CTCN Mitigation Sectors		
A: Sector	B: Technology group	C: Technology
Carbon Fixation and Abatement	Fugitive emission control	Oil and gas flaring reduction
		Oil and gas flaring reduction Coal mine methane Natural gas pipeline leaking
	Carbon capture and storage	Charcoal production
		CO2 transport technologies CO2 storage technologies CO2 capture technologies
ansport	Inland water & maritime	
	Land transport	Maritime freight Maritime support systems
	Land transport	Traffic management More efficient heavy duty vehicles
		More efficient light duty vehicles Modal shift from car to cycling
		Modal shift from road to rail Road pricing
		Intelligent transport systems Scrappage programmes Transport Demand Management
		Freight management More efficient train system
		Transit-oriented development Bus Rapid Transit Cable cars
		Promotion of non-motorised transport High-speed rail
	Vehicle and fuel technologies	Compressed Natural Gas as fuel
		Biogas as fuel Advanced biofuels Energy-efficient motors
		Liquefied Natural Gas in trucks and cars Electric vehicles
		Regenerative braking Liquefied Petroleum Gas in transport
	Aviation	Fuel cells for mobile applications Hybrid electric vehicles
	Aviation	Aviation support systems Air cargo
rgy efficiency	Energy distribution	
		Hydrogen infrastructure District heating and cooling Micro-grid
		Smart grid Connection of isolated grid
	Appliances and equipment	Water efficiency
		Residential water heaters LPG and LNG for household and commercial cooking
		Lighting Community-based energy services Appliance standards
		Efficient server and network technology Improved cook stoves
		Fuel cell technologies Appliances Water purification
		Energy labelling Water pumping
	Buildings	Sustainable design
		Daylight harnessing New building design Insulation in buildings
		Building envelope thermal insulation Building materials
		Building life cycle and integrated design process Building standards and codes
		Greening the built environment Retrofitting of existing buildings
		Building automation Building Energy Management Systems Carbon sink and low-carbon building materials
		Heating - Ventilation and Air Conditioning Design for Deconstruction
		High performance building facades Passive house design
		Traditional building materials and design Sustainable spatial planning
		Cool roofs Efficient air conditioning systems Indirect evaporative cooling
	Energy storage	Compressed air energy storage
		Phase change materials for thermal energy storage Capacitors
		Batteries Pumped hydroelectric energy storage Elywheels
		Flywheels Superconducting magnetic energy storage Underground thermal energy storage
newable energy	Solar	
		Solar cooking Solar cooling and hybrid systems with heating and hot water
		Solar towers (updraft) Solar water purification Building-integrated PV
		Solar water pumps Solar heating
		Solar lamps Solar PV
		Solar thermal power Solar dryer Energy tower (downdraft)
	Renewable energy infrastructure	Energy tower (downdraft) Solar water heater
		Hydrogen technologies Off-grid systems
		Fuel cells Fuel cells for stationary applications
	مسامد دا ا	Renewable energy resource mapping Grid integration for renewables
	Hydro	Run-of-river hydronower
	Ocean energy	Run-of-river hydropower Osmotic power
		Ocean thermal energy conversion Wave energy
	Wind	Tidal energy
		On-shore wind Building-integrated wind turbines Offshore wind
		Onshore willing

