

## Summary of VBL Research Project

<b>Theme</b>	Material development for thermo-chemical energy storage
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In recent years, reduction of CO<sub>2</sub> emissions is required with the entry into force of the Paris Agreement, and it is necessary to disseminate new energy systems that do not depend on nuclear power and fossil fuels.

As a method of effectively utilizing high temperature unused heat, any materials for latent heat storage and thermo-chemical energy storage have been proposed so far, but these materials are not in practical use due to its lower energy density, reaction speed and durability.

In this research, we are developing materials for thermo-chemical energy storage to effectively utilize exhaust heat at 500 – 800 degree C, and evaluate the heat storage/output performance.

With the progress of this research, we can expect to disseminate a new heat supply system using high temperature unutilized heat as a heat source, reduce fossil fuel usage, and reduce carbon dioxide emissions.

[Patent List]

P4765072 (2011), P517386 (2013), P2016-072404A, P2018-025539A, P2018-025571A



