

Realization of a low carbon society through game changing technologies

Efficient on-demand ammonia synthesis at low temperature in an electric field

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Summary :

- Existing Haber-Bosch process requires high temperatures and high pressures, so it is not suitable for on-demand processes.
- Low temperature on-demand production can be achieved by catalytic reactions in an electric field.
- 1.17 Mt-CO₂ emission can be suppressed in Japan (2050 case).