		Wind water pumping Small-scale wind	
	Bioenergy	Biofuels from algae	
		Switch from fossil fuel to biomass Biogas for heating	
		Energy supply from waste Biogas power	
		Biomass briquettes or pellets Biomass for heating	
		Black liquor Biomass power	
		Ethanol fuel Biodiesel	
		Biodiesel from waste oil Charcoal production for cooking and heating	
		Household biogas Biodiesel from waste oil	
	Geothermal	Heat pumps	
Wests Management		Geothermal electricity Geothermal heating	
Waste Management	Solid waste	 Landfill aeration	
		Gasification of waste Integrated solid waste management	
		Landfill biocovers Landfill composting	
		Industrial solid waste Municipal solid waste	
		Landfill gas power Incineration of waste	
	Recycling	Landfill gas flaring	
	<i>,</i>	Recycling of Waste Electronic and Electrical Equipment Glass recycling	
		Advanced paper recycling Product component and materials recycling	
	Wastewater	Wastewater management systems	
Forestry		Aerobic wastewater treatment	
	Sustainable forest management Mangroves conservation and rehabilitation	_ _	
	Forest management techniques for mitigation Urban forestry		
	Afforestation Soil carbon measurement	_ _	
	Carbon stock measurement, monitoring and verification Reforestation	_ _	
Agriculture	Biomass carbon measurement and monitoring	_	
	Grassland management Demand efficiency	— Minimizing food wests	
	Cropland	Minimizing food waste Dietary changes	
	Сгоріани	Crop varieties with enhanced carbon sequestration Nutrient management: mycorrhiza	
		N2O reduction Cropland management	
		Machinery Mineral fertilisers	
		Irrigation Rice cultivation	
		CH4 reduction Soil management	
		Restoration of organic soils Restoration of degraded lands	
		Organic agriculture Reduction of energy use in traction	
		Field burning of agricultural residues Precision agriculture	
		Conservation tillage Peat carbon management	
		Biochar Landscape multifunctionality	
		Cover crop technology Manure coverage	
	Wetland management	Crop drying	
	Soil carbon measurement Carbon stock measurement, monitoring and verification		
	Improvement of Agri-food processes Livestock management	Manure management	
		Selective breeding via controlled mating Methane emission mitigation of ruminants	
		Straw ammoniation and silage Temperature regulation for livestock	
		Enteric fermentation Livestock disease management	
		Grazing land management Fodder banks	
		Climate tolerant livestock Domestic manure	
		Pasture management Livestock feed optimisation	
Industry	Biomass carbon measurement and monitoring		
	Mining & production	Non-ferrous metals	
		Reducing air and steam leaks Blast furnace slag granulation	
		Direct casting for iron and steel sector Coke dry quenching for iron and steel sector	
		Inert anode technology for aluminium smelters Iron & steel processing	
		Aluminium industry Scrap preheating for iron and steel Improved officiency in mining and resource extraction	
		Improved efficiency in mining and resource extraction Smelt reduction for iron and steel sector Advanced wet quenching for iron and steel sector	
	Fossil fuel shift	Oil to electricity	
		Oil to LPG Fossil fuels to natural gas	
		New natural gas plant Fuel switch in industry	
	Construction	Efficient brick kiln	
		Clinker replacement CCS from cement production	
		Cement heat	
	Manufacturing industry	Glass production	
		Machinery Efficient supply chains	
		Mitigation in the textiles and leather industry Industrial symbiosis	
		Electronic control systems Eco-design Wood products	
		Wood products Mitigation in the pulp and paper industry Electronic devices	
		Electronic devices	

Bioplastics

	Conventional newer plant officiency	
	Conventional power plant efficiency	Power plant rehabilitation Stirling engine
		Stirling engine Natural gas combined cycle plants Integrated gasification combined cycle
		Integrated gasification combined-cycle Single cycle to combined cycle power generation
		Replacement of district heating boilers Higher efficiency oil power
		Higher efficiency steam boiler Waste heat recovery
		Trigeneration Small-scale Combined Heat and Power
	Chemicals management	Large-scale Combined Heat and Power
		N2O reduction Shift to coolants and refrigerants with lower GWP SF6 reduction
		Adipic acid Biopolymer production for petrochemical sector
		CH4 reduction CO2 replacement
		CO2 recycling PFCs reduction
		Carbon black Ammonia
		Nitric acid NF3 reduction
	Transport of raw fuels	Coal transport
		Biomass transport Liquefaction plants
		LNG and LPG carrier
CTCN Adaptation Sectors		
A: Sector Early Warning and Environmental Assesment	B: Technology group	C: Technology
Early Warning and Environmental Assessment	Remote sensing & GIS	
	Hazard mapping	seasonal to interannual weather forecast
		Disaster risk assessment tools Hazard mapping solutions
	Early warning systems	Flood hazard mapping
		Early Warning Systems Communication Community-run early warning systems
		Climate scenario development Flood forecasting systems
	Manitaria a sustana	Landslide and mudflow warning systems
	Monitoring systems	Monitoring of invasive species
		Climate change monitoring Light detection and ranging
		Water resource assessment Ecosystem monitoring
Agriculture and Forestry	Improved weather forecasting & hydrometeorological networks	
	Terrestrial ecosystems management	Ecological corridors
		Ecological buffer zones Bushfire reduction and prescribed fire
		Wetland restoration and rehabilitation
		Control of sand encroachment Biodiversity management systems
	Agro-forestry, Silviculture & Mixed farming	Forest fire control
		Rainguard for rubber trees General agro-forestry - silviculture and mixed farming solutions
	Seed, grain & food storage	Agroforestry
		Crop storage Ex situ conservation and seed banks
	Increasing eron recilioned and productivity	Food banks and distribution of food surplus
	Increasing crop resilience and productivity	Sustainable fertilizers
		Terracing Integrated nutrient management
		Soil moisture monitoring Soilless agriculture
		Fodder crops Wind breaks
		Greenhouse crop management Organic agriculture
		Fertilizer management
		Fungal symbioses Precision agriculture
		Biochar technology Pest and insect control
		Biotechnology for crop adaptation GMO crops
		Conservation tillage Improved cultivation techniques
		Crop diversification and new varieties Aeroponic seed production
	Livestock management	Crop rotation
		Manure management Selective breeding via controlled mating
		Selective breeding via controlled mating Methane emission mitigation of ruminants
		Straw ammoniation and silage Temperature regulation for livestock
		Enteric fermentation Livestock disease management
		Grazing land management Fodder banks
		Climate tolerant livestock Domestic manure
		Pasture management Livestock feed optimisation
	Land management training	
		Community-based agricultural extension Forest user groups Former field schools
Water		Farmer field schools
	Water efficiency and demand management	Water efficiency in industry
		Leakage management in piped systems Water accounting
		Irrigation efficiency and information systems Progressive water pricing
		Water savings requirements in building codes Public water conservation campaigns
	Adaptation planning	Water licensing and permits
	, waptation planning	Hazard mapping
		Disaster risk assessment tools
		Hazard mapping solutions Flood hazard mapping
		National plan Technology Needs Assessment
		National Biodiversity Strategies and Action Plan National Adaptation Plan
		National adaptation programmes of action

