

CHAPTER 27 ENVIRONMENT

Owing to the fact that studies on the strategy drafted to meet the opening benchmark of the Chapter 27 are ongoing during the preparation phase of Turkish National Programme for the Adoption of the *acquis* and although studies have been carried out in parallel between the two documents, especially figures concerning financial requirements will become definite after the finalisation of the strategy paper.

Priority 27.1 Adoption of a strategy including gradual well coordinated transposition, implementation and enforcement of the acquis in this chapter, including plans for building up the necessary administrative capacity at national, regional and local level and required financial resources, with an indication of milestones and timetables

The first benchmark of the “Environment” Chapter requires preparation of a comprehensive strategy. This strategy would cover the harmonization and implementation of horizontal and framework legislation as well as the international conventions to which EU is a party.

The main pillars of the strategy are; “Institutions”, “Legislative Approximation and Implementation”, “Strengthening the Institutional Capacity” and “Financial Resources”:

- Under “Institutions” part, the institutions at national, regional and local level responsible for the environment sector, their responsibilities and inspection units are presented.
- Under “Legislative Approximation and Implementation” part, orders of the topics/subjects as in the screening report are taken into account and timetables are presented.
- “Strengthening the Institutional Capacity” pillar covers the future plans for national, regional and local levels.
- Under “Financial Resources” part, the estimated financial burden to adopt and implement the whole EU environmental *acquis* is introduced.

1 Schedule of legislative alignment

Table 27.1.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1		Strategy Document	Meeting the opening benchmarks for the chapter	Ministry of Environment and Forestry	2009

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

No institutional capacity building requirement is envisaged under this priority at this stage.

3 Financial requirements and resources

No financial requirement is envisaged under this priority at this stage.

Priority 27.2 Adoption of the National Waste Management Plan

1 Schedule of legislative alignment

Table 27.2.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directive No. 2006/12/EC	The National Waste Management Plan ¹	Preparation of “National/ Regional Waste Management Plan”, which is presented in the format given in “Preparing a Waste Management Plan- A Methodological Guidance Note” published in May 2003 by EC DG-Environment in accordance with EU <i>acquis</i> is carried out by the expert(s) experienced on the waste management plans after examining waste management plans of several member states and the outputs of previous studies.	Ministry of Environment and Forestry	2009

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

No additional institutional capacity building requirement is envisaged under this priority at this stage.

3 Financial requirements and resources

No financial requirement is envisaged under this priority at this stage.

¹ A Project has been launched and studies are underway.

Priority 27.3 Whilst strengthening the administrative capacity, continuing transposition of particularly horizontal legislation involving transboundary issues, such as Environmental Impact Assessment, framework legislation, international framework conventions, as well as legislation of Nature Protection, Water Quality, Chemicals, Industrial Pollution, Risk Management and Waste Management, to domestic law and their implementation

Sub-priority 27.3.1 Horizontal Legislation

1 Schedule of legislative alignment

Table 27.3.1.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directive No. 2001/42/EC	Implementing Regulation on Strategic Environmental Assessment (SEA) ²	In order to provide protection and sustainable use of environment, sustainable development principles have to be integrated at the preparation phase of plans and programmes which may have possible important effects on environment	Ministry of Environment and Forestry	2010
2	Directive No. 2004/35/EC	Law on Environmental Liability	According to polluter pays principle, the facilities whose activities cause environmental damage, to be liable for preventing and remedying this damage financially, related with this subject, bringing together various articles already existing in our legislation and setting new articles	Ministry of Environment and Forestry Ministry of Justice	After 2011
3	Directive No. 2003/4/EC	Implementing Regulation on Determining Rules and Procedures on Sharing Environmental Data and Information ³	Determining rules and procedures on sharing environmental data Partial compliance with Directive No. 2003/4/EC on access to environmental information	Ministry of Environment and Forestry Prime Ministry	After 2011
4	Directive No. 91/692/EC	Implementing Regulation on the Implementation of Reporting Legislation	Regulating various Directives on reporting to European Commission	Ministry of Environment and Forestry	After 2011

² Espoo Convention will be considered within the framework of full membership perspective.

³ Aarhus Convention will be considered within the framework of full membership perspective.

Table 27.3.1.1 (Continued)

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
5	Directive No. 2003/87/EC	Implementing Regulation on Emission Trading ⁴	Establishing a scheme for greenhouse gas emission allowance trading	Ministry of Environment and Forestry Ministry of Energy and Natural Resources Ministry of Industry and Trade Ministry of Finance Ministry of Public Works and Settlement Undersecretariat of Foreign Trade Capital Markets Board Undersecretariat of State Planning Organization	After 2011
6	Decision No. 280/2004/EC	Implementing Regulation on Monitoring Greenhouse Gas Emissions	Establishing a mechanism for monitoring all GHG emissions	Ministry of Environment and Forestry Ministry of Energy and Natural Resources Ministry of Transport Ministry of Agriculture and Rural affairs TURKSTAT	After 2011
7	Directive No. 2007/2/EC	Implementing Regulation which is going to Harmonize Directive on Infrastructure for Spatial Information	Establishment of the national regulatory authority in this field and of the infrastructure for the national spatial planning information/data in the country.	Ministry of Environment and Forestry	After 2011

⁴ Necessary arrangements are going to be made depending on being a party to Kyoto Protocol.

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.3.1.2

No	Requirements	Year
(Ministry of Environment and Forestry)		
1	With regard to EIA Directive (85/337/EEC amended with 97/11/EC and 2003/35/EC); <ul style="list-style-type: none"> - Strengthening the current institutional capacity for more effective implementation of Implementing Regulation on EIA - Building capacity of whole stakeholders of EIA process. - Organizing training activities on impact assessment techniques for related governmental institutions - Updating sectoral guidelines, organization of trainings on these guidelines - Strengthening the institutional capacity of EIA Training and Information Centre - Strengthening the Institutional Capacity on EIA Monitoring and Reporting - Investments on infrastructural needs (equipments, software and hardware) 	2009
2	Within the framework of Directive No. 2001/42/EC of the European Parliament and of the Council of 27 June 2001 on the assessment of the effects of certain plans and programmes on the environment (Strategical Environmental Assessment (SEA) Directive); <ul style="list-style-type: none"> - Enhancement of the current institutional structure - Enhancement of the capacities of interest groups included in the SEA process - Provision of training programmes on SEA - Preparation of sectoral guides, implementation training programmes concerning those guidelines - Raising the awareness of people and ensuring their efficient participation to the SEA - Realization of infrastructure investments (equipments, software and hardware) 	2009-2010
(General Directorate of State Hydraulic Works)		
3	For the efficient implementation of Strategical Environmental Assessment (SEA) Directive No. 2001/42/EC on institutional basis; <ul style="list-style-type: none"> - Training of personnel - Carrying out pilot studies 	2009-2010

Table 27.3.1.2 (Continued)

No	Requirements	Year
(State Planning Organization)		
4	For the efficient implementation of Strategic Environmental Assessment (SEA) Directive No. 2001/42/EC on institutional basis; - Training of personnel	2009-2010
(Ministry of Transport)		
5	For the efficient implementation of Strategic Environmental Assessment (SEA) Directive No. 2001/42/EC on institutional basis; - Training of personnel - Carrying out pilot projects	2009-2010
(Ministry of Culture and Tourism (General Directorate of Investments and Enterprises))		
6	For the efficient implementation of Strategic Environmental Assessment (SEA) Directive No. 2001/42/EC on institutional basis; - Training of personnel	2009-2010
(Ministry of Agriculture and Rural Affairs (General Directorate of Agricultural Production and Development))		
7	For the efficient implementation of Strategic Environmental Assessment (SEA) Directive No. 2001/42/EC on institutional basis; - Training of personnel - Carrying out pilot projects	2009-2010

3 Financial requirements and resources

Table 27.3.1.3.1

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
I-Investment					
Infrastructural needs for the implementation of EIA Directive (equipments, hardware and software)	2009-2011	350,000	300,000		650,000
Infrastructural requirements for the implementation of SEA directive (equipments, hardware and software)	2009-2010	291,000			291,000
Providing equipments, hardware and software for the Ministry's spatial information system (Directive No. 2007/2/EC)	2010	150,000	600,000		750,000
Implementation of the metadata service and the other INSPIRE components, integration of the data into the INSPIRE database (Directive No. 2007/2/EC)	2010	200,000	650,000		850,000
Purchase of hardware within the scope of the Project on Establishment of Environmental Information Exchange Network	2009-2010	1,625,000	4,875,000		6,500,000
II- Legislative approximation and implementation					
- Personnel					
Recruitment of personnel for EIA Studies	2009-2011	4,750,000			4,750,000
Recruitment of personnel to be employed in SEA studies	2009-2010	3,938,160			3,938,160
- Training					
Training on EIA Implementation	2009-2011		300,000		300,000
Training of all stakeholders on SEA	2009-2010		242,000		242,000

Table 27.3.1.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
Training for the users of Environmental Information System both at central and local level in the related institutions	2009-2010		150,000		150,000
Training abroad on the components of National Information and Observation Network	2009	30,000	570,000		600,000
Training on the dissemination of the use of Geographical Information System (Directive No. 2007/2/EC)	2009		200,000		200,000
Training on the implementation of European Infrastructure for Spatial Information (INSPIRE) (Directive No. 2007/2/EC)	2009		200,000		200,000
Training on remote sensing studies and projects (Directive No. 2007/2/EC)	2009		200,000		200,000
- Consultancy					
Consultancy for enhancing the institutional capacity for the purpose of implementing the SEA Directive ⁵	2009-2010		400,000		400,000
Consultancy for maintenance and development of environmental information system	2009-2010		500,000		500,000
Consultancy for preparation of legislation on access to environmental information and establishment of environmental information exchange network	2009-2010		5,000,000		5,000,000
Development of the INSPIRE based models to monitor the environmental data and variables (Directive No. 2007/2/EC)	2009		400,000		400,000

⁵ To be financed by a project titled "Assisting Turkey for the Implementation of Strategic Environmental Assessment" to be proposed under Pre-Accession Financial Assistance 2009 Programme.

Table 27.3.1.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
Consultancy for adaptation of the implementation of European infrastructure on spatial information (Directive No. 2007/2/EC)	2009		400,000		400,000
- Translation					
Translation of the related technical documents (1.000 pages) and simultaneous translation (10 times x 10 days)	2009-2010	200,000			200,000
Simultaneous translation for the effective implementation of EIA Directive (6 meetings x 5 days)	2009-2011		50,000		50,000
- Other					
Total		11,534,160	15,037,000		26,571,160

Table 27.3.1.3.2

(Euro)

Requirements (General Directorate of State Hydraulic Works)	Year	National Budget	EU sources	Other	Total
I-Investment					
II- Legislative approximation and implementation					
- Personnel					
- Training					
Training for the effective implementation of the SEA Directive	2009-2010		80,000		80,000
Study visit for observing the SEA implementation in other member states for the effective implementation of the SEA Directive	2009-2010		100,000		100,000
- Consultancy					
Pilot Project the effective implementation of the SEA Directive	2009-2010		300,000		300,000
- Translation					
Simultaneous translation for the effective implementation of the SEA Directive	2009-2010		24,000		24,000
Simultaneous translation for the effective implementation of the SEA Directive	2009-2010		48,000		48,000
- Other					
Total			552,000		552,000

Table 27.3.1.3.3

(Euro)

Requirements (Undersecretariat of State Planning Organization)	Year	National Budget	EU sources	Other	Total
I-Investment					
Infrastructural requirements for the implementation of SEA Directive (equipments, hardware and software)	2009-2010	8,000			8,000
II- Legislative approximation and implementation					
- Personnel					
Recruitments of personnel to be employed in SEA studies	2009-2010	120,000			120,000
- Training					
Training the related personnel on SEA	2009-2010		6,500		6,500
- Consultancy					
- Translation					
- Other					
Total		128,000	6,500		134,500

Table 27.3.1.3.4

(Euro)

Requirements (Ministry of Transport)	Year	National Budget	EU sources	Other	Total
I-Investment					
Infrastructural requirements for the implementation of SEA Directive (equipments, hardware and software)	2009-2010	8,000			8,000
II- Legislative approximation and implementation					
- Personnel					
Recruitments of personnel to be employed in SEA studies	2009-2010	80,000			80,000
- Training					
Training the related personnel on SEA	2009-2010		6,500		6,500
- Consultancy					
- Translation					
- Other					
Total		88,000	6,500		94,500

Table 27.3.1.3.5

(Euro)

Requirements (Ministry of Culture and Tourism (General Directorate of Investment and Enterprises))	Year	National Budget	EU sources	Other	Total
I-Investment					
Infrastructural requirements for the implementation of SEA Directive (equipments, hardware and software)	2009-2010	8,000			8,000
II- Legislative approximation and implementation					
- Personnel					
Recruitments of personnel to be employed in SEA studies	2009-2010	80,000			80,000
- Training					
Training the related personnel on SEA	2009-2010		6,500		6,500
- Consultancy					
- Translation					
- Other					
Total		88,000	6,500		94,500

Table 27.3.1.3.6

(Euro)

