low carbon energy future that could in principle minimize the long-term impact of energy systems on global climate.

*Vision for the Future*  
Springer

*Agile Energy Systems: Global Distributed On-Site and Central Grid Power*, Second Edition,

offers new solutions to the structure of electricity provision made possible by new energy technologies. The book begins by showing how five precipitating forces led to the deregulation debacle in California, including major technological changes and commercialization, regulatory needs mismatched to societal adjustments, inadequate and flawed economic models, a lack of vision, goals, and planning that lead to energy failures, and questionable finance and lack of economic development. The second half of the book examines the civic market paradigm for new economic models and how to plan for complexity using California as an example of how the

problem of centralized power systems can be seen in the worst drought that California has ever seen. Offers new approaches to energy systems, providing the tools and plans to achieve these objectives Presents specific and actionable public policy and program tools Illustrates how lessons learned from California can be used to create an agile energy system for any country  
*Energy and Climate Wars* Energy and ClimateVision for the Future  
 A cautionary but optimistic book about the world's changing climate and the fate of humanity, from Christiana Figueres and Tom Rivett-Carnac-- who led negotiations for the United Nations during the historic



Paris Agreement of 2015. The authors outline two possible scenarios for our planet. In one, they describe what life on Earth will be like by 2050 if we fail to meet the Paris Agreement's climate targets. In the other, they lay out what it will be like to live in a regenerative world that has net-zero emissions. They argue for confronting the climate crisis head-on, with determination and optimism. *The Future We Choose* presents our options and tells us what governments, corporations, and each of us can, and must, do to fend off disaster.

*New Vision 2050*

Harper Collins

#1 NEW YORK TIMES  
BEST SELLER • In this  
urgent, authoritative  
book, Bill Gates sets  
out a wide-ranging,

practical—and  
accessible—plan for  
how the world can get  
to zero greenhouse gas  
emissions in time to  
avoid a climate  
catastrophe. Bill Gates  
has spent a decade  
investigating the  
causes and effects of  
climate change. With  
the help of experts in  
the fields of physics,  
chemistry, biology,  
engineering, political  
science, and finance,  
he has focused on  
what must be done in  
order to stop the  
planet's slide to certain  
environmental  
disaster. In this book,  
he not only explains  
why we need to work  
toward net-zero  
emissions of  
greenhouse gases, but  
also details what we  
need to do to achieve  
this profoundly  
important goal. He  
gives us a clear-eyed

description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable

in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

[The Future We Choose](#)  
 The Stationery Office Meeting UK energy and climate Needs : The role of carbon capture and storage, first report of session 2005-06, Vol. 2: Oral and written Evidence  
*The Renewable Revolution* North Atlantic Books  
 ... which reports on the actions taken by energy-intensive industries to improve greenhouse gas emissions intensity of their operations from 2002 to 2006. The report indicates that the power and energy-

intensive industrial sectors improved their combined emissions intensity by 9.4 percent over this four year period, and in 2006, actual greenhouse gas emissions for these sectors fell a combined 1.4 percent.

**Insights from Scenario Analysis Increasing the Evidence Base** Oxford University Press

Both the number and percentage of people living in urban areas is growing rapidly. Up to half of the world's population is expected to be living in a city by the end of the century and there are over 170 cities in the world with populations over a million. Cities have a huge impact on the local climate and require vast quantities of energy to keep them

functioning. The urban environment in turn has a big impact on the performance and needs of buildings. The size, scale and mechanism of these interactions is poorly understood and strategies to mitigate them are rarely implemented. This is the first comprehensive book to address these questions. It arises out of a programme of work (POLISTUDIES) carried out for the Save programme of the European Commission. Chapters describe not only the main problems encountered such as the heat island and canyon effects, but also a range of design solutions that can be adopted both to improve the energy performance and

indoor air quality of individual buildings and to look at aspects of urban design that can reduce these climatic effects. The book concludes with some examples of innovative urban bioclimatic buildings. The project was co-ordinated by Professor Mat Santamouris from the University of Athens who is also the editor of the book. Other contributions are from the University of Thessaloniki, Greece, ENTPE, Lyons, France and the University of Stuttgart, Germany.

