



COAL & EMPIRE

THE BIRTH OF ENERGY SECURITY
IN INDUSTRIAL AMERICA

PETER A. SHULMAN

Coal And Empire The Birth Of Energy Security In Industrial America

Per Högselius



Coal And Empire The Birth Of Energy Security In Industrial America:

Coal and Empire Peter A. Shulman, 2015-07-01 The fascinating history of how coal based energy became entangled with American security Since the early twentieth century Americans have associated oil with national security From World War I to American involvement in the Middle East this connection has seemed a self evident truth But as Peter A Shulman argues Americans had to learn to think about the geopolitics of energy in terms of security and they did so beginning in the nineteenth century the age of coal *Coal and Empire* insightfully weaves together pivotal moments in the history of science and technology by linking coal and steam to the realms of foreign relations navy logistics and American politics Long before oil coal allowed Americans to rethink the place of the United States in the world Shulman explores how the development of coal fired oceangoing steam power in the 1840s created new questions opportunities and problems for U S foreign relations and naval strategy The search for coal for example helped take Commodore Matthew Perry to Japan in the 1850s It facilitated Abraham Lincoln s pursuit of black colonization in 1860s Panama After the Civil War it led Americans to debate whether a need for coaling stations required the construction of a global empire Until 1898 however Americans preferred to answer the questions posed by coal with new technologies rather than new territories Afterward the establishment of America s string of island outposts created an entirely different demand for coal to secure the country s new colonial borders a process that paved the way for how Americans incorporated oil into their strategic thought By exploring how the security dimensions of energy were not intrinsically linked to a particular source of power but rather to political choices about America s role in the world Shulman ultimately suggests that contemporary global struggles over energy will never disappear even if oil is someday displaced by alternative sources of power

The Global Game of Coal Gulshan Dietl, 2024-12-19 Coal occupies a large share in the global energy basket This book explores the coal game within the context of shifting energy geopolitics the resource war and the debates over climate change and energy security Politics is a prime arena for game playing Collaboration competition confrontation and their combinations are ingredients in bilateral and multilateral dealings The book deciphers the interactions within the coal world by resorting to the time tested term global game Joe Manchin in the United States Vladimir Putin in Russia Scott Morrison in Australia and Gautam Adani in India have been accomplished players in the game of coal The book looks at the coal assets and policies of major coal exporters and importers like the United States Russia India Australia and China and provides insights into the fierce contestations involved both in local and global politics and commerce over coal climate and security The author discusses the role coal has played in the industrialisation of nations prescriptions to the problem of coal use and varied scenarios portraying its future The third volume in a trilogy on the use of fossil fuels this book on coal will be of great interest to students and researchers of energy studies international relations environment and climate change energy and geopolitics security and strategic studies It will also be useful to policymakers legislators and environmentalists

The Routledge Handbook of Science and

Empire Andrew Goss, 2021-07-05 The Routledge Handbook of Science and Empire introduces readers to important new research in the field of science and empire This compilation of inquiry into the inextricably intertwined history of science and empire reframes the field showing that one could not have grown without the other The volume expands the history of science through careful attention to connections exchanges and networks beyond the scientific institutions of Europe and the United States These 27 original essays by established scholars and new talent examine scientific and imperial disciplines networks of science scientific practice within empires and decolonised science The chapters cover a wide range of disciplines from anthropology and psychiatry to biology and geology There is global coverage with essays about China Southeast Asia the Pacific Australia and New Zealand India the Middle East Russia the Arctic and North and South America Specialised essays cover Jesuit science natural history collecting energy systems and science in UNESCO With authoritative chapters by leading scholars this is a guiding resource for all scholars of empire and science Free of jargon and with clearly written essays the handbook is a valuable path to further inquiry for any student of the history of science and empire

