

The Moral Case For Fossil Fuels

Climate justice requires sharing the burdens and benefits of climate change and its resolution equitably and fairly. It brings together justice between generations and justice within generations. In particular it requires that attempts to address justice between generations through various interventions designed to curb greenhouse emissions today do not end up creating injustice in our time by hurting the currently poor and vulnerable. The United Nations Sustainable Development Goals (SDGs) summit in September 2015, and the Conference of Parties (COP) to the Framework Convention on Climate Change in Paris in December 2015, brought climate change and its development impact centre stage in global discussions. In the run up to Paris, Mary Robinson, former President of Ireland and UN Secretary General's Special Envoy for Climate Change, instituted the Climate Justice Dialogue "to mobilize political will and creative thinking to shape an ambitious and just international climate agreement in 2015". The editors of this volume, an economist and a philosopher, served on the High Level Advisory Committee of the Climate Justice Dialogue. They noted the overlap and mutual enforcement between the economic and philosophical discourses on climate justice. But they also noted the great need for these strands to come

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together to support the public and policy discourse. Climate Justice: Integrating Economics and Philosophy is the result. Bringing together contributions from economists and philosophers, Climate Justice illustrates the different approaches, how they overlap and interact, and what they have already learned from each other and might still have to learn.

Now revised and updated--from the New York Times bestselling author, a contrarian cost-benefit analysis that will make you question everything you thought you knew about fossil fuels. For decades we've been told that using fossil fuels is a self-destructive addiction that will destroy our planet. Yet at the same time, life has been getting better and better by every measure of human well-being, from access to clean water to climate safety. How can this be? In this timely and necessary book, energy expert Alex Epstein argues that we've only heard one side of the story. Today's climate activists and environmental pundits focus solely on the side effects of fossil fuels but completely ignore their unique ability to provide cheap, reliable energy for a world of seven billion people. Drawing on original insights and cutting-edge research, Epstein shows that most of what we've been told about fossil fuels is a myth. For instance... Myth: Fossil fuels are making the climate unlivable. Truth: Fossil fuels haven't taken a naturally safe climate and made it dangerous; they've taken a

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naturally dangerous climate and made it safer than ever. Myth: Solar and wind can replace fossil fuels. Truth: Sun and wind are unreliable and always need backup from a reliable source - almost always fossil fuels. Myth: Fossil fuels are hurting the developing world. Truth: Fossil fuels are the key to improving the quality of life for billions of people in the developing world--including their ability to adapt to a changing climate. Now fully updated with the latest data and addressing recent controversies from "peak oil demand" to the Green New Deal, *The Moral Case for Fossil Fuels* is sure to challenge your assumptions.

Explains why the environmental crisis should lead to an abandonment of "free market" ideologies and current political systems, arguing that a massive reduction of greenhouse emissions may offer a best chance for correcting problems.

Everyone knows that fossil fuels won't last forever. Something needs to change at some point, regardless of whether the issue is climate change or because we need a practical replacement for petroleum as cheap supplies run out. But while headlines suggest that a green-energy paradise is around the corner, not many are aware of the immense technical challenges that stand in its way. To turn our backs on fossil fuels, a staggering amount of work will be required to refit a global energy sector that has grown systematically for over

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a century. News of the latest green advancements can make it seem like plug-and-play technology, and simply a matter of switching from one source to another. In reality, the challenge is far greater, and infinitely more complicated. To make matters worse, environmentalists and fossil-fuel defenders wage continuous but fruitless war, and the growing gap makes it impossible to have any sort of constructive dialogue. Each camp becomes more locked in their position with every exchange, and the most revolutionary ideas never see the light of day. Instead of building, time and money are wasted sparring. Sparing no sacred cows, Terry Etam cuts through the media rhetoric, government propaganda, and widespread ignorance of the energy sector to get to the heart of what needs to change—and what needs to stay the same—if the challenges of moving away from fossil fuels are to be met, while maintaining the quality of life we have come to expect and rely on.

Could everything we know about fossil fuels be wrong? For decades, environmentalists have told us that using fossil fuels is a self-destructive addiction that will destroy our planet. Yet at the same time, by every measure of human well-being, from life expectancy to clean water to climate safety, life has been getting better and better. How can this be? The explanation, energy expert Alex Epstein argues in *The Moral Case for Fossil Fuels*, is that we usually

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hear only one side of the story. We're taught to think only of the negatives of fossil fuels, their risks and side effects, but not their positives—their unique ability to provide cheap, reliable energy for a world of seven billion people. And the moral significance of cheap, reliable energy, Epstein argues, is woefully underrated. Energy is our ability to improve every single aspect of life, whether economic or environmental. If we look at the big picture of fossil fuels compared with the alternatives, the overall impact of using fossil fuels is to make the world a far better place. We are morally obligated to use more fossil fuels for the sake of our economy and our environment. Drawing on original insights and cutting-edge research, Epstein argues that most of what we hear about fossil fuels is a myth. For instance . . .

