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JAPEX's next business in consideration for environment surrounding us —CO₂ geo-sequestration—

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1) Japan Petroleum Exploration Co., Ltd.

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Abstract: JAPEX (Japan Petroleum Exploration Co., Ltd.), as one of the fossil fuel producers, is trying to make consideration for the environment surrounding us such as to reduce BTX (Benzene, Toluene and Xylene) discharging, efficient use of low pressure gases in the oil and gas fields, and so on because fossil fuel is considered as one of the cause of increasing GHG (Green House Gas).

CO₂ geo-sequestration is one of the methods of settling down the concentration of CO₂ in the atmosphere. Many core technologies utilized for it are basically used in oil and gas exploration/development technologies. JAPEX made the Environment Geoengineering Technology Department in 2002 and set it for one of its main business.

After taking effect of the Kyoto Protocol in February 2005, many meetings and discussions of CO₂ geosequestration especially as the project of CDM (Clean Development

Mechanism) were energetically made. The author reviews about those epoch-making situations briefly, introduces JAPEX's participation in the demonstrative examination in Iwanohara area, Niigata Pref. conducted by Research Institute of Innovative Technology for the Earth (RITE) /Engineering Advancement Association of Japan (ENAA), and also introduces injected CO₂ flow simulation taking account of residual gas trapping mechanism and future plan.

Key words: [CCS](#), [CO₂ geo-sequestration](#), [3D seismic survey](#), [4D seismic survey](#), [Time Lapse](#), [Modeling](#), [Simulation](#), [Monitoring](#), [Residual gas trap](#), [Clean Development](#)

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