

EEA core set of indicators

Revised version April 2003

Adopted version for EECCA countries May 2003

INDICATOR TABLES of the main report

only for handout distribution on the EEA/UNECE Workshop on Core Environmental Indicators for EECCA, 27-28 June 2003, St Petersburg

**Compiled by:
Peter Kristensen**

April 2003

**Project Manager:
Anita Pirc-Velkavrh & Peter Kristensen**



Table 2.5.1: Overview of the proposed EEA core set of indicators

	Main indicators	Main and sub indicators	Main indicators ST/MT/LT
<i>More developed indicator sets</i>			
Air pollution	14	29	11/ 3/ 0
Ozone layer depletion	4	4	4/ 0/ 0
Climate change	13	36	12/ 1/ 0
Waste and material flows	22	28	5/10/ 7
Water without ecological quality	38	46	14/17/ 7
Agriculture	18	19	8/ 7/ 3
Energy	16	16	16/ 0/ 0
Transport	28	28	21/ 6/ 1
Total	153	206	91/44/18
<i>Less developed indicator sets</i>			
Water ecological quality	8	27	1/ 1/ 6
Biodiversity	15	54	5/ 8/ 2
Terrestrial environment	17	22	4/ 10/ 3
Tourism	15	17	10/ 2/ 3
Fishery	16	38	4/ 3/ 9
Total	71	148	24/24/23

ST: short term; MT: Medium term and LT: Long term

3. Indicators related to environmental issues

Table 3.2.1 Air Pollution indicators in relation to policy questions.

Generic question	Policy question	Indicator title	DPSIR	S/M/L	Other sector/issues
How is the problem developing? (distance to targets, overall decoupling)	What is the progress towards NECD (for EU MS) and CLRTAP?	APE1 Emissions acidifying pollutants	P	ST	
		APE2 Emissions ozone precursors	P	ST	
		APE3 Urban emissions NOx, VOC, PM, SO2, NO2	P	ST	
		APE5 Emissions SO2	P	ST	Energy
		APE5a Emissions SO2 (total & by sector)		ST	
		APE5b Energy related SO2 emissions		ST	
		APE5c SO2 emissions intensity from power production		ST	
		APE5d SO2 emissions from public electricity production	ST	Energy	
		APE6 Emissions NOx	P	ST	Energy
		APE6a Emissions NOx (total & by sector)		ST	
		APE6b Energy related NOx emissions		ST	
		APE6c Emissions intensity of NOx from power production		ST	
		APE6d Emissions of NOx from public electricity production	ST	Energy	
APE7 Emissions NH3	P	ST			
APE7a Emissions NH3 (total & by sector)		ST			
APE7b Agriculture ammonia emissions					
APE8 Emissions NMVOC	P	ST	Energy		
APE8a Emissions NMVOC (total & by sector)		ST			
APE8b Energy related NMVOC emissions					
APE9 Emission of particulates	P	ST	Energy		
APE9a Emissions primary and secondary PM10 (total & by sector)		MT			
APE9b Emissions secondary+primary PM2.5					
APE9c Energy-related particulate emissions		ST	Energy		

		APE10 Emissions Heavy metals and POPs (total & by sector)	P	MT	
What is the progress towards AQ limit values? (Exceedances critical loads ecosystems, health)		APQ11 Exceedance days of air quality target in urban areas	S/I	ST	
		APQ11a Exceedance days of SO2 target in urban areas		ST	
		APQ11b Exceedance days of NO2 target in urban areas		ST	
		APQ11c Exceedance days of PM10 target in urban areas		ST	
		APQ11d Human exposure to O3 exceedance		MT	
		APQ11e Exceedance days of CO target in urban areas		MT	
		APQ11f Exceedance days of benzene target in urban areas			
		APQ12 Exceedances of air quality objectives due to traffic	S/I	MT	Transport
		APD13 Ecosystem exposure to exceedance of critical levels and loads	S/I		Water
		APD13a Percentage Area Exceedance Critical Loads Total acidity		ST	
		APD13b Percentage Area Exceedance Critical Loads nutrient Nitrogen		ST	
		APD13c Atmospheric deposition of nitrogen to marine and coastal waters		MT	
		APD13d Exposure of ozone to crops/forests		ST	
		APD13e Atmospheric deposition waters of heavy metals and persistent organic pollutants (POPs) to marine and coastal waters	MT	Water	
How are actors sectors processes contributing?	Emissions by sector/pollutant?	APE4a,b Transport air emissions APE5b,c,d; APE8b, APE9c Energy related air emissions APE7b Agriculture air emissions		ST ST ST	Transport Energy Agriculture
How are impacts developing	Impacts from AP on health (exposure)	APQ11g Human health exposure and risk by air pollutants	I	MT	
	Impact on nature	APD13d Exposure of ozone to crops/forests	I	ST	
	Impacts from AP on material	(No specific indicators available)			

How effective is the response (What are the socio-economic implications of measures? Overall policy effectiveness ; Efficiency of measures)	Number of / which countries that have ratified various protocols (LRTAP)	(No specific indicators available)			
	Policy-effectiveness of measures	APM14 Effect of measures on past trends APM14a Effect on emissions of SOx and NOx	R	ST	

Indicators with lighter fonts are used in other lists. AP: Air Pollution; AQ: Air Quality ; PM : Particulate Matter.

A small set consisting of four indicators is proposed to describe the issue on ozone layer depletion.

Table 3.2.2 Ozone layer depletion indicators in relation to policy questions.

Generic question	Policy question	Indicator title	DPSIR	S/M/L	Other issues
How is the problem developing? (distance to targets, overall de-coupling)	Are ODP substances phased out according to agreed schedule?	OD1 Production of ODP	D	ST	
		OD2 Sales/Consumption of ODP	P	ST	
How are impacts developing		OD3 Trend in global tropospheric potential chlorine and bromide	S	ST	
		OD4 Average ozone column	S	ST	

3.3 Climate change

Table 3.3.1 Climate change indicators in relation to policy questions.

