# Recommended Reading on Energy

**John Kemp**  
Reuters

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(A) ENERGY SYSTEMS

(2) Fundamentals of Materials for Energy and Environmental Sustainability (Materials Research Society, 2012)
(3) Energy and Society: An Introduction (Schobert, 2014)
(5) Global Energy Politics (Van de Graaf and Sovacool, 2020)
(7) Handbook of Energy (2 vols) (Cleveland et al, 2013)
(8) Power Density: A Key to Understanding Energy Sources and Uses (Smil, 2015)
(9) Survey of World Energy Resources (World Energy Council, annual)
(10) Energy Poverty: Global Challenges and Local Solutions (Halff et al, 2014)
(11) The Irreversible Momentum of Clean Energy (Obama, 2017)
(12) Sustainable Energy Without the Hot Air (McKay, 2008)
(13) Energy Flow Charts for the United States (Lawrence Livermore National Laboratory, annual)
(15) BBC Briefing: Energy (BBC, 2019)

(B) ENERGY TRANSITIONS

(16) Energy Transitions: History, Requirements, Prospects (Smil, 2010)
(18) Energy in World History (Smil, 1994)
(19) Energy and Society (Cottrell 1955 and 2009)
(20) Energy: A Human History (Rhodes, 2018)
(21) How Long Will It Take? Conceptualizing the Temporal Dynamics of Energy Transitions (Sovacool, 2016)
(22) Heat, Power and Light: Revolutions in Energy Services (Fouquet, 2008)
(23) Power to the People: Energy in Europe over the Last Five Centuries (Kander et al, 2013)
(24) Market Penetration Rates of New Energy Technologies (Lund, 2006)
(25) The Slow Search for Solutions: Lessons from Historical Energy Transitions by Sector and Service (Fouquet, 2010)
(26) Past and Prospective Energy Transitions: Insights from History (Fouquet and Pearson, 2012)
(27) A Short History of the Steam Engine (Dickinson, 1939)
(28) From Steam to Diesel: Managerial Customs and Organizational Capabilities in the Twentieth Century American Locomotive Industry (Churella, 1998)
(29) Lectures on the Industrial Revolution in England (Toynbee, 1884)
(30) British Historical Statistics (Mitchell, 2011)
(31) Fuel Wood used in the United States (USDA/Reynolds and Pierson, 1942)
(33) Energy Consumption in England and Wales, 1560-2000 (Warde, 2007)
(34) Energy and English Industrial Revolution (Wrigley, 2010)

(C) ENERGY STATISTICS

(35) BP Statistical Review of World Energy (BP, annual)
(36) ENI World Oil and Gas Review (ENI, annual)
(37) Energy Production and Changing Energy Sources (Our World in Data, website)
(38) Historical Statistics of the United States (Census Bureau, 1975)
(39) National energy accounts – historical statistics (archive from energyhistory.org)

(D) GENERAL OIL HISTORY

(40) Crude Volatility: The History and the Future of Boom-Bust Oil Prices (McNally, 2017)
(42) The History of Royal Dutch Shell (4 vols) (Howarth et al, 2007)
(43) The History of the British Petroleum Company (3 vols) (Ferrier, 1982) (Bamberg, 2000 and 2009)
(44) The History of the Standard Oil Company (2 vols) (Tarbell, 1904)
(45) Standard Oil Co of New Jersey v United States (U.S. Supreme Court, 1911)
(47) Multinational Oil Corporations and U.S. Foreign Policy (U.S. Senate Committee on Foreign Relations, Subcommittee on Multinational Corporations, 1975)
(48) The Control of Oil (Blair, 1976)
(49) Oil: The Biggest Business (Tugendhat, 1968)
(50) Adventure in Oil: The Story of British Petroleum (Longhurst, 1959)
(51) Bitumen – A History (Bilkaldi/Aramco World, 1984)
(52) Where the World Gets its Oil (Smith/National Geographic, 1920)
(56) Study in Power: John D Rockefeller, Industrialist and Philanthropist (Vols 1 and 2) (Nevins, 1953)
(57) The Schlumberger Adventure: Two Brothers who Pioneered in Petroleum Technology (Schlumberger, 1982)
(58) Schlumberger, the History of a Technique (Allaud and Martin, 1976)
(59) International Oil Companies: The Death of the Old Business Model (Stevens, 2016)
(E) OPEC HISTORY

(60) OPEC and Other Commodity Cartels: A Comparison (Alhajji and Huettner, 2000)
(61) OPEC: The Inside Story (Terzian, 1985)
(62) A History of OPEC (Rouhani, 1971)
(63) OPEC: 25 Years of Prices and Politics (Skeet, 1988)
(65) Discounts in Disguise: Price Shaving by Members of OPEC (Bureau of Intelligence and Research, 1977)
(66) Access to Oil: The United States’ Relationships with Saudi Arabia and Iran (U.S. Senate Committee on Energy and Natural Resources, 1977)
(67) Critical Factors Affecting Saudi Arabia’s Oil Decisions (GAO, 1978)
(68) Shah Defends Increasing Oil Prices (Shah Mohamed Reza Pahlavi, 1980)
(69) Decadence and Downfall: the Shah of Iran’s Ultimate Party (BBC/Storyville, 2016)
(70) How the Oil Glut is Changing Business (Hershey/NYT, 1981)
(71) An Oil Surplus – For Now (Yergin/NYT, 1985)
(73) The Cartel in Retreat (Adelman, 1993)
(74) The Oil Price Crisis of 1998 (Mabro, 1998)
(75) A Financial Analysis of Middle East Oil Concessions 1901-65 (Mikdashi, 1966)
(76) On Oil Price Concepts (Mabro, 1984)
(77) OPEC in a Shale World (Ramady and Mahdi, 2015)
(78) Russia and OPEC: Uneasy Partners (OIES/Henderson and Fattouh, 2016)
(80) OPEC Announcements and their Effect on Crude Oil Prices (Lin and Tamvakis, 2010)

(F) MIDDLE EAST POLITICS

(81) Desert Kingdom: How Oil and Water Forged Modern Saudi Arabia (Jones, 2010)
(82) Khomeini: Life of the Ayatollah (Moin, 1999)
(83) The Oasis of Al-Hasa (Vidal/Aramco, 1955)
(84) Sa’udi Arabia (Philby, 1955)
(85) Arabia of the Wahhabis (Philby, 1977)
(86) Arabian Oil Ventures (Philby, 1964)
(87) Arabian Jubilee (Philby, 1953)
(88) Saudi Arabia (Twitchell, 1958)
(89) Two Kings in Arabia: Sir Reader Bullard’s Letters from Jeddah (Bullard, 1999)
Letters from Tehran: A British Ambassador in World War II Persia (Bullard, 1991)
The Camels Must Go: An Autobiography (Bullard, 1961)
Britain and the Middle East from Earliest Times to 1950 (Bullard, 1951)
Lords of the Desert: The Battle Between the United States and Great Britain for Supremacy in the Modern Middle East (Barr, 2018)
Buraimi: The Struggle for Power, Influence and Oil in Arabia (Morton, 2013)
Aramco Reports on Al-Hasa and Oman 1950-1955 (4 vols) (Mulligan et al/Aramco Research Department, 1990)
A King and a Concession (Lunde/Aramco World, 1984)
A Kingdom and a Company (Mulligan/Aramco World, 1984)
King Faisal of Saudi Arabia: Personality, Faith and Times (Vassiliev, 2012)
Blood and Oil: A Prince’s Memoir of Iran from the Shah to the Ayatollah (Farmanfarmaian, 1997)
The Pirate Coast (Belgrave, 1966)
Yamani: The Inside Story (Robinson, 1988)
Saudi Inc.: The Arabian Kingdom’s Pursuit of Profit and Power (Wald, 2018)
Saudi Arabia: Background and U.S. Relations (CRS/Blanchard, 2015)
Saudi Arabia: Background and U.S. Relations (CRS/Blanchard, 2010)
Saudi Arabia: Background and U.S. Relations (CRS/Blanchard, 2009)
Will Saudi Arabia Acquire Nuclear Weapons? (NTI/Amlin, 2008)
The Politics of Oil and Revolution in Iran (Bakhash, 1982)
Can Rouhani Revitalize Iran’s Oil and Gas Industry? (Habibi, 2014)
Political, ethnic, religious and tribal maps of the Middle East (Gulf 2000/SIPA, website)
The Other Saudis: Shiism, Dissent and Sectarianism (Matthiesen, 2015)
Saudi Arabia Profile – Timeline (BBC, 2015)
Energy to the World: the Story of Saudi Aramco Volume 1 and Volume 2 (Saudi Aramco, 2011)
Princes, Brokers and Bureaucrats: Oil and the State in Saudi Arabia (Hertog, 2010)
The Siege of Mecca: The Forgotten Uprising in Islam’s Holiest Shrine and the Birth of Al Qaeda (Trofimov, 2007)
Saudi Arabia: The Making of a Financial Giant (Young, 1983)
Moving Saudi Arabia’s Economy Beyond Oil (McKinsey Global Institute, 2015)
SaudiVision2030 (Kingdom of Saudi Arabia, 2016)
A Note on the Red Line Agreement (Stivers/Diplomatic History, 1983)

(G) ENERGY AND INTERNATIONAL RELATIONS
(123) Oil Fuel Supply for H. M. Navy (Churchill, 1913)
(124) The Royal Navy’s Fuel Supplies 1898-1939: The Transition from Coal to Oil (Brown, 2003)
(126) Royal Commission on Fuel and Engines: Final Report (National Archives, 1914)
(127) Petroleum as a Substitute for Coal in Steamships (Colburn’s United Service Magazine, 1865)
(128) The Coming Deluge of Russian Petroleum and its Bearing on British Trade (Marvin, 1887)
(129) The Coming Oil Age: Petroleum – Past, Present and Future (Marvin, 1889)
(130) Committee of Imperial Defence Subcommittee on Oil from Coal (HMSO Cmd 5665 XII, 1937/38)
(132) The Oil Import Question: A Report on the Relationship of Oil Imports to the National Security (Cabinet Task Force on Oil Import Control, 1970)
(133) The Real Oil Problem (Adelman, 2004)
(134) The Oil Crisis: This Time the Wolf is Here (Akins, 1973)
(136) The Soviet Collapse: Grain and Oil (Gaidar, 2007)
(137) Collapse of an Empire: Lessons for Modern Russia (Gaidar, 2008)
(138) Navigating the U.S. oil export debate (Bordoff and Houser, 2015)
(141) National Energy Program Fact Sheet on the President’s Program (Carter, 1977)
(143) National Energy Plan: Address to the Nation (Carter, 1977)
(144) Oil Fields as Military Objectives: A Feasibility Study (Congressional Research Service, 1975)
(145) The Top-Secret Cold War Plan to Keep Soviet Hands Off Middle Eastern Oil (Everly/Politico, 2016)

(H) ENERGY AND PUBLIC OPINION

(147) Energy Shortage Regarded as Serious by Most Americans (Harris Survey, 1973)
(148) Roll-Back and Freeze on Prices of Food and Gasoline Favored (Harris Survey, 1973)
(149) Americans Willing to Make Sacrifices to Conserve Energy (Harris Survey, 1973)
(150) Americans Less Certain About Seriousness of Energy Shortage (Harris Survey, 1974)
(151) Oil and Politics: Blaming the Petropowers (Harris Survey, 1975)
(152) Business Gets Inflation Blame (Harris Survey, 1975)
(153) Sources of Energy for the Future (Harris Survey, 1976)
(154) Energy Crisis Has Many Causes (Harris Survey, 1977)
(155) Anti-Arab Sentiment in Boycott, Oil Prices (Harris Survey, 1977)
(156) Foreign Oil Considered Main Reason for U.S. Energy Problem (Harris Survey, 1979)
(157) Majority of Americans Favor President Carter’s Energy Proposals (Harris Survey, 1979)

(I) OIL AND THE ECONOMY

(158) Dynamic Demand Analyses for Gasoline and Residential Electricity (Houthakker et al, 1974)
(159) Economics of Worldwide Stagflation (Bruno and Sachs, 1985)
(160) Systematic Monetary Policy and the Effects of Oil Price Shocks (Bernanke et al, 1997)
(161) Oil Prices and the Global Economy (IMF, 2016)
(162) Lower Oil Prices and the U.S. Economy: Is This Time Different? (Baumeister and Kilian, 2016)
(164) Review of Income and Price Elasticities in the Demand for Road Traffic (Hanly et al/UK Department for Transport, 2002)
(165) A Meta-Analysis of the Price Elasticity of Gasoline Demand (Brons et al, 2006)
(166) Saudi Arabia’s Exchange Rate Policy: It’s Impact on Historical Economic Performance (Saudi Arabian Monetary Agency, 2016)

(J) ENERGY CRISIS OF THE 1970s

(167) Outlook for energy in the United States (Emerson, Bulletin of the Atomic Scientists, 1971)
(168) Energy policy-making (White, Bulletin of the Atomic Scientists, 1971)
(169) Toward a policy of energy conservation (Freeman, Bulletin of the Atomic Scientists, 1971)
(170) The Economy, Energy and the Environment (Joint Economic Committee of the US Congress, 1970)
(172) Gas Crisis has Complicated Origins (Rattner/NYT, 1977)

(K) ENERGY DATA AND ANALYSIS

(177) Actions Needed to Improve Federal Efforts in Collecting, Analyzing, and Reporting Energy Data (GAO. 1974)
(178) An Examination of Fuel and Energy Information Sources (Mitre Corporation, 1971)
(179) Energy Data in the United States (Department of Interior, 1973)
(180) Energy Data Requirements of the Federal Government (U.S. Congress, House Permanent Select Committee on Small Business, 1974)
(181) There Are No Missing Barrels: Our Oil Markets Are Tightening (Simmons, 1999)
(183) JODI Oil Manual 2nd Edition (Joint Organisations Data Initiative, undated)

(L) OIL EXPLORATION AND PRODUCTION

(184) Petroleum Geology, Exploration, Drilling and Production (Hyne, 2001)
(187) Trek of the Oil Finders: A History of Exploration for Petroleum (Owen, 1975)
(188) History of Oil Well Drilling (Brantly, 1971)
(189) World Atlas of Oil and Gas Basins (Guoyu, 2011)
(190) Hydrocarbon Exploration and Production (Jahn, 2008)
(191) Guidelines for Application of the Petroleum Resources Management System (Society of Petroleum Engineers, 2011)
(192) Elements of Petroleum Geology (Selley, 1998)
(193) Unconventional Petroleum Geology (Zou, 2013)
(194) Sedimentary Rocks and Sedimentary Basins (Toro, undated slides)
(195) Sedimentary Environments: Processes, Facies and Stratigraphy (Reading, 1996)
(196) Evaluation of Drilling Rig Performance Characteristics (Foulston, 2009)
(197) Famous Gushers of the World (San Joaquin Valley Geology, undated)
(198) The Future of Reservoir Management (Middle East and Asia Reservoir Review) (Schlumberger, 2004)
(200) Coal and Petroleum Resources of the Appalachian Basin (USGS, 2015)
(201) Reserve Growth of Oil and Gas Fields: Investigations and Applications (USGS, 2013)
(202) Reserve Growth Effects on Estimates of Oil and Gas Resources (USGS, 2000)
(203) Plugging and Abandonment of Oil and Gas Wells (National Petroleum Council, 2011)

