

Illustrative Global Climate Change Adaptation and Mitigation Measures

Sector	Adaptation	Mitigation
Energy		Minimize use of fossil fuels
		Promote renewable energy generation (e.g., through use of tax incentives and disincentives) Solar PV Wind Methane Capture Biomass Geothermal Hydro Nuclear
		Promote tree plantation/reforestation
		Avoid tree cutting (e.g. REDD)
		Promote energy efficient electrical applications
		Reduce road transport/Promote commercial and passenger rail transport
		Promote least polluting fossil fuel sources
		Promote trading of carbon credits and carbon offsets
	Hydro-electric facilities – Design for extreme events applying adaptive risk management modeling; retrofit for anticipated changes in river volumes and flows	
	Power plants (Coal and Nuclear) – Modeling to anticipate cooling requirements (e.g., water source, cooling tower design)	
Water	Increase water use efficiency/Better water management	
		Reduce methane emissions from wastewater treatment
Agriculture	Implement famine early warning system	Reduce methane emissions (e.g., rice cultivation, livestock raising)
	Diversify crops	
	Plant drought resistant crops	
	Anticipate changes in historical baseline patterns of precipitation and river flows in design and operation of irrigation schemes	

Sector	Adaptation	Mitigation
Human Health	Implement disease warning and epidemic management system	
Municipal Services	Promote integrated coastal zone planning and Management	Promote dense urban development (e.g., tax incentives and disincentives)
	Relocate critical infrastructure	Promote mass transit (e.g., tax incentives and disincentives)
	Floodproof critical infrastructure	
	Implement storm monitoring and warning system	
	Implement disaster management system	
Transport	Anticipate changes in baseline historical patterns of precipitation and river flows in design and operation of roads, bridges and rail systems	Promote fuel switching to lower carbon emitting fuels (e.g., CNG)
	Assess effects of sea level changes on port development	
	Anticipate changes in sea routes	
Tourism	Use adaptive risk management to assess effects of changes in baseline precipitation, climate, and of extreme weather events on species composition	Promote adoption of green certification standards and practices
	During design assess potential impacts of species loss, fluctuations in water availability, and sea level rise on ecotourism facilities and the tourism industry	