Generic question	Policy question	Indicator title	DPSIR	S/M/L	Other Sectors/issues
How is the problem developing? (distance to targets, overall de-coupling)	What is the progress towards the Kyoto Protocol?	CC1 Greenhouse Gas Emissions vs. targets (by country) CC2 Projected GHG emission in 2010 vs Targets (by country)	P P/R	ST ST	
	Will the temp increase stay within the +2C target?	CC3 Temperature world/Europe (annual mean deviations)	S	ST	
	Do GHG concentrations remain within sustainable levels (550 ppm CO2)?	CC4 Atmospheric GHG-concentration levels	S	ST	
	How are sectors contributing?	What are the emission changes by pollutant?	CC5a Emissions of carbon dioxide (CO2) and non-CO2 (N2O, CH4, fluorinated gases) CC5a Emissions of carbon dioxide (CO2) and non-CO2 (N2O, CH4, fluorinated gases) CC5b Emissions of key source sectors (energy, transport, industry, agriculture, waste) by country CC5c Energy-related greenhouse gas emissions CC5d Energy-related carbon dioxide emissions CC5e Energy-related carbon intensity CC5f Emission of CO2 from conventional thermal power production CC5g Emissions of CO2 from public electricity production CC5h Transport emissions of greenhouse gases CC5i Agriculture related greenhouse gas emissions CC5j GHG emissions associated with waste recovery and disposal	P	ST ST ST ST ST ST ST ST ST ST LT

	What are the emission changes by sector?	CC5b Emissions of key source sectors (energy, transport, industry, agriculture, waste) by country CC5c Energy-related greenhouse gas emissions CC5h Transport emissions of greenhouse gases CC5i Agriculture related greenhouse gas emissions CC5j GHG emissions from waste recovery and disposal	P P P P	ST ST ST LT	Energy Transport Agriculture Waste
How are impacts developing?	What are changes in climate and atmosphere?	CC6 State of climate and atmosphere CC6a Precipitation CC6b North Atlantic Oscillation	S	ST ST	Water Water
	What are changes in cryosphere?	CC7 State of cryosphere CC7a Mountain glaciers (extent and mass-balance) CC7b Arctic sea ice (extent/duration) CC7c Snow cover CC7d Lake and river ice CC7e Permafrost	S	ST ST ST MT MT	Water
	What are impacts on: • Soils, land resources and forestry?	CC8 Impacts on soils, land resources, forestry CC8a Net carbon uptake terrestrial biosphere CC8b Forest growth	I	ST MT	Biodiversity
	• Ecosystems and biodiversity?	CC9 Impacts on ecosystems and biodiversity CC9a Growing season length CC9b Plant phenology CC9c Animal (e.g. birds) phenology CC9d Species responses (population, migration routes, geographic distribution) CC9e Ecosystem responses (composition, functions) CC9f Plankton distribution (shift)	I	ST MT MT MT LT ST	Biodiversity Biodiversity Biodiversity Biodiversity Water
	• Hydrology and water resources?	CC10 Impacts on hydrology and water resources CC10a Annual river discharge CC10b Low and high river discharges/flows (frequency)	I	ST MT	Water Water
	• Marine environment and coastal zones?	CC11 Impacts on marine environment and coastal zones CC11a Sea level rise CC11b Sea surface temperature	I	ST MT	

	<ul style="list-style-type: none"> Human health? 	CC12 Impacts on human health CC12a Seasonal Change of allergenic pollen (onset and duration) CC12b Vector-borne diseases (e.g. encephalitis) (distribution) CC12c Deaths (number of) due to heat waves CC12d Deaths (number of) due to floods CC12e Food and water-borne diseases (distribution)	I	ST ST MT ST MT	Terrestrial
How effective is the response (in the past and projected)?	What is the effectiveness of existing policies and measures in the sectors electricity/heat generation and road transport in the past?	CC13a Effectiveness of policies and measures (ex-post)	R	ST	
	What are the projected emissions in 2010?	CC13b Projected emissions of key source sectors (energy, transport, industry, agriculture, waste)	R	ST	Sectors

Indicators with lighter fonts are used in other lists.

3.4 Biodiversity

Table with revised set indicators

Table 3.4.1 Indicators related to state and trends in Europe's biodiversity

Policy question	Indicator title & sub indicators	DPSIR	S/M/L	Other issues/sectors
What is the state and trends of biodiversity? Will the loss of biodiversity be halted 2010?	BDIV1 Habitat diversity BDIV1a State of 10 main EUNIS habitats types per biogeographic region and per country BDIV1b Change of 10 main EUNIS habitats types per biogeographic region and per country (including agro-ecosystems) BDIV1c Percentage and trends in wilderness areas by country, biogeographic region, Europe BDIV1d Naturalness of Forests	S	ST MT MT ST	MCPFE 4.3
	BDIV2 Species diversity BDIV2a Species richness in proportion to surface area of the countries BDIV2b Species richness in proportion to surface area of biogeographic regions BDIV2c Species richness by main 10 main EUNIS habitats types BDIV2d Tree species composition in forests BDIV2e Changes in species composition in wetlands BDIV2f Endemic Species richness in proportion to surface area of biogeographic regions BDIV2g Trends of species groups (carnivores, raptors, geese, species of economic interest...) BDIV2h Trends of representative selection of species associated with different ecosystems (including agro-ecosystems)	S	ST ST MT ST ST MT ST/MT ST/MT	Agriculture MCPFE 4.1 Agriculture
	BDIV3 Threatened species BDIV3a Number of threatened taxa occurring at different geographical levels BDIV3b Number of globally threatened species endemic to Europe BDIV3c Percentage of globally threatened species per biogeographic region BDIV3d Percentage of European threatened species per biogeographic region BDIV3e Threatened forest species	I	ST ST ST MT ST	MCPFE 4.8
	BDIV4 Genetic diversity BDIV4a Forest Genetic resources BDIV4b Wild relatives of cultivated plants BDIV4c Crops and breed genetic diversity	S	ST ST ST	MCPFE 4.6 Agriculture
	BDIV5 Threats to ecosystems BDIV5a Threats in and around wetland sites	I	ST/MT	

of biodiversity? Will this change?	BDIV6 Landscape changes		LT	MCPFE 4.7
	BDIV6a Landscape-level spatial pattern of forest cover		LT	Agriculture
	BDIV6b Diversity of linear features and diversity of crops in farmlands			
	BDIV7 Introduced and invasive species	I		
	BDIV7a Percentage of introduced species that have become invasive per biogeographic region		MT	
	BDIV7b Spread of invasive selected species over time		MT	
	BDIV7c Introduced tree species		MT	Agriculture
	BDIV7d Introduced species in fresh surface waters		ST	
	WEC8b Introduced species in marine and coastal waters		ST	

Indicators with lighter fonts are used in other lists.