Myth: Fossil fuels are dirty. Truth: The environmental benefits of using fossil fuels far outweigh the risks. Fossil fuels don't take a naturally clean environment and make it dirty; they take a naturally dirty environment and make it clean. They don't take a naturally safe climate and make it dangerous; they take a naturally dangerous climate and make it ever safer. Myth: Fossil fuels are unsustainable, so we should strive to use "renewable" solar and wind. Truth: The sun and wind are intermittent, unreliable fuels that always need backup from a reliable source of energy—usually fossil fuels. There are huge amounts of fossil fuels left, and we have plenty of

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time to find something cheaper. Myth: Fossil fuels are hurting the developing world. Truth: Fossil fuels are the key to improving the quality of life for billions of people in the developing world. If we withhold them, access to clean water plummets, critical medical machines like incubators become impossible to operate, and life expectancy drops significantly. Calls to “get off fossil fuels” are calls to degrade the lives of innocent people who merely want the same opportunities we enjoy in the West. Taking everything into account, including the facts about climate change, Epstein argues that “fossil fuels are easy to misunderstand and demonize, but they are absolutely good to use. And they absolutely need to be championed. . . . Mankind’s use of fossil fuels is supremely virtuous—because human life is the standard of value and because using fossil fuels transforms our environment to make it wonderful for human life.”

#1 bestselling author and acclaimed venture capitalist John Doerr reveals a sweeping action plan to conquer humanity’s greatest challenge: climate change. In 2006, John Doerr was moved by Al Gore’s *An Inconvenient Truth* and a challenge from his teenage daughter: “Dad, your generation created this problem. You better fix it.” Since then, Doerr has searched for solutions to this existential problem—as an investor, an advocate, and a philanthropist. Fifteen years later, despite breakthroughs in

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batteries, electric vehicles, plant-based proteins, and solar and wind power, global warming continues to get worse. Its impact is all around us: droughts, floods, wildfires, the melting of the polar ice caps. Our world is squarely in a climate crisis and on the brink of a climate disaster. Yet despite our state of emergency, climate change has yet to be tackled with the urgency and ambition it demands. More than ever, we need a clear course of action. What if the goal-setting techniques that powered the rise of today's most innovative organizations were brought to bear on humanity's greatest challenge? Fueled by a powerful tool called Objectives and Key Results (OKRs), *SPEED & SCALE* offers an unprecedented global plan to cut greenhouse gas emissions before it's too late. Used by Google, Bono's ONE foundation, and thousands of startups the world over, OKRs have scaled ideas into achievements that changed the world. With clear-eyed realism and an engineer's precision, Doerr identifies the measurable OKRs we need to reduce emissions across the board and to arrive by 2050 at net zero—the point where we are no longer adding to the heat-trapping carbon in the atmosphere. By turns pragmatic and inspiring, *SPEED & SCALE* intersperses Doerr's wide-ranging analysis with firsthand accounts from Jeff Bezos, Christiana Figueres, Al Gore, Mary Barra, Bill Gates, and other intrepid policy leaders, entrepreneurs, scientists, and

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activists. A launchpad for those who are ready to act now, this book is geared to leaders in every walk of life. With a definitive action plan, the latest science, and a rising climate movement on our side, we can still reach net zero before it is too late. But as Doerr reminds us, there is no more time to waste.

The world has witnessed extraordinary economic growth, poverty reduction and increased life expectancy and population since the end of WWII, but it has occurred at the expense of undermining life support systems on Earth and subjecting future generations to the real risk of destabilising the planet. This timely book exposes and explores this colossal environmental cost and the dangerous position the world is now in. *Standing up for a Sustainable World* is written by and about key individuals who have not only understood the threats to our planet, but also become witness to them and confronted them.

A provocative call for delegitimizing fossil fuels rather than accommodating them, accompanied by case studies from Ecuador to Appalachia and from Germany to Norway.

Most people in the world today think democracy and gender equality are good, and that violence and wealth inequality are bad. But most people who lived during the 10,000 years before the nineteenth century thought just the opposite. Drawing on archaeology, anthropology, biology, and history, Ian Morris explains why.