Requirements (Ministry of Agriculture and rural Affairs (General Directorate of Agricultural Production and Development))	Year	National Budget	EU sources	Other	Total
I-Investment					
Infrastructural requirements for the implementation of SEA Directive (equipments, hardware and software)	2009-2010	8,000			8,000
II- Legislative approximation and implementation					
- Personnel					
Recruitment of personnel to be employed in SEA studies	2009-2010	80,000			80,000
- Training					
Training the related personnel on SEA	2009-2010		6,500		6,500
- Consultancy					
- Translation					
- Other					
Total		88,000	6,500		94,500

Sub-priority 27.3.2 Waste Management

1 Schedule of legislative alignment

Table 27.3.2.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directive No. 1999/31/EC	Implementing Regulation on Landfill of Waste	Prevention or reduction of the adverse effects of waste disposal areas (landfills) on human health, greenhouse effect formation, ground water, surface water and air pollution.	Ministry of Environment and Forestry	2009
2	Directive No. 1999/31/EC	Implementing Regulation Amending the Implementing Regulation on Hazardous Waste Control	Prevention or reduction of the adverse effects of waste disposal areas (landfills) on human health, greenhouse effect formation, ground water, surface water and air pollution.	Ministry of Environment and Forestry	2009
3	Directive No. 1999/31/ EC	Implementing Regulation Amending the Implementing Regulation on Solid Waste Control	Prevention or reduction of the adverse effects of waste disposal areas (landfills) on human health, greenhouse effect formation, ground water, surface water and air pollution.	Ministry of Environment and Forestry	2009
4	Directive No. 1999/31/ EC	Implementing Regulation Amending the Implementing Regulation on Medical Waste Control	Prevention or reduction of the adverse effects of waste disposal areas (landfills) on human health, greenhouse effect formation, ground water, surface water and air pollution.	Ministry of Environment and Forestry	2009
5	Directive No. 2002/96/ EC	Implementing Regulation on Control of The Waste Electric and Electronic Equipment	Ensuring recycling, recovery and disposal of the waste electric and electronic equipment	Ministry of Environment and Forestry	2009
6	Directive No. 2006/21/ EC	Implementing Regulation on Control of Waste from Extractive Industries	Setting out the general rules, technical and administrative procedures related to prevention, minimization, collection, temporary storage, transport and disposal of the excavated soil, topsoil, waste rock, and tailings arising from extraction of the mineral resources in order to prevent or reduce any adverse effects on the environment and on human health	Ministry of Environment and Forestry	2009

Table 27.3.2.1 (Continued)

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
7	Directive No. 2000/53/ EC	Implementing Regulation on Control of End of Life Vehicles	Regulating detailed rules and principles on recycling and disposal of the end of life vehicles in an environment-friendly way.	Ministry of Environment and Forestry	2009
8	Regulation No. 1013/2006	Implementing Regulation on Waste Shipments	Establishing control regime and procedures for waste shipment; according to the waste destination and dispatch; the process to be applied in its destination, waste type and place of origin.	Ministry of Environment and Forestry	2009
9	Regulations No. 1013/2006 and 1420/1999	Implementing Regulation Amending the Implementing Regulation on Hazardous Waste Control	Establishing control regime and procedures for waste shipment; according to the waste destination and dispatch; the process to be applied in its destination, waste type and place of origin.	Ministry of Environment and Forestry	2009
10	Directive No. 78/176/ EEC	Implementing Regulation on Control of Waste from the titanium dioxide industry	Controlling the use of titanium dioxide	Ministry of Environment and Forestry	After 2011
11	Directive No. 2006/66/ EC	Implementing Regulation Amending the Implementing Regulation on Control of Used Batteries and Accumulators	Establishing the principles, policies and programmes; to ensure the production of batteries and accumulators having properties which do not harm the environment and human health, to prevent the discharge of these products directly or indirectly to any receiving media, to establish collection systems for the disposal or recovery of waste batteries and accumulators and to prepare the respective management plans. Introducing provisions on the marking and labeling of batteries and accumulators, restriction and prohibition on their production and export, separate collection, transport, recycling and disposal of waste batteries and accumulators from household wastes.	Ministry of Environment and Forestry	After 2011

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.3.2.2

No	Requirements	Year
(Ministry of Environment and Forestry)		
1	For the implementation of Waste Framework Directive (75/442/EEC), <ul style="list-style-type: none"> - Strengthening the institutional capacity of the Ministry via recruitment and training of personnel - Improvement of the infrastructure for the recycling and disposal plants' licensing procedure and training of the personnel by using training of trainers method - Establishment of a system for recording the waste collection and transport institutions which are not subject to licensing procedure - Establishment of a unit in charge of integrated waste management in local authorities and training of the personnel - Establishment of a data network for ensuring the access to information on the issues such as the amount of waste, its intermediate storage, recycling and current disposal and recycling plants - Establishment of a system for data collection and reporting - Establishment of separate collection systems for waste minimization and enhancement of recycling systems by using the most appropriate technologies - Establishment of the financing mechanism and waste management plans 	2009-2015
2	For the implementation of Directive on Incineration of Waste (2000/76/EC); <ul style="list-style-type: none"> - Strengthening the institutional capacity of the Ministry via recruitment and training of personnel - Improvement of the infrastructure for the procedures of licensing the recycling and disposal plants and training of the personnel by training of trainers method, certificating the personnel charged with the management of these plants - Establishment of a unit in charge of waste management in local authorities and training of the personnel - Establishment of a system for data collection and reporting - Establishment of the financing mechanism and waste management plans - Development of waste acceptance procedures 	2009-2015
3	For the implementation of Landfill Directive (99/31/EC); <ul style="list-style-type: none"> - Strengthening the institutional capacity of the Ministry via recruitment and training of personnel - Improvement of the infrastructure for the procedures of licensing the recycling and disposal plants and training of the personnel by training of trainers method, certificating the personnel charged with the management of these plants - Establishment of a unit in charge of integrated waste management in local authorities and training of the personnel - Establishment of a system for data collection on solid waste characterization and reporting - Establishment of the financing mechanism and waste management plans - Development of waste acceptance procedures 	2009-2015

Table 27.3.2.2 (Continued)

No	Requirements	Year
4	<p>For the implementation of the Council Regulation(1013/2006) on Shipment of Waste;</p> <ul style="list-style-type: none"> - Strengthening the institutional capacity of the Ministry via recruitment and training of personnel - Improvement of the infrastructure for the procedures of transport licensing and training of the personnel working on this matter by using training of trainers method - Establishment of a system for data collection and reporting 	2009-2015
5	<p>For the implementation of Hazardous Waste Directive (91/689/EEC);</p> <ul style="list-style-type: none"> - Enhancement of the institutional capacity of the Ministry via recruitment and training of personnel - Improvement of hazardous waste inventory and monitoring system and transfer of the most appropriate technology. - Improvement of the infrastructure for the licensing procedures of the recycling, intermediate and temporary storage plants and training of the personnel - Training of the central and provincial directorates' and the local authority's personnel - Training of industrialists and informing the public - Establishment of the financing mechanism and preparation of the waste management plans 	2009-2015
6	<p>For the implementation of the directives on special waste management (Council Directive No. 75/439/EEC on the disposal of waste oils, Council Directive No. 96/59/EC on the disposal of polychlorinated biphenyls and polychlorinated terphenyls (PCB/PCT), Council Directive No. 2006/66/EC on batteries and accumulators containing certain dangerous substances, Directive No. 2000/53/EC of the European Parliament and of the Council on end-of life vehicles, Directive No. 2006/21/EC of the European Parliament and of the Council on the management of waste from extractive industries, Directive No. 2002/96/EC of the European Parliament and of the Council on waste electrical and electronic equipment and Directive No. 2002/95/EC of the European Parliament and of the Council on the restriction of the use of certain hazardous substances in electrical and electronic equipment);</p> <ul style="list-style-type: none"> - Strengthening the institutional capacity of the Ministry via recruitment and training of personnel - Establishment of a separate collection system for special wastes - Strengthening technical capacity of the local authorities - Enhancement of special waste inventory and monitoring system and transfer of the most appropriate technology - Improvement of the infrastructure for recycling plants' licensing procedures and training of the personnel by using training of trainers method - Establishment of the financing mechanism and preparation of the waste management plans - Establishment of separate collection systems for waste minimization and enhancement of recycling systems by using the most appropriate technologies 	2009-2015

3 Financial requirements and resources

Table 27.3.2.3

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
I-Investment					
Establishment of separate collection systems for waste minimization, shipment of hazardous waste and enhancement of recycling systems, setting up a regional hazardous waste inventory and according to the inventory results establishing and managing hazardous waste disposal systems and waste incineration plants in compliance with the related directives.	2009-2015			129,000,000 ⁶	129,000,000
Management of special waste in compliance with EU Directives.	2009-2015	3,600,000	13,800,000	118,000,000 ⁷	135,400,000
Transport of municipal waste, establishment of separate collection systems for waste minimization and enhancement of recycling systems, establishment of sanitary landfills, closure of wild waste disposal areas (dump-sites), establishment of composting and incineration plants, recovery and management of construction and demolition waste in compliance with the related directives. ⁸	2009-2015	967,000,000	360,000,000		1,327,000,000
II- Legislative approximation and implementation					
- Personnel					
Personnel Necessary for Special Waste Management	2009-2015	29,385,000			29,385,000
Personnel Necessary for Hazardous Waste Management	2009-2015	27,376,000			27,376,000
Personnel Necessary for Municipal Waste Management (including centre and provincial directorates)	2009-2015	50,558,000			50,558,000

⁶ To be financed by the grants and credits to be provided by private sector.

⁷ To be financed by the grants and credits to be provided by private sector.

⁸ Dates and financial requirements were previously determined in the EU Integrated Environmental Approximation Strategy Document. The Financial requirement extends beyond the scope of the National Programme. It will be revised upon developments in time.

Table 27.3.2.3 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
- Training					
Training on Special Waste Management	2009-2015	557,000	759,000	304,000 ⁹	1,620,000
Training on Hazardous Waste Management - Training of trainers on determination of waste amount and chemical criteria to decide whether waste is hazardous or not and determination of waste disposal methods according to waste characteristics. - Training on full implementation - Training on licensing and inspection (implementation orientated)	2009-2015	320,000	250,000	100,000 ¹⁰	670,000
Training on Municipal Waste Management	2009-2015	4,150,000			4,150,000
- Consultancy					
- Translation					
- Other					
Equipment for Special Waste Management	2009-2015	909,500	1,140,500	220,000 ¹¹	2,270,000
Equipment for Hazardous Waste Management	2009-2015	80,000	1,005,000		1,085,000
Equipment for Municipal Waste Management	2009-2015	1,629,000			1,629,000
Transposition of Directive (2006/21/EC) on Management of Waste from the Extractive Industries ¹²	2009-2013	515,000	4,085,000		4,600,000
Total		1,086,079,500	381,039,500	247,624,000¹³	1,714,743,000

⁹ To be financed by the grants and credits to be provided by private sector.

¹⁰ To be financed by the grants and credits to be provided by private sector.

¹¹ To be financed by the grants and credits to be provided by private sector.

¹² To be financed by the project titled "Management of Waste from Extractive Industries-TR 08.02.05" under Pre-Accession Financial Assistance 2008 Programme.

¹³ To be financed by the grants and credits to be provided by private sector.

Sub-priority 27.3.3 Air Quality

1 Schedule of legislative alignment

Table 27.3.3.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directives No. 99/13/EC and 2004/42/EC	Implementing Regulation on the Control of Pollution from the Volatile Organic Compounds ¹⁴	Determination of principles and procedures for the control of pollution from the Volatile Organic Compounds	Ministry of Environment and Forestry	2011 ¹⁵
2	Directive No. 94/63/EC	Legislation on the Control of Volatile Organic Compounds from the Petroleum Storage Facilities	Control of the Volatile Organic Compounds emissions from the petroleum and petroleum products storage, filling and discharging and transport	Ministry of Environment and Forestry Ministry of Transport Ministry of Energy and Natural Resources Energy Market Regulatory Authority	2012
3	Directive No. 2001/81/EC	Implementing Regulation on National Emission Ceilings	Determination of National Emission Ceilings	Ministry of Environment and Forestry	After 2011 ¹⁶

¹⁴ It is also mentioned under “Sub-priority 27.3.4 Industrial Pollution and Risk Management”

¹⁵ Gradual transitional period is envisaged in the Implementing Regulation.

¹⁶ Preparation and implementation schedule of the legal arrangement will be determined within the scope of the project titled “Capacity Development on National Emission Ceilings Directive” under Pre-Accession Financial Assistance 2008 Programme. Harmonization with Gothenburg Protocol will be ensured within the framework of full membership perspective.