Table 3.4.2 Indicators related to conservation and restoration of Europe's biodiversity

Policy question	Indicator title & sub indicators	DPSIR	S/M/L	Other issues/sectors	
What measures are taken to conserve or restore biodiversity?	BDIV8 Protection of threatened species BDIV8a Proportion of globally threatened fauna species protected by European instruments (EC Directives and Bern Convention) BDIV8b Proportion of known species present in Europe protected by European instruments BDIV8c Proportion of species only present in Europe protected by European instruments BDIV8d Progress in implementation of action plans for globally threatened species BDIV8e Funds spent through LIFE Nature projects for species and habitats	R	ST ST S ST ST		
	BDIV9 Restoration BDIV9a Total area of wetlands (and other ecosystems types) reclaimed by country, biogeographic region, Europe	R	MT		
	BDIV10 Designated areas BDIV10a Cumulated area of sites over time under international conventions and initiatives BDIV10b Cumulated area of sites proposed over time under EU Directives BDIV10c Proportion of sites under EU Directives already protected under national instruments BDIV10d Cumulated area of national designated areas over time in Pan-Europe	R	ST ST ST ST		
	Are these measures effective in reaching the objectives?	BDIV11 Species diversity in designated areas BDIV11a Bird species distributions and Special Protection Areas (SPAs) coverage BDIV11b Range of Species of European Interest or Threatened Species present in designated areas BDIV11c Trends of selected species population within and outside designated areas	R	ST MT MT	
		BDIV12 Habitat diversity in designated areas BDIV12a Percentage (in surface area) of Annex I habitat-type included in potential Sites of Community Interest (pSCIs) BDIV12b Change (in surface area) of Annex I habitat-type included in pSCIs BDIV12c Range of Habitats of European Interest present in designated areas	R	ST MT MT	
		BDIV13 Human impacts on designated areas BDIV13a Percentage of main activities reported in pSCIs BDIV13b Agricultural land in designated areas TELC13 Land cover changes in the surroundings of designated areas	I	ST MT MT	Agriculture

Table 3.4.3 Indicators related to integration of biodiversity issues into sectorial policies

Policy area/sector	Indicator title & subindicators	DPS	S/M/L	Other issues/sectors
Agriculture	<p>See also: BDIV1a State of 10 main EUNIS habitats types per biogeographic region and per country BDIV1b Change of 10 main EUNIS habitats types per biogeographic region and per country (including agro-ecosystems) BDIV2h Trends of representative selection of species associated with different ecosystems (including agro-ecosystems) BDIV4b Wild relatives of cultivated plants BDIV4c Crops and breed genetic diversity BDIV13b Agricultural land in designated areas</p>			Agriculture
Forestry	<p>BDIV14 Deadwood</p>	S	LT	MCFPE 4.5
	<p>See also: BDIV1d Naturalness of Forests BDIV2d Tree species composition in forests BDIV2e Changes in species composition BDIV3e Threatened forest species BDIV4a Forest Genetic resources BDIV6a Landscape-level spatial pattern of forest cover BDIV7c Introduced tree species</p>			
Climate Change	<p>CC8b Plant phenology</p>	I	ST	Climate change
	<p>CC8c Animal phenology</p>	I	MT	
	<p>CC8d Species responses CC9d1 Demographic parameters and population levels CC9d2 Migration routes CC9d3 Geographic distribution, altitude range</p>	I	LT MT MT	
	<p>CC8e Ecosystem responses CC9e1 Ecosystem and community structure (ACC5.5) CC9e2 Ecosystem functions</p>	I	LT LT	
Transports	<p>BDIV15 Impacts of transports on biodiversity BDIV15a Number of individuals per main fauna species group killed on roads per length per year</p>	I	LT	Transport
	<p>BDIV15b Number of fauna passages per infrastructure length unit</p>	R	MT	Transport
	<p>BDIV15c Financial investment for fauna passages</p>	R	MT	Transport
Fishery	<p>FISH4a Fisheries impact on habitats and ecosystems</p>		LT	Fisheries
	<p>FISH2f Accidental catch: birds, mammals, and turtles</p>		MT	
	<p>WEC07 impact of aquaculture</p>		ST	

Indicators with lighter fonts are used in other lists.

3.5 Terrestrial environment

Table 3.5.1: Main terrestrial environment indicators and sub-indicators.

Environmental issue TExx Indicator title	ST/ MT/ LT	Fact sheet	related sectors/ issues
Soil pollution			
TEP1 Soil contamination from localized sources	ST	Y	Industry, Waste, Water, Health
TEP1a Progress in management of contaminated sites	ST	Y	
TEP1b Expenditures on contaminated sites remediation	ST	Y	
TEP1c Risk of contamination of surface and groundwater from contaminated sites	MT	N	
TEP2 Heavy metal accumulation in soil	MT	N	Air pollution
TEP3 Soil contamination by pesticides	LT	N	Agriculture
TEP4 Application of sewage sludge on agricultural land	LT	N	Waste
Soil erosion			
TES1 Soil erosion risk	ST	N	Agriculture
TES1a Loss of organic matter in top soils	MT	N	
TES1b Actual soil erosion	LT	N	
Land use and land cover changes			
TELC1 Land cover changes in the surroundings of designated areas	ST	Y	Biodiversity, Transport
TELC1a Proximity of transport infrastructure to designated areas	ST	Y	
TELC2 Fragmentation of ecosystems and habitats by transport infrastructure	ST	Y	Biodiversity, Transport
TELC3 Soil sealing	MT	N	Transport
TELC3a Land take by transport infrastructure	MT	N	
TELC4 Agriculture land cover changes	MT	N	Agriculture
TELC5 Landscape diversity	MT	N	Agriculture
Urban environment			
TEU1 Urban sprawl	MT	N	Agriculture, biodiversity
TEU2 Redevelopment of brownfields for new urban uses	MT	N	Waste, Industry
TEU3 Citizen access to nearby public open areas	LT	N	Health
Coastal environment			
TECO1 Pressures on coastal ecosystems	MT	N	Biodiversity
TECO2 Change in coastal erosion patterns	MT	N	Water
TECO3 Progress in coastal management / ICZM	MT	N	Water
Natural hazards			
TENH1 Area affected by flooding	ST	N	Climate change

3.6.1 Water quantity

Overview of indicators related to water quantity

Table 3.6.1 Water quantity indicators in relation to policy questions.

Generic question	Policy question	Indicator title	DPSIRS/M/L		Other issues/sectors
Are the abstractions from our water resources sustainable over the long term?	Are we using less water? Are some areas of Europe facing unsustainable trends regarding water resources (i.e. overexploitation)?	WQ1 Water exploitation index WQ1a Freshwater resources WQ1b Total water abstraction WQ1c Water exploitation index	P	ST	
Is the water use by socio-economic sectors sustainable?	In which sector is water consumption increasing/decreasing?	WQ2 Water use by sectors	P	ST	(Tourism)
	Is agricultural production becoming less water intensive?	AGRI1 Agricultural water consumption WQ2a Water use by agriculture	D	ST	Agriculture
	Is industrial production more water efficient?	WQ2b Water use by industry	P	MT	
	Are the households reducing the water use?	WQ2c Water use by households	P	ST	
	Is the tourism sector reducing water use?	WQ2d Water use by tourism	P	LT	Tourism
	What are the impacts of climate change on water resources?	CC10 River discharge CC6a Precipitation	I	MT ST	Climate change
Is water stress due to water abstractions being reduced?	Are there indications of negative trends in water resources (e.g. river flows, aquifer levels, storage reservoir levels)?	WQ3a Groundwater levels WQ4 Overall reservoir stocks	I	LT	Agriculture
	Are there indications of low water availability/reduced water quality?	WQ3b Saltwater intrusion	S	MT	
	Are water prices and water saving technologies used as a tool for water conservation?	Is water pricing used as a tool for more efficient uses of water? Are water conservation tools used?	WQ5 Water prices WQ6 Efficiency of water use WQ7 Water Leakage	R	MT

Indicators with lighter fonts are used in other lists.