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Fundamental long-term changes in values, Morris argues, are driven by the most basic force of all: energy. Humans have found three main ways to get the energy they need—from foraging, farming, and fossil fuels. Each energy source sets strict limits on what kinds of societies can succeed, and each kind of society rewards specific values. But if our fossil-fuel world favors democratic, open societies, the ongoing revolution in energy capture means that our most cherished values are very likely to turn out not to be useful any more. *Foragers, Farmers, and Fossil Fuels* offers a compelling new argument about the evolution of human values, one that has far-reaching implications for how we understand the past—and for what might happen next. Originating as the Tanner Lectures delivered at Princeton University, the book includes challenging responses by classicist Richard Seaford, historian of China Jonathan Spence, philosopher Christine Korsgaard, and novelist Margaret Atwood.

In this new book, *In Pursuit of Wealth: The Moral Case for Finance*, Yaron Brook and Don Watkins dispel the prevailing negative myths about finance and clearly lay out the industry's virtues within a moral framework. This ambitious book shows readers how we can reframe societal mores and end the vilification of financiers. An urgent plan to confront climate change, transform the American economy, and create a green post-fossil fuel culture. A new vision for America's future is quickly gaining momentum. Facing a global emergency, a younger generation is spearheading a national conversation around a Green New Deal and setting the

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agenda for a bold political movement with the potential to revolutionize society. Millennials, the largest voting bloc in the country, are now leading on the issue of climate change. While the Green New Deal has become a lightning rod in the political sphere, there is a parallel movement emerging within the business community that will shake the very foundation of the global economy in coming years. Key sectors of the economy are fast-decoupling from fossil fuels in favor of ever cheaper solar and wind energies and the new business opportunities and employment that accompany them. New studies are sounding the alarm that trillions of dollars in stranded fossil fuel assets could create a carbon bubble likely to burst by 2028, causing the collapse of the fossil fuel civilization. The marketplace is speaking, and governments will need to adapt if they are to survive and prosper. In *The Green New Deal*, New York Times bestselling author and renowned economic theorist Jeremy Rifkin delivers the political narrative and economic plan for the Green New Deal that we need at this critical moment in history. The concurrence of a stranded fossil fuel assets bubble and a green political vision opens up the possibility of a massive shift to a post-carbon ecological era, in time to prevent a temperature rise that will tip us over the edge into runaway climate change. With twenty-five years of experience implementing Green New Deal-style transitions for both the European Union and the People's Republic of China, Rifkin offers his vision for how to transform the global economy and save life on Earth.

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We are in the midst of an enormous global energy transition happening before our eyes. Alternative energy forms including solar, wind, water, and bio-fuels are challenging the established energy sources that have fuelled the industrial era for the past century. As we look to this century's energy future an examination of the past is important to understand how these choices will be made. What political, economic, and ethical lessons can be learned from how coal, oil, and natural gas became the power of the 20th century? Are those lessons instrumental in determining future decisions about emerging alternative energy choices? The opportunities and the risks involved in making, or not making these choices are enormous. Through case studies and examples of past and present development of energy sources, the story is told of the global energy industry. In its telling Energy, Economics, and Ethics wrestles with many of the difficult questions at the heart of the emerging global energy transition

With a specific focus on the United States and the United Kingdom, Carbon Inequality studies the role of the richest people in contributing to climate change via their luxury consumption and their investments. In an innovative contribution, it attempts to quantify personal responsibility for shareholdings in large fossil fuel companies. This book explores the implications of the richest people's historic responsibility for global warming, the impacts of which affect them less than most others in global society. Kenner analyses how the richest people running large oil and gas companies have successfully used their political influence to lobby the US

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and UK government. This assessment of their growing political power is particularly pertinent at a time of increasing inequality and growing public awareness of the impact of climate change. The book also highlights the crucial role of the richest in blocking the low-carbon transition in the US and the UK, exploring how this could be countered to ensure fossil fuels are fully replaced by renewable energy. This book will be of great relevance to scholars and policy makers with an interest in inequality, climate change and sustainability transitions.

The Burning Question reveals climate change to be the most fascinating scientific, political and social puzzle in history. It shows that carbon emissions are still accelerating upwards, following an exponential curve that goes back centuries. One reason is that saving energy is like squeezing a balloon: reductions in one place lead to increases elsewhere. Another reason is that clean energy sources don't in themselves slow the rate of fossil fuel extraction. Tackling global warming will mean persuading the world to abandon oil, coal and gas reserves worth many trillions of dollars — at least until we have the means to put carbon back in the ground. The burning question is whether that can be done. What mix of politics, psychology, economics and technology might be required? Are the energy companies massively overvalued, and how will carbon-cuts affect the global economy? Will we wake up to the threat in time? And who can do what to make it all happen?

