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Methanol, a convenient liquid fuel and raw material for synthetic hydrocarbons, offers an alternative to depleting sources of fossil fuels and can be produced, for example, by reacting H<sub>2</sub> with CO<sub>2</sub> from industrial effluents or the atmosphere—good news with regards to global-warming concerns.

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Besides petroleum oil and natural gas (and also coal), we have additional sources of “heavy” hydrocarbons, such as heavy-oil deposits in Venezuela, oil shales in various geological formations including the US Rocky Mountains, and vast tar sand deposits in the Canadian province Alberta. The relatively stable hydrates of methane, as found under the

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Baker Hughes moves beyond oil and gas with new partnership Houston Chronicle | 3h Baker Hughes has partnered with the world's largest fastener company to manufacture parts for industries outside of oil and gas as the oil-field services company buttresses itself against the pandemic fallout.

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The US shale industry, the main driver of global gas  
output growth over the recent years, is particularly  
vulnerable in the current crisis context – the IEA  
report World Energy Investment 2020 estimates that  
upstream spending on shale tight oil and gas is set to  
decline by 50% y-o-y in 2020. The sector's ability to  
rebound in a post-crisis environment will be pivotal to  
deliver the incremental gas production needed by the  
US market to replace its declining conventional  
production and ...

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The successful combination of hydraulic fracturing with horizontal drilling to squeeze oil and natural gas from shale has vaulted the United States to a global powerhouse, but the positive impacts...

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Views. 2474 Views. Baker Hughes Co said on Tuesday it would buy Compact Carbon Capture AS in a bid to expand its footprint beyond oil and gas oilfield services as it prepares for a transition to a low-carbon future. Facing pressure from shareholders worried about the climate impact of fossil fuel and a plunge in oil and gas prices due to the COVID-19 pandemic, energy companies are seeking to accelerate a portfolio shift towards greener fuels.

~~Baker Hughes to Buy Compact Carbon Capture in Push~~

The world is currently consuming about 85 million barrels of oil a day, and about two-thirds as much natural gas equivalent, both derived from non-renewable natural sources. In the foreseeable future, our energy needs will come from any available alternate source.

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The umbrella body of Ijaw youths, the Ijaw Youth Council Worldwide (IYC), has urged the youths to look beyond politics, the oil and gas sector, and explore business opportunities that abound in ...

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The world is currently consuming about 85 million barrels of oil a day, and about two-thirds as much natural gas equivalent, both derived from non-renewable natural sources. In the foreseeable future, our energy needs will come from any available alternate source. Methanol is one such viable alternative, and also offers a convenient solution for efficient energy storage on a large scale.

Completely revised and updated, the third edition of this bestseller discusses the concept and ongoing development of using methanol and derived dimethyl ether as a transportation fuel, energy storage medium, and as a chemical raw material to replace fossil fuels. The contents have been expanded by 35% with new and up to date coverage on energy storage, methanol from biomass and waste products, as well as on carbon dioxide capture and recycling. Written by the late Nobel laureate George Olah, Alain Goeppert and G. K. Surya Prakash, this is an inspiring read for anyone concerned with the major challenge posed by environmental problems including global warming and ocean acidification due to massive increase in fossil fuel use. The book provides a comprehensive and sustainable solution to replace fossil fuels in the long run by chemical recycling of carbon dioxide through renewable methanol utilizing alternative energy sources such as solar, wind, hydro, geothermal and nuclear. The Methanol Economy is being progressively implemented in many parts of the world.

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The world is currently consuming about 85 million barrels of oil a day, and about two-thirds as much natural gas equivalent, both derived from non-renewable natural sources. In the foreseeable future, our energy needs will come from any available alternate source. Methanol is one such viable alternative, and also offers a convenient solution for efficient energy storage on a large scale. In this updated and enlarged edition, renowned chemists discuss in a clear and readily accessible manner the pros and cons of humankind's current main energy sources, while providing new ways to overcome obstacles. Following an introduction, the authors look at the interrelationship of fuels and energy, and at the extent of our non-renewable fossil fuels. They also discuss the hydrogen economy and its significant shortcomings. The main focus is on the conversion of CO<sub>2</sub> from industrial as well as natural sources into liquid methanol and related DME, a diesel fuel substitute that can replace LNG and LPG. The book is rounded off with an optimistic look at future possibilities. A forward-looking and inspiring work that vividly illustrates potential solutions to our energy and environmental problems.

In this masterpiece, the renowned chemistry Nobel Laureate, George A. Olah and his colleagues discuss in a clear and readily accessible manner the use of methanol as a viable alternative to our diminishing fossil fuel resources. They look at the pros and cons of our current main energy sources, namely oil and natural gas, and varied renewable energies, and new ways to overcome obstacles. Following an

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introduction, Olah, Goeppert and Prakash look at the interrelation of fuels and energy, and at the extent of our non-renewable fossil fuel resources. Despite the diminishing reserve and global warming, the authors point out the continuing need for hydrocarbons and their products. They also discuss the envisioned hydrogen economy and its significant shortcomings. The main section then focuses on the methanol economy, including the conversion carbon dioxide from industrial exhausts (such as flue gases from fossil fuel burning power plants) and carbon dioxide contained in the atmosphere into convenient liquid methanol for fuel uses (notably in fuel cells) and as a raw material for hydrocarbons. The book is rounded off with a glimpse into the future. A forward-looking and inspiring work regarding the major challenges of future energy and environmental problems.

From Oil to Gas and Beyond chronicles the history of the petroleum industry in Trinidad and Tobago and appraises major policy decisions impacting its economy. The book details the macroeconomic, commercial, and technical challenges faced by Trinidad and Tobago in the monetization of its oil and gas resources over the past one hundred years. The contributors cover several topics including local content, national participation, sustainability, communication, leadership, energy diplomacy, environmental law and macroeconomic policy.

"This book explains both why the decline of our most precious fuel is inevitable and how challenging it will

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be to cope with what comes next."—Richard E. Smalley, University Professor, Rice University, and 1996 Nobel laureate With world oil production about to peak and inexorably head toward steep decline, what fuels are available to meet rising global energy demands? That question, once thought to address a fairly remote contingency, has become ever more urgent, as a spate of books has drawn increased public attention to the imminent exhaustion of the economically vital world oil reserves. Kenneth S. Deffeyes, a geologist who was among the first to warn of the coming oil crisis, now takes the next logical step and turns his attention to the earth's supply of potential replacement fuels. In *Beyond Oil*, he traces out their likely production futures, with special reference to that of oil, utilizing the same analytic tools developed by his former colleague, the pioneering petroleum-supply authority M. King Hubbert. "The bad news in this book is made bearable by the author's witty, conversational writing style. If my college econ textbooks had been written this way, I might have learned economics." —Rupert Cutler, *The Roanoke Times*

The author looks at the specifics of oil reserves and the petroleum industry and speculates on what will happen when the well runs dry.

Completely revised and updated, this book discusses the concept and ongoing development of using methanol and derived dimethyl ether as a transportation fuel, energy storage medium, and as a chemical raw material to replace fossil fuels. --

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Whilst you read this sentence the world, on average, has just burnt another seven to eight thousand barrels of oil. In fact, it gets through around eighty-two million barrels per day. The message you take from this book should be a positive one... that Western society is about to undergo a massive, collective shock. But, by applying basic principles of sustainable development we can live through this period... albeit without the ready-meals, cheap flights to Spain, 4x4's, Britney Spears videos, Formula One racing, plastic umbrellas...

Examining local content law and policy in the oil and gas industry, this book uses Nigeria as a primary case study, comparing its approach to countries such as Brazil and Norway which have also adopted local content laws in relation to their gas and oil industries. In considering various aspects of local content law and policy as they apply to the oil and gas industry, the book examines the factors behind the formulation of local content policies by petroleum producing states, and the various strategies they have employed to implement them. It analyses arguments against local content requirements from the perspective of international trade and investment law, and from liberal market economic theorists, who argue against its overall usefulness. The book highlights salient aspects of the oil and gas industry such as regulation, national oil companies, treatment of minorities, and policy formulation and implementation.