3.6.2 Nutrients and pollution with oxygen consuming substances

Overview of indicators related to nutrients and organic matter pollution

Table 3.6.2 Nutrient and organic pollution indicators in relation to policy questions.

Generic question	Policy question	Indicator title	DPSIR	S/M/L	Other issues/sectors
Are nutrients and organic pollution decreasing?	Are we reducing the impact of nitrate on our groundwaters?	WEU1 Nitrate in groundwater	S	ST	Agriculture
	Are nutrients concentrations in our surface waters decreasing?	WEU2 Nutrients in rivers	S	ST	Agriculture
		WEU3 Phosphorus in lakes	S	ST	
		WEU4 Nutrients in coastal waters	S	ST	
	Are indicators of pollution with organic matter decreasing ?	WEU5 BOD and Ammonium in rivers	S	ST	
Are discharges of nutrients and organic matter from socio-economic sectors decreasing?	In which sector are discharges of organic substances and nutrients increasing/decreasing?	WEU6 Sources of nitrogen and phosphorus	P	MT	
		WEU7 Loads (riverine and direct) of nutrients to coastal waters	P	MT	
		APD13c Atmospheric deposition of nitrogen to marine and coastal waters	P		Air pollution
	Is water pollution caused by nitrates from agricultural sources being reduced?	AGRI2a Nutrient balance and surplus for agricultural soils	P		Agriculture
	Are discharges from urban wastewater treatment plants (households and small industries) being reduced?	WEU8 Emissions of organic matter	P	MT	
WEU9 Emissions of nutrients from UWWT plants		P	MT		
Are we enhancing the status of the aquatic ecosystems and lowering the adverse effects of organic pollution and eutrophication?	Is the water intended for human consumption wholesome and clean?	WEU10 Drinking water quality	I	MT	
	Is bathing water quality improving?	WEU11 Bathing water quality	I	ST	(Tourism)
	Is the state regarding eutrophication of Europe's lakes, rivers and seas improving?	WEU12 Eutrophication indicators (chlorophyll, Secchi depth) in lakes	S	MT	
		WEU13 Chlorophyll in transitional, coastal and marine waters	S	ST	
		WEU14 Phytoplankton algae in transitional and coastal waters WEU14a Harmful algae blooms WEU14b Diatom/flagellate ratio	I	MT ST LT	

		WEU15 Frequency of low bottom oxygen in coastal and marine waters	I	MT	
How effective are existing policies in reducing loading of nutrients and organic matter?	Is the Urban Waste Water Treatment Directive being implemented in Member States?	WEU16 Urban waste water treatment	R	ST	Tourism
	Is the Nitrates Directive being implemented in Member States including codes of good agricultural practices and action programmes?	AGRI17 Implementation of Nitrate Directive	R	ST	Agriculture

Indicators with lighter fonts are used in other lists.

3.6.3 Hazardous substances

Overview of indicators related to hazardous substances

Table 3.6.3 Hazardous substance indicators in relation to policy questions.

Generic question	Policy question	Indicator title	DPSIRS	M/L	Other issues/sectors
Are we reducing pollution of waters with hazardous substances?	Are we reducing the impact of pesticides/haz.substances on our groundwater?	WHS1 Hazardous substances in groundwater WHS1a Pesticides in groundwater WHS1b other hazardous substances in ground water	S	MT MT	Agriculture
	Are we eliminating hazardous substance pollution of Europe's lakes, rivers and seas?	WHS2 Hazardous substances in rivers	S	MT	Agriculture
	Are some areas of Europe facing negative trends regarding hazardous substances?	WHS3 Hazardous substances in lakes	S	LT	
		WHS4 Hazardous substances in transitional, coastal and marine waters	S	(LT)	
		WHS5 Hazardous substances in marine sediment	S	(LT)	
		WHS6 Hazardous substances in marine organisms	S	ST	
Are discharges of hazardous substances from socio-economic sectors decreasing?	In which sector are discharges of hazardous substances increasing/decreasing?	WHS7 Loads of hazardous substances to coastal waters	P	MT	
		APD13e Atmospheric deposition waters of heavy metals and persistent organic pollutants (POPs) to marine and coastal waters	P		Air pollution
	Is there an overall reduction in the risk associated with the use of pesticides?	AGRI8a Use of pesticides AGRI8b Pesticide risk indicator	P	ST LT	Agriculture
	Are the discharges of hazardous substances from point sources being reduced?	WHS8 Emissions to water of hazardous substances from industry	P	MT	
		WHS9 Emissions to water of hazardous substances from urban waste water treatment plants	P	MT	
	Are we reducing operational discharges from oil installations and ships and eliminating illegal discharges from these sources?	WHS10 Discharge of oil from refineries and offshore installations	P	ST	Energy, transport
		WHS11 Accidental oil spills from marine shipping	P	ST	Energy, transport
		WHS12 Illegal discharges of oil at sea	S	ST	Energy, Transport

Are the levels of hazardous substances so that they do not give rise to unacceptable impacts on, and risks to, human health and the environment?	Are the water intended for human consumption (drinking water) wholesome and clean (free of hazardous substances such as pesticides and lead)?	WEU10 Drinking water quality	I	ST	
	Is the number of locations with less than good (ecological/chemical) status due to pollution by hazardous substances decreasing?	WHS13 Non-compliance with EU Environmental Quality Standards	I	LT	
	Are there indications of negative trends in the aquatic ecosystem due to contamination by hazardous substances?	WHS14 Biological effects of hazardous substances on organisms	I	LT	
		WHS15 Oiled seabirds	I	LT	
How effective are existing policies in reducing pollution with hazardous substances?	Are the emissions, discharges and losses of priority hazardous substances ceased or phased out?	<i>Indicators on Loads of hazardous substances into waters do also include policy evaluation</i>	R		

Indicators with lighter fonts are used in other lists.

3.6.4 Ecological quality

Overview of indicators related to ecological quality

Table 3.6.4 Ecological quality indicators in relation to policy questions.