Property will cost us the earth The science on climate change has been clear for a very long time now. Yet despite decades of appeals, mass street protests,

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petition campaigns, and peaceful demonstrations, we are still facing a booming fossil fuel industry, rising seas, rising emission levels, and a rising temperature. With the stakes so high, why haven't we moved beyond peaceful protest? In this lyrical manifesto, noted climate scholar (and saboteur of SUV tires and coal mines) Andreas Malm makes an impassioned call for the climate movement to escalate its tactics in the face of ecological collapse. We need, he argues, to force fossil fuel extraction to stop--with our actions, with our bodies, and by defusing and destroying its tools. We need, in short, to start blowing up some oil pipelines. Offering a counter-history of how mass popular change has occurred, from the democratic revolutions overthrowing dictators to the movement against apartheid and for women's suffrage, Malm argues that the strategic acceptance of property destruction and violence has been the only route for revolutionary change. In a braided narrative that moves from the forests of Germany and the streets of London to the deserts of Iraq, Malm offers us an incisive discussion of the politics and ethics of pacifism and violence, democracy and social change, strategy and tactics, and a movement compelled by both the heart and the mind. Here is how we fight in a world on fire.

NATIONAL BESTSELLER • Provocative and illuminating essays from women at the forefront of the climate movement who are harnessing truth, courage, and solutions to lead humanity forward. "A powerful read that fills one with, dare I say . . . hope?"—The New York Times **NAMED ONE OF THE BEST BOOKS OF THE YEAR BY SMITHSONIAN MAGAZINE** There is a

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renaissance blooming in the climate movement: leadership that is more characteristically feminine and more faithfully feminist, rooted in compassion, connection, creativity, and collaboration. While it's clear that women and girls are vital voices and agents of change for this planet, they are too often missing from the proverbial table. More than a problem of bias, it's a dynamic that sets us up for failure. To change everything, we need everyone. *All We Can Save* illuminates the expertise and insights of dozens of diverse women leading on climate in the United States—scientists, journalists, farmers, lawyers, teachers, activists, innovators, workers, and designers, across generations, geographies, and race—and aims to advance a more representative, nuanced, and solution-oriented public conversation on the climate crisis. These women offer a spectrum of ideas and insights for how we can rapidly, radically reshape society. Intermixing essays with poetry and art, this book is both a balm and a guide for knowing and holding what has been done to the world, while bolstering our resolve never to give up on one another or our collective future. We must summon truth, courage, and solutions to turn away from the brink and toward life-giving possibility. Curated by two climate leaders, the book is a collection and celebration of visionaries who are leading us on a path toward all we can save. With essays and poems by: Emily Atkin • Xiye Bastida • Ellen Bass • Colette Pichon Battle • Jainey K. Bavishi • Janine Benyus • adrienne maree brown • Régine Clément • Abigail Dillen • Camille T. Dungy • Rhiana Gunn-Wright • Joy Harjo • Katharine Hayhoe •

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This book is a reality check of where energy will come from in the future. Today, our economy is utterly dependent on fossil fuels. They are essential to transportation, manufacturing, farming, electricity, and to make fertilizers, cement, steel, roads, cars, and half a million other products. One day, sooner or later, fossil fuels will no longer be abundant and affordable. Inevitably, one day, global oil production will decline. That time may be nearer than we realize. Some experts predict oil shortages as soon as 2022 to 2030. What then are our options for replacing the fossil fuels that turn the great wheel of civilization? Surveying the arsenal of alternatives wind, solar, hydrogen, geothermal, nuclear, batteries, catenary systems, fusion, methane hydrates, power2gas, wave, tidal power and biomass this book examines whether they can replace or supplement fossil fuels. The book also looks at substitute energy sources from

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the standpoint of the energy users. Manufacturing, which uses half of fossil fuels, often requires very high heat, which in many cases electricity can't provide. Industry uses fossil fuels as a feedstock for countless products, and must find substitutes. And, as detailed in the author's previous book, "When Trucks Stop Running: Energy and the Future of Transportation," ships, locomotives, and heavy-duty trucks are fueled by diesel. What can replace diesel? Taking off the rose-colored glasses, author Alice Friedemann analyzes our options. What alternatives should we deploy right now? Which technologies merit further research and development? Which are mere wishful thinking that, upon careful scrutiny, dematerialize before our eyes? Fossil fuels have allowed billions of us to live like kings. Fueled by oil, coal, and natural gas, we changed the equation constraining the carrying capacity of our planet. As fossil fuels peak and then decline, will we fall back to Earth? Are there viable alternatives? This damning account examines the forces that have hijacked progress on climate change and offers a bold vision of what it will take, politically and economically, to face the existential threat of global warming head-on. In the past few years, it has become impossible (for most) to deny the effects of climate change and that the planet is warming, and to acknowledge that we must act. But a new kind of denialism is taking root in the halls of power, shaped by a quarter-century of neoliberal policies, that threatens to doom us before we've grasped the full extent of the crisis. As Kate Aronoff argues, since the 1980s and 1990s, economists, pro-business Democrats and Republicans in the US, and global organizations like the UN and the World Economic Forum have all made concessions to the oil and gas industry that they have no intention of reversing. What's more, they believe that climate change can be solved through the market, capitalism can be a force for good, and all of us, corporations included, are fighting the

