

Unconventional Energy Resources: 2007–2008 Review

American Association of Petroleum Geologists, Energy Minerals Division¹

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This paper summarizes five 2007–2008 resource community committee reports prepared by the Energy Minerals Division (EMD) of the American Association of Petroleum Geologists. Current United States and global research and development activities related to gas hydrates, gas shales, geothermal resources, oil sands, and uranium resources are included in this review. These community reports were written to advise EMD leadership and membership of the current status of research and development of unconventional energy resources. Unconventional energy resources are defined as those resources other than conventional oil and natural gas that typically occur in sandstone and carbonate rocks. Gas hydrate resources are potentially enormous; however, production technologies are still under development. Gas shale, geothermal, oil sand, and uranium resources are now increasing targets of exploration and development, and are rapidly becoming important energy resources that will continue to be developed in the future.

KEY WORDS: Gas hydrates, gas shales, geothermal, oil sands, uranium, unconventional energy resources.

INTRODUCTION

Peter D. Warwick^{2,3}

The increasing demand for and continuing depletion of accessible oil and gas resources are causing greater dependence on energy minerals such as coal, uranium, and unconventional sources of oil and natural gas. The Energy Minerals Division (EMD) of the American Association of Petroleum Geologists (AAPG) is a membership-based, technical interest group having the primary goal of advancing the science of geology, especially as it relates to exploration, discovery, and production of mineral resources and for energy-related purposes. Contained in this paper are five summaries derived from 2007 to 2008 committee reports presented to

the EMD leadership. The complete set of committee reports is available to EMD members at http://emdl.aapg.org/members_only/. This paper updates the 2006 EMD review published in this journal (American Association of Petroleum Geologists, Energy Minerals Division, 2007) and is presented here as a service to the general geologic community.

Included in this paper are reviews of current United States and global research activities related to gas hydrates, gas shales, geothermal resources, oil sands, and uranium resources. The field of gas hydrates research is rapidly expanding and is currently focused on identifying areas with resource potential and on production technology. Research and development of gas shales, geothermal resources, oil sands, and uranium resources are continuing and new interest in these resources has driven exploration efforts into former basins. New production technologies have significantly contributed to the advanced development of these unconventional resources and have allowed them to become important contributors to the current energy mix. Please contact the individual authors for additional

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