Energy in American History Jeffrey B. Webb, Christopher R. Fee, 2024-05-30 Contextualizes and analyzes the key energy transitions in U S history and the central importance of energy production and consumption on the American environment and in American culture and politics Focusing on the major energy transitions in U S history from the pre industrial era to the present day this two volume encyclopedia captures the major advancements events technologies and people synonymous with the production and consumption of energy in the United States Expert contributors show how for example the introduction of electricity and petroleum into ordinary American life facilitated periods of rapid social and political change as well as profound and ongoing impacts on the environment These developments have in many ways defined and accelerated the pace of modern life and led to vast improvements in living conditions for millions of people just as they have also brought new fears of resource exhaustion and fossil fuel induced climate change Today as America begins to move beyond the use of fossil fuels toward a greater reliance on renewables including wind and solar energy there is a pressing need to understand energy in America s past in order to better understand its energy future

The Palgrave Handbook of Security, Risk and Intelligence Robert Dover, Huw Dylan, Michael S. Goodman, 2017-07-05 This handbook provides a detailed analysis of threats and risk in the international system and of how governments and their intelligence services must adapt and function in order to manage the evolving security environment This environment now and for the foreseeable future is characterised by complexity The development of disruptive digital technologies the vulnerability of critical national infrastructure asymmetric threats such as terrorism the privatisation of national intelligence capabilities all have far reaching implications for security and risk management The leading academics and practitioners who have contributed to this handbook have all done so with the objective of cutting through the complexity and providing insight on the most pressing security intelligence and risk factors today They explore the changing nature of conflict and crises interaction of the global with the local the impact of

technological the proliferation of hostile ideologies and the challenge this poses to traditional models of intelligence and the impact of all these factors on governance and ethical frameworks The handbook is an invaluable resource for students and professionals concerned with contemporary security and how national intelligence must adapt to remain effective

Fueling Sovereignty Naosuke Mukoyama, 2024-03-21 Explores the impact of oil and other natural resources on the formation of sovereign states

Fueling Empire Karl Ittmann, 2025-05-26 Beginning in the late nineteenth century British companies used the resources of empire to create an imperial oil industry that controlled 20% of global oil reserves by 1939 and allowed for the movement of capital and labor between regions and companies The imperial oil complex encompassed colonies Burma and Trinidad and dependent states Iraq and Iraq In both the imperial state used its political and military power to support British oil interests The oil complex drew on the resources of empire but also bolstered it with profits and tax revenues while a global set of oil sites supplied the British military and civilian consumers British companies built an infrastructure of oil production that gave them quasi state power in oil regions while connecting these areas to global and imperial networks of communication and transportation Fueling Empire highlights the significance of Britain to the development of the global oil industry It demonstrates the ways in which the global histories of oil and empire are inextricably interlinked The imperial oil complex relied on a racially stratified hierarchy of labour where white supervisors managed indigenous and migrant workers The harsh conditions of work and low pay fuelled labour conflicts that resonated with emerging colonial nationalist movements that sought to limit the power of oil companies Despite robust private and state security operations the imperial oil complex faced greater insecurity before World War II While the imperial oil complex survived the war in the postwar era decolonization and Britain's financial weakness led to its decline

A Companion to U.S. Foreign Relations Christopher R. W. Dietrich, 2020-03-04 Covers the entire range of the history of U S foreign relations from the colonial period to the beginning of the 21st century A Companion to U S Foreign Relations is an authoritative guide to past and present scholarship on the history of American diplomacy and foreign relations from its seventeenth century origins to the modern day This two volume reference work presents a collection of historiographical essays by prominent scholars The essays explore three centuries of America's global interactions and the ways U S foreign policies have been analyzed and interpreted over time Scholars offer fresh perspectives on the history of U S foreign relations analyze the causes influences and consequences of major foreign policy decisions and address contemporary debates surrounding the practice of American power The Companion covers a wide variety of methodologies integrating political military economic social and cultural history to explore the ideas and events that shaped U S diplomacy and foreign relations and continue to influence national identity The essays discuss topics such as the links between U S foreign relations and the study of ideology race gender and religion Native American history expansion and imperialism industrialization and modernization domestic and international politics and the United States role in decolonization globalization and the Cold War

