

REPUBLIC OF TURKEY

MINISTRY OF ENVIRONMENT AND FORESTRY



ENVIRONMENT OPERATIONAL PROGRAM

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ABBREVIATIONS

	Audit Authority
Sargallonar Convertion	The Convention on the Protection of the Marine Environment and the Coastal Region of the Mediterranean
Base Conventor	The Convention on the Control of Trans boundary Movements of Hazardous Wastes and Their Disposal
នាមានក្នុងស្ថិត នេះ	Convention on the Protection of the Black Sea Against Pollution
	Competent Accreditation Officer
CADA TALE	Communication Action Plan
CARDST	Community Assistance for Reconstruction Development and Sta bility in the Balkans
GBA TO THE RESIDENCE OF THE PARTY OF THE PAR	Cost Benefit Analysis
Charles The	EU Cohesion Fund
OC PEU SE	The Central Finance and Contracts Unit
	Cost Insurance Freight
CA SACRYANION	International Convention on Civil Liability for Oil Pollution Damage, 1992
	Community Strategic Framework, 2007 -2013: Council Regulations 1080/2006/EC; 1081/2006/EC; 1082/2006/EC; 1083/2006/EC and 1084/2006/EC
PGSG THE THE TANK	Community Strategic Guidelines on Cohesion , 2007-2013 (Directive 2006/702/EC)
	Environmental Protection and Packaging Waste Recovery and Recycling Trust
DABIAS ESTABLISME	Danube and Black Sea Region Task Force, set up in November 2001
DGS 1	Directors General
DGELARGE	General Directorate for Enlargement

DG EMPL	General Directorate for Employment
DG ENV	General Directorate for Environment
DGREGIO: 11	General Directorate for Regional Development
OWTPA PARTY AND A	Drinking Water Treatment Plant
	General Directorate of State Hydraulic Works
DSP2	Directive-Specific Investment Plan (also referred to a s EHCIP)
	European Commission
ECD.	European Commission Delegation
EEA	European Environment al Agency
EHCPE	Environmental Heavy-Cost Investment Planning
The state of the s	Environmental Impact Assessment (EU Directive 85/337/EEC amended by Directive 97/11/E EC)
SEOR COLORS	Environment Operational Programme for 2007 -2009
EROF TO THE STATE OF THE STATE	European Regional Development Fund
ESC STREET	Economic and Social Cohesion
ESP CONTRACTOR	European Structural Funds
	European Union
TEUR THE SECOND	Euro
EUROSTATES III	European Statistical Institution
EUSG	Ministry of Foreign Affairs Secretariat General for European Union Affairs
FOR THE STATE OF T	Financial Co-operation Board
FEG.	Financial Co-operation Committee
FIDIC CONTROL OF THE PROPERTY	The International Federation of Consulting Engineers
FUND 92 Convention	International Oil Pollution Compensation Fund, 1992

	Deutsche Gesellschaft für Technische Zusammenarbeit
	Implementation Agreement
	International Commission for the Protection of the Danube River
i Plantini	International Financing Institutions
	Instrument for Pre-Accession
	Integrated Pollution Prevention and Control Directive
ISPAND STREET	Instrument for Structural Policies for Pre -Accession
	stanbul Metropolitan Municipality Environmental Protection and Waste Materials Valuation Industry and Trade Company
	•zmit Metropolitan Municipality Waste and Residue Treatment, Incineration and Recycling Company Incorporated
	Ministry of Agriculture and Rural Affairs
Color Capital Color	International Convention to r the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978
	Multi-annual Indicative Financial Framework, 2008-2010
	Multi-annual Indicative Planning Document, 2007 -2009
	Management Information System
	Ministry of Environment and Forestry
Mort and the second	Ministry of Health
	Material Recovery Facility
	9 th National Development Plan, 2007 -2013
	National Authorising Officer '
	National Environmental Fund
	National Fund

NGOs Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Non-governmental Organisations
NIPAC	-National IPA Co -ordinator
NSRF LL .	National Strategic Reference Framework
NUTS TEST	Nomenclature of Territorial Units for Statistics
ORM I TO THE MAIO	Operations & Maintenance
OPSET TO SET OF SET OF	Operational Programme
Poper Convention	International Convention on Oil Pollution Preparedness, Response and Co-operation, 1990
	Operating Structure (of the EOP)
polf ***	Portable Document Format
	Population Equivalent
PEDA	Priority Environmental Projects for Accession
PETER TO THE TOTAL THE TOTAL TO THE TOTAL TOTAL TO THE TO	Polyethyleпе Three Phthalate
PHARE	Poland Hungary: Action for Restructuring of Economies
PUS	Project Implementation Unit
PPP	Public Private Partnership
PRAG	Practical Guide to Contract Procedures for EC External Actions
PSC III	Project Selection Committee
PSPs unit	Private Sector Participation
ERECONSTRUCTION	Regional Environmental Centre
SAPARD	Special Accession Programme for Agriculture and Rural Development
SC 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Steering Committee
SCF The state of t	Strategic Coherence Frame work, 2007-2013 (prepared by the SPO)
SKI	Directorates for Water and Sewerage

SOC MANAGEMENT	Sectoral Monitoring Committee
SPORTS SERVICE STREET	Prime Ministry Under-Secretariat of the State Planning Organisation, Republic of Turkey
swondinbaa	Strengths, Weaknesses, Opp ortunities and Threats Analysis
	Technical Assistance
The Bank of Provinces	•lier Bank
ario (antario)	Technical Implementation Unit
	Terms of Reference
TURKS IAT	Prime Ministry Turkish Statistical Institute
TIBIAC STATE	Scientific & Technological Research Council of Turkey
	Turkish abbreviation for the 'EU Integrated Environmenta I Approximation Strategy, 2007-2023' prepared by the MoEF, 2006.
WWT Parties and Transfer	Wastewater Treatment Plant

EXECUTIVE SUMMARY

- 1. The Environment Operational Programme for 2007 -2009 (EOP) is one of the basic planning and action documents which will help Turke y to enhance the performance of the environmental sector, in line with European Union (EU) principles and policies. It has been formulated and developed by the Ministry of Environment and Forestry (MoEF) in close consultation with the European Commission (EC) for final approval by way of a Commission Decision under Article 8(1) of the Instrument for Pre-Accession (IPA) Regulation. It is also one of four (4) programmes from the Strategic Coherence Framework, 2007-2013 (SCF)¹ which are being elaborated with the aim of utilising EU funds for the period 2007-2013 in line with the Multi-annual Indicative Planning Document, 2007-2009 (MIