## Starting with Synfuels: Benefits, Costs and Programme Design Assessments

Harlan, J.

Note: This is not the actual book cover

# **Starting With Synfuels Benefits Costs And Program Design Assessments**

Paul R. Portney

#### **Starting With Synfuels Benefits Costs And Program Design Assessments:**

**Starting with Synfuels** James K. Harlan, 1982 Energy Abstracts for Policy Analysis, 1986 Starting with Synfuels James K. Harlan, 1982 Belief-based Energy Technology Development in the United States Chi-Jen Yang, 2009 This book is a comparative study of two energy policies that illustrates how and why technical fixes in energy policy failed in the United States In the post WWII era the U S government forcefully and consistently endorsed the development of civilian nuclear power It adopted policies to establish the competitiveness of civilian nuclear power far beyond what would have occurred under free market conditions Even though synthetic fuel was characterized by a similar level of economic potential and technical feasibility the policy approach toward synthetic fuel was sporadic and indeterminate The contrast between the unfaltering faith in nuclear power and the indeterminate attitude toward synthetic fuel raises many important questions The answers to these questions reveal provocative yet compelling insights into the policy making process The author argues that these diverging paths of development can be explained by exploring the dominant government ideology of the time or ideology of the state as the sociology literature describes it The forceful support for nuclear power was a result of a government preoccupied with fighting the Cold War The U S national security planners intentionally idealized and deified nuclear power to serve its Cold War psychological strategy These psychological maneuverings attached important symbolic meaning to nuclear power This symbolism in turn explains the society wide enthusiasm The fabricated myth of the Atomic Age became a self fulfilling prophecy and ushered in a bandwagon market On the other hand a confused indeterminate and relatively powerless welfare state stood behind synthetic fuel The different ideologies of the state explain the government s different attitudes toward nuclear and synfuel endeavors The overarching discovery is a mode of belief based decision making in long term energy planning This discovery goes against the prevalent assumption of rational choice in social sciences The author argues that rational choice assumption is inapplicable because of the extreme long term nature of energy planning It is not usually possible to predict the sociopolitical and economic conditions in the distant future Rational decisions require supporting information which often includes impossible long term foresights One cannot rationally choose between one unknown and another unknown Pivotal decisions in long term energy planning must inevitably be belief based and beliefs are subject to political manipulation and distortions by social mechanisms Understanding these peculiar but pervasive characteristics of energy business bears important lessons for today s decision making about energy technologies and the stakes if anything are even higher than before Energy policy communities historians of the Cold War American history and technology and sociologists would find this book an invaluable resource Energy Research Abstracts ,1992

<u>Producing Liquid Fuels from Coal James T. Bartis, Frank Camm, David S. Ortiz, 2008-12-04 Large U S coal reserves and viable technology make promising a domestic industry producing liquid fuels from coal Weighing benefits costs and environmental issues a productive and robust U S strategy is to promote a limited amount of early commercial experience in</u>

coal to liquids production and to prepare the foundation for managing associated greenhouse gas emissions both in a way that reduces uncertainties and builds future capabilities *Fischer-Tropsch Synthesis, Catalysts, and Catalysis* Burtron H. Davis, Mario L. Occelli, 2016-04-06 This book is based on a symposium held during the 248th American Chemical Society meeting that focused on use of the Fischer Tropsch process in producing synthetic fuels Its contents reflect the four dominant subjects of the meeting catalyst preparation and activation catalyst activity and reaction mechanisms catalyst characterization and related reactions and topics concerning commercializing the Fischer Tropsch process It covers recent developments related to renewable resources and green energy and provides a glimpse of the commercial potential of the Fischer Tropsch process in synthetic fuel production **Natural Resources and the Environment** Paul R. Portney, 1984

Greener Fischer-Tropsch Processes Peter M. Maitlis, Arno de Klerk, 2013-03-25 Greener Fischer Tropsch Processes How can we use our carbon based resources in the most responsible manner How can we most efficiently transform natural gas coal or biomass into diesel jet fuel or gasoline to drive our machines The Big Questions today are energy related and the Fischer Tropsch process provides industrially tested solutions This book offers a comprehensive and up to date overview of the Fischer Tropsch process from the basic science and engineering to commercial issues It covers industrial economic environmental and fundamental aspects with a specific focus on green concepts such as sustainability process improvement waste reduction and environmental care The result is a practical reference for researchers engineers and financial analysts working in the energy sector who are interested in carbon conversion fuel processing or synthetic fuel technologies It is also an ideal introductory book on the Fischer Tropsch process for graduate courses in chemistry and chemical engineering

Energy Abstracts for Policy Analysis, 1983 An Assessment of the Potential for Coal-derived Syncrudes in Canada K. Morgan Macrae, Canadian Energy Research Institute, 1988 Within the context of Canada's future energy demand and declining conventional crude oil production this report examines recent advances in coal liquids technology and assesses the potential role of coal derived synthetic fuels in the evolving energy technology mix The model used in this study allocates on an optimal basis all the relevant Canadian energy resources conventional and frontier crude oil natural gas bitumen and coal among the potentially available technologies and also over time The supply cost analysis production and on stream development scenarios presented for upgraders mined oil sands plants and coal liquids facilities are based on a complete re assessment of the potential costs of all of the major energy supply options measured against a re evaluation of the Institute's CREED model and a linear programming model developed by the Alberta Research Council A detailed evaluation undertaken by the MITRE Corp in the U S of recent advances in direct coal liquefaction together with a study published by the Electric Power Research Institute on coal oil co processing formed the basis of the state of the art coal liquids technology The Publishers' Trade List Annual ,1984 Journal of Economic Literature ,1983 Fossil Energy Update ,1978

Federal Program Evaluations ,1984 Contains an inventory of evaluation reports produced by and for selected Federal

agencies including GAO evaluation reports that relate to the programs of those agencies Synthetic Fuels Policy United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Fossil and Synthetic Fuels,1984

Uncertain Power Dorothy S. Zinberg,2013-10-22 Uncertain Power The Struggle for a National Energy Policy discusses several issues pertaining to the energy situation in the U S such as the public the government and the risks The opening chapter discusses a delicate balance among the public experts and government Chapter 2 tackles the failure of consensus on energy and Chapter 3 deals with energy policy and democratic theory The fourth chapter reviews the neglect of social risk assessment the fifth chapter discusses valuing of human life Chapter 6 tackles the media coverage of complex technological issues and Chapter 7 covers the governance of nuclear power The eighth chapter covers the national energy policy from state and local perspectives while the ninth chapter reviews selling saved energy considered as a new role for the utilities Chapter 10 discusses energy and security and Chapter 11 tackles history as a guide to the future The last chapter covers the political geology of the energy problems Readers who concern themselves regarding several factors that affect energy source supply and distribution along with its socio economic implication will find this book a great source of insight regarding the issue

<u>Scientific and Technical Aerospace Reports</u>,1983 <u>Energy: a Continuing Bibliography with Indexes</u>,1976 *Monthly Catalog of United States Government Publications*,

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