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.3.3.2

No	Requirements	Year
(Ministry of Environment and Forestry)		
1	For the implementation of Air Quality Framework Directive (96/62/EC) and its Daughter Directives; <ul style="list-style-type: none"> - Determination of competent authorities at national, regional and local scale, - Strengthening the technical and administrative capacity of the Ministry, - Performing of preliminary assessment studies, - Designation of zones and agglomerations, - Establishment of air quality monitoring stations, - Setting-up of regional network centres, - Setting-up of laboratory infrastructure, - Assurance of continuity of reliable and high quality measurement data for reporting, - Provision of emission inventories relating to the emissions, - Air quality assessment, - Preparation and implementation of plans improving the air quality where air quality limit values can not be attained, - Training of staff working on air quality on legislation and technical issues, - Setting up and/or strengthening of the system for the public information on air quality 	2008-2014
2	In the framework of the project titled “Institution Building on Air Quality in the Marmara Region”; <ul style="list-style-type: none"> - Regional Clean Air Centre, - Regional network structure, - 39 air quality monitoring stations, - Regional Calibration Laboratory, - Regional Data Centre, - Setting-up of and operation of Analytical Laboratory, - Air quality assessment, - Modelling, emission data, - Preparation of clean air plan 	2008-2011
3	In the framework of Improving Emissions Control Project; <ul style="list-style-type: none"> - Harmonization of the Directive on National Emission Ceilings with the Air Quality legislation, - Improvement of the national emission inventory and SO₂, NO_x, VOC, NH₃ emission projections, - Preparation of the Regulatory Impact Assessment on the implementation of the Directive on National Emission Ceilings - Building up institutional and technical capacity for transposition of the Directive on National Emission Ceilings. 	2009-2011

Table 27.3.3.2 (Continued)

No	Requirements	Year
4	<p>In the scope the Directive on the control of volatile organic compound emissions resulting from the storage of petrol and its distribution from terminals to service stations (1994/63/EC)</p> <ul style="list-style-type: none"> - Determination of the Competent Authority - Determination of the standards for storage and transportation units and approval procedures - Ensuring the coordination and cooperation between the corporations - Determination of the present situation of the facilities, deciding on the investments needed to be done and implementation - Reduction of volatile organic compounds emissions from the storage units in service stations, active containers, filling and discharging equipments in terminals, petroleum storage units and determination of operating precautions and supervision of the implementation 	2010-2015
(Ministry of Industry and Trade)		
5	Strengthening the institutional capacity through trainings on fuel economy and CO ₂ emissions	2009

3 Financial requirements and resources

Table 27.3.3.3.1

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
I-Investment					
The investment need in the scope of institution building on air quality in the Marmara region ¹⁷	2008-2010	1,295,000	3,885,000		5,180,000
Infrastructure investment for the implementation of Air Quality Framework Directive (96/62/EC) and related Directives	2008-2014	26,500,000			26,500,000
II- Legislative approximation and implementation					
- Personnel					
The personnel need for the implementation of Air Quality Framework Directive (96/62/EC) and related Directives ¹⁸	2008-2014	14,415,000			14,415,000
The personnel need associated with the Directive on the control of volatile organic compound emissions resulting from the storage of petrol and its distribution from terminals to service stations (1994/63/EC)	2009-2015	1,085,037			1,085,037
- Training					
The training need for the implementation of Air Quality Framework Directive (96/62/EC) and related Directives	2008-2014	8,500,000			8,500,000
The training of operators in the scope of the Directive on the control of volatile organic compound emissions resulting from the storage of petrol and its distribution from terminals to service stations (1994/63/EC)	2008-2014	30,000	8,000		38,000

¹⁷ Also includes the amount financed by the project titled "Institution Building on Air Quality in the Marmara Region Project- TR 0702.07" under Pre-accession Financial Assistance 2007 Programme.

¹⁸ Also includes the amount financed by the project titled "Institution Building on Air Quality in the Marmara Region Project- TR 0702.07" under Pre-accession Financial Assistance 2007 Programme.

Table 27.3.3.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
- Consultancy					
Determination of standards for petrol storage and transportation units and approval procedures	2008-2014		170,000		170,000
Considering the present situation of the petrol storage facilities, determining the necessary investments and bringing in the implementation	2008-2014		700,000		700,000
Planning emission reduction of volatile organic compounds, determination of operating precautions, and supervision of the implementation for the petroleum storage units, filling and discharging equipments in terminals, active containers, storage units in service stations	2008-2014		170,000		170,000
- Translation					
- Other					
Institution building on air quality in the Marmara region ¹⁹	2008-2011		1,900,000		1,900,000
Improving Emissions Control ²⁰	2009-2011	140,000	1,910,000		2,050,000
Providing the inter institutional coordination and cooperation, conducting the meetings to determine the competent authority within the context of the Directive on the control of volatile organic compound emissions resulting from the storage of petrol and its distribution from terminals to service stations (1994/63/EC)	2008-2014	18,000			18,000
Total		51,983,037	8,743,000		60,726,037

¹⁹ Financed by the twinning component of the project titled "Institution Building on Air Quality in the Marmara Region Project- TR 0702.07" under Pre-accession Financial Assistance 2007 Programme.

²⁰ To be financed by the project titled "Improving Emissions Control - TR08 02 03" under Pre-accession Financial Assistance 2008 Programme.

Table 27.3.3.3.2

(Euro)

Requirements (Ministry of Industry and Trade)	Year	National Budget	EU sources	Other	Total
I-Investment					
II- Legislative approximation and implementation					
- Personnel					
- Training					
Study visit for trainers on fuel economy and CO ₂ emissions	2009		75,000		75,000
- Consultancy					
- Translation					
Simultaneous translation during trainings	2009		12,000		12,000
- Other					
CO ₂ data collection	2009		10,000		10,000
Total			97,000		97,000

Sub-priority 27.3.4 Industrial Pollution and Risk Management

1 Schedule of legislative alignment

Table 27.3.4.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directive No. 2008/1/EC (IPPC Directive)	Implementing Regulation on Integrated Pollution Prevention and Control (Integrated Environmental Permit)	Control of the pollution from major industrial plants with an integrated approach at the source.	Ministry of Environment and Forestry	²¹
2	Directive No. 2000/76/EC	Implementing Regulation on Waste Incineration	Prevention or reduction of the negative environmental impacts of waste incineration, especially the human-health risks posed by pollution of air, soil, surface and groundwater resources	Ministry of Environment and Forestry	2009
3	Directive No. 2000/76/EC	Implementing Regulation Amending the Implementing Regulation on Control of Hazardous Wastes	Prevention or reduction of the negative environmental impacts of waste incineration, especially the human-health risks posed by pollution of air, soil, surface and groundwater resources	Ministry of Environment and Forestry	2009
4	Directive No. 2001/80/EC	Implementing Regulation on Large Combustion Plants	Control of the fume, dust, gas, steam and aerosol emissions, diffused to atmosphere from the energy production facilities; protection of human and environment from the risks posed by pollution of the ambient air.	Ministry of Environment and Forestry	2009 ²²

²¹ Schedule of legislative alignment and implementation is going to be determined within the context of the project titled "Industrial Pollution Prevention and Control – TR 08 02 04" proposed under Pre-Accession Financial Assistance 2008 Programme.

²² Gradual transitional period is envisaged in the Implementing Regulation.

Table 27.3.4.1 (Continued)

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
5	Directives No. 99/13/EC and 2004/42/EC	Implementing Regulation on Control of the Pollution Caused from Volatile Organic Compounds ²³	Determining the principles and procedures for control of the pollution caused from Volatile Organic Compounds	Ministry of Environment and Forestry	2011 ²⁴
6	Directive No. 96/82/EC	Implementing Regulation on Control of Industrial Major-Accidents	Prevention of industrial major-accidents in the facilities having dangerous substances and, in order to minimize hazards of the probable accidents to human and environment, determination of the measures which are necessary to ensure efficient and continuous high level of protection	Ministry of Environment and Forestry Ministry of Labour and Social Security	2009
7	Directive No. 87/217/EEC	Legislation Regarding Reduction and Prevention of Pollution Resulting from Asbestos	Reduction of hazardous wastes via limitation or prohibition of the production and utilization of hazardous chemicals. Protection of the environment and human health from hazardous effects of chemicals	Ministry of Environment and Forestry	2009
8	Regulation No. 1980/2000	Implementing Regulation on Eco-label	To promote environmentally friendly products to contribute to the efficient use of resources, and by giving guidance to provide accurate, non-deceptive and scientific information to consumers on such products.	Ministry of Environment and Forestry	After 2011
9	Regulation No. 761/2001	Legislations regarding Voluntary Participation of Organizations in Community Eco-Management and Audit Scheme (EMAS) ²⁵	Establishment and implementation of Environmental Management Systems by organizations. Evaluation and improvement of the environmental performances of the organizations	Ministry of Environment and Forestry	After 2011
10	Regulation No. 166/2006 Commission Decision No. 2000/479/EC	Relevant legal arrangements	Registration and reporting of pollutant emissions.	Ministry of Environment and Forestry	Will be considered within the context of full membership perspective

²³ It is also mentioned under "Sub-Priority 27.3.3 Air Quality"

²⁴ Gradual transitional period is envisaged in the Implementing Regulation.

²⁵ Necessary arrangements will be made depending on the outcomes of the project titled "Internalization of EMAS Regulation and Establishment of EMAS System in Turkey" under SEI program.

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.3.4.2

No	Requirements	Year
(Ministry of Environment and Forestry (MoEF), Provincial Directorates of MoEF, Directorates of Special Provincial Administrations and Municipalities)		
1	In the scope of Council Directive No. 2008/1/EC on Integrated Pollution Prevention and Control, <ul style="list-style-type: none"> - Determining the Best Available Techniques for Turkey and starting the studies on harmonization requirements and cost analysis - Establishing the technical and administrative infrastructure - Preparation of implementation guidebooks for the implementation staff - Preparation of implementation guidebooks for industrial sectors - Implementation of economically and technically appropriate emission limits - Initiating the integrated permit implementation. - Supplying equipment for the continuous measurement of pollutants, establishing the infrastructure and setting the measurement quality system 	2010-2012
2	In the scope of the Integrated Pollution Prevention and Control Project (Submitted to IPA-1 2008 Programme) <ul style="list-style-type: none"> - Preparing the inventory of installations - Determining the necessary institutional framework for implementation - Legislative transposition and detailed implementation plan - Determining the technical, administrative and financial capacity of the competent authority and related parties. - Capacity-building programs to achieve necessary technical capacity - Preparation of implementation guidebooks for operators, personnel responsible from enforcement, etc. 	2009-2011
3	In the scope of Commission Decision No. 2000/479/EC of 17 July 2000 on the implementation of a European pollutant emission register (EPER) according to Council Directive No. 2008/1/EC concerning integrated pollution prevention and control (IPPC) and Regulation No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register; <ul style="list-style-type: none"> - Preparation of pollutant emission inventory - Compatible register of the inventory for reporting - Establishing and operating the reporting system 	2009 and Beyond ²⁶

²⁶ Implementation will be started upon membership.

Table 27.3.4.2 (Continued)

No	Requirements	Year
4	<p>In the scope of Directive No. 2001/80/EC of the European Parliament and of the Council of 23 October 2001 on the limitation of emissions of certain pollutants into the air from large combustion plants;</p> <ul style="list-style-type: none"> - Preparation of the inventory of Large Combustion Plants - Preparation of cost analysis of the technological changes required to achieve the determined emission limits - Inventory studies on issues such as the technology and treatment methods - Preparation of emission inventory - Performing the regulatory impact assessment - Setting the quality system for the continuous measurement of pollutants 	2009 and Beyond
5	<p>In the scope of the Council Directive 1999/13/EC of 11 March 1999 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain activities and installations;</p> <ul style="list-style-type: none"> - Preparation of scope inventory - Setting the provisions and limit values in National legislation - Establishing solvent reduction and substitution programs - Training of the relevant personnel on VOC emissions measurement and calculation methods and solvent reduction and substitution programs - Determining the criteria for VOC emissions measurement and calculations - Establishing and operating permit and inspection mechanisms 	2010-2015
6	<p>In the scope of Directive No. 2004/42/EC of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products;</p> <ul style="list-style-type: none"> - Preparation of standards and setting the suitable criteria for paints - Determination of compliance of the paints produced or utilized to the Directive 	2010-2015
7	<p>Implementation of Council Directive No. 96/82/EC dated 9 December 1996 on the Control of Major Accident Hazards Involving Dangerous Substances (it will be implemented stage by stage)</p> <ul style="list-style-type: none"> - Recruitment and training of personnel - Improving the institutional and administrative capacity in terms of the training and equipment requirements for the implementation of the legislation. - Training on investigation of major accidents and forming inspection procedures. - Training on inspection. - Training on Safety Management System and Emergency Plans - Training on risk assessment of the installations and accident scenarios. - Training on determining the domino effect and installation groups under risk. - Training on reporting. - Training on the public awareness. - Preparation and implementation of a training program for local authorities and operators - Establishment and maintenance of a registration system. 	2009-2015

Table 27.3.4.2 (Continued)