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good fight together. These assumptions, Aronoff makes abundantly clear, will not save the planet. Drawing on years of reporting and rigorous economic analysis, Aronoff lays out a robust vision for what will, detailing how to constrain the fossil fuel industry; transform the economy into a sustainable, democratic one; mobilize political support; create effective public-private partnerships; enact climate reparations; and adapt to inevitable warming in a way that is just and equitable. Our future, *Overheated* makes clear, will require a radical reimagining of our politics and our economies, but if done right, it will save the world.

Finally, one book gives you what you need to win the climate argument with friends. No energy. No life. That's the real science. Ask Californians about uncoupling for their daily blackout so energy zealots can feel better. What if climate change is naturally occurring and cyclical? What if trillions of dollars will be spent to accomplish nothing? Forces in Washington are proposing massive new indebtedness for pet projects aimed at eliminating America's production of the life-giving energy that now runs it. Read this before agreeing to end America's energy industry in service of political correctness. Climate expert and renowned meteorologist Joe Bastardi shows in unimpeachable detail how the extreme weather events seen today are nothing new. He goes in-depth to document naturally occurring climate and weather events to stand up to those who would control and ultimately enslave Americans in a mountain of debt, taxation and limited freedoms. "Yes, the climate is changing, and, thanks to an ever-fluctuating level of activity on our Sun, the climate has always been changing," Joe reminds us. "As long as we have a living Sun, changes in climate will be felt on the planets that surround it." So, is this book important? You decide.

The first book to offer a proven, fast, inexpensive, and

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practical way to cut greenhouse gas emissions and prevent catastrophic climate change. As climate change quickly approaches a series of turning points that guarantee disastrous outcomes, a solution is hiding in plain sight. Several countries have already replaced fossil fuels with low-carbon energy sources, and done so rapidly, in one to two decades. By following their methods, we could decarbonize the global economy by midcentury, replacing fossil fuels even while world energy use continues to rise. But so far we have lacked the courage to really try. In this clear-sighted and compelling book, Joshua Goldstein and Staffan Qvist explain how clean energy quickly replaced fossil fuels in such places as Sweden, France, South Korea, and Ontario. Their people enjoyed prosperity and growing energy use in harmony with the natural environment. They didn't do this through personal sacrifice, nor through 100 percent renewables, but by using them in combination with an energy source the Swedes call *kraft*, hundreds of times safer and cleaner than coal. Clearly written and beautifully illustrated, yet footnoted with extensive technical references, Goldstein and Qvist's book will provide a new touchstone in discussions of climate change. It could spark a shift in world energy policy that, in the words of Steven Pinker's foreword, literally saves the world.

By 1979, we knew all that we know now about the science of climate change - what was happening, why it was happening, and how to stop it. Over the next ten years, we had the very real opportunity to stop it. Obviously, we failed. Nathaniel Rich's groundbreaking account of that failure - and how tantalizingly close we came to signing binding treaties that would have saved us all before the fossil fuels industry and politicians committed to anti-scientific denialism - is already a journalistic blockbuster, a full issue of the New York Times Magazine that has earned favorable comparisons to Rachel

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Carson's *Silent Spring* and John Hersey's *Hiroshima*. Rich has become an instant, in-demand expert and speaker. A major movie deal is already in place. It is the story, perhaps, that can shift the conversation. In the book *Losing Earth*, Rich is able to provide more of the context for what did - and didn't - happen in the 1980s and, more important, is able to carry the story fully into the present day and wrestle with what those past failures mean for us in 2019. It is not just an agonizing revelation of historical missed opportunities, but a clear-eyed and eloquent assessment of how we got to now, and what we can and must do before it's truly too late.

The New York Times bestselling author of *The Moral Case for Fossil Fuels* draws on the latest data and new insights to challenge everything you thought you knew about the future of energy. For over a decade, philosopher and energy expert Alex Epstein has predicted that any negative impacts of fossil fuel use on our climate will be outweighed by the unique benefits of fossil fuels to human flourishing--including their unrivaled ability to provide low-cost, reliable energy to billions of people around the world, especially the world's poorest people. And contrary to what we hear from media "experts" about today's "renewable revolution" and "climate emergency," reality has proven Epstein right:

- Fact: Fossil fuels are still the dominant source of energy around the world, and growing fast—while much-hyped renewables are causing skyrocketing electricity prices and increased blackouts.
- Fact: Fossil-fueled development has brought global poverty to an all-time low.
- Fact: While fossil fuels have contributed to the 1 degree of warming in the last 170 years, climate-related deaths are at all-time lows thanks to fossil-fueled development.

