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Technological Policy on the Sequestration of CO2 in Japanese Coalbeds, Based upon Their Adsorption and Desorption Properties

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There are many coalfields in Japanese Island and its offshore. Up to the present, the adsorption and desorption properties of the coals mined from those working faces have been examined, and these results indicate that Japanese coals could be classified as high-volatile bituminous ones comparable with European and North-American coals. Japanese coals, the bituminous coal from Yubari coalmine has almost the same property as those of European and North-However, the sub-bituminous coals, such as Taiheiyo coal, etc., American coals, as to the desorption-rate of coalbed gas. Therefore, the test site for the sequestration of carbon dioxide into have lower desorption rate of the gas than those coals. the coalbed must be selected at the first stage from the coalfields in Japan, based on the ability and stability of CO2-The site-selection are much dependent on the coal scientific properties, which are the adsorption and desorption phenomena of CH4 and CO2, and also the transfer characteristics of gas into coal macerals, such as the Once the site is selected, a micro-pilot test must be carried out. permeability and diffusibility characteristics. preparation of this test, a gas-injection well must be drilled from the surface to deep coalseams by many directional drillings, keeping the safety and environmental conditions on the surface. The technologies used in the oilfield engineering are very useful to drill the gas well as well as to select the site for CO2-sequestration.