No	Requirements	Year
8	<p>Regarding Regulation No. 1980/2000 on a revised Community eco-label award scheme;</p> <ul style="list-style-type: none"> - Drafting necessary law which will be legal basis for the Implementing Regulation (Neither Law 2872 on Environment nor the section of Law 4856 on Establishment and Duties of the Ministry of Environment and Forestry concerning Duties of Environmental Management General Directorate contains any article which can be a legal basis to the harmonization of this Regulation) - Identifying Competent Body (MoEF is required to be recognized as competent body by the Commission for full implementation, therefore, in a way, full harmonization depends on full membership of Turkey) - Establishing the application mechanism for eco-label - Establishing terms of use of an eco-label - Establishing an appropriate compliance monitoring and auditing regime for eco-label - Information dissemination and awareness raising studies for producers, retailers, consumers and the general public. - Harmonization of product group criteria descriptions and preparation of other necessary documents (brochure, application guides, etc.). 	2008-2015
9	<p>For the implementation of eco-management and audit scheme (EMAS) Regulation No. 761/2001 of the European Parliament and of the Council of 19 March 2001;</p> <ul style="list-style-type: none"> - Training of the personnel - Administrative capacity building for the preparation of the legislation - Preparation of the necessary legal background - Preparation and implementation of a training programme for the institutions and enterprises - Establishing and maintaining the Accreditation System - Establishing and maintaining the Certification System - Establishing and maintaining the Registration System - Establishing and maintaining the notification system 	2008-2014
(Ministry of Labour and Social Security)		
10	<p>For the implementation of Council Directive No. 96/82/EC of 9 December 1996 on the control of major-accident hazards involving dangerous substances;</p> <ul style="list-style-type: none"> - Training on major-accidents legislation - Training on Safety report investigation - Training on Safety Management systems - Reporting system, software demonstration - On-site inspection (2 facilities representing high-ranked institutions) - On-site inspection (2 facilities representing low-ranked institutions) - Investigation and reporting major-accidents - Training on risk assessment, simulations and softwares within the scope of safety report and major-accidents prevention policy document - Strengthening the infrastructure of the Major Industrial Accident Office, 	2009-2015

3 Financial requirements and resources

Table 27.3.4.3.1

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
I-Investment					
(2008/1/EC) Investment on infrastructure for the integrated permit applications and implementation of economical and technically feasible emission limit values (hardware)	²⁷	5,000,000	15,000,000		20,000,000
(2008/1/EC) Equipment, infrastructure and measurement quality systems for the continuous measurement of pollutants	²⁸	2,500,000	7,500,000		10,000,000
(2008/1/EC) and 2000/479/EC Establishing and operating the reporting system (30.000 Euro x 81 Provinces + 50.000 Euro Central)	After 2010	620,000	1,860,000		2,480,000
(96/82/EC) Purchasing of equipment	2009-2015	2,250	6,750		9,000
1980/2000 (EC) Equipment purchasing	2008-2015	2,000	6,000		8,000
1980/2000 (EC) Establishment internet based service for consumers and applicants	2013-2015	12,500	37500		50,000
(761/2001/EC) Equipment purchasing	2008-2014	8,250	24,750		33,000

²⁷ Schedule of financing will be determined in the scope of the project titled "Prevention and Control of Integrated Pollution-TR 08 02 04" under Pre accession Financial Assistance 2008 Programme.

²⁸ Schedule of financing will be determined in the scope of the project titled "Prevention and Control of Integrated Pollution-TR 08 02 04" under Pre accession Financial Assistance 2008 Programme.

Table 27.3.4.3.1 (Continued)

(Euro)

Requirements (Provincial Directorates of MoEF)	Year	National Budget	EU sources	Other	Total
II- Legislative approximation and implementation					
- Personnel					
(2008/1/EC, 2000/479/EC, 166/2006/EC) Recruitment of personnel	2010 and Beyond	288,000,000			288,000,000
(2001/80/EC) Recruitment of personnel	2009 and Beyond	40,000,000			40,000,000
(99/13/EC, 2004/42/EC) Recruitment of personnel	2010-2015	40,000,000			40,000,000
(96/82/EC) Recruitment of personnel	2009-2015	520,000			520,000
1980/2000 (EC) Recruitment of personnel	2008-2013	143,000			143,000
(761/2001/EC) Recruitment of personnel	2008-2014	860,000			860,000
- Training					
(99/13/EC) Training of the related personnel on the methods of measurement and calculation of VOC emissions and programmes for solvent reduction and substitution	2009-2011	10,000	30,000		40,000
(2008/1/EC) Training of current personnel	2009-2012		432,000		432,000
(2008/1/EC) Study visit	2009-2012		1,500,000		1,500,000
(2008/1/EC) Training of the new personnel	2009-2012	375,000	1,125,000		1,500,000
(2008/1/EC) Study visit in Turkey	2009-2012	548,000			548,000

Table 27.3.4.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
Equipment infrastructure and measurement quality systems for the continuous measurement of pollutants	2009-2012	540,000	8,000		548,000
(2008/1/EC, 2000/479/EC) Preparation of emission data and reporting to European Commission	2009-2012		28,000		28,000
(2004/42/EC) Training on the determination of compliance of the paints fabricated and utilized with the Directive (abroad)	2009-2012	9,600	24,000		33,600
(2004/42/EC) Training on the determination of compliance of the paints fabricated and utilized with the Directive	2009-2012	30,000	8,000	38,000	76,000
(2008/1/EC, 2001/80/EC, 99/13/EC, 2004/42/EC) Training on preparation of scope inventory	2009-2012		20,000		20,000
(2008/1/EC, 2001/80/EC, 99/13/EC, 2004/42/EC) Training of experts on EU and other international reporting requirements (abroad)	2009-2012	4,000	10,000		14,000
(2008/1/EC, 2001/80/EC, 99/13/EC, 2004/42/EC) Internship/hands-on training of the Primary Contact Points (PCP) on international and EU emissions reporting	2009-2012		9,800		9,800

Table 27.3.4.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
(96/82/EC) - Training on investigation of major industrial accidents and establishment of procedures - Training on inspection related to major industrial accidents	2009	2,900	8,700		11,600
(96/82/EC) - Training on safety management systems and emergency plans related to major industrial accidents - Training on accident scenarios and risk analysis of establishments related to major industrial accidents	2010	6,000	18,000		24,000
(96/82/EC) Training on reporting related to major industrial accidents	2012	3,750	11,250		15,000
(1980/2000 (EC)) On-site investigation on principles of establishing the eco-labeling system	2008-2015	11,250	33,750		45,000
(761/2001/EC) General training about EMAS	2008 - 2009		10,000		10,000
(761/2001/EC) On-site investigation on principles of establishing the EMAS system	2010		15,000		15,000
(761/2001/EC) EMAS legislation training	After 2011		15,000		15,000
(761/2001/EC) - Training on EMAS, training on legislation for environmental verifiers - Pilot study on EMAS inspection	After 2011		15,000		15,000
- Consultancy					
(2008/1/EC, 2001/80/EC, 99/13/EC, 2004/42/EC) Preparation of scope inventory	2008-2010		2,236,000		2,236,000

Table 27.3.4.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
(2008/1/EC, 2001/80/EC, 99/13/EC, 2004/42/EC) Analysis of institutional structure requirements and overcoming conflict of competence and defects in permit procedures and simplifying the permit procedure	2008-2009		2,037,000		2,037,000
(2004/42/EC) Setting the paint criteria and preparation of standards	2008-2009		203,700		203,700
(99/13/EC) Determination of the criteria for VOC emissions measurement and calculations	2008-2009		204,000		204,000
(99/13/EC) Preparation of national legislation on solvent reduction and substitute programmes and inclusion of provisions and limit values	2008-2009		204,000		204,000
(2001/80/EC) Preparation of emission inventory	2008-2009		68,000		68,000
(2001/80/EC) Preparing programmes for the reduction of emission loads	2008-2009		71,000		71,000
- Translation					
Translation of the legislation (1000 pages)	2008-2015		20,000		20,000
Translation of best available techniques reference documents (30000 pages)	2008-2015		600,000		600,000
Translation of guidebooks (10000 pages)	2008-2015		200,000		200,000
Translation of Project reports and working documents (10000 pages)	2008-2015		200,000		200,000

Table 27.3.4.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
(1980/2000 (EC))	2008-2015	18,750	56,250		75,000
(761/2001/EC)	2011	2,500	7,500		10,000
- Other					
(2008/1/EC, 2001/80/EC) Workshops on the identification of “Best Available Techniques”, transposition requirements and cost analysis	2008-2009	45,000	135,000		180,000
(2008/1/EC, 2001/80/EC, 99/13/EC, 2004/42/EC) Workshops on the analysis of institutional structure requirements and overcoming the competence conflict and defects in permit procedures and simplifying the permit procedure.	2008-2009	2,000	6,000		8,000
(2008/1/EC) Working groups for the preparation of guidebooks for sectors and preparation of guidebooks for the personnel responsible for permitting	2008-2009	18,000			18,000
(2001/80/EC) Meetings with the relevant stakeholders for the determination of required financial resources and transition periods for compliance to new technologies	2008-2009	18,000			18,000
Integrated Pollution Prevention and Control ²⁹	2009-2011	175,000	2,325,000		2,500,000
Harmonization of EMAS Regulation and Establishment of the EMAS System in Turkey ³⁰	2008-2009		200,000		200,000
Total		379,487,250	36,530,250	38,000	416,055,500

²⁹ To be financed by the project titled “Integrated Pollution Prevention and Control – TR 08 02 04” proposed under Pre-accession Financial Assistance 2008 Programme.

³⁰ To be financed by the project titled “Harmonization of EMAS Regulation and Establishment of the EMAS System in Turkey” under SEI Programme.

Table 27.3.4.3.2

(Euro)

Requirements (Provincial Directorates of MoEF)	Year	National Budget	EU sources	Other	Total
I-Investment					
Purchasing of equipment within the context of Control of Major Accidents	2009-2015		93,000		93,000
II- Legislative approximation and implementation					
- Personnel					
Recruitment of personnel within the context of Control of Major Accidents	2009-2015	5,700,000			5,700,000
- Training					
Training on investigation of major industrial accidents and establishment of procedures for these	2009	11,500	34,500		46,000
-Training on inspection related to major industrial accidents -Training on safety management systems and internal emergency plans related to major industrial accidents	2010	31,000	93,000		124,000
- Training on external emergency plans related to major industrial accidents - Training on accident scenarios and risk analysis of establishments related to major industrial accidents	2011	33,750	101,250		135,000
Training on reporting related to major industrial accidents	2012	18,250	54,750		73,000
- Consultancy					
- Translation					
- Other					
Total		5,794,500	376,500		6,171,000

Table 27.3.4.3.3

(Euro)

Requirements (Ministry of Labour and Social Security)	Year	National Budget	EU sources	Other	Total
I-Investment					
Purchasing of equipment within the context of control of major industrial accidents	2009-2010	41,000	123,000		164,000
II- Legislative approximation and implementation					
- Personnel					
Recruitment of personnel within the context of Control of Major Accidents	2009-2010	2,600,000			2,600,000
- Training					
Within the context of control major industrial accidents - Training on legislation - Assessment of safety report - Management systems - Notification system, introduction of computer program	2009	18,300	54,900		73,200
- Implementation of inspection on site (2 workplaces for upper-tier establishments) - Implementation of inspection on site (2 workplaces for lower-tier establishments) - Investigation and reporting of accidents - Risk assessment, simulations, software etc. within the context of safety report, major accidents prevention policy document	2010	33,550	100,650		134,200
- Consultancy					
- Translation					
- Other					
Total		2,692,850	278,550		2,971,400

Sub-priority 27.3.5 Chemicals Management

1 Schedule of legislative alignment

Table 27.3.5.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directive No. 67/548/EEC	Implementing Regulation on the Classification, Packaging and Labeling of Dangerous Substances and Preparations	The scope of this By-law is to regulate the detailed rules and principles for classification, labeling and packaging of dangerous substances and preparations placed on the market for effective control and efficient surveillance in order to protect the man and the environment against their negative effects	Ministry of Environment and Forestry	2009
2	Regulation No. 689/2008/EC	Legislation on Import and Export of Dangerous Chemicals	Development of detailed rules and principles on import and export of dangerous chemicals	Undersecretariat of Foreign Trade Ministry of Environment and Forestry	After 2011
3	Directive No. 98/8/EC	Implementing Regulation on Biocidal Products	Before placing on the market, assessment of risks of biocidal products on human, animal and environment, determination of implementation procedures and principles on production of biocidal products, custom manufacturing, import, classification, placing on the market, private usage methods and inspection of biocidal products, determination of procedures relating to authorized products	Ministry of Health	2009 ³¹
4	Regulation No. 850/2004/EC	Legislation on Persistent Organic Pollutants	Raising public awareness on persistent organic pollutants and elimination and disposal of persistent organic pollutants and contaminated equipments	Ministry of Environment and Forestry	After 2011
5	Council Decision No. 2006/507/EC	Law on the Approval of Ratification of Stockholm Convention on Persistent Organic Pollutants	Being a party to Stockholm Convention regarding Persistent Organic Pollutants	Ministry of Foreign Affairs	2009-2010

³¹ Gradual transitional period is envisaged in the Implementing Regulation.

Table 27.3.5.1 (Continued)

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
6	Council Decision No. 2003/106/EC	Law on the Approval of Ratification of Rotterdam Convention	Being a party to the Rotterdam Convention on the Prior Informed Consent Procedure for Certain Dangerous Chemicals and Pesticides in International Trade	Ministry of Foreign Affairs	2011
7	Regulation No. 1907/2006/EC	Relevant legal arrangements ³²	This Regulation lays down provisions on manufacturing, placing on the market or use of substances as it is, in preparations or in articles	Ministry of Environment and Forestry	³³

³² Necessary arrangements will be made depending on the outcomes of the project titled “The REACH Chemicals- TR 08 02 02” under Pre-Accession Financial Assistance 2008 Programme.

