

List of KIER CPs

CP #	Department	KIER PI	Title of Concept Paper (CP)
1	Photovoltaic Lab.	Min Gu Kang	Fabrication, loss analysis, and energy yield modelling of high efficiency shingling modules using cut bifacial n-PERT cells for minimizing cell-to-module loss
2		Sungjun Hong	Development of passive-active switchable smart window for building energy efficiency improvement
3		Kihwan Kim	Advanced roll-to-roll (R2R) processing for chalcopyrite-based solar cells: Designs for linear source and flexible-web control system
4	Energy Saving Lab.	Youngmin Woo	Cryocooler development for the energy storage device to utilise CO2 liquefaction
5		Min-Soo Suh	Thermally regenerative power generation NaTEC technology
6	Separation and Conversion Materials Lab.	Hana Yoon	Novel dimension-controlled materials for combined energy conversion and energy storage devices
7	Energy Materials Lab.	Heeyeon Kim	Development of the multi-dimensional nanostructured catalyst to overcome the thermodynamic limit of a chemical reaction by atomic-scale modeling and characterization techniques
8	Greenhouse Gas Lab.	Chan Young Park	Development of Indoor CO2 Abatement Technology Applicable to Crowded Places
9	Bio Energy R&D Center	Jung-Je Woo	LBL-assembled, structurally graded 3D-framework as a dendrite-free electrode for high energy storage systems