Generic question Policy question	Indicator title	DPSI R	S/M/L	Other issues/ sectors
Are we enhancing the status of the aquatic ecosystems?	WEC1 Biological quality of transitional waters WEC1a Phytoplankton WEC1b Benthic invertebrate fauna WEC1c Macrophytes and macroalgae WEC1d Fish WEC1e Classification of transitional waters (eventually ecological status classification)	S	LT	Fisheries
	WEC2 Biological quality in coastal waters WEC2a Phytoplankton WEC2b Benthic invertebrate fauna WEC2c Macrophytes and macroalgae WEC2d Classification of coastal waters (eventually ecological status classification)	S	LT	
	WEC3 Aquatic habitat quality WEC3a Quality of river habitats WEC3b Quality of lake habitats WEC3c Quality of transitional waters WEC3d Quality of coastal habitats	S	LT	
	WEC4 Biological quality in rivers WEC4a Phytoplankton/phytobenthos WEC4b Benthic invertebrates WEC4c Macrophytes WEC4d Fish WEC4e Classification of rivers (eventually ecological status classification)	S	LT	
	WEC5 Biological quality in lakes WEC5a Phytoplankton/phytobenthos WEC5b Benthic invertebrates WEC5c Macrophytes WEC5d Fish WEC5e Classification of lakes (eventually ecological status classification)	S	LT	
	WEC6 Biological quality of marine waters CC9f Plankton distribution change CC6b North Atlantic Oscillations	S	LT ST ST	Fisheries Climate change Climate change
	WEC7 Introduced and invasive aquatic species BDIV7d Introduced species in fresh surface waters WEC7a Introduced species in marine and coastal waters	I	ST ST ST	Biodiversity Fisheries
How effective are existing policies in improving the ecological quality?	WEC8 Implementation of EU Water Policies	R	MT	
	TECO3 Progress in coastal zone management (Integrated Coastal Zone Management)	R	MT	Terrestrial

Indicators with lighter fonts are used in other lists.

3.7 Waste and material flows

Table 3.7.1: Material flow indicators related to policy questions.

Policy question	Indicator title	DPSIR	S/M/L	Other issues/sectors
I.a) Are we reducing the use of the resources of concern?	WMF1a Total Material Requirement (TMR) by main resource categories WMF1b Direct Material Input (DMI) WMF1d Direct Material Consumption (DMC)		MT ST ST	
I.b) Are we decoupling resource use from economic growth?	WMF1c Resource productivity (GDP/DMI)		ST	
I.c) Are we reducing environmental pressures associated with the extraction of resources?	WMF3 Waste generation from total resource extraction		MT	
I.d) How effective are policies aimed at using resources more sustainable?	WMF4 Indicator of "shifting environmental burden" ¹		MT	

¹ This indicator should provide insight into the recent tendency in the industrialised nations to diminish certain activities (e.g. mineral extraction, manufacturing of semi-processed products etc.), and meet the demand by imports rather than by domestic production. This may result in preventing related environmental problems from occurring in the consumer country, as the most polluting activities take place in the exporting country (i.e., burden shifting).

Table 3.7.2: Waste generation indicators related to policy questions.

Policy question	Indicator title	DPSIR	S/M/L	Other issues/ sectors
II.a) Is the quantity of priority waste streams (streams 'targeted' by EU policy documents) decreasing?	WMF5 Total waste WMF5a Total generation of waste		MT	
	WMF6 Municipal waste WMF6a Generation of municipal waste WMF6b Waste generated by tourism		ST LT	Tourism
	WMF7 Generation of industrial waste		MT	
	WMF8 Generation of construction and demolition waste		LT	
	WMF9 Generation of packaging waste		ST	
	WMF10 Generation of waste from electrical and electronic equipment		LT	
	WMF11 Generation of waste from end-of-life vehicles		ST	Transport
	WMF12 Generation of waste oils and tyres		ST/MT	Transport
	WMF13 Generation of hazardous waste		MT	
	II.b) Are we de-coupling waste generation from economic growth?	WMF5b Waste intensity (total waste generated per unit of GDP)		MT
II.c) Is the content of dangerous substances in priority waste streams decreasing?	WMF14 Content of dangerous substances in products which end up in priority waste streams (ratio to total material content)		LT	
II.d) How effective are policies aimed to prevent waste generation?	<i>Indicator to be defined</i>			

Table 3.7.3: Indicators on management of waste related to policy questions?

Policy question	Indicator title	DPSIR	S/M/L	Other issues/ sectors
III.a) Are we improving the recovery of waste?	WMF15 Waste recovery by operation categories and waste stream: Sewage sludge, waste tyres, paper and cardboard, glass, municipal waste and packaging waste		MT/LT	
III.b) Are we disposing waste in a sustainable way?	WMF16 Waste disposal WMF16a Waste disposal (total and by operation categories) WMF16b Waste disposal specific waste streams		MT MT/LT	
	TEP4 Application of sewage sludge on agricultural land		LT	Terrestrial, agriculture

III.c) Are we reducing the environmental pressures from waste recovery and disposal?	CC5j GHG emissions from waste recovery and disposal		LT	Climate change
	WMF17 Land use associated with waste recovery and disposal		LT	
	WMF17a Land use for landfills		LT	Terrestrial
	WMF18 Leachate formation from landfills		LT	
	TEP1c Risks of contamination of surface and groundwater from contaminated sites			Terrestrial
III.d) Is the transportation of waste being minimised?	WMF19 Total amount of waste transported for disposal (tonne km)		LT	
	WMF20 Transboundary movements of waste			
	WMF20a Transboundary movements of hazardous waste		MT	
	WMF20b Transboundary movements of total waste		LT	
III.e) Are the current and future (planned) waste management capacities sufficient?	WMF21 Treatment capacity			
	WMF21a Treatment capacity (amount of waste)		LT	
	WMF21b Treatment capacity number of facilities		MT	
III.f) What are the costs and benefits of waste management?	WMF22 Waste management costs per ton by treatment category		LT	
III.g) How effective are policies aimed at managing waste more sustainable?	<i>Indicator to be defined</i>			

Indicators with lighter fonts are used in other lists.

4. Sector-environment indicators

4.2 Agriculture

Table 4.2.1 Agricultural indicators in relation to policy questions.