³³ Schedule of legislative alignment and implementation will be determined within scope of the project titled “The REACH Chemicals- TR 08 02 02” under Pre-Accession Financial Assistance 2008 Programme.

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.3.5.2

No	Requirements	Year
(Ministry of Environment and Forestry)		
1	Developing the institutional structure required for implementation of the provisions of Regulation on Import and Export of Dangerous Chemicals (304/2003/EC)	2009-2011
2	Ensuring the institutional and legal arrangements for the Rotterdam Convention (22003A0306(01))	2009-2011
3	Enhancing the current institutional structure for implementation of the provisions of Regulation on Persistent Organic Pollutants (850/2004)	2009-2011
4	For the harmonization of Directive on classification, packaging and labeling of dangerous substances (67/548/EEC); - Developing the required institutional structure, enhancing it with the required trainings - Developing a strategy for chemicals	2009-2011
5	By becoming party to Stockholm Convention on Persistent Organic Pollutants; - Establishing departments and expert network for the secretariat, information exchange and reporting - Participation to international research, development and monitoring programs- ensuring the technical assistance and financial resources	2009-2011
6	Development of institutional structure required for the implementation of Regulation No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) ³⁴	³⁵

³⁴ Institutional capacity building measures will be determined depending on the outcomes of the project titled "REACH Chemicals - TR 08 02 02" under Pre-Accession Financial Assistance 2008 Programme.

³⁵ Schedule of implementation will be determined within scope of the project titled "The REACH Chemicals - TR 08 02 02" under Pre-Accession Financial Assistance 2008 Programme.

3 Financial requirements and resources

Table 27.3.5.3.1

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
I-Investment					
Purchasing of equipment for the harmonization of Directive on Classification, Packaging and Labeling of Dangerous Substances (67/548/EEC)	2009-2011	37,000			37,000
Purchasing of equipment for implementation of the provisions of Regulation on Import and Export of Dangerous Chemicals (304/2003)	2009-2011	11,000			11,000
Purchasing of equipment for implementation of the provisions of Regulation on Persistent Organic Pollutants (850/2004)	2009-2011	74,000			74,000
II- Legislative approximation and implementation					
- Personnel					
Recruitment of personnel for implementation of the provisions of Regulation on Import and Export of Dangerous Chemicals (304/2003)	2009-2011	310,000			310,000
Recruitment of personnel for implementation of the provisions of Regulation on Persistent Organic Pollutants (850/2004)	2009-2011	620,000			620,000
Recruitment of personnel for implementation of the Turkish legislation adapting the provisions of the Directive on the Classification, Packaging and Labeling of Dangerous Substances and Preparations (67/548/EEC)	2009-2011	93,000			93,000
Recruitment of new personnel for the implementation of Regulation No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) ³⁶	2009-2011	181,000			181,000

³⁶ To be financed by the project titled "The REACH Chemicals- TR 08 02 02" under Pre-Accession Financial Assistance 2008 Programme. The overall budget of the project was estimated as 2.500.000 Euro. Personnel, training and consultancy requirements and the other works needed for implementation will be determined at the end of the project.

Table 27.3.5.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
- Training					
Training on implementation of the provisions of Regulation on Import and Export of Dangerous Chemicals (304/2003)	2010-2012		62,500		62,500
Training on implementation of Directive on Classification, Packaging and Labelling of Dangerous Substances (67/548/EEC)	2008-2009	40,750			40,750
Training on implementation of Regulation No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) ³⁷	2009-2011	48,200	440,000		488,200
- Consultancy					
Service contract to establish necessary infrastructure for the implementation of REACH ³⁸	2009-2011		1,590,000		1,590,000
Service contract to determine the possible impacts of REACH on Chemicals Sector ³⁹	2009-2011		320,000		320,000
- Translation					
Translation of Regulation No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH) and relevant guidance documents ⁴⁰	2009-2011		33,000		33,000
- Other					
Total		1,414,950	2,445,500		3,860,450

³⁷ To be financed by the project titled "The REACH Chemicals- TR 08 02 02" under Pre-Accession Financial Assistance 2008 Programme. The overall budget of the project was estimated as 2.500.000 Euro. Personnel, training and consultancy requirements and the other works needed for implementation will be determined at the end of the project.

³⁸ To be financed by the project titled "The REACH Chemicals- TR 08 02 02" under Pre-Accession Financial Assistance 2008 Programme. The overall budget of the project was estimated as 2.500.000 Euro. Personnel, training and consultancy requirements and the other works needed for implementation will be determined at the end of the project.

³⁹ To be financed by the project titled "The REACH Chemicals- TR 08 02 02" under Pre-Accession Financial Assistance 2008 Programme. The overall budget of the project was estimated as 2.500.000 Euro. Personnel, training and consultancy requirements and the other works needed for implementation will be determined at the end of the project.

⁴⁰ To be financed by the project titled "The REACH Chemicals- TR 08 02 02" under Pre-Accession Financial Assistance 2008 Programme. The overall budget of the project was estimated as 2.500.000 Euro. Personnel, training and consultancy requirements and the other works needed for implementation will be determined at the end of the project.

Sub-priority 27.3.6 Water Management

1 Schedule of legislative alignment

Table 27.3.6.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directive No. 2000/60/EC	Framework Water Law ⁴¹	Fulfillment of legislative gaps and correction of complications occurred during implementation	Ministry of Foreign Affairs Ministry of Energy Ministry of Environment and Forestry Ministry of Agriculture and Rural Affairs	After 2011 ⁴²
2	Directive No. 91/676/EEC	Implementing Regulation Amending the Implementing Regulation on the Protection of Waters Against Pollution Caused by Nitrates from Agricultural Sources	Determination and reduction of the pollution in surface and groundwaters caused by Nitrates from Agricultural Sources and preventing probable future pollution risk	Ministry of Agriculture and Rural Affairs	After 2011
3	Directives No. 91/271/EEC and 2000/60/EC	Implementing Regulation on Determination of the Tariffs for Waste Water Treatment Plants and Solid Waste Disposal Plants	Contribution to the sustainability of the environmental infrastructure services, by adjusting and evaluating of the full cost recovery tariffs of the construction of the wastewater infrastructure and solid waste disposal plants, operation, maintenance, collection, transportation, rehabilitation, monitoring and maintenance after closure which will be held with the wastewater infrastructure administrations and municipalities.	Ministry of Environment and Forestry	2009

⁴¹ The legislative analysis of water management of our Country will be carried out within the context of the twinning component of the project titled“ Capacity Building for Water Sector in Turkey” under Pre-Accession Financial Assistance 2006 Programme which will last for 2 years beginning from 2007.

⁴² Harmonization to the related EU acquis will be ensured within the framework of full membership perspective.

Table 27.3.6.1 (Continued)

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
4	Directive No. 91/271/EEC	Implementing Regulation on Urban Waste Water Treatment	Because of the adverse effects of urban and certain industrial sectors discharge, designation of the sensitive and less sensitive areas to protect the natural freshwater lakes, other freshwater bodies, estuaries and coastal waters which are found to be eutrophic or likely to be eutrophic in the near future, if protective action is not taken, furthermore fresh surface waters from which obtaining drinking water is intended and the areas where further treatment may be required due to possible high nitrate concentrations	Ministry of Environment and Forestry	2009
5	Directive No. 91/271/EEC	Communiqué on Designation of Sensitive and Less Sensitive Areas		Ministry of Environment and Forestry	2009
6	Directives No. 80/68/EEC and 2006/118/EC	Implementing Regulation on the Protection of Groundwater Against Pollution and Deterioration	With the aim of preventing and controlling of groundwater pollution; defining criteria for the assessment of good groundwater chemical status, determination of decreasing chemical status, defining the initial point for healing and remediation of chemical status, protecting good status of groundwater resources and preventing deterioration.	Ministry of Environment and Forestry	2009 ⁴³
7	Directive No. 76/464/EEC	Amendment to the Implementing Regulation on the Control of Pollution Caused by Dangerous Substances in Water and its Environment	Amendment of new definitions, revision of given deadlines and overcoming difficulties for implementation	Ministry of Environment and Forestry Ministry of Agriculture and Rural Affairs	2009

⁴³ Gradual transitional period is envisaged in the Implementing Regulation.

Table 27.3.6.1 (Continued)

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
8	Directive No. 2006/44/EEC	Implementing Regulation on the Quality of Fresh Waters Needing Protection and Improvement in order to Support Fish Life	The protection or improvement of the quality of the water courses and ditch fresh waters in which species necessary for water management objectives and other naturally varied local species can live in normal conditions or in case of reduction and improvement in water pollution.	Ministry of Agriculture and Rural Affairs	2009
9	Directive No. 2006/7/EC	Amendment to the Implementing Regulation on Management of the Quality of Bathing Waters	Informing the public, and monitoring and classification of bathing waters in order to sustain and preserve the quality of bathing waters with the aim of protecting the human health regarding the bathing waters except bathing pools and curator waters.	Ministry of Health Ministry of Environment and Forestry	After 2011
10	Directive No. 2007/60/EC	Legislation (Necessary legislation will be determined in the framework of foreseen project.)	The Assessment and Management of Flood Risks	Ministry of Environment and Forestry	After 2011

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.3.6.2

No	Requirements	Year
(Ministry of Environment and Forestry- General Directorate of Environmental Management)		
1	Within the context of the implementation of Council Directive of 4 May 1976 and No. 76/464/EEC about the pollution caused in water environment by dangerous substances and its relevant directives; <ul style="list-style-type: none"> - Strengthening of the infrastructures of Ministry and Laboratory - Continuation of inventory works - Establishment of environmental quality standards - Establishment of monitoring system - Recruitment of staff who will inspect Organized Industrial Zones and Industrial Plants and the training of staff of Ministry and manufacturers 	2009-2014 ⁴⁴
2	In the context of implementation of Council Directive No. 75/440/EEC of 16 June 1975 concerning the quality required of surface water intended for the abstraction of drinking water in the Member States and Council Directive No. 79/869/EEC of 9 October 1979 concerning the methods of measurement and frequencies of sampling and analysis of surface water intended for the abstraction of drinking water in the Member States, <ul style="list-style-type: none"> - Ensure the monitoring of quality standards - Ensure that categorized water resources and existing treatment plants are appropriate for these directives - Ensure the starting of upgrades on existing treatment plants and construction of new treatment plants - Ensure the preparation of systematic drinking water basin protection plan including activities related with improvement of all surface waters used or intended for the abstraction of drinking water and especially in A3 category - Recruitment and training of staff for central and provincial organizations and equipment purchasing in order to; keep records of data collected according to these directives. 	2009-2011 ⁴⁵
3	Training of staff and strengthening current institutional structure for monitoring eutrophication in order to implement provisions of Council Directive No. 91/676/EEC of 2 December 1991 on the Protection of Waters Against Pollution Caused by Nitrates from Agricultural Sources	2009-2011

⁴⁴ Legislative alignment has been achieved after enactment of the “Implementing Regulation on Control of Pollution Caused by Dangerous Substances in Water and its Environment” which was published in the Official Gazette No. 26005 dated 26/11/2005 and by this directive; the full implementation will be achieved by 2014 according to transitional periods envisaged in the Implementing Regulation.

⁴⁵ Although Legislative alignment has been achieved after the enactment of the Implementing Regulation concerning the quality required of surface water intended for the abstraction of drinking water which was published in the Official Gazzetta No. 25999 dated 20.11.2005 and period concerning this directive was defined as 2009–2011, full implementation will be achieved by 2014 according to the transitional periods envisaged in the implementing regulation.