**The Role of Carbon Capture and Storage; First Report of Session 2005-06**

Springer  
A sustainable European energy system, mitigating climate change and solving a number of other key

environmental problems, will require massive reliance on renewable energy sources combined with a sharp increase in energy productivity. Considering that most of the technologies necessary for such a development are already available, today's most important questions are: How can these technologies be integrated into the European energy system? What are the costs and benefits of such a strategy? What are the major bottlenecks and obstacles to such a development? What measures are necessary to support this development? In the book a "sustainable scenario" and a "fair-market scenario" are developed as a means to demonstrate that

concepts for a sustainable future European energy supply are feasible. [A Shared US-EU Vision for Energy and Climate Change](#) Rowman & Littlefield

The near-unanimous consensus among climate scientists is that the massive burning of gas, oil, and coal is having cataclysmic impacts on our atmosphere and climate. These climate and environmental impacts are particularly magnified and debilitating for low-income communities and communities of color. Energy democracy tenders a response and joins the environmental and climate movement with broader movements for social and economic change in this country and

around the world. Energy Democracy brings together racial, cultural, and generational perspectives to show what an alternative, democratized energy future can look like. The book will inspire others to take up the struggle to build the energy democracy movement.

*How Diplomacy, Technology, and Policy Can Unlock a Clean Energy Future* Springer Science & Business Media

Global warming is changing the world as we know it. Climate change can have catastrophic impacts in numerous cities across the world. It is time for us to react - quickly and effectively. The European Community (EC) has been leading the fight against

climate change, making it one of its top priorities. We have introduced the most ambitious targets of their kind, known as the “20/20/20 by 2020” initiative within the “Climate Action and Renewable Energy Package.” As a result, European Member States have taken on a commitment to curb their CO emissions by at least 20% by 2020. 2 These targets are indeed commendable; however, they are only the start if we are to avoid the consequences of global warming. Whilst top level coordination from the European Institutions and Member State governments is vital, the role of mitigating and adapting to climate change at local level must not be

forgotten. In fact, here cities, regions and their citizens play a significant a role. It is therefore vital they become directly involved in the climate change challenge. The European Commission therefore launched in 2008 a new initiative, the Covenant of Mayors, which brings together a network of European mayors in a voluntary effort to go beyond the European Union’s already ambitious targets. Half of our greenhouse gas emissions (GHGs) are created in and by cities.

### **Energy Democracy**

Routledge

This is such a timely book. Combining extraordinary historical insight with the sharpest analysis of where we are now, Walt Patterson carves

out the most applied and practical of 'road maps' as to where we need to go if we are to deliver a genuinely sustainable electricity system for the future. As we go into a period of considerable turbulence, primarily because of the impacts of climate change, *Keeping The Lights On* will undoubtedly be seen as a very well informed Guidebook. JONATHON PORRITT CBE, CHAIR, UK SUSTAINABLE DEVELOPMENT COMMISSION A very important and timely book. Walt Patterson persuasively challenges traditional assumptions about how we think of energy and electricity, and presents an exciting vision of an innovative and sustainable future. NICK MABEY, CHIEF

EXECUTIVE, E3G (THIRD GENERATION ENVIRONMENTALISM), FORMER SENIOR ADVISER IN THE UK PRIME MINISTERS STRATEGY UNIT Walt has got this exactly right. It should be compulsive reading, if not compulsory reading, for all politicians and other players that determine or have a role to play in energy policy and, more importantly, in tackling climate change. Knowing what we know now, you would not implement such a wasteful and polluting electricity system as centralized power generation. As Walt has indicated, we do have to overcome the grid mindset of those who should know better. ALLAN JONES MBE, CHIEF EXECUTIVE OFFICER, LONDON

