

Gas hydrate production via air and carbon dioxide injection

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There are extensive amounts of methane stored as natural gas hydrates in the earth's crust along the oceans and permafrost regions. The global discussion over the most effective means to exploit methane from natural gas hydrates is focused on the development of more feasible techniques that can be adapted in diversified geologic conditions. We suggest a new approach using CO₂/air gas that reduces CH₄ production costs and enhances the feasibility of field application. The very strong, stable and self-regulating process of exchange (CH₄ replaced by CO₂/air) occurring in the methane hydrate will work well for most global gas-hydrate reservoirs.