(M) SHALE HISTORY

(204) Hydraulic Fracturing: History of an Enduring Technology (Montgomery and Smith, 2010)
(205) Shooters: A “Fracking” History (American Oil and Gas Historical Society, undated)
(206) Geologically Oriented Overview of Horizontal Drilling in the United States (Schmoker/USGS, 1992)
(207) Fracking Patents: The Emergence of Patents as Information Containment Tools in Shale Drilling (Cahoy et al, 2012)
(208) Drilling sideways: a review of horizontal well technology and its domestic application (EIA, 1993)
(209) Horizontal highlights: Middle East Well Evaluation Review (Schlumberger, 1996)
(210) Horizontal drilling: a technological marvel ignored (Forbes, Jan 2013)
Nuclear Energy and the Fossil Fuels (King, 1956)
Peaking of World Oil Production: Impacts, Mitigation and Risk Management (Hirsch, 2005)
Twilight in the Desert: The Coming Saudi Oil Shock and the World Economy (Simmons, 2005)
The Myth of the Oil Crisis (Mills, 2008)
Unconventional Resources – Are They In Our Future? (Ahlbrandt/USGS, 1992)
The Oracle of Oil: A Maverick Geologist’s Quest for a Sustainable Future (Inman, 2016)

(P) MIDDLE EAST OIL FIELDS

Oil in the Middle East, its Discovery and Development (Longrigg, 1968)
Saudi Arabian Oil Company: Global Medium Term Note Programme Base Prospectus (London Stock Exchange/RNS, 2019)
The Ghawar Oil Field, Saudi Arabia (Croft, undated)
Seven Wells of Dammam (Aramco, 1963)
Geology of the Arabian Peninsula (USGS, 1966)
Paleo-Geology of the Middle East (undated)
Power for the Future (Modern Oil Exploration in Iran) (Schlumberger, 2001)
Buried Treasure (Oil Has Played Its Part in the Middle East for Thousands of Years) (Schlumberger, 2001)
A Portrait in Oils (The Earliest Oil Concession in Saudi Arabia) (Schlumberger, 2001)
Sedimentary Basins and Petroleum Geology of the Middle East (Alshahran and Nairn, 1997)
Naft Safid Oil Well Fire Newsreel (1951)
Naft Safid Oil Well Fire Footage (Pathe, 1951)
Economic Geology of Iran: Mineral Deposits and Natural Resources (Ghorbani, 2013)
The Future of Saudi Arabian Oil Production (Subcommittee on International Economic Policy, Committee on Foreign Relations, U.S. Senate, 1979)
Fifty-Year Crude Oil Supply Scenarios: Saudi Aramco’s Perspective (Baqi and Saleri/Aramco-CSIS, 2004)

(Q) OIL AND GAS LEASES

North Dakota Oil and Gas Leasing Considerations (Cooperative Extension Service, 2006)
Oil and Gas Leasing in Montana (Fitzgerald, 2012)
Importance of Mineral Rights and Royalty Interests for Rural Residents and Landowners (Fitzgerald, 2014)
International Petroleum Fiscal Systems and Production Sharing Contracts (Johnston, 1994)
(272) Fundamentals of Oil and Gas Accounting (Wright and Gallun, 2008)