Table 27.3.6.2 (Continued)

No	Requirements	Year
4	<p>For the implementation of the Council Directive No. 86/278/EEC of 12 June 1986 on the protection of the environment, and in particular of the soil, when sewage sludge is used in agriculture;</p> <ul style="list-style-type: none"> - Accreditation practices of the Environmental Reference Laboratory on sewage sludge and soil analyses carried out within the framework of activities to be accomplished in order to enhance the current institutional infrastructure. - Making up the inventory of sewage sludge and the soil in which it is used. - Training of sewage sludge producers, users and the personnel employed in the central and provincial organization of the Ministry and raising public awareness - Recruitment of personnel to the central and provincial organization of the Ministry for ensuring regular monitoring of the soil where sewage sludge is used - Carrying out training of trainers programmes for the personnel employed in central and provincial organization of the Ministry - Establishment of a system for data collection and reporting - Realisation of investments by developing plans for sludge management and minimization 	After 2011
5	<p>For the Implementation and inspection of the Council Directive No. 91/271//EEC of 21 May 1991 concerning on Urban Wastewater Treatment;</p> <ul style="list-style-type: none"> - Recruitment and training of personel to the central and provincial offices - State of play analysis of current situation of sewerage system and wastewater treatment plant, designation of sensitive areas and agglomerations 	2009-2011
6	<p>For the Implementation and inspection of the Council Directive No. 91/271//EEC of 21 May 1991 concerning on Urban wastewater treatment;</p> <ul style="list-style-type: none"> - Establishing of monitoring and inventory system for sensitive areas, agglomerations, treatment systems and all receiving bodies - Strengthening of laboratory capacity 	2009-2011
7	<p>Within the scope of capacity building efforts to implement the repealed Council Directive No. 79/923/EEC of 30 October 1979 on the quality required of shellfish waters and the Directive No. 2006/113/EC of the European Parliament and of the Council of 12 December 2006 on the quality required of shellfish waters,</p> <ul style="list-style-type: none"> - Recruitment of personnel - Training of personnel on the issue of pollution reduction programmes - Equipment requirements 	2009 and Beyond
8	<p>Council Directive No. 76/160/EEC of 8 December 1975 concerning the quality of bathing water;</p> <ul style="list-style-type: none"> - Enhancement of the laboratory capacity for monitoring and reporting the areas being used for the purpose of bathing and recreational purposes - Inspection of water treatment facilities, waste water discharge and disinfection systems in order to ensure that the discharging process is carried out without causing any negative effects on water environments being used for bathing and recreational purposes - Enhancement of the laboratory infrastructure - Recruitment of personnel for the central and provincial organization of the Ministry and training of those personnel. - Establishment and development of a monitoring system - Equipment requirement - Training of personnel for the preparation of pollution maps. - Training of the personnel for reporting 	2009 and Beyond

Table 27.3.6.2 (Continued)

No	Requirements	Year
(Ministry of Environment and Forestry (General Directorate of Environmental Management- General Directorate of State Hydraulic Works))		
9	<p>For the implementation of Council Directive No. 80/68/EEC of 17 December 1979 on the protection of groundwater against pollution caused by certain dangerous substances and Council Directive No. 2006/118/EC of the European Parliament and of the Council of 12 December 2006 on the protection of groundwater against pollution and deterioration ^{46 47};</p> <ul style="list-style-type: none"> - Determination of groundwater bodies - Development of criteria and procedures for the evaluation of good groundwater chemical status - Identification of dangerous substances - Determination of threshold values - Development of criteria for determination of increasing deterioration of chemical status and defining the initial point for healing - Assessment of human activities on groundwater bodies - Performing monitoring programme - Monitoring of groundwater quality and quantity - Set on criteria for evaluation of groundwater chemical status - Assessment of monitoring data and making up an inventory - Determination of groundwater protected areas - Development of strategies in order to control and prevent groundwater pollution - Determination of measurement programme - Analysis of economical groundwater usage - Development and implementation of pricing system - Ensuring public participation - In the aim of preparation of groundwater management plans, strengthening of existing institutional structure, strengthening of infrastructure of laboratories for groundwater quality monitoring, purchasing consumables and other requirements, recruitment of staff for the central and provincial organizations, training and purchasing equipment. 	After 2011

⁴⁶A draft Implementing Regulation on the protection of groundwater against pollution is prepared according to Council Directive No. 2006/118/EC and groundwater aspects of Water Framework Directive (2000/60/EC). Although this draft Implementing Regulation does not include provisions of Council Directive No. 80/68/EEC completely, since direct and indirect discharge to groundwater is forbidden in the Implementing Regulation, it has more restrictive provisions. It is planned that the draft Implementing Regulation will be completed in 4th quarter of year 2009. Implementation period will be defined according to legislative alignment and institutional restructuring.

⁴⁷Concerning this directive, the project titled "Strengthening the Capacity of Sustainable Groundwater Management" (PPA05/TR/7/8) supported by Dutch Government was launched in January 2006 and finalised in January 2008. As the outcomes of this project; in order to harmonize the Council Directive 80/68/EEC and Council Directive No. 2006/118/EC which are on the management of underground water and the provisions related to underground water in Water Framework Directive No. 2000/60/EC, the national legislation, institutional infrastructure concerning underground water and implementation capacity of have been reviewed, a gap analysis has been performed and a draft Implementing Regulation has been prepared. Moreover, "Groundwater Management Plan" has been prepared for Küçük Menderes River Basin.

Table 27.3.6.2 (Continued)

No	Requirements	Year
10	In scope of implementation of Water Framework Directive (2000/60/EC) ⁴⁸ ; - Recruitment and training of staff for preparation of Basin Management Plans - Strengthening the infrastructure of geographical information systems for the preparation of basin management plans and purchasing of equipments, software for the development of infrastructure appropriate for European Water Information System and consultancy service - Compensation of equipment and infrastructure needs of laboratories in order to strengthen the biological monitoring works, recruitment of staff and their training - Recruitment of staff and their training for the identification and monitoring of Groundwater Absolute Protection Areas in order to conserve groundwater protection status and development of Artificial Feed into Groundwater in order to conserve groundwater protection status which is one of the subworks for the provision of using wetlands rationally	2010-2011
(Ministry of Environment and Forestry- General Directorate of State Hydraulic Works))		
11	Related to Council Directive No. 75/440/EEC of 16 June 1975 concerning the quality required of surface water intended for the abstraction of drinking water in the Member States and Council Directive No. 79/869/EEC of 9 October 1979 concerning the methods of measurement and frequencies of sampling and analysis of surface water intended for the abstraction of drinking water in the Member States, - Recruitment of staff - Training of staff	2009-2010
12	Regarding the Council Directive No. 91/676/EEC of 2 December 1991 on the Protection of Waters Against Pollution Caused by Nitrates from Agricultural Sources; - Training of staff for monitoring of eutrophication in Dam lakes	2009-2010
13	About Directive No. 2007/60/EC on the assessment and Management of Flood Risks; - Determination of institutional requirements for implementation	2009-2010

⁴⁸With the ongoing twinning component of the project titled “Support to Capacity Building for Water Sector in Turkey” (TR 06 03) under Pre-Accession Financial Assistance 2006, establishment of a water management in accordance with Water Framework Directive (WFD) No. 2000/60/EC, Urban Wastewater Directive(UWWTD) 91/271/EEC, Council Directive No. 76/464/EEC on Hazardous Substances and other relevant Directives is aimed with a view to ensuring full implementation of EU acquis at the time of Turkey’s full membership. The implementation plans to be obtained at the end of this project will enable to lay down technical and administrative capacity requirements and schedule towards the full alignment and implementation of WFD. It will be more suitable to estimate the costs of related institutions and organizations in this framework. Detailed analysis will be carried out within scope of the project for the establishment of investment requirements for recruitment of personnel, consultancy, translation services and the cost analysis.

Table 27.3.6.2 (Continued)

No	Requirements	Year
(Ministry of Agriculture and Rural Affairs)		
14	<p>In order to implement provisions of Council Directive No. 91/676/EEC of 2 December 1991 on the Protection of Waters Against Pollution Caused by Nitrates from Agricultural Sources;</p> <ul style="list-style-type: none"> - Determination of sensitive areas - Determination of good agriculture implementation codes - Setting up an Action Programme - Setting up monitoring network for surface and groundwaters - Monitoring surface and groundwaters - Setting up a national monitoring and report system - Purchasing mobile laboratories and strengthening infrastructure of existing laboratories - Training of staff 	2009-2011
15	<p>Within the context of institutional capacity strengthening for the implementation of 6 September 2006 dated 2006/44/EC European Parliament and Community Directive on the quality of fresh waters needing protection or improvement in order to support fish life;</p> <ul style="list-style-type: none"> - Training for the implementation of directive - Training for the fish fieldwork - Training for the establishment of the water quality sampling and monitoring system - Training for analysis methods - Strengthening the laboratory infrastructure - Establishment of the information database - Establishment of the national monitoring and reporting system - Training for pollution reduction programs 	2009-2016
16	<p>Within the scope of capacity building efforts to implement the Council Directive No. 2006/113/EC of 12 December 2006 on the quality required of shellfish waters,</p> <ul style="list-style-type: none"> - Recruitment of personnel - Training of personnel - Setting up and enhancing the monitoring system - Equipment requirements 	2009

Table 27.3.6.2 (Continued)

No	Requirements (Ministry of Health)	Year
(Ministry of Health)		
17	<p>Within the scope of the Council Directive No. 76/160/EEC of 8 December 1975 concerning the quality of bathing water;</p> <ul style="list-style-type: none"> - Dissemination of standardized process procedures for bathing water analysis developed by Refik Saydam Hygiene Centre Presidency (RSHM) within the scope of “the Strengthening the Ministry of Health to Harmonize and Implement Legislation in Water for Public Health Protection ” to 33 provincial public health laboratories which monitor bathing water, - Continuation of accreditation studies by Refik Saydam Hygiene Centre, - Establishment of a data base for 33 provinces where bathing water monitoring studies are carried out by developing the database prototypes prepared for the pilot provinces within the scope of the Water Twinning Project, - Personnel Training (identification of bathing waters, sampling, analysis, data collection, data flow, end of season reports, management of non-conformity situations, bathing water profiles, dissemination of information to the public) 	2009-2015
18	<p>Within the scope of the Directive No. 2006/7/EC;</p> <ul style="list-style-type: none"> - Establishment of data base systems, - Data collection, data analysis and evaluation, - Developing bathing water data sets, - Classification of bathing water quality, - Ensuring local and international reporting, - Updating/changing microbiological analysis methods, - Establishment of the laboratory infrastructure and provision of technical support regarding the Cyanobacteria analyses , - Identification of health risks resulting from cyanobacteria and algae and precautionary measures, - Ensuring coordination between relevant institutions and providing technical support in order to establish bathing water profiles, - Training of personnel in the central organizations of the Ministry, Refik Saydam Hygiene Centre (RSHM), provincial directorates of Ministry of Health, provincial public health laboratories , regional directorates of the Hygiene Centre, in order to implement the Directive, - Improving the studies for dissemination of information to the public. 	After 2015

3 Financial requirements and resources

Table 27.3.6.3.1

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
I-Investment					
(76/464/EEC) Strengthening the infrastructure of Ministry and laboratory (Laboratory equipment)	2009-2014	1,200,000	200,000		1,400,000
(76/464/EEC) Office needs of staff at the centre and at the provincial directorates	2009-2014	236,606			236,606
(91/271/ EEC) - Strengthening the infrastructure of Ministry and laboratory (laboratory equipments, office equipments, sampling equipments, consumables) - Equipments and software necessary for establishment of the central monitoring system	2009-2011	125,000	375,000		500,000
(91/271/ EEC) Construction, operation and renewal of wastewater treatment plants (these investments belong to municipalities) ⁴⁹	2007-2023	11,392,000,000	6,148,000,000	543,000,000 ⁵⁰	18,083,000,000
(75/440/ EEC, 79/869/ EEC) Equipment needs for the staff at the centre and in the provinces	2009-2010	64,841			64,841
(80/68/ EEC, 2006/118/ EC) Equipment needs for the staff at the centre and in the provinces	2010	122,658			122,658

⁴⁹ Dates and financial requirements were previously determined in the EU Integrated Environmental Approximation Strategy (UÇES) Document. The Financial requirement extends beyond the scope of the National Programme. It will be revised upon developments in time.

⁵⁰ To be financed by foreign credits.

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
(80/68/ EEC, 2006/118/ EC) For monitoring, inspection and reporting ⁵¹ ; - Laboratories - Vehicles - Drilling of monitoring wells - Consumables - Hardware and software in order to build central monitoring system	2012	1,500,000	3,750,000		5,250,000
(91/271/EEC) Strengthening of computer network system for establishment of central monitoring system for sensitive areas, agglomerations, wastewater treatment plants and receiving water bodies	2009-2011	500,000	1,500,000		2,000,000
(86/278/EEC) - Establishment of a system for data collection and reporting	After 2011	200,000			200,000
(86/278/EEC) Office needs for personnel at the central and provincial level	2008-2009	65,662			65,662
(76/160/EEC) For monitoring, inspection and reporting - Laboratories - Vehicles - Consumables - Establishment of central monitoring system	2009-2015	95,763	287,290		383,053

⁵¹ Investment costs, defined for 80/68/EEC and 2006/118/EC Council Directives, indicate the total investment to be made by MoEF - General Directorate of Environmental Management and State Hydraulic Works required for the implementation of relevant directives of EU on groundwater. Through the projects to be proposed, it is envisaged to cover 3.750.000 Euro of investment costs from EU sources and 1.250.000 Euro from national budget and also operating cost of 250.000 Euro from national budget.

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
II- Legislative approximation and implementation					
- Personnel					
(76/464/EEC) Recruitment of staff to the central and provincial organizations	2009-2014	12,873,264			12,873,264
(79/923/EEC, 2006/113/EC) Recruitment of staff to the central and provincial organizations	2009-2014	1,304,629			1,304,629
(76/160/EEC) Recruitment of staff for the central and provincial organizations	2009-2015	28,043,049			28,043,049
(75/440/EEC, 79/869/EEC) Recruitment of staff for the central and provincial organizations ⁵²	2009-2013	5,810,400			5,810,400
(80/68/EEC, 2006/118/AT) Recruitment of staff for the central and provincial organizations ⁵³	2010-2013	8,883,456			8,883,456
(91/676/EEC) Recruitment of staff for the central and provincial organizations	2008-2010	3,253,824			3,253,824
(91/271/EEC) Recruitment of staff for the central and provincial organizations	2009-2022	38,000,000			38,000,000
86/278/EEC) Recruitment of staff for the central and provincial Organizations	2008-2009	1,911,730			1,911,730

⁵² The cost of additional staff to be in charge of the mentioned directives were previously determined in the EU Integrated Environmental Approximation Strategy (UÇES) Document and will be financed by the national budget. The Financial requirement extends beyond the scope of the National Programme. It will be revised upon developments in time.

