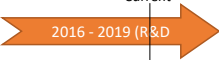



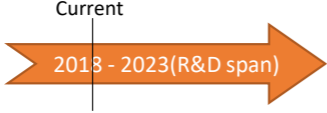
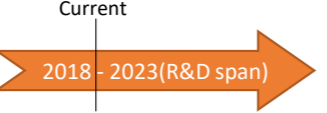


Country	Institute	Category	Related programs (with short summary)	Target / Goal Outcome	Lead person / Organization	Partnership (if any)	Related information
China	Dalian Institute of Chemical Physics (DICP), CAS	Transportation/Storage	<p>"Efficient Utilization of Heat and Electric power from Renewable Energy in Urban Areas Mediated by Hydrogen Energy" Project. The main objective of this joint project is to develop an efficient Hydrogen-mediated energy system to replace the primary energy sources by renewable energy to sustain a healthy growth of human society. Technically, this concerted effort aims to design, development and optimization of hydrogen storage systems and related techniques that can be integrated to solid oxide cells (SOFC &amp; SOEC).[2016-2019]</p> <p style="text-align: center;">Current   </p>	Hydrogen storage materials will be developed for storage of hydrogen and high- and low-temperature heats generation. SOEC and SOFC will be developed to integrate with hydrogen storage materials for hydrogen production and power generation. A proposal for the efficient energy system for urban usage utilizing renewable energy such as solar and wind powers will be demonstrated.	Prof. Ping Chen/DICP	(Domestic) Prof. Hui Li / DICP, Prof. Mojie Cheng, DICP (International) Prof. Etsuo Akiba, Kyushu University	<a href="http://english.dicp.cas.cn/">http://english.dicp.cas.cn/</a>
	Dalian Institute of Chemical Physics (DICP), CAS Shanghai Advanced Research Institute(SARI), CAS	Production	<p>Strategic Priority Research Program of Chinese Academy Science/ Hydrogen/liquid fuel from renewable energy</p> <p style="text-align: center;">Current   </p>	Development of SPE Water Electrolysis system	Prof. Zhigang Shao/ DICP Prof. Yuhua Sun/ SARI		
	Shanghai Institute of Applied Physics (SINAP), CAS	Production	<p>Strategic Priority Research Program of Chinese Academy Science/Non-Electric Applications of Nuclear Energy</p> <p style="text-align: center;">Current   </p>	Development of high - temperature electrolysis hydrogen production equipment	Prof. Jianqiang Wang/ SINAP		

Country	Institute	Category	Related programs (with short summary)	Target / Goal Outcome	Lead person / Organization	Partnership (if any)	Related information
China	Dalian Institute of Chemical Physics (DICP), CAS	Production	Strategic Priority Research Program of Chinese Academy Science/ Hydrogen/liquid fuel from renewable energy  <div style="text-align: center;">             Current   </div>	Pilot demonstration of direct convert CO2 to Fuel with capability of kilotons/a.	Prof. Zhigang Shao/ DICP Prof. Yuhan Sun/ SARI		

Country	Institute	Category	Related programs (with short summary)	Target / Goal Outcome	Lead person / Organization	Partnership (if any)	Related information
	Institute of Electrical Engineering (IEE), CAS	multi-energy	Strategic Priority Research Program of Chinese Academy Science/ 100% Renewable Energy Application Demonstration  <div style="text-align: center;">  </div>	100% Renewable Energy Application Demonstration in Huangdicheng Town	Prof. Yaohua Li /IEE		
China	Guangzhou Institute of Energy Conversion(GIEC), Qingdao Institute of Bioenergy and Bioprocess Technology	Biofuel	Strategic Priority Research Program of Chinese Academy Science/Key technologies and demonstration of renewable energy  <div style="text-align: center;">  </div>	Demonstration of comprehensive utilization of biomass for biofuel and chemicals.	Prof. Longlong Ma/GIEC Prof. Xuefeng Lv/QIBEBT		