A comprehensive approach to understanding the history influences and drivers of U S foreign relation this indispensable resource Examines significant foreign policy events and their subsequent interpretations Places key figures and policies in their historical national and international contexts Provides background on recent and current debates in U S foreign policy Explores the historiography and primary sources for each topic Covers the development of diverse themes and methodologies in histories of U S foreign policy Offering scholars teachers and students unmatched chronological breadth and analytical depth A Companion to U S Foreign Relations Colonial Era to the Present is an important contribution to scholarship on the history of America s interactions with the world

A Field on Fire Mark D. Hersey, Ted Steinberg, 2019-01-29 A frank and engaging exploration of the burgeoning academic field of environmental history Inspired by the pioneering work of preeminent environmental historian Donald Worster the contributors to *A Field on Fire: The Future of Environmental History* reflect on the past and future of this discipline Featuring wide ranging essays by leading environmental historians from the United States Europe and China the collection challenges scholars to rethink some of their orthodoxies inviting them to approach familiar stories from new angles to integrate new methodologies and to think creatively about the questions this field is well positioned to answer Worster s groundbreaking research serves as the organizational framework for the collection Editors Mark D Hersey and Ted Steinberg have arranged the book into three sections corresponding to the primary concerns of Worster s influential scholarship the problem of natural limits the transnational nature of environmental issues and the question of method Under the heading *Facing Limits* five essays explore the inherent tensions between democracy technology capitalism and the environment The *Crossing Borders* section underscores the ways in which environmental history moves easily across national and disciplinary boundaries Finally *Doing Environmental History* invokes Worster s work as an essayist by offering self conscious reflections about the practice and purpose of environmental history The essays aim to provoke a discussion on the future of the field pointing to untapped and underdeveloped avenues ripe for further exploration A forward thinker like Worster presents bold challenges to a new generation of environmental historians on everything from capitalism and the Anthropocene to war and wilderness This engaging volume includes a very special afterword by one of Worster s oldest friends the eminent intellectual historian Daniel Rodgers who has known Worster for close to fifty years

India in the American Imaginary, 1780s-1880s Anupama Arora, Rajender Kaur, 2017-11-09 This book seeks to frame the the idea of India in the American imaginary within a transnational lens that is attentive to global flows of goods people and ideas within the circuits of imperial and maritime economies in nineteenth century America roughly 1780s 1880s This diverse and interdisciplinary volume with essays by upcoming as well as established scholars aims to add to an understanding of the fast changing terrain of economic political and cultural life in the US as it emerged from being a British colony to having imperial ambitions of its own on the global stage The essays trace variously the evolution of the changing self image of a nation embodying a surprisingly cosmopolitan sensibility open to different cultural values and customs in the

late eighteenth and early nineteenth century to one that slowly adopted rigid and discriminatory racial and cultural attitudes spawned by the widespread missionary activities of the ABCFM and the fierce economic pulls and pushes of American mercantilism by the end of the nineteenth century The different uses of India become a way of refining an American national identity

Energy and Civilization Vaclav Smil, 2018-11-13 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 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 last two decades and his own research over that time

The Cambridge History of America and the World Kristin Hoganson, Jay Sexton, 2022-03-03 The second volume of *The Cambridge History of America and the World* examines how the United States rose to great power status in the nineteenth century and how the rest of the world has shaped the United States Mixing top down and bottom up perspectives insider and outsider views cultural social political military environmental legal technological and other veins of analysis it places the United States Indigenous nations and their peoples in the context of a rapidly integrating world Specific topics addressed in the volume include nation and empire building inter Indigenous relations settler colonialism slavery and statecraft the Mexican American War global integration the antislavery international the global dimensions of the Civil War overseas empire building state formation international law global capitalism border crossing movement politics technology health the environment immigration policy missionary endeavors mobility tourism expatriation cultural production colonial intimacies borderlands the liberal North Atlantic US African relations Islamic world encounters the US island empire the greater