Generic question	Policy question	Indicator title	DPSIRS/M/L		Other sectors/sectors	
Is the environmental impact of agriculture improving?	How are emissions from agriculture developing?	APE7b Agriculture ammonia emissions		ST	Air pollution	
		AGRI1 Surface nutrient balance		ST	(Water Terrestrial)	
		CC5i Agriculture GHG emissions		ST	Climate change	
	What is the impact of agriculture on key environmental resources?	What is the link of agriculture to landscapes and biodiversity?	TES1a Soil erosion		LT	Terrestrial
			WQ3a Ground water levels		MT	Water
			TES2 Loss of organic matter content of soils		MT	Terrestrial
			WEU1/WEU2/WHS1/WHS2 Nitrates/pesticides in water		ST	Water
			TELC5 landscape diversity		MT	Terrestrial
	Is the efficiency of the sector improving?	Is the resource use efficiency of agriculture improving?	BDIV2c Species richness		MT	Biodiversity
			AGRI4 High nature value farming areas		MT	Biodiversity
			AGRI1 Agriculture water consumption		ST	Water
	How is the size and shape of agriculture developing (including technological advances)?	What are key trends in agricultural production systems?	AGRI7 Fertiliser consumption		ST	(Water)
AGRI8a Use/consumption of pesticides				ST	Water	
AGRI8b Pesticide risk indicator				LT		
BDIV4 Genetic diversity				MT	Biodiversity	
AGRI5 Production of renewable energy				MT	(Energy)	
AGRI6 Organic farming area				ST		
AGRI9 Cropping/livestock patterns				MT		
What is the progress in economic integration?	What policy and market incentives are available to encourage environmentally friendly farm management?	AGRI10 Diversification		MT		
		TELC4 Land cover change		MT	Terrestrial	
		AGRI12 Area planted with GMO crops		MT		
What is the progress in management integration?	How widespread is the use of environmental policy measures and	AGRI13 Area enrolled in agri-environment schemes		ST		
		AGRI14 Organic farming market share		LT		
		AGRI15 Environmental elements of CAP spending		ST		
What is the progress in management integration?	How widespread is the use of environmental policy measures and	AGRI16 Farm management practices		LT		
		BDIV13b Agricultural land in designated areas		MT	Biodiversity	
		AGRI17 Nitrate Directive Implementation		ST	Water	

	farm management knowledge?	AGRI11 Use of cross-compliance instrument		MT	
		AGRI18 Environmental training of farmers		LT	

4.2 Energy

Table 4.4.1 Energy indicators in relation to policy questions.

Generic question	Policy question	Indicator title and definition	DPSIR	S/M/L	Other issues/sectors
Is the environmental performance of the sector improving?	Is the use of energy having less impact on the environment?	Emissions of GHG CC5c Energy-related greenhouse gas emissions CC5d Energy-related carbon dioxide emissions CC5e Energy-related carbon intensity CC5f Emission of CO2 from conventional thermal power production CC5g Emissions of CO2 from public electricity production	P	ST	Climate change
				ST	
				ST	
				ST	
				ST	
				ST	
		Other air emissions APE5b Energy related SO2 emissions APE5c SO2 emissions intensity from power production APE5d SO2 emissions from public electricity production APE6b Energy related NOx emissions APE6c Emissions intensity of NOx from power production APE6d Emissions of NOx from public electricity production APE8b Energy related NMVOC emissions APE9c Energy-related particulate emissions	P	ST	Air pollution
				ST	
				ST	
				ST	
				ST	
				ST	
				ST	
				ST	
				ST	
				ST	
		EE15 Nuclear waste		ST	Waste
		WHS11 Accidental oil spills from marine shipping (EN16)		ST	Water
		WHS10 Discharge of oil from refineries and offshore installations (EN17)		ST	Water
	Are we using less energy?	EE18 Final energy consumption by sectors		ST	Transport Agriculture Tourism

		EE19 Electricity consumption		ST	
Is the efficiency improving?	How rapidly is energy efficiency being increased?	EE20 Total energy intensity		ST	
		EE21 Efficiency of electricity supplied by fossil fuels		ST	
		EE22 Share of electricity produced by combined heat and power		ST	
		EE23 Final energy intensity		ST	
How are the size and the shape of the sector developing?	Are we switching to less polluting fuels to meet our energy needs?	EE24 Total energy consumption by fuel		ST	
		EE25 Electricity production by fuel		ST	
	How rapidly are renewable energy technologies being implemented?	EE26 Total energy consumption by renewable energy source		ST	
		EE27 Share of renewable electricity in gross electricity consumption		ST	
What is the progress in economic integration?	Are we moving towards a pricing system that better incorporates environmental costs?	EE28 End-user (Final) energy prices (inclusive of taxes) by economic sector		ST	
		EE29 Energy Taxes		ST	
		EE30 The external costs of electricity production		ST	
		EE31 Energy subsidies by fuel type		ST	
		EE32 Energy-related research and development expenditure		ST	

Indicators with lighter fonts are used in other lists.

4.3 Transport

Table 4.5.1 Transport indicators in relation to policy questions

Generic question	Policy question	Indicator title	DPSIR	S/M/L	Other Sectors/issues
Is the environmental performance of the sector improving (use of space, emissions, resource use)?	Is the environmental performance of the transport sector improving?	TERM01 Transport final energy consumption by mode (EN18)	D	ST	Energy
		CC5h Transport emissions of greenhouse gases by mode (TERM 02)	P	ST	Climate change
		APE4a Transport emissions of air pollutants (NO _x , NMVOCs, PM ₁₀ , SO _x) by mode (TERM 03)	P	ST	Air pollution
		APQ12 Exceedances of air quality objectives (TERM 04)	S	MT	Air pollution
		TERM05 Exposure to and annoyance by traffic noise	S/I	LT	
		TELC2 Fragmentation of ecosystems and habitats by transport infrastructure (TERM 06)	P	ST	Terrestrial
		BDIV15 Impacts of transports on biodiversity BDIV15a Number of individuals per main fauna species group killed on roads per length per year BDIV15b Number of fauna passages per infrastructure length unit BDIV15c Financial investment for fauna passages	P	LT MT MT	Biodiversity
		TELC1a Proximity of transport infrastructure to designated areas (TERM 07)	P	ST	Terrestrial
		TELC3a Land take by transport infrastructure (TERM 08)	P	MT	Terrestrial
		TERM09 Number of transport accidents, fatalities and injured (land, air and maritime)	I	ST	
		WHS11 Accidental oil spills from marine shipping & WHS12 Illegal discharges of oil at sea (TERM 10)	P	ST	Water
		WMF11 Generation of waste from end-of-life vehicles (TERM 11a)	P	ST	Waste
		WMF12 Waste oil and tyres from vehicles (TERM 11b)	P	MT	Waste
How is the size and shape of the sector developing (including technological advances)?	Are we getting better at managing transport demand and at improving the modal split?	TERM12 Passenger transport demand by mode and purpose	D	ST	
		TERM13 Freight transport demand by mode and group of goods	D	ST	