What does the future hold? In *Fossil Future*, Epstein, applying his distinctive "human flourishing framework" to the latest evidence, comes to the shocking conclusion that the benefits of fossil fuels will continue to far

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outweigh their side effects—including climate impacts—for generations to come. The path to global human flourishing, Epstein argues, is a combination of using more fossil fuels, getting better at “climate mastery,” and establishing “energy freedom” policies that allow nuclear and other truly promising alternatives to reach their full long-term potential. Today’s pervasive claims of imminent climate catastrophe and imminent renewable energy dominance, Epstein shows, are based on what he calls the “anti-impact framework”—a set of faulty methods, false assumptions, and anti-human values that have caused the media’s designated experts to make wildly wrong predictions about fossil fuels, climate, and renewables for the last fifty years. Deeply researched and wide-ranging, this book will cause you to rethink everything you thought you knew about the future of our energy use, our environment, and our climate.

Doris Lessing's contemporary gothic horror story—centered on the birth of a baby who seems less than human—probes society's unwillingness to recognize its own brutality. Harriet and David Lovatt, parents of four children, have created an idyll of domestic bliss in defiance of the social trends of late 1960s England. While around them crime and unrest surge, the Lovatts are certain that their old-fashioned contentment can protect them from the world outside—until the birth of their fifth baby. Gruesomely goblin-like in appearance, insatiably hungry, abnormally strong and violent, Ben has nothing innocent or infant-like about him. As he grows older and more terrifying, Harriet finds she cannot love him, David cannot bring himself to touch him, and their four older children are afraid of him. Understanding that he will never be accepted anywhere, Harriet and David are torn between their instincts as parents and their shocked reaction to this fierce and unlovable child whose existence shatters their belief in a benign world.

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Fossil fuel energy is the lifeblood of the modern world. Before the Industrial Revolution, humanity depended on burning wood and candle wax. But with the ability to harness the energy in oil and other fossil fuels, quality of life and capacity for progress increased exponentially. Thanks to incredible innovations in the energy industry, fossil fuels are as promising, safe, and clean an energy resource as has ever existed in history. Yet, highly politicized climate policies are pushing a grand-scale shift to unreliable, impractical, incredibly expensive, and far less efficient energy sources. Today, "fossil fuel" has become such a dirty word that even fossil fuel companies feel compelled to apologize for their products. In *Fueling Freedom*, energy experts Stephen Moore and Kathleen Hartnett White make an unapologetic case for fossil fuels, turning around progressives' protestations to prove that if fossil fuel energy is supplanted by "green" alternatives for political reasons, humanity will take a giant step backwards and the planet will be less safe, less clean, and less free.

"A sprawling story richly textured with original material, quirky details and amusing anecdotes . . ." —Wall Street Journal "It is a cause for celebration that Yergin has returned with his perspective on a very different landscape . . . [I]t is impossible to think of a better introduction to the essentials of energy in the 21st century. The Quest is . . . the definitive guide to how we got here." —The Financial Times This long-awaited successor to Daniel Yergin's Pulitzer Prize-winning *The Prize* provides an essential, overarching narrative of global energy, the principal engine of geopolitical and economic change A master storyteller as well as a leading energy expert, Daniel Yergin continues the

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riveting story begun in his Pulitzer Prize–winning book, *The Prize*. In *The Quest*, Yergin shows us how energy is an engine of global political and economic change and conflict, in a story that spans the energies on which our civilization has been built and the new energies that are competing to replace them. *The Quest* tells the inside stories, tackles the tough questions, and reveals surprising insights about coal, electricity, and natural gas. He explains how climate change became a great issue and leads readers through the rebirth of renewable energies, energy independence, and the return of the electric car. Epic in scope and never more timely, *The Quest* vividly reveals the decisions, technologies, and individuals that are shaping our future.

This volume presents the reader with a comprehensive account of the development of shale oil and gas reserves globally. This study provides a comparative perspective that enables readers to situate the unique US experience in a broader global context and appreciate the limitations of reproducing it elsewhere in the immediate future.