⁵³ The cost of additional staff to be in charge of the mentioned directives were previously determined in the EU Integrated Environmental Approximation Strategy (UÇES) Document and will be financed by the national budget. The Financial requirement extends beyond the scope of the National Programme. It will be revised upon developments in time.

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
- Training					
(76/464/EEC) Training of industrial producers and seminar and workshop for training of trainees in provinces in order to organize the works that will be done	2009-2011		300,000		300,000
(76/464/EEC) Training for establishment of Environmental Quality Standards for Dangerous Substances	2009-2011		11,590		11,590
(76/464/EEC) Technical investigations in order to examine the implementations of clean production technologies in the Member States	2009-2011		200,000		200,000
(76/464/EEC) Training for provincial organizations and industrial producers	2009-2014		150,000		150,000
(76/464/EEC) Training for establishment of Pollution Reduction Programs	2009-2014		150,000		150,000
(79/923/EEC, 2006/113/EC) Preparation of Pollution Reduction Programmes and reporting monitoring results	2009-2014	10,000			10,000
(76/160/EEC) Training programme on the monitoring of bathing water quality	2015		137,500		137,500

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
(75/440/EEC, 79/869/EEC) Home and abroad seminars on implementation periods and examples from Member States and their association with the Water Framework Directive ⁵⁴	2010		300,000		300,000
(75/440/EEC, 79/869/EEC) Home and abroad workshop/training seminar on determination of quality of surface waters intended to be used as drinking water, treatment techniques, measurements taken to protect these waters and sharing experiences with the Member States ⁵⁵	2010		300,000		300,000
(75/440/EEC, 79/869/EEC) Home and abroad training seminar on plans that are prepared or to be prepared to improve surface waters intended to be used as drinking water and especially in A3 category ⁵⁶	2011		150,000		150,000
(75/440/EEC, 79/869/EEC) Home and abroad training programmes on plans that are prepared or to be prepared to improve surface waters intended to be used as drinking water and especially in A3 category ⁵⁷	After 2011		150,000		150,000

⁵⁴The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁵⁵ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁵⁶ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁵⁷ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
(80/68/EEC, 2006/118/EC) Home and abroad training seminars for sharing experiences and implementation examples of Member States about harmonization and implementation period; to see the harmonization studies and implementation examples related to the new groundwater directive ; ⁵⁸	2010		185,000		185,000
(80/68/EEC, 2006/118/EC) Determination of groundwater protected areas and threshold values ⁵⁹	2010		50,000		50,000
(80/68/EEC, 2006/118/EC) Determination of groundwater protected areas and threshold values ⁶⁰	2011		50,000		50,000
(80/68/EEC, 2006/118/EC) Determination of groundwater protected areas and threshold values ⁶¹	After 2011		50,000		50,000
(80/68/EEC, 2006/118/EC) Determination of groundwater protected areas and threshold values ⁶²	After 2011		50,000		50,000
(86/278/EEC) - Training of trainers	2009		13,765		13,765
(86/278/EEC) - Training of the personnel employed in central and provincial organization of the Ministry on the implementation and inspection of the Directive	2009		119,642		119,642
(91/271/EEC) Home and abroad training of trainers	2009-2021	122,000	122,000		244,000

⁵⁸ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁵⁹ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁶⁰ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁶¹ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁶² The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
(91/271/EEC) Training of the personnel of central and provincial organizations of the Ministry on the implementation of the Directive and inspection	2009-2021	433,000	433,000		866,000
(91/271/EEC) Study visit to examine implementations of Member States	2009-2021		250,000		250,000
- Consultancy					
(76/464/EEC) Consultancy service	2009-2014		200,000		200,000
(75/440/EEC, 79/869/EEC) Consultancy service ⁶³	2010-2011		270,000		270,000
(80/68/EEC,2006/118/EC) Consultancy service on harmonization and implementation period and sharing experiences of Member States ⁶⁴	2010		180,000		180,000
(80/68/EEC,2006/118/EC) Consultancy service on Groundwater monitoring, determination of groundwater protected areas and threshold values ⁶⁵	2011		180,000		180,000
(80/68/EEC,2006/118/EC) Consultancy service on Groundwater monitoring, determination of groundwater protected areas and threshold values ⁶⁶	After 2011		180,000		180,000
(80/68/EEC,2006/118/EC) Consultancy service on Groundwater monitoring, determination of groundwater protected areas and threshold values ⁶⁷	After 2011		180,000		180,000

⁶³ In order to finance consultancy services from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁶⁴ In order to finance consultancy services from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁶⁵ In order to finance consultancy services from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁶⁶ In order to finance consultancy services from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁶⁷ In order to finance consultancy services from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
(91/271/EEC) Consultancy service	2009-2011		75,000		75,000
(86/278/EEC) Consultancy service	2009-2010		200,000		200,000
- Translation					
(76/464/EEC); - Simultaneous translation - Translation of Guidance Documents and case studies of Member States. (1500 pages)	2009-2014		50,000		50,000
(75/440/EEC, 79/869/EEC); - Simultaneous translation - Translation of Guidance Documents and case studies of Member States (1500 pages)	2009-2010		50,000		50,000
(80/68/EEC,2006/118/EC); - Simultaneous translation - Translation of Guidance Documents and case studies of Member States (1500 pages)	2008-2009		50,000		50,000
(86/278/EEC); - Simultaneous translation - Translation of Guidance Documents and case studies of Member States.	2009-2010		80,000		80,000
(76/464/EEC); - Simultaneous translation - Translation of country case studies and guidance documents for the implementation of the directive. (1500 pages)	2009-2014		50,000		50,000

Table 27.3.6.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of Environmental Management)	Year	National Budget	EU sources	Other	Total
(91/271/EEC) - Simultaneous translation(seminar and workshop) (10 meetings) - Translation of Guidance Documents and country case studies (1000 pages)	2009-2011		50,000		50,000
- Other					
Total		11,496,755,882	6,159,079,787	543,000,000	18,198,835,669

Table 27.3.6.3.2

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of State Hydraulic Works)	Year	National Budget	EU sources	Other	Total
I-Investment					
(80/68/ EEC, 2006/118/ EC) equipment for central and regional staff ⁶⁸	2010	64,652			64,652
II- Legislative approximation and implementation					
- Personnel					
Directive No. 75/440/EEC concerning the quality required of surface water intended for the abstraction of drinking water in the Member States and Directive No. 79/869/EEC concerning the methods of measurement and frequencies of sampling and analysis of surface water intended for the abstraction of drinking water in the Member States	2009-2011	1,800,000			1,800,000
(80/68/EEC, 2006/118/EC) Staff recruitment at central and provincial level ⁶⁹	2010-2013	3,873,600			3,873,600
- Training					
Directive No. 75/440/EEC concerning the quality required of surface water intended for the abstraction of drinking water in the Member States and Directive No. 79/869/EEC concerning the methods of measurement and frequencies of sampling and analysis of surface water intended for the abstraction of drinking water in the Member States	2009-2011		100,000		100,000

⁶⁸ Office equipment cost will be financed from the national budget.

⁶⁹ Cost of additional staff to be in charge of the mentioned directives were previously determined in the EU Integrated Environmental Approximation Strategy (UÇES) Document and will be financed by the national budget. The Financial requirement extends beyond the scope of the National Programme. It will be revised upon developments in time.

Table 27.3.6.3.2 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of State Hydraulic Works)	Year	National Budget	EU sources	Other	Total
(80/68/EEC, 2006/118/EC) Home and abroad training seminars for sharing experiences and implementation examples of Member States about harmonization and implementation period; Examining harmonization studies and implementation examples related with the new ground water directive ⁷⁰	2010		92,500		92,000
(80/68/EEC, 2006/118/EC) Determination of groundwater protected areas and threshold values ⁷¹	2010		50,000		50,000
(80/68/EEC, 2006/118/EC) Determination of groundwater protected areas and threshold values ⁷²	2011		100,000		100,000
(80/68/EEC, 2006/118/EC) Determination of groundwater protected areas and threshold values ⁷³	After 2011		50,000		50,000
91/676/EEC Protection of Waters Against Pollution Caused by Nitrates from Agricultural Sources; (Monitoring eutrophication in Dam lakes)	2009-2011		80,000		80,000
- Consultancy					
Council Directive No. 75/440/EEC concerning the quality required of surface water intended for the abstraction of drinking water in the Member States and Council Directive No. 79/869/EEC concerning the methods of measurement and frequencies of sampling and analysis of surface water intended for the abstraction of drinking water in the Member States	2009-2011		300,000		300,000

⁷⁰ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁷¹ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁷² The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁷³ The trainings are envisaged to be organized ensuring the participation of the staff of related institutions (including provincial and regional authorities). In order to meet the training needs from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

Table 27.3.6.3.2 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry- General Directorate of State Hydraulic Works)	Year	National Budget	EU sources	Other	Total
(80/68/EEC,2006/118/EC) Consultancy service on Groundwater monitoring, determination of groundwater protected areas and threshold values ⁷⁴	2011		300,000		300,000
(80/68/EEC,2006/118/EC) Consultancy service on Groundwater monitoring, determination of groundwater protected areas and threshold values ⁷⁵	After 2011		150,000		150,000
2007/60/EC Directive on the Assessment and Management of Flood Risks	2009-2011		1,000,000		1,000,000
- Translation					
- Other					
Council Directive No. 75/440/EEC concerning the quality required of surface water intended for the abstraction of drinking water in the Member States and Council Directive No. 79/869/EEC concerning the methods of measurement and frequencies of sampling and analysis of surface water intended for the abstraction of drinking water in the Member States and Council Directive No. 80/68/EEC (Laboratory consumables and chemical equipment)	2009-2011	300,000			300,000
Total		6,038,252	2,222,500		8,260,752

⁷⁴ In order to finance consultancy services from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

⁷⁵ In order to finance consultancy services from EU sources, TAIEX and MATRA Programmes are planned to be resorted.

Table 27.3.6.3.3

(Euro)

Requirements (Ministry of Agriculture and Rural Affairs)	Year	National Budget	EU sources	Other	Total
I-Investment					
(91/676/EEC) - Portable Water Sampling Equipments - Purchase of chemicals - Computer network system - Mobile Laboratories - Training materials - Laboratory Equipments	2008-2010	941,250	2,823,750		3,765,000
(2006/44/EC) - Purchase of laboratory equipments - Purchase of consumables	2009-2016	1,300,000	3,600,000		4,900,000
(79/923/EEC, 2006/113/EC) - Ensuring sampling equipment from the shellfish production areas	2009	50,000			50,000
(79/923/EEC, 2006/113/EC) - Setting up a monitoring system for shellfish production areas.	2009	225,000			225,000
II- Legislative approximation and implementation					
- Personnel					
(91/676/EEC) Recruitment of staff	2008-2011	26,030,592			26,030,592
(2006/44/EC) Recruitment of staff	2009-2015	30,007,488			30,007,488
(79/923/EEC, 2006/113/EC) Recruitment of staff for central and provincial organizations	2009	227,340			227,340

Table 27.3.6.3.3 (Continued)

(Euro)

Requirements (Ministry of Agriculture and Rural Affairs)	Year	National Budget	EU sources	Other	Total
- Training					
(91/676/EEC); Water Management	2009	50,000	100,000		150,000
(91/676/EEC); Training on thematic subjects including, but not limited to, EU Framework and legislation.	2009	50,000	100,000		150,000
(91/676/EEC); Training on using mobile laboratories	2009	50,000	200,000		250,000
(91/676/EEC); Training on soil and water pollution laboratories, sampling with field analysis techniques, preparation for research and evaluation.	2009	75,000	300,000		375,000
(91/676/EEC); Implementation of nitrate directive (including monitoring and analysis)	2009	50,000	100,000		150,000
(91/676/EEC); Good agricultural practices	2009	25,000	500,000		525,000
(91/676/EEC); Reporting	2009	25,000	50,000		75,000
(91/676/EEC); Evaluation of collected data and pollution maps	2010	50,000	100,000		150,000
(91/676/EEC); Good agricultural practices codes and implementations of thereof	2010	50,000	200,000		250,000
(91/676/EEC); Manure management	2010	25,000	150,000		175,000

Table 27.3.6.3.3 (Continued)

(Euro)

Requirements (Ministry of Agriculture and Rural Affairs)	Year	National Budget	EU sources	Other	Total
(91/676/EEC); Irrigation management	2010	25,000	50,000		75,000
(91/676/EEC); Land use management	2010	25,000	50,000		75,000
(2006/44/EC); Training on implementation of the regulation	2009	30,000	58,000		88,000
(2006/44/ EC); Fish fieldwork	2009	30,000	58,000		88,000
(2006/44/EC); Establishment of an efficient water quality sampling and monitoring system	2009	30,000	58,000		88,000
(2006/44/EC); Fish fieldwork	2010	40,000	88,000		128,000
(2006/44/EC); Establishment of an efficient water quality sampling and monitoring system	2010	40,000	88,000		128,000
(2006/44/EC); Training on Information Database	2011	90,000	180,600		270,600
(2006/44/EC); Preparation of Pollution Reduction Programmes	2013	90,000	170,100		260,100
(79/923/EEC, 2006/113/EC) Training of personnel	2009	5,000			5,000

Table 27.3.6.3.3 (Continued)

(Euro)

Requirements (Ministry of Agriculture and Rural Affairs)	Year	National Budget	EU sources	Other	Total
- Consultancy					
(91/676/EEC); Consultancy Service (Training Requirement Analysis Report)	2009		189,000		189,000
(91/676/EEC); Consultancy Service (Thematic issues including EU Legislation)	2009		281,000		281,000
(91/676/EEC); Consultancy Service (Soil and water pollution laboratories sampling with field analysis techniques , preparation for research and evaluation)	2009		200,000		200,000
(91/676/EEC); Consultancy Service (Good agricultural practices codes and implementations)	2009		160,000		160,000
(91/676/EEC); Consultancy Service (Using mobile laboratories)	2010		170,000		170,000
(2006/44/EC); Consultancy Service (Classification of Water Structures)	2009-2010		38,000		38,000
(2006/44/EC); Consultancy Service (Determination of sampling points and analysis methods)	2009-2010		38,000		38,000
- Translation					
- Other					
Total		59,636,670	10,100,450		69,737,120

Table 27.3.6.3.4

(Euro)

Requirements (Ministry of Health)	Year	National Budget	EU sources	Other	Total
I-Investment					
(76/160/EEC) Making necessary network connections of provinces that are monitoring bathing water by improving the bathing water database prototype and composing a database system ⁷⁶	2009-2011	60,000	60,000		120,000
(2006/7/EC) Software for bathing water database	2015	40,000			40,000
(2006/7/EC) Establishing laboratory infrastructure suitable for cyanobacteria and algae analysis	After 2015	40,000			40,000
II- Legislative approximation and implementation					
- Personnel⁷⁷					
(76/160/EEC) Monitoring bathing water quality, bathing water analysis and bathing water quality assessment practices.	2009-2015	97,658,463			97,658,463
(2006/7/EC) Monitoring bathing water quality, bathing water analysis and bathing water quality assessment practices.	After 2015	97,658,463			97,658,463

⁷⁶ Part of the investment requirement for extending the database of 76/160/EC is planned to be financed by EU sources.

