Key Technologies for Achieving Green Innovation

Reference document



R&D

	Biochemicals (biomass-derived polymers, chemical synthesis from inedible biomass, etc.)	
	Water treatment (innovative separation membranes, etc.)	Ultra-high efficiency heat pumps
	Biomass fuel cells (stationary)	New-type secondary batteries (post-lithium, etc.)
	Gas turbine/fuel cell (GT/FC) combined power generation (stationary fuel cells)	
	Fuels using marine biomass	Innovative energy-saving technologies for transportation machinery (including materials and design technologies)
	Next-generation light water reactors	Power electronics (diamond devices)
	Direct reduction steelmaking process	ses New-structure/new-material solar cells
	Rare metal substitution technologies (next-generation motors, secondary battery materials, etc.) Artificial photosynthesis (e.g., production of methanol from CO ₂)	
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	Solar power generation in space	Nuclear fusion

Basic research