(R) OIL REFINING

(274) Basics of Refining and Optimization (Valero, investor presentation 2017)
(275) The Refinery of the Future (Speight, 2010)
(276) Chemistry of Fossil Fuels and Biofuels (Schober, 2013)
(280) Petroleum Refining: Technology and Economics (Gary et al, 2007)
(281) Oil 101 (Downey, 2009)
(282) Introduction to Petroleum Refining and the Production of Ultra Low Sulfur Gasoline and Diesel Fuel (MathPro, 2011)
(283) The Role and Future of the UK Refining Sector in the Supply of Petroleum Products (Purvin & Gertz, 2013)
(284) Oil Refineries and Bulk Storage of Crude Oil and Petroleum Products (UK Department of Environment, 1995)
(286) A Brief History of Linear and Mixed-integer Programming Computation (Bixby, 2012)
(287) Everything You Need to Know About Marine Fuels (Chevron, 2012)
(288) Water Phase Separation in Oxygenated Gasoline (EPA, 1996)
(291) Diesel Fuels Technical Review (Chevron, 2007)
(292) Delayed coking fundamentals (Ellis and Paul/Great Lakes Carbon Corporation, 1998)

(S) OIL TANKERS AND SHIPPING

(293) Thirty-Five Years of Oil Transport: The Evolution of the Tank Steamer (Henry, 1907)
(294) Sea Shell: The Story of Shell’s British Tanker Fleets 1892-1992 (Howarth, 1992)
(295) Supership (Mostert, 1974)
(296) Tankers (Merchant Ships of the World) (Sawyer and Mitchell, 1967)
(298) Record-Low Water Levels on Rhine River are Disrupting Fuel Shipments (EIA, 2015)

(T) TANK FARMS AND STORAGE
World Oil Inventories (Exxon Public Affairs Department, 1981)
Petroleum Storage and Transportation: Inventories and Storage (NPC, 1989)
Aboveground Storage Tanks (Myers, 1997)
Louisiana Offshore Oil Port Presentation (LOOP, 2014)
Louisiana Offshore Oil Port Written Statement (LOOP, 2014)
Planning and Scheduling for Petroleum Refineries using Mathematical Programming (Joly et al, 2002)
Optimal Scheduling of Refinery Crude Oil Operations (Mouret, 2010)
Short-Term Scheduling for Refinery Process (Wu et al, 2005)
Crude Oil Scheduling in Refinery Operations (Reddy, 2003)
The Strategic Petroleum Reserve: Policy Challenges in Managing the Nation’s Strategic Oil Stock (Shages, 2014)
Depleting the Reserve: Cumulative Impact of SPR and Other Considerations (U.S. Senate Committee on Energy and Natural Resources, 2015)

(U) PETROLEUM ECONOMICS

Essentials of Petroleum: A Key to Oil Economics (Frankel, 1946 and 1969)
Oil: Stabilization or Conservation? (Watkins, 1937)
Few Transportation Fuels Surpass the Energy Densities of Gasoline and Diesel (EIA, 2013)
Modelling the Oil Producers: Capturing Industry Knowledge in a Behavioural Simulation Model (Morecroft and Heijden, 1990)

(V) OIL IN WARTIME

The Shell that Hit Germany Hardest (Shell in the First World War) (Smith/Shell, 1920)
A History of the Petroleum Administration for War 1941-1945 (Frey, 1946)
Fightin’ Oil (Ickes, 1943)
Big Inch and Little Big Inch (Texas State Historical Association, 2010)
Oil History: Tank Cars: World War II (Pees, undated)
Oil for Victory (Look, 1946)
Railway Traffic Expansion and Use of Resources in World War II (Hultgren, 1944)
England’s Oil Boom (Chicago Tribune, 1944)
Roughnecks of Sherwood Forest (American Oil and Gas Historical Society, undated)
Oil: A Study of War-Time Policy and Administration (UK Official History of the Second World War) (Payton-Smith, 1971)

(W) OIL AND GAS IN THE UNITED STATES

16 September 2020
(327) Oil, Gas and Government (Bradley, 2 vols, 1996)
(329) Hot Oil: The Problem of Petroleum (Pettengill, 1936)
(330) Petroleum Conservation (Buckley, American Institute of Mining and Metallurgical Engineers, 1951)
(331) Petroleum Conservation in the United States: An Economic Analysis (McDonald, 1971)
(332) Economic Aspects of Oil Conservation Regulation (Lovejoy and Homan, 1967)
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