		Open source climate data and tools
		Climate change vulnerability assessment
		Downscaling of climate model projections
	Water augmentation (increasing capture and storage of surface run-off)	Rainwater harvesting
		Tallitrates Hall Vesting
		Integration of green spaces in planning
		Watershed conservation
	Hydropower	Source water protection
	Tydropower	Multi-purpose dams
		Small hydropower
		Large hydropower Embedding climate variability in hydropower design
	Water pollution	
		Point of use water treatment Domestic water treatment & management
		Wastewater treatment plant
		Flood-proof sanitary latrines Water Safety Plans
	Riverine flood protection	water sarety rians
		River restoration Flow-through dam for flood control
		Artificial lowering of glacial lakes
		Re-connecting rivers with floodplains
		Disaster preparedness plans Accommodation for flooding
		Sandbags against flooding
		Flood proof wells Floodplain zoning
	Urban storm water management	
		Canals and drainage systems Runoff control structures to temporarily store rainfall
		Permeable parking lots
		Drainage gradient
	Water storage	Bioswales
		Ponds and tanks
		Natural wetlands and green infrastructure Water reservoirs
		Limiting land conversion & deforestation
		Designing protected areas Soil moisture conservation techniques
		Indigenous water storage structures
	Use of alternative water sources	Seawater desalination
		Seawater desalination Interbasin transfers
		Solar water distillation
		Water recycling and reclamation Fog harvesting
	Integrated planning	
		Basin level planning Integrated Water Resources Management
		Hydrological modelling
	Limiting nutrient leakage	Groundwater extraction and monitoring
	Limiting nutrient leakage	Riparian buffers
		Land use limitations Designing protected areas
		Designing protected areas Change in land use practices
	Water allocation	Seasonal water restrictions
		Seasonal water restrictions Basin level modelling for water allocation
man Uaalth		Water reallocation
man Health	Emergency medical services	
	Advanced IT systems in the health sector	Diagonal and a state of the sta
		Disease surveillance systems E-Health
	Public health services	
	Public health services	Education of health personnel Heat wave plans and emergency response
	Vaccination programs	Education of health personnel Heat wave plans and emergency response
		Heat wave plans and emergency response
	Vaccination programs	Rapid diagnostic tests Malaria protection and prevention programs
rastructure and Urhan planning	Vaccination programs	Heat wave plans and emergency response Rapid diagnostic tests
rastructure and Urban planning	Vaccination programs	Rapid diagnostic tests Malaria protection and prevention programs Long-lasting insecticidal bed nets
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frastructure and Urban planning Dastal Zones	Vaccination programs Vector-borne diseases Ground surface material Sewerage infrastructure Land use in human settlements Grid resiliency Building design and material Urban design and spatial planning Building construction Water supply infrastructure Urban planning Building codes Resilient transport systems Retreat Accommodation Integrated coastal zone management Protection (hard engineering)	Rapid diagnostic tests Malaria protection and prevention programs Long-lasting insecticidal bed nets Engineered cementitious composite (ECC) Warm-mix asphalt Elevated buildings Elevated buildings Elevated buildings Resilient railway systems Resilient road systems Resilient road systems Coastal setbacks Managed realignment Flood and cyclone shelters Flood-proofing Floating houses Management of seagrass beds Floating agricultural systems Groundwater management Flood warning systems Coastal zoning Sediment management Restoration and protection of coral reefs Coastal monitoring Ecosystem restoration and conservation plans Storm surge barriers and closure dams Breakwaters Jettes Dikes Sea walls Groynes Geosynthetics Coastal Infrastructure rehabilitation Revetments

Dune construction & stabilisation

Marine and Fisheries

Active motion-dampening systems for marine ports

Seaweed farming

Marine protected areas
Fisheries management

Artificial reefs

Aquaculture management