

**Influence of soaking process in replacement process for methane production**

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Methane hydrate naturally existed in the deep sea and permafrost regions. Methane hydrate has focused as a potential material to solve energy and environment problems. To recover methane from the regions, a number of methods suggested. One of the methods, replacement process has highlighted due to the merit: recovery methane and flue gas sequestration at the same time. In this study, we performed to reveal the influence of soaking process at constant injection flowrate in methane production by replacement.