	Are spatial and transport planning becoming better coordinated so as to match transport demand to the needs of access?	TERM14 Access to basic services (average passenger journey time and length per mode, purpose and location)	D	MT	
		TERM15 Regional accessibility of markets and cohesion	D	MT	
		TERM16 Access to transport services	D	MT	
	Are we optimising the use of existing transport infrastructure capacity and moving towards a better-balanced intermodal transport system?	TERM18 Capacity of infrastructure networks	D	MT	
		TERM19 Investments in transport infrastructure per capita and by mode	D/R	ST	
	How rapidly are improved technologies being implemented and how efficiently are vehicles being used?	TERM27 Overall energy efficiency and specific CO ₂ emissions for passenger and freight transport (per passenger-km and per tonne-km and by mode)	P/D	ST	
		APE4b Emissions per passenger-km and per tonne-km for NO _x , NMVOCs, PM ₁₀ , SO _x by mode (TERM 27)	P/D	ST	
		TERM29 Occupancy rates for passenger vehicles	D	MT	
		TERM30 Load factors for freight transport	D	MT	
		TERM31 Uptake of cleaner and alternative fuels	D	ST	
TERM 32 Size of the vehicle fleet		D	ST		
TERM 33 Average age of the vehicle fleet		D	ST		
	TERM 34 Proportion vehicle fleet meeting certain emission standards	D	ST		
What is the progress in economic integration?	Are we moving towards a fairer and more efficient pricing system, which ensures that external costs are	TERM20 Transport prices (real change in passenger and freight transport price by mode)	D	ST	
		TERM21 Fuel prices and taxes	D/R	ST	
		TERM 22 Transport taxes and charges	R	ST	
		TERM24 Expenditure on personal mobility by income group	D	ST	
		TERM25 External costs of transport	INFO	ST	

	recovered?	TERM26 Internalisation of external costs	R	ST	
What is the progress in management integration?	How effectively are environmental management and monitoring tools being used to support policy- and decision-making?	TERM35 Number of Member States that implement an integrated strategy		ST	
		TERM36 Institutional cooperation in transport and environment		ST	
		TERM 37 Number of Member States with a national transport and environment monitoring system		ST	
		TERM38 Uptake of Strategic Environmental Assessment in the transport sector		ST	
		TERM40 Public awareness and behaviour		ST	

Indicators with lighter fonts are used in other lists.

5. Relation to other issues

5.2 Environment and health

Table 5.2.1 Indicators related to environment and health in the EEA core set.

APQ11 Exceedance days of air quality target in urban areas	
APQ11a Exceedance days of SO ₂ target in urban areas	ST
APQ11b Exceedance days of NO ₂ target in urban areas	ST
APQ11c Exceedance days of PM ₁₀ target in urban areas	ST
APQ11d Human exposure to O ₃ exceedance	ST
APQ11e Exceedance days of CO target in urban areas	ST
APQ11f Exceedance days of benzene target in urban areas	MT
APQ12 Exceedances of air quality objectives due to traffic	MT
OD4 Average ozone column	ST
CC12 Impacts on human health	
CC12a Seasonal Change of allergenic pollen (onset and duration)	ST
CC12b Vector-borne diseases (e.g. encephalitis) (distribution)	ST
CC12c Deaths (number of) due to heat waves	MT
CC12d Deaths (number of) due to floods	ST
CC12e Food and water-borne diseases (distribution)	MT
TENH1 Area affected by flooding	ST
WEU10 Drinking water quality	MT
WEU11 Bathing water quality	ST
WEU14 Phytoplankton in transitional and coastal waters	
WEU14a Harmful algae blooms	MT
WHS13 Non-compliance with EU Environmental Quality Standards	ST
TERM05 Exposure to and annoyance by traffic noise	LT
TERM09 Number of transport accidents, fatalities and injured (land, air and maritime)	ST

5.3 Chemicals and hazardous substances

5.3.1 Indicators related to chemicals and hazardous substances in the EEA core set.

APE10 Emissions Heavy metals and POPs (total & by sector)	MT
APQ11 Exceedance days of air quality target in urban areas	
APQ11f Exceedance days of benzene target in urban areas	MT
APQ11g Human health exposure and risk by air pollutants	MT
APQ12 Exceedances of air quality objectives due to traffic	MT
APD13 Ecosystem exposure to exceedance of critical levels and loads	
APD13e Atmospheric deposition waters of heavy metals and persistent organic pollutants (POPs) to marine and coastal waters	LT
TEP2 Heavy metal accumulation in soil	MT
TEP3 Soil contamination by pesticides	LT
TEP1 Soil contamination from localised sources	ST
TEP1a Progress in management of contaminated sites	ST
TEP1b Expenditures on contaminated sites remediation	ST
TEC1c Risks of contamination of surface and groundwater from contaminated sites	MT
WHS1 Hazardous substances in groundwater	
WHS1a Pesticides in groundwater	MT
WHS2 Hazardous substances in rivers	MT
WHS3 Hazardous substances in lakes	LT
WHS6 Hazardous substances in marine organisms	ST
WHS7 Loads of hazardous substances to coastal waters	MT
WHS Sources of hazardous substances	
WHS9 Emissions of hazardous substances from urban waste water treatment plants	
WHS8 Emissions of hazardous substances from industry	
WHS Emission from sea-based sources	
WMF13 Generation of hazardous waste	MT
WMF14 Content of dangerous substances in products which end up in priority waste streams (ratio to total material content)	LT
WMF20a Transboundary movements of hazardous waste	ST
AGRI7 Pesticide consumption	
AGRI8a Use/consumption of pesticide	ST
AGRI8b Pesticide risk indicator	MT
AGRI12 Area planted with GMO crops	LT

5.4 Households

Table 5.4.1 Indicators related to households and consumption in the EEA core set.

Indicator title & sub-indicators	S/M/L
APE1 Emissions acidifying pollutants (total & by sector)	ST
APE2 Emissions ozone precursors (total & by sector)	ST
APE5a Emissions SO ₂ (total & by sector)	ST
APE6a Emissions NO _x (total & by sector)	ST
APE7a Emissions NH ₃ (total & by sector)	ST
APE8a Emissions NMVOC (total & by sector)	ST
APE9a Emissions primary and secondary PM ₁₀ (total & by sector)	ST
APE10 Emissions Heavy metals and POPs (total & by sector)	MT
CC5 Emissions by pollutant and by sector	
CC5a Emissions of carbon dioxide (CO ₂) and non-CO ₂ (N ₂ O, CH ₄ , fluorinated gases)	ST ST
CC5b Emissions of key source sectors (energy, transport, industry, agriculture, waste) by country	
CC13b Projected emissions of key source sectors (energy, transport, industry, agriculture, waste)	
WQ2 Water use by sectors	
WQ2a Sectoral split of water use & water consumption	MT
WQ2d Water use by households	MT
WQ2e Water use by tourism	LT
WQ5 Water prices	MT
WQ6 Efficiency of water use	MT
WQ7 Water Leakage	MT
WEU7 Loads of nutrients to water	MT
WEU8 Emissions of organic matter	MT
WEU9 Emissions of nutrients	MT
WEU16 Urban waste water treatment	ST
WHS7 Sources of hazardous substances	MT
WHS9 Emissions of hazardous substances from industry	MT
WMF6 Municipal waste	
WMF6a Generation of municipal waste	ST
WMF6d Waste generated by tourism	LT
WMF9 Generation of packaging waste	ST/MT
WMF10 Generation of waste from electrical and electronic equipment	LT
AGRI14 Organic farming: market share	MT
Human consumption of fish	
FISH10a Fish consumption per capita	ST
FISH7 Quality of fish for human consumption (F & A)	ST
EE18 Final energy consumption by sectors	ST
EE20 Total energy intensity	ST
EE28 End-user (Final) energy prices (inclusive of taxes) by economic sector	ST
TERM12 Passenger transport demand by mode and purpose	ST
TERM29 Occupancy rates for passenger vehicles	MT
TERM14 Access to basic services (average passenger journey time and length per mode, purpose and location)	MT
Vehicle fleet	
TERM32 Size of the vehicle fleet	ST
TERM33 Average age of the vehicle fleet	ST
TERM34 Proportion vehicle fleet meeting certain emission standards ()	ST
EE18 Final energy consumption by sectors	ST
EE20 Total energy intensity	ST
EE28 End-user (Final) energy prices (inclusive of taxes) by economic sector	ST

