



# Induced Seismicity Potential in Energy Technologies

*Committee on Induced Seismicity Potential in Energy Technologies, Committee on Earth Resources, Committee on Geological and Geotechnical Engineering, Committee on Seismology and Geodynamics, Board on Earth Sciences and Resources, Division on Earth and Life Studies, National Research Council*

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In the past several years, some energy technologies that inject or extract fluid from the Earth, such as oil and gas development and geothermal energy development, have been found or suspected to cause seismic events, drawing heightened public attention.

Although only a very small fraction of injection and extraction activities among the hundreds of thousands of energy development sites in the United States have induced seismicity at levels noticeable to the public, understanding the potential for inducing felt seismic events and for limiting their occurrence and impacts is desirable for state and federal agencies, industry, and the public at large. To better understand, limit, and respond to induced seismic events, work is needed to build robust prediction models, to assess potential hazards, and to help relevant agencies coordinate to address them.

*Induced Seismicity Potential in Energy Technologies* identifies gaps in knowledge and research needed to advance the understanding of induced seismicity; identify gaps in induced seismic hazard assessment methodologies and the research to close those gaps; and assess options for steps toward best practices with regard to energy development and induced seismicity potential.

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