

APPENDIX SIX: AGENDA 21 INDICATORS OF SUSTAINABLE DEVELOPMENT

Chapter of Agenda 21	Driving Force indicators	State indicators	Response Indicators
Economic Category			
Chapter 3: Combating poverty	-Unemployment rate	-Head count index of poverty -Poverty gap index -Squared poverty gap index -Gini index of income inequality -Ratio of average female wage to male wage	
Chapter 5: Demographic dynamics and sustainability	-Population growth rate -Net migration rate -Total fertility rate	-Population density	
Chapter 36: Promoting education, public awareness and training	-Rate of change of school-age population -Primary school enrolment ratio (gross and net) -Secondary school enrolment ratio (gross and net) -Adult literacy rate	-Children reaching grade 5 of primary education -School life expectancy -Difference between male and female school enrolment ratios -Women per hundred men in the labour force	-GDP spent on education
Chapter 6: Protecting and promoting human health		-Basic sanitation: Percent of population with adequate excreta disposal facilities -Access to safe drinking water -Life expectancy at birth -Adequate birth weight -Infant mortality rate -Maternal mortality rate -Nutritional status of children	-Immunization against infectious childhood diseases -Contraceptive prevalence -Proportion of potentially hazardous chemicals monitored in food -National health expenditure devoted to local health care -Total national health expenditure related to GNP
Chapter 7: Promoting sustainable human settlement development	-Rate of growth of urban population -Per capita consumption of fossil fuel by motor vehicle transport -Human and economic loss due to natural disasters	-Percent of population in urban areas -Area and population of urban formal and informal settlements -Floor area per person -House price to income ratio	-Infrastructure expenditure per capita
Economic Category			
Chapter 2: International cooperation to accelerate sustainable development in countries and related domestic policies	-GDP per capita -Net investment share in GDP -Sum of exports and imports as a percent of GDP	-Environmentally adjusted Net Domestic Product -Share of manufactured goods in total merchandise exports	
Chapter 4: Changing consumption patterns	-Annual energy consumption -Share of natural-resource intensive industries in manufacturing value-added	-Proven mineral reserves -Proven fossil fuel energy reserves -Lifetime of proven energy reserves -Intensity of material use -Share of manufacturing value-added in GDP -Share of consumption of renewable energy resources	
Chapter 33: Financial resources and mechanisms	-Net resources transfer / GNP -Total ODA given or received as a percentage of GNP	-Debt / GNP -Debt service / export	-Environmental protection expenditures as a percent of GDP -Amount of new or additional funding for sustainable development
Chapter 34: Transfer of environmentally sound technology, cooperation and capacity-building	-Capital goods imports -Foreign direct investments	-Share of environmentally sound capital goods imports	-Technical cooperation grants
Environmental category			
Chapter 18: Protection of	-Annual withdrawals of	-Groundwater reserves	-Waste-water treatment

Chapter of Agenda 21	Driving Force indicators	State indicators	Response Indicators
the quality and supply of freshwater resources	ground and surface water -Domestic consumption of water per capita	-Concentration of faecal coliform in freshwater -Biochemical oxygen demand in water bodies	coverage -Density of hydrological networks
Chapter 17: Protection of the oceans, all kinds of seas and coastal areas	-Population growth in coastal areas -Discharges of oil into coastal waters -Releases of nitrogen and phosphorus to coastal waters	-Maximum sustained yield for fisheries -Algae index	
Chapter 10: Integrated approach to the planning and management of land resources	-Land use change	-Changes in land condition	-Decentralized local-level natural resource management
Chapter 12: Managing fragile ecosystems: combating desertification and drought	-Population living below poverty line in dryland areas	-National monthly rainfall index -Satellite derived vegetation index -Land affected by desertification	
Chapter 13: Managing fragile ecosystems: sustainable mountain development	-Population change in mountain areas	-Sustainable use of natural resources in mountain areas -Welfare of mountain populations	
Chapter 14: Promoting sustainable agriculture and rural development	-Use of agricultural pesticides -Use of fertilizers -Irrigation percent of arable land -Energy use in agriculture	-Arable land per capita -Area affected by salinization and waterlogging	-Agricultural education
Chapter 11 : Combating deforestation	-Wood harvesting intensity	-Forest area change	-Managed forest area ratio -Protected forest area as a percent of total forest area
Chapter 15: Conservation of biological diversity		-Threatened species as a percent of total native species	-Protected area as a percent of total area
Chapter 16: Environmentally sound management of biotechnology			-R & D expenditure for biotechnology -Existence of national biosafety regulations or guidelines
Chapter 9: Protection of the atmosphere	-Emissions of greenhouse gasses -Emissions of sulphur oxides -Emissions on nitrogen oxides -Consumption of ozone depleting substances	-Ambient concentrations of pollutants in urban areas	-Expenditure on air pollution abatement
Chapter 21: Environmentally sound management of solid wastes and sewage-related issues	-Generation of industrial and municipal solid waste -Household waste disposed per capita		-Expenditure on waste management -Waste recycling and reuse -Municipal waste disposal
Chapter 19: Environmentally sound management of toxic chemicals		-Chemically induced acute poisonings	-Number of chemicals banned or severely restricted
Chapter 20: Environmentally sound management of hazardous wastes	-Generation of hazardous wastes -Imports and exports of hazardous wastes	-Area of land contaminated by hazardous wastes	-Expenditure on hazardous waste treatment
Chapter 22: Safe and environmentally sound management of radioactive wastes	-Generation of radioactive wastes		
Institutional category			
Chapter 8: Integrating environment and development in decision-making			-Sustainable development strategies -Programme of integrated environmental and economic accounting

Chapter of Agenda 21	Driving Force indicators	State indicators	Response Indicators
			<ul style="list-style-type: none"> -Mandated Environmental Impact Assessment -National councils for sustainable development
Chapter 35: Science for sustainable development		<ul style="list-style-type: none"> -Potential scientists and engineers per million population 	<ul style="list-style-type: none"> -Scientists and engineers engaged in R & D per million population -Expenditure on R & D as a percent of GDP
Chapter 37: National mechanisms and international cooperation for capacity-building in developing countries			
Chapter 38: International institutional arrangements			
Chapter 39: International legal instruments and mechanisms			<ul style="list-style-type: none"> -Ratification of global agreements -Implementation of ratified global agreements
Chapter 40: Information for decision-making		<ul style="list-style-type: none"> -Main telephone lines per 100 inhabitants -Access to information 	<ul style="list-style-type: none"> -Programmes for national environmental statistics
Chapter 23-32: Strengthening the role of major groups			<ul style="list-style-type: none"> -Representation of major groups in national councils for sustainable development -Representatives of ethnic minorities and indigenous people in national councils for sustainable development -Contribution of NGOs to sustainable development