For achieving high energy utilization efficiency
Promotion of utilization of low-temperature heat below 100°C is required.

Chemical Heat Storage system
(Heat energy is stored and released by reaction heat.)
- High heat storage density
- Long-term heat storage in the form of chemical substances
- No heat loss & no need of thermal insulation
- Complex system

Conclusions
- Hydration rate of LiOH is greatly enhanced by combining LiOH with MPC.
- LiOH/MPC composite prepared at LiOH aq. concentration of 10 wt% and stirring time of 24 hr achieved the highest hydration ratio after 10 min hydration within this experimental conditions.
- Almost all LiOH in LiOH/MPC composite might react with water vapor within 10 min.
- From elemental mapping of composite, it is implied that LiOH is coated on the surface of MPC like thin film.

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