Caribbean world and transimperial entanglements **Fossil-Fuel Faulkner** Jay Watson, 2022-10-06 Fossil Fuel Faulkner is the first book length study of a single writer in the emerging field of the energy humanities As we try to imagine our way beyond a deeply problematic fossil energy regime that depletes and degrades the planet and sharpens the gap between Global North and Global South and move toward as more just and sustainable energy future there is much to learn from how previous generations imagined the modern transition into a hydrocarbon fueled world from the solar and muscle powered order that preceded it and from how they imagined the consequences of that transition including the new cultural forms it elicited and the new social problems it created Jay Watson turns to the life and writings of William Faulkner creator of one of the richest imaginative landscapes in American literary history for new insights into the deep reaching connections linking the extraction production and use of energy resources in his native US South to its histories of slavery and Jim Crow its ecologies of disruption and despoilation the logic of its cultural practices and the nuances of literary form Surveying the author s personal and imaginative engagements with coal and oil with modern automobility and the road narrative and with the profligate energies of the sun and the human animal Fossil Fuel Faulkner explores nearly all of Faulkner s novels and over a dozen of his short stories and reveals the author to be one of petromodernity s keenest chroniclers and critics **Oil Beach** Christina Dunbar-Hester, 2023-01-17 Can the stories of bananas whales sea birds and otters teach us to reconsider the seaport as a place of ecological violence tied to oil capital and trade San Pedro Bay which contains the contiguous Ports of Los Angeles and Long Beach is a significant site for petroleum shipping and refining as well as one of the largest container shipping ports in the world some forty percent of containerized imports to the United States pass through this so called America s Port It is also ecologically rich Built atop a land and waterscape of vital importance to wildlife the heavily industrialized Los Angeles Harbor contains estuarial wetlands the LA River mouth and a marine ecology where colder and warmer Pacific Ocean waters meet In this compelling interdisciplinary investigation award winning author Christina Dunbar Hester explores the complex relationships among commerce empire environment and the nonhuman life forms of San Pedro Bay over the last fifty years a period coinciding with the era of modern environmental regulation in the United States The LA port complex is not simply a local site Dunbar Hester argues but a node in a network that enables the continued expansion of capitalism propelling trade as it drives the extraction of natural resources labor violations pollution and other harms Focusing specifically on cetaceans bananas sea birds and otters whose lives are intertwined with the vitality of the port complex itself Oil Beach reveals how logistics infrastructure threatens ecologies as it circulates goods and capital and helps us to consider a future where the accumulation of life and the accumulation of capital are not in violent tension *Energy, Resource Extraction and Society* Anna Szolucha, 2018-09-03 Energy is central to the fabric of society This book revisits the classic notions of energy impacts by examining the social effects of resource extraction and energy projects which are often overlooked Energy impacts are often reduced to the narrow configurations of greenhouse gas emissions chemical spills or

land use changes However this neglects the fact that the way we produce distribute and consume energy shapes society political institutions and culture The authors trace the impacts of contemporary energy and resource extraction developments and explain their significance for the shaping of powerful social imaginaries and a reconfiguration of political and democratic systems They analyse not only the complex histories and landscapes of industrial mining and energy development including oil coal wind power gas fracking and electrification but also their significance for contested energy and social futures Based on ethnographic and interdisciplinary research from around the world including case studies from Australia Germany Kenya the Netherlands Nicaragua Norway Poland Turkey UK and USA they document the effects on local communities and how these are often transformed into citizen engagement protest and resistance This sheds new light on the relationship between energy and power reflecting a wide array of pertinent impacts beyond the usual considerations of economic efficiency and energy security The volume is aimed at advanced students and researchers in anthropology sociology human geography science and technology studies environmental studies and sustainable development as well as professionals working in the field of impact assessments

