

CN Technologies and Institutions

Category	Subcategory	New technology	Ind.	Trans.
Technologies to reduce CO2 generation	Energy Efficiency and Conservation Technologies (Enhancement of conventional EE&C)	Electric Demand Leveling, Up and down DR	A1	
	Energy transition from Heat to Electricity	Heat pump, Electric heating Thermal engine → Electric engine	A2	
		Next generation vehicle (EV, FCV, HV) Hydrogen Fuel cell Train, Super ECO Ship Aircraft by using SAF (Sustainable Aviation Fuel)		B1
	Production Process Transition	Advanced Steel Making, Direct Reduction, Advanced Thermal Power, Clean Coal Technology	A3	
	Transition from Fossil Fuel to Non-fossil Fuel	Fuel Cell, Hydrogen reduction, Ammonia, Biomass	A4	
	Renewable Energy	Hydro, Solar, Wind, Geothermal, Wave, Tide	A5	
	Utilization of Unused Energy, Energy Storage	Temperature difference energy, Waste heat recovery, Lithium-ion battery, Redox flow battery	A6	
Technologies to manage generated CO2	CO2 Separation, Capture and Storage	COURSE50, Recover from cement process	A7	
	CO2 Utilization (Methanation, Chemical Recycle, Material Recycle, Industrial Gas)	Carbon recycle cement, Methanation, Cellulose nanofiber, Artificial photosynthesis	A8	
Green Society Building	Recycle technology, Sustainable Recycle Society	Waste, Plastic, Concrete, Scrap Steel, Noble metal, Rare Metals	A9	
	City / Region planning	Smart city, City transport system(TDM, ITS), Modal shift, Public transport system (LRT, BRT), MaaS, Bicycle		B2
	Logistics, Transportation business	Smart transportation, Green transportation, Supply chain logistics, Cold chain logistics, Truck transportation, Eco drive		T3
Policy, Act, Institute, Decarbonization management	EC Act, Decarbonization standard	Carbon tax, Credit trade, Green certification, SBT, CDP, RE100	C1	