

Effect of Soaking for Methane production from CH₄ hydrate by flue gas replacement

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Methane recovery from the hydrate by global warming gas has been highlighted to solve energy and environmental problems. For the production, there are two steps: direct production and soaking. For 1st production, it is governed by the flue gas flow rate. The production increased with flow rate decrease. It means there need time to replace between methane in the hydrate and flue gas. After 1st production, we took the soaking process for the additional methane production. Soaking means the process that giving the reaction time between flue gas and methane after cell sealing. We observed change of additional production efficiency at a constant flow rate when we change the soaking timesoaki