"This book's great service is that it challenges us to consider the ways in which our institutions and systems, and the assumptions, positions and divisions that undergird them, leave us ill prepared for the next crisis."—Robert Rubin, *The New York Times Book Review*

Deftly weaving finance, politics, business, and the global human experience into one tight narrative, a tour-de-force account of 2020, the year that changed everything--from the acclaimed author of *Crashed*. The shocks of 2020 have been great and small, disrupting the world economy, international relations and the daily

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lives of virtually everyone on the planet. Never before has the entire world economy contracted by 20 percent in a matter of weeks nor in the historic record of modern capitalism has there been a moment in which 95 percent of the world's economies were suffering all at the same time. Across the world hundreds of millions have lost their jobs. And over it all looms the specter of pandemic, and death. Adam Tooze, whose last book was universally lauded for guiding us coherently through the chaos of the 2008 crash, now brings his bravura analytical and narrative skills to a panoramic and synthetic overview of our current crisis. By focusing on finance and business, he sets the pandemic story in a frame that casts a sobering new light on how unprepared the world was to fight the crisis, and how deep the ruptures in our way of living and doing business are. The virus has attacked the economy with as much ferocity as it has our health, and there is no vaccine arriving to address that. Tooze's special gift is to show how social organization, political interests, and economic policy interact with devastating human consequences, from your local hospital to the World Bank. He moves fluidly from the impact of currency fluctuations to the decimation of institutions--such as health-care systems, schools, and social services--in the name of efficiency. He starkly analyzes what happened when the pandemic collided with domestic politics (China's party conferences; the American elections), what the unintended consequences of the vaccine race might be, and the role climate change played in the pandemic. Finally, he proves how no unilateral declaration of

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'independence" or isolation can extricate any modern country from the global web of travel, goods, services, and finance.

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 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

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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.

"Energy humanities is a field of scholarship that, like medical humanities and digital humanities before it, overcomes traditional boundaries between the disciplines and between academic and applied research. Like its predecessors, energy humanities highlights the essential contribution that the insights and methods of the human sciences can make to areas of study and analysis once thought best left to the natural sciences. This isn't a case of the humanities simply helping their cross-campus colleagues to learn the mechanics of communication so that they might better articulate their ideas. Rather, these fields of scholarship are ones that demonstrate how the scale and complexity of the issues being explored demand insights and approaches that transcend old school disciplinary boundaries. *Energy Humanities : A Reader* offers a carefully curated selection of the best and most influential work in energy humanities that has appeared over the past decade. To

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stay true to the diverse work that makes up this emergent field, selections range from anthropology and geography to philosophy, history, and cultural studies to recent energy-focused interventions in art and literature. The three readers all agree that this is an important, ground-breaking collection of work"--Provided by publisher.

The basic question underlying our energy policy debates is this: Should we be free to generate more and more energy using fossil fuels? Or should we restrict and progressively outlaw fossil fuels as "dirty energy"? I believe that if we look at the big picture, the facts are clear. If we want a healthy, livable environment, then we must be free to use fossil fuels. Why? Because for the foreseeable future, fossil fuels provide the key to a great environment: abundant, affordable, reliable energy. Did you know that most of the energy we use comes from coal, oil, and natural gas? How do workers collect these fossil fuels? And what effects do these fuels have on the environment? Read this book to find out all about coal, oil, and natural gas.

Climate change: watershed or endgame? In this compelling new book, Noam Chomsky, the world's leading public intellectual, and Robert Pollin, a renowned progressive economist, map out the catastrophic consequences of unchecked climate change—and present a realistic blueprint for change: the Green New Deal. Together, Chomsky and Pollin show how the forecasts for a hotter planet strain the imagination: vast stretches of the Earth will become uninhabitable, plagued by extreme weather, drought, rising seas, and

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crop failure. Arguing against the misplaced fear of economic disaster and unemployment arising from the transition to a green economy, they show how this bogus concern encourages climate denialism. Humanity must stop burning fossil fuels within the next thirty years and do so in a way that improves living standards and opportunities for working people. This is the goal of the Green New Deal and, as the authors make clear, it is entirely feasible. Climate change is an emergency that cannot be ignored. This book shows how it can be overcome both politically and economically.

Argues against the modern movement to de-industrialize, re-localize and reduce both consumption and development in order to preserve the planet and instead advocates for advancing innovations and future technologies to improve the world with smaller, faster solutions. 35,000 first printing.

How Big Oil can transform itself into Big Green through reparation and decarbonization to rectify the harm it has done through fossil fuels. In *From Big Oil to Big Green*, Marco Grasso examines the responsibility of the oil and gas industry for the climate crisis and develops a moral framework that lays out its duties of reparation and decarbonization to allay the harm it has done. By framing climate change as a moral issue and outlining the industry's obligation to tackle it, Grasso shows that Big Oil is a central, yet overlooked, agent of climate ethics and

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policy. Grasso argues that by indiscriminately flooding the global economy with fossil fuels—while convincing the public that halting climate change is a matter of consumer choice, that fossil fuels are synonymous with energy, and that a decarbonized world would take civilization back to the Stone Age—Big Oil is morally responsible for the climate crisis. He explains that it has managed to avoid being held financially accountable for past harm and that its duty of reparation has never been theoretically developed or justified. With this book, he fills those gaps. After making the moral case for climate reparations and their implementation, Grasso develops Big Oil's duty of decarbonization, which entails its transformation into Big Green by phasing out carbon emissions from its processes and, especially, its products.

