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Production Strategy for Oceanic Methane Hydrate Extraction and Power Generation with Carbon Capture and Storage (CCS)

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Highlights

- A new strategic production model is proposed for oceanic methane hydrate extraction and offshore power generation.
- Strategic initial warm-up of methane hydrate bearing layer is found feasible for production enhancement.
- A general efficiency of 40% can be achieved for the power generation system.
- Re-injection of CO₂/H₂O contributes to green production by changing the extraction period but not affect much the efficiency.

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