CLIMATE CHANGE AGENCY What can I say? Clearly thought out, simply written, and straight to the heart of the major issues in energy today. I cant think of anyone else who could bring together the technology, the economics, and the basic human relationship with energy that Walt has here. This is really great stuff. RONAN PALMER, CHIEF ECONOMIST, UK ENVIRONMENT AGENCY Fashions come and fashions go in the energy world. Security of supply, climate change and market liberalization have all vied for our attention. Its good to have one voice thats stayed constant over thirty years of turbulence and

change. Keeping The Lights On distils Walt Pattersons thinking over the last three decades. As ever, he provokes us to re-examine our own thinking about energy policy. Essential reading as we face up to new challenges. PROFESSOR JIM SKEA OBE, RESEARCH DIRECTOR, UK ENERGY RESEARCH CENTRE 'Even more important now than when first released.' Energy News In Keeping The Lights On, Walt Patterson starts from a simple premise: that we are making a mess of energy, and this is endangering the planet. Using accessible, everyday language Patterson describes how we could do much better, outlining a different way to think about



energy, what we want from it and how we get it. Drawing on over 35 years of work from one of the leading voices in the field, *Keeping The Lights On* explains how we could go about improving energy security and services while reducing costs and vulnerability, globally and rapidly. The book discusses the timely and heated debates surrounding energy and power, and emphasizes that electricity is about infrastructure; we have to stop treating it as a commodity. The result is a comprehensive introduction to the most important issues, providing the reader with innovative and expert ideas and solutions. Published with Royal Institute of International Affairs.

**Energy, Landscape,**

### **Climate, and Race in the US South**

Springer

This book breaks new ground in the studies of green transition. It frames the ongoing transformation in terms of a "battle of modernities" with the emerging vision of ecomodernity as the final destination. It also offers a systematic exploration of the potential for extensive transformation of carbon-intensive sectors - with a focus on energy and transport - towards a low or post-carbon economy. The book does so in a comparative perspective, by pointing to a diversity of techno-economic and institutional solutions in the mature Western economies, and in the rapidly

growing East and developing South. The contributors highlight a broad spectrum of available alternatives as well as illuminate conflicting interests involved. They also demonstrate how solutions to the climate challenge require parallel technological and governance innovation. The book advocates a new, overarching vision and agenda of ecomodernity – based on a synergistic paradigm-shift in industry, politics and culture – to trigger and sustain the ecological innovation necessary to tip development in a green direction. This vision cannot be monolithic; rather, it should reflect the diverse interests and conditions of the global population. This book is

aimed at researchers and postgraduate students of energy, transport, environmental and climate policies, as well as development, environment, innovation and sustainability.

### **Discourses on Sustainability** BoD –

Books on Demand  
Coal fuels about 50 percent of US electricity production and provides a quarter of the country's total energy. China and India's ferocious economic growth is based almost entirely on coal-generated electricity. Coal currently looks like a solution to many of our fast-growing energy problems. However, while coal advocates are urging full steam ahead, increasing reliance on the dirtiest

of all fossil fuels has crucial implications for the global climate, energy policy, the world economy, and geopolitics. Drawbacks to a coal-based energy strategy include:

Scarcity - new studies suggest that the peak of world coal production may actually be less than two decades away.

Cost - the quality of produced coal is declining, while the expense of transport is rising, leading to spiraling costs and

increasing shortages. Climate impacts - our ability to deal with the historic challenge of climate change will hinge on reducing our coal consumption in future years. Blackout goes to the heart of the tough energy questions that will dominate every sphere of public policy throughout the first half of this century, and is a must-read for planners, educators, and anyone concerned about energy consumption, peak oil and climate change.

Related with Energy And Climate Vision For The Future:

- Park After Dark Guide : [click here](#)