A radically new understanding of and practical approach to climate change by noted environmentalist Paul Hawken, creator of the New York Times bestseller *Drawdown* *Regeneration* offers a visionary new approach to climate change, one that weaves justice, climate, biodiversity, equity, and human dignity into a seamless tapestry of action, policy, and transformation that can end the climate crisis in one generation. It is the first book to describe and define the burgeoning regeneration movement spreading rapidly throughout the world. *Regeneration* describes how an inclusive movement

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can engage the majority of humanity to save the world from the threat of global warming, with climate solutions that directly serve our children, the poor, and the excluded. This means we must address current human needs, not future existential threats, real as they are, with initiatives that include but go well beyond solar, electric vehicles, and tree planting to include such solutions as the fifteen-minute city, bioregions, azolla fern, food localization, fire ecology, decommodification, forests as farms, and the number one solution for the world: electrifying everything. Paul Hawken and the nonprofit Regeneration Organization are launching a series of initiatives to accompany the book, including a streaming video series, curriculum, podcasts, teaching videos, and climate action software. Regeneration is the inspiring and necessary guide to inform the rapidly spreading climate movement. A comprehensive account of how energy has shaped society throughout history, from pre-agricultural foraging societies through today's fossil fuel-driven civilization. "I wait for new Smil books the way some people wait for the next 'Star Wars' movie. In his latest book, *Energy and Civilization: A History*, he goes deep and broad to explain how innovations in humans' ability to turn energy into heat, light, and motion have been a driving force behind our cultural and economic progress over the past 10,000 years. —Bill Gates, *Gates Notes*, Best Books of the Year

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Energy is the only universal currency; it is necessary for getting anything done. The conversion of energy on Earth ranges from terra-forming forces of plate tectonics to cumulative erosive effects of raindrops. Life on Earth depends on the photosynthetic conversion of solar energy into plant biomass. Humans have come to rely on many more energy flows—ranging from fossil fuels to photovoltaic generation of electricity—for their civilized existence. In this monumental history, Vaclav Smil provides a comprehensive account of how energy has shaped society, from pre-agricultural foraging societies through today's fossil fuel-driven civilization. Humans are the only species that can systematically harness energies outside their bodies, using the power of their intellect and an enormous variety of artifacts—from the simplest tools to internal combustion engines and nuclear reactors. The epochal transition to fossil fuels affected everything: agriculture, industry, transportation, weapons, communication, economics, urbanization, quality of life, politics, and the environment. Smil describes humanity's energy eras in panoramic and interdisciplinary fashion, offering readers a magisterial overview. This book is an extensively updated and expanded version of Smil's *Energy in World History* (1994). Smil has incorporated an enormous amount of new material, reflecting the dramatic developments in energy studies over the

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last two decades and his own research over that time.

Get the summary from Alex Epstein's *The Moral Case for Fossil Fuels* #1 The conventional wisdom is that our use of fossil fuels is an addiction, a short-term, destructive habit that must be stopped. #2 The debate over our addiction to fossil fuels is usually over how dangerous the addiction is and how quickly we can get rid of it. #3 The author used to be against fossil fuels, but now realizes that they have made our lives better in every way, and that we need to keep using them.

The Moral Case for Fossil Fuels Penguin

Ever since the Industrial Revolution energy has been a key driver of world politics. From the oil crises of the 1970s to today's rapid expansion of renewable energy sources, every shift in global energy patterns has important repercussions for international relations. In this new book, Thijs Van de Graaf and Benjamin Sovacool uncover the intricate ways in which our energy systems have shaped global outcomes in four key areas of world politics: security, the economy, the environment and global justice. Moving beyond the narrow geopolitical focus that has dominated much of the discussion on global energy politics, they also deftly trace the connections between energy, environmental politics, and community activism. The authors argue that we are on the cusp of a global energy shift that promises to

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be no less transformative for the pursuit of wealth and power in world politics than the historical shifts from wood to coal and from coal to oil. This ongoing energy transformation will not only upend the global balance of power; it could also fundamentally transfer political authority away from the nation state, empowering citizens, regions and local communities. *Global Energy Politics* will be an essential resource for students of the social sciences grappling with the major energy issues of our times.

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