The Cambridge Companion to Environmental Humanities

Jeffrey Cohen, Stephanie Foote, 2021-09-02 This Companion offers a comprehensive and accessible introduction to the environmental humanities an interdisciplinary movement that responds to a world reconfigured by climate change and its effects from environmental racism and global migration to resource impoverishment and the importance of the nonhuman world It addresses the twenty first century recognition of an environmental crisis its antecedents current forms and future trajectories as well as possible responses to it This books foregrounds scholarship from different periods fields and global locations but it is organized to give readers a working context for the foundational debates Each chapter examines a key topic or theme in Environmental Humanities shows why that topic emerged as a category of study explores the different approaches to the topics suggests future avenues of inquiry and considers the topic s global implications especially those that involve environmental justice issues

Energy and Geopolitics

Per Högselius, 2018-10-09 The idea that energy shapes and is shaped by geopolitics is firmly rooted in the popular imagination and not without reason Very few countries have the means to secure their energy needs through locally available supplies instead enduring dependencies upon other countries have developed Given energy s strategic significance supply systems for fuels and electricity are now seamlessly interwoven with foreign policy and global politics Energy and Geopolitics enables students to enhance their understanding and sharpen their analytical skills with respect to the complex relations between energy supply energy markets and international politics Per Högselius guides us through the complexities of world energy and international energy relations examining a wide spectrum of fossil fuels alongside nuclear and renewable energies Uniquely the book also shows how the geopolitics of energy is not merely a matter for the great powers and reveals how actors in the world s smaller nations are as active in their quest for power and control Encouraging students to apply a number of central concepts and theoretical ideas to different energy

sources within a multitude of geographical political and historical contexts this book will be a vital resource to students and scholars of geopolitics energy security and international environmental policy and politics

The American Climate Emergency Narrative Johan Höglund, 2024-07-19 The American Climate Emergency Narrative reveals how much of what has been called climate fiction casts ecological breakdown as an emergency for American capitalist modernity rather than for the planet The book traces the origins of this narrative back to the arrival of settler capitalism in America when the understanding of the planet and its people as extractable resources was established Since then this narrative has elided the violent history of the climate crisis while at the same time leveraging the military as a bulwark against the crises capitalism has caused the people it has uprooted even the ailing planet itself This is an open access book

Energy's History Daniela Russ, Thomas Turnbull, 2025-03-25 Energy history is an approach to understanding the past that takes changes in the human exploitation of Earth's energies as its object of inquiry This interdisciplinary field documents and analyzes how humans thought about harnessed stored and exploited stocks and flows of energy In recent decades in response to evidence of the effect of fossil fuel use in our climatic system and coinciding with an energy turn across the humanities a new urgency and purpose has been ascribed to such work Energy's History challenges abstract and universalizing conceptions of energy's history making capacities This collection contains twelve chapters that present analyze and contextualize a primary source The contributors focus on ideas events and statements that recorded and critiqued the distinct historical paths of energy thereby broadening the scope of where and what constitutes energy history As energy's world making has enmeshed ever more of the planet into a dangerous compact with fossil fuels energy histories must be revised within this new energy historical reality This volume both presents persuasive visions of energy driven development beyond the Western capitalist model and provides an expansive and critical account of the ways in which energy histories have shaped the past and impact the present

Ecologically Unequal Exchange R. Scott Frey, Paul K. Gellert, Harry F. Dahms, 2018-07-04 At a time of societal urgency surrounding ecological crises from depleted fisheries to mineral extraction and potential pathways towards environmental and ecological justice this book re-examines ecologically unequal exchange EUE from a historical and comparative perspective The theory of ecologically unequal exchange posits that core or northern consumption and capital accumulation is based on peripheral or southern environmental degradation and extraction In other words structures of social and environmental inequality between the Global North and Global South are founded in the extraction of materials from as well as displacement of waste to the South This volume represents a set of tightly interlinked papers with the aim to assess ecologically unequal exchange and to move it forward Chapters are organised into three main sections theoretical foundations and critical reflections on ecologically unequal exchange empirical research on mining deforestation fisheries and the like and strategies for responding to the adverse consequences associated with unequal ecological exchange Scholars as well as advanced undergraduate and graduate students will benefit from the spirited re-evaluation and extension

of ecologically unequal exchange theory research and praxis

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