⁷⁷ The cost of additional staff to be in charge of the mentioned directives were previously determined in the EU Integrated Environmental Approximation Strategy (UÇES) Document and will be financed by the national budget. The Financial requirement extends beyond the scope of the National Programme. It will be revised upon developments in time.

Table 27.3.6.3.4 (Continued)

(Euro)

Requirements (Ministry of Health)	Year	National Budget	EU sources	Other	Total
- Training ⁷⁸					
(76/160/EEC) Training on monitoring bathing water quality, bathing water analysis and bathing water quality assessment - Ministry - Provincial directorates - Refik Saydam Hygiene Centre - Public Health and Regional Directorate for Hygiene laboratories	2009-2015	362,279			362,279
(2006/7/EC) For implementation; Training of the personnel employed in central organization of the Ministry, Refik Saydam Hygiene Centre (RSHS), provincial directorates of Ministry of Health, provincial laboratories for public health and regional directorates for hygiene Centre,	After 2015	300,000	300,000		600,000
- Consultancy					
- Translation					
- Other					
Total		196,119,205	410,000		196,489,205

⁷⁸ In order to meet training needs from EU sources, TAIEX and similar programmes are planned to be resorted.

Sub-priority 27.3.7 Nature Protection and Genetically Modified Organisms

1 Schedule of legislative alignment

Table 27.3.7.1

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
1	Directives No. 92/403/EEC and No.79/409/EEC	Law on Nature and Biodiversity Protection	Conservation of natural values, biodiversity and genetic resources of Turkey and ensuring their sustainable use on a plan basis considering the balance between the conservation and use ; contributing to sustainable development of Turkey for present and future generations; providing a system of protected areas network, with designation criteria and management responsibilities for the protection of Turkey’s biological diversity; ensuring continuity of ecosystems, species and their habitats and biological functionality; ensuring protection of the characteristics and beauty of nature and biodiversity and recreational resources; ensuring protection of non-living natural assets and assets along with cultural values and landscape of the Country.	Ministry of Environment and Forestry	After 2011
2	Directives No. 98/81/EC and 2001/18/EC Regulation No. 1946/2003	Biosafety Law	Establishing, developing, implementing and managing the biosafety system as an entire system to address biosafety issues to ensure the advance determination, inhibition and/or minimizing, and controlling unforeseen possible adverse effects of GMOs and products thereof that are developed by using modern biotechnology, consistent with the Cartagena Protocol on Biosafety and EU legislation.	Ministry of Agriculture and Rural Affairs	2009-2010

Table 27.3.7.1 (Continued)

No	EU legislation in force	Draft Turkish legislation	Scope	Institution in charge	Publication date
3	Regulations No. 338/97 and 865/2006	Amendment to the Implementing Regulation on the Implementation of the Convention in International Trade of Endangered Wild Fauna and Flora Species	- Implementation of the CITES Convention - Defining areas for which the administrative and scientific authorities are responsible and regulating methods and principles related to permits and certificates in those areas - Regulating international trade of wild flora and fauna species	Ministry of Environment and Forestry	2010
4	Regulation No. 3254/91	Legislation regarding the Use of Leghold Traps Pelts and Prohibition of Import of Manufactured Goods which Provide by Leghold Traps Pelts Animal Leathers in the EU Countries	Prohibiting use of leghold traps method and forbidding importation of products obtained from animals by means of leghold traps	Ministry of Environment and Forestry	2010

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.3.7.2

No	Requirements	Year
(Ministry of Environment and Forestry – General Directorate of Nature Protection and National Parks)		
1	<p>According to the Council Regulation No. 338/97 of 9 December 1996 on the protection of species of wild fauna and flora by regulating trade therein (OJ L 061 03.03.1997 p. 1)</p> <ul style="list-style-type: none"> - Establishment of CITES Office/ offices (Details of Draft CITES Office have been take place in the Strategy Document but the date haven't been determined yet. - Initiation of studies for the establishment of a scientific authority which will be responsible for education and scientific evaluation, orientation and development of a strategy (including education and research centre and nature museum) - Computer based compiling of data which will be used for the identification of CITES species - Standardization of CITES permits and establishment of a databank - Establishment of an information network for related institutions and public - Establishment of conservation, control and monitoring systems for CITES species - Stakeholder training and information meeting - Capacity building of related institution for CITES Implementation - Strengthening of infrastructure of Ministry of Environment and Forestry for effective national and international coordination related to the CITES Legislation - Preparation of ID Manuals and support to the research to determine the endangered wild flora and fauna due to international trade to be added to the CITES Annexes - Establishment of rescue and rehabilitation centres for animals captured or confiscated due to illegal trade or other reasons ⁷⁹ 	2009-2011
2	<p>In order to Implement the Draft Law on Nature and Biodiversity Protection;</p> <ul style="list-style-type: none"> - Establishment of a Nature Protection Scientific Authority and fulfillment of technical infrastructure needs - Establishment of the Nature Protection Institutions and fulfillment of technical infrastructure needs 	After 2011

⁷⁹ Details will be clarified within the scope of projects to be submitted to the Pre-Accession Financial Assistance 2009 and beyond Programmes and to SEI or TAIEX.

Table 27.3.7.2 (Continued)

No	Requirements	Year
3	<p>Council Directive No. 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora which is amended by Commission Directive 97/62/EC and Council Directive No. 97/49/EC of 29 July 1997 amending Directive No. 79/409/EEC on the conservation of wild birds⁸⁰;</p> <ul style="list-style-type: none"> - Putting Draft Law on Nature and Biodiversity Protection into force - Establishment of a scientific committee which will carry out consultation related to biodiversity - Review of existing status of protected areas, carrying out biotope/habitat classification and mapping for protected areas and evaluation of potential Natura 2000 areas. - Establishment of an administrative structure for implementation of Natura 2000 network and initiation of studies for the establishment of a scientific authority which will be responsible for evaluation of education and scientific issues and development of a strategy (including education and research centre and the natural museum) - Capacity building (including existing staff training and new staff employment) and strengthening of the technical structure - Organization of information and awareness raising campaigns for related stakeholders - Within the scope of improving the technical structure of biodiversity monitoring systems; establishment of a data base system, determination of monitoring indicators and establishment of the institutional structure for monitoring - Carrying out studies to examine all species and habitats within the scope of the Habitat and Bird Directives - Strengthening capacity for financial aspects, staff and equipment at local level in order to establish a network for protected areas. - Establishment of coordination mechanism between the related institutions for natural protection management, rehabilitation and restoration at local, regional and national level - Determination and Implementation of incentive and measures for protection of biodiversity and development of appropriate financial mechanisms - Integration/Improvement of Ecological Impact Assessments in protected areas into decision making mechanisms for all politics, plans and projects 	2010-2013 ⁸¹
(Ministry of Agriculture and Rural Affairs-General Directorate of Agriculture Researches)		
4	Purchase of equipment, recruitment and training of personnel in order to implement the Biosafety Law, which will be published with a view to transposing and implementing the directives regarding Genetically modified organisms, within the present structure	2009-2012

⁸⁰ Studies within the scope of twinning component of the project titled "Capacity-Building for Turkey in the Field of Environment" under Pre-Accession Financial Assistance 2002 Programme were finalised in July 2006. The studies conducted within the scope of the above mentioned project for harmonization and implementation of EU Directives is in their early stages. Appropriate rearrangements could be made in the tables above in accordance with the data obtained from the results of the projects that will be submitted to the European Union-Turkey Pre-Accession Financial Aid 2009 and post-2009 IPA and SEI Programs. Moreover, through the implementation plans that could be obtained from abovementioned project proposals, within the framework of full harmonization and implementation of Habitat-Bird Directives, more accurate results could be reached with the transposition and implementation schedules related to the institutional infrastructure needs.

⁸¹ Harmonization to the related EU acquis will be ensured within the framework of full membership perspective.

3 Financial requirements and resources

Table 27.3.7.3.1

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
I-Investment					
(3254/91/ EEC) Purchase of Equipment	2009	67,000			67,000
II- Legislative approximation and implementation					
- Personnel					
(338/97/EC) Staff recruitment	2009-2011	955,488			955,488
(99/22/ EC) Staff recruitment	2009	1,045,872			1,045,872
(3254/91/EEC) Staff recruitment	2009	69,720			69,720
(92/43/EEC, 79/409/EEC) Additional personnel	2011-2012	4,688,110			4,688,110
- Training					
(338/97/EC) Domestic training	2008-2010	15,000	15,000		30,000
(338/97/EC) Study visits to Member States	2009-2011		50,000		50,000
(3254/91/EEC)	2009	20,000			20,000
(92/43/EEC, 79/409/EEC) Study visits to Member States ⁸²	2010-2013	895,000	50,000		945,000

⁸² In order to perform each component of institutional capacity building measures required for legislative alignment and implementation, training support is envisaged within the context of mentioned projects. The schedule and implementation plan regarding training requirements will be prepared through mentioned projects and the indicated numbers may be revised within the framework of this "schedule and implementation plan".

Table 27.3.7.3.1 (Continued)

(Euro)

Requirements (Ministry of Environment and Forestry)	Year	National Budget	EU sources	Other	Total
-Consultancy					
(92/43/EEC, 79/409/EEC) Consultancy service in order to implement Habitat and Bird Directives and to carry out evaluations regarding the Natura 2000 areas ⁸³	2010-2013	850,000	7,650,000		8,500,000
- Translation					
(338/97/EC)	2008-2010		50,000		50,000
(92/43/EEC, 79/409/EEC)	2010-2013	50,000			50,000
- Other					
Total		8,656,190	7,815,000		16,471,190

⁸³ To be implemented within the scope of projects to be submitted to the Pre-Accession Financial Assistance 2009 and Future Programmes and to SEI or TAIEX and the indicated numbers may be revised.

Table 27.3.7.3.2

(Euro)

Requirements (Ministry of Agriculture and Rural Affairs-General Directorate of Agriculture Researches) ⁸⁴	Year	National Budget	EU sources	Other	Total
I-Investment					
Purchase of laboratory equipment	2009-2010	6,286,000			6,286,000
II- Legislative approximation and implementation					
- Personnel					
Personnel recruitment	2009-2012	7,428,000			7,428,000
- Training					
Training for the alignment of preventive and other protective measures in line with general principles of Directives.	2009-2010	6,286,000			6,286,000
- Consultancy					
- Translation					
- Other					
Total		20,000,000			20,000,000

⁸⁴ Financial requirements for the recruitment of the personnel and trainings have been figured out based on the Draft Biodiversity Law. Figures may be revised depending on the possible changes after the enactment of the mentioned law.

Priority 27.4 Follow-up of the integration of environmental requirements to sectoral policies

1 Schedule of legislative alignment

No legislative alignment study is envisaged under this priority at this stage.

2 Schedule of institutional capacity building requirements necessary for legislative approximation and implementation

Table 27.4.2

No	Requirements	Year
(Undersecretariat of State Planning Organization)		
1	National Sustainable Development Indicator Set and relevant index will be developed. In this context, data compilation will be initiated by related institutions.	2009-2010

3 Financial requirements and resources

Table 27.4.3

(Euro)

Requirements (State Planning Organization)	Year	National Budget	EU sources	Other	Total
I-Investment					
II- Legislative approximation and implementation					
- Personnel					
- Training					
- Consultancy					
Consultancy for preparation of indicator set and developing relevant index.	2009	50,000			50,000
- Translation					
- Other					
Total		50,000			50,000