Cost of transport	
TERM20Transport prices (real change in passenger and freight transport price by mode	ST
TERM21Fuel prices and taxes	ST
TERM22Transport taxes and charges	ST
Expenditure on personal mobility by income group	ST
-	

5.5 Industry

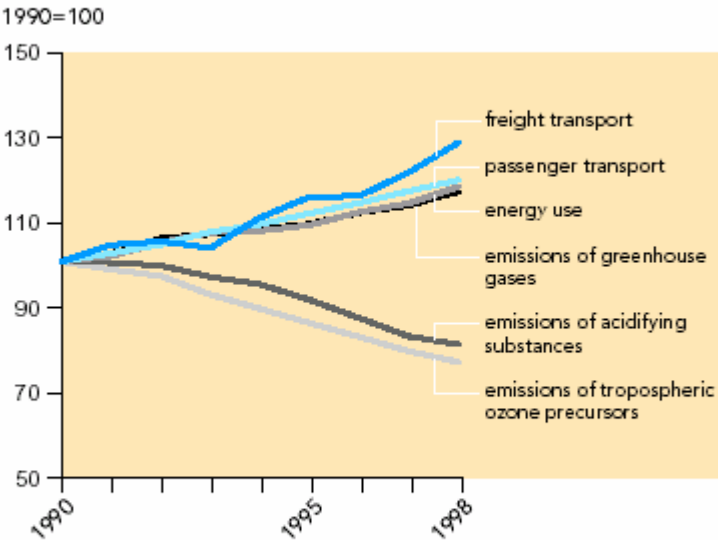
Table 5.5.1 Indicators related to industry in the EEA core set.

Indicator title & sub-indicators	S/M/L
APE1 Emissions acidifying pollutants (total & by sector)	ST
APE2 Emissions ozone precursors (total & by sector)	ST
APE5a Emissions SO ₂ (total & by sector)	ST
APE6a Emissions NO _x (total & by sector)	ST
APE7a Emissions NH ₃ (total & by sector)	ST
APE8a Emissions NMVOC (total & by sector)	ST
APE9a Emissions primary and secondary PM ₁₀ (total & by sector)	ST
APE10 Emissions Heavy metals and POPs (total & by sector)	MT
OD2 Production of ODP	ST
OD3 Sales/Consumption of ODP	ST
CC5 Emissions by pollutant and by sector	
CC5a Emissions of carbon dioxide (CO ₂) and non-CO ₂ (N ₂ O, CH ₄ , fluorinated gases)	ST ST
CC5b Emissions of key source sectors (energy, transport, industry, agriculture, waste) by country	
CC13b Projected emissions of key source sectors (energy, transport, industry, agriculture, waste)	ST
WQ2 Water use by sectors	
WQ2a Sectoral split of water use & water consumption	MT
WQ2c Water use by industry	MT
WQ5 Water prices	MT
WQ6 Efficiency of water use	MT
WEU7 Loads of nutrients to water	MT
WEU8 Emissions of organic matter	MT
WEU9 Emissions of nutrients	MT
WEU16 Urban waste water treatment	ST
WHS7 Sources of hazardous substances	MT
WHS8 Emissions of hazardous substances from industry	MT
WMF5 Total waste	
WMF5a Total generation of waste, including sectoral split	MT
WMF5b Waste intensity (total waste generated per unit of GDP)	MT
WMF7 Generation of industrial waste	LT
TERM13 Freight transport demand by mode and group of goods (TERM 13)	ST
TERM30 Load factors for freight transport (TERM 30)	MT
EE18 Final energy consumption by sectors	ST
EE20 Total energy intensity	ST
EE28 End-user (Final) energy prices (inclusive of taxes) by economic sector	ST

5.6 Eco-efficiency

Eco-efficiency is the relationship between economic activity and the associated negative environmental effects. It is a combination of indicators illustrating trends in activities (gross value added, household expenditure etc.) and indicators on pressures such as air emissions, water use etc. EEA has used sector eco-efficiency in the Environmental Signals reports (see example diagram). Table X provide an overview of the eco-efficiency indicators and its relationship to the EEA core set.

Some indicators of eco-efficiency of transport, EU15 Figure 5.1.



Note: Passenger transport includes travel by motorbike, car, bus, tram / metro, rail, water and air. Freight transport includes freight by road, rail, inland waterways, short sea shipping, oil pipelines and air.

Source: EEA, Eurostat

Table 5.6.1: Overview of EEA sector eco-efficiency indicators used in the Environmental Signal reports (2000-2002) and the code relating to the indicator in the EEA core set.

Sector		Indicator	Code
Households (Env. Signals 2002)	Production – activity	Total household expenditure Number of households	
	Pressures (including proxy indicators)	Number of cars Household energy use CO2 emissions Municipal waste generation	TERM32 EE18 CC5 WMF6
Transport (Env. Signals 2002)	Production – activity	Passenger transport Freight transport	TERM12 TERM13
	Pressures (including proxy indicators)	Energy use GHG Emissions Emission of acidifying substances Emissions of ozone precursors	TERM01 CC5h APE1 APE2
Energy Supply (Env. Signals 2002)	Production – activity	Gross value added Transformation output	
	Pressures (including proxy indicators)	GHG Emissions Emission of acidifying substances Emissions of ozone precursors	CC5c APE1 APE2
Agriculture (Env. Signals 2002)	Production – activity	Gross value added Agricultural land	
	Pressures (including proxy indicators)	Energy use GHG Emissions Emission of acidifying substances Emissions of ozone precursors Irrigated land Consumption of fertilisers Consumption of pesticides	EE18 CC5i APE1 APE2 AGRI1 AGRI7 AGRI8
Industry (Env. Signals 2000)	Production – activity	Index of production	
	Pressures (including proxy indicators)	CO2 emissions NOx emissions SO2 emissions	CC5 APE6 APE5