AZIZ LAB.

Advanced Utilization of Clean Secondary Energy



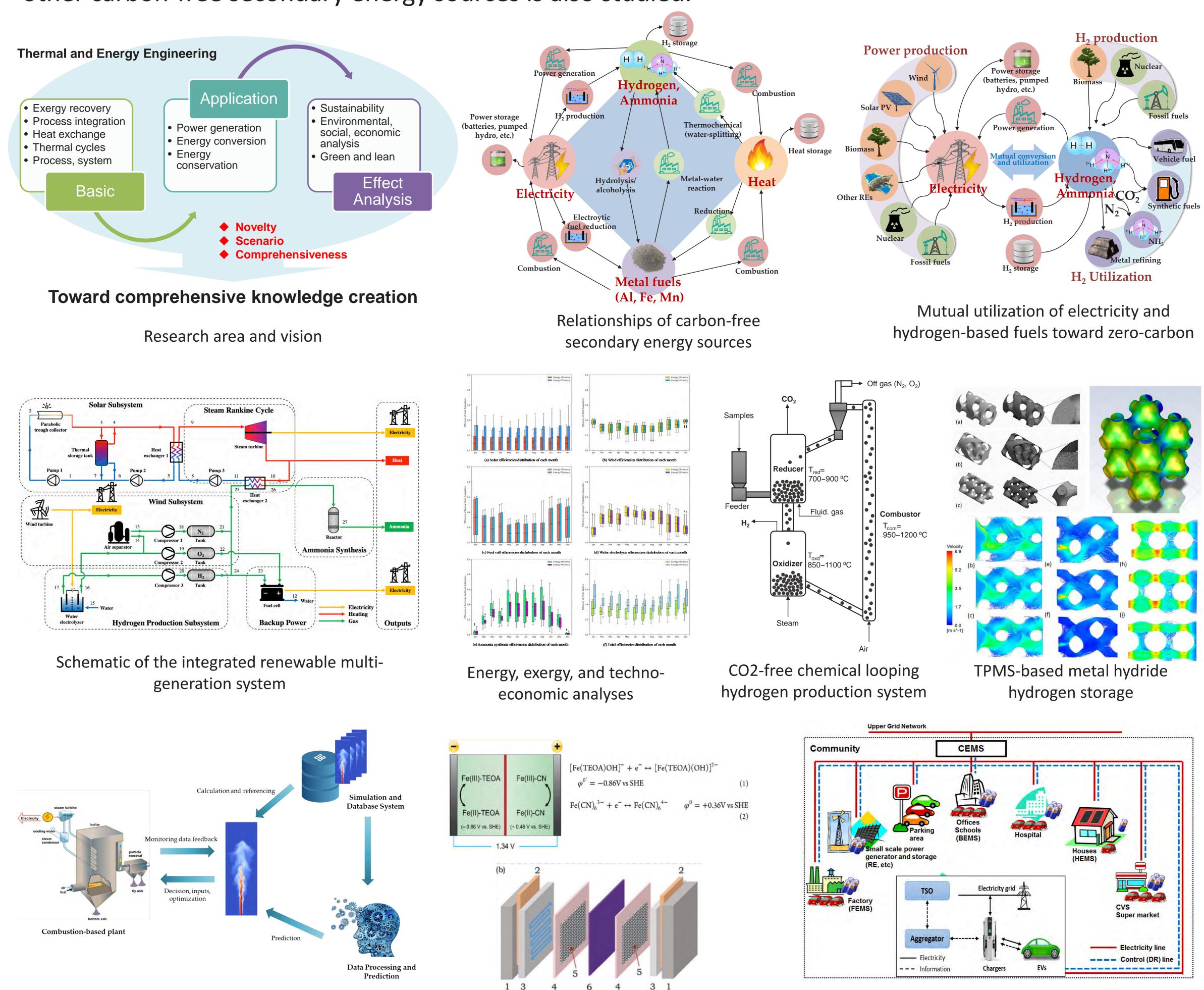
Department of Mechanical and Biofunctional Systems

Energy system Department of Mechanical Engineering, Graduate School of Engineering

epi.iis.u-tokyo.ac.jp

Advanced adoption of clean secondary energy toward sustainability

A highly efficient and clean energy system is developed toward the realization of sustainable society. Analysis and modeling of micro- to macro-scales for each individual energy conversion process and elemental technology are performed, together with the effort to integrate them efficiently. In addition, a mutual relationships (conversion, utilization, and storage) among the electricity, chemical energy, and other carbon-free secondary energy sources is also studied.



Advanced combustion modeling and prediction

High density iron redox flow battery

Advanced utilization of EVs for ancillary services