

CHARTING THE FUTURE OF METHANE HYDRATE RESEARCH IN THE UNITED STATES



Charting The Future Of Methane Hydrate R

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Charting The Future Of Methane Hydrate R:

Charting the Future of Methane Hydrate Research in the United States National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Ocean Studies Board, Committee to Review the Activities Authorized Under the Methane Hydrate Research and Development Act of 2000, 2004-11-14 Methane hydrate is a natural form of clathrate a chemical substance in which one molecule forms a lattice around a guest molecule with chemical bonding. In this clathrate the guest molecule is methane and the lattice is formed by water to form an ice like solid. Methane hydrate has become the focus of international attention because of the vast potential for human use worldwide. If methane can be produced from hydrate a reasonable assumption given that there are no obvious technical or engineering roadblocks to commercial production the nation's natural gas energy supply could be extended for many years to come. This report reviews the Department of Energy's DOE Methane Hydrate Research and Development Program the project selection process and projects funded to date. It makes recommendations on how the DOE program could be improved. Key recommendations include focusing DOE program emphasis and research in 7 priority areas incorporating greater scientific oversight in the selection initiation monitoring and assessment of major projects funded by the DOE strengthening DOE's contribution to education and training through funding of fellowships and providing project applicants with a set of instructions and guidelines outlining requirements for timely and full disclosure of project results and consequences of noncompliance.

Realizing the Energy Potential of Methane Hydrate for the United States National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on Earth Resources, Committee on Assessment of the Department of Energy's Methane Hydrate Research and Development Program: Evaluating Methane Hydrate as a Future Energy Resource, 2009-07-30 Natural gas composed mostly of methane is the cleanest of all the fossil fuels emitting 25-50% less carbon dioxide than either oil or coal for each unit of energy produced. In recent years natural gas supplied approximately 20-25% of all energy consumed in the United States. Methane hydrate is a potentially enormous and as yet untapped source of methane. The Department of Energy's Methane Hydrate Research and Development Program has been tasked since 2000 to implement and coordinate a national methane hydrate research effort to stimulate the development of knowledge and technology necessary for commercial production of methane from methane hydrate in a safe and environmentally responsible way. *Realizing the Energy Potential of Methane Hydrate for the United States* evaluates the program's research projects and management processes since its congressional reauthorization in 2005 and presents recommendations for its future research and development initiatives.

Charting the Future of Methane Hydrate Research in the United States, 2004 [Investigating Seafloors and Oceans](#) Antony Joseph, 2016-12-08 *Investigating Seafloors and Oceans* From Mud Volcanoes to Giant Squid offers a bottom to top tour of the world's oceans exposing the secrets hidden therein from a variety of scientific perspectives. Opening with a discussion of the earth's formation hot spots

ridges plate tectonics submarine trenches and cold seeps the text goes on to address such topics as the role of oceans in the origin of life tidal bore thermal effects ecosystem services marine creatures and nutraceutical and pharmaceutical resources This unique reference provides insight into a wide array of questions that researchers continue to ask about the vast study of oceans and the seafloor It is a one of a kind examination of oceans that offers important perspectives for researchers practitioners and academics in all marine related fields Includes chapters addressing various scientific disciplines offering the opportunity for readers to gain insights on diverse topics in the study of oceans Provides scientific discussion on thermo tolerant microbial life in sub seafloor hot sediments and vent fields as well as the origin of life debates and the puzzles revolving around how life originated Includes detailed information on the origin of dreaded episodes such as volcanic eruptions earthquakes tsunamis internal waves and tidal bores Contains information on the contribution of the oceans in terms of providing useful nutraceutical and pharmaceutical products

The Impact of the Ocean Drilling Program,2006 **Congressional Record** United States. Congress,2000 *Elements* ,2007 **American Book Publishing Record** ,2003 **Business Periodicals Index** ,2008 **CIS Annual** Congressional Information Service,1999

Environment Abstracts Annual 1990 Bowker Editorial Staff,R R Bowker Publishing,Bowker,1991-03 *Philosophical Transactions* ,2002-04 **Abstracts of the Journal** Institute of Petroleum (Great Britain),1962 Journal of the Institute of Petroleum ,1962 **Petroleum Abstracts** ,1997 Construction Index ,1991 United States-Japan Energy Cooperation to Help Achieve Sustainable Development in Asia ,2001 **Environment Abstracts** ,1990 This database encompasses all aspects of the impact of people and technology on the environment and the effectiveness of remedial policies and technologies featuring more than 950 journals published in the U S and abroad The database also covers conference papers and proceedings special reports from international agencies non governmental organizations universities associations and private corporations Other materials selectively indexed include significant monographs government studies and newsletters *Journal of the Institute of Petroleum* Institute of Petroleum (Great Britain),1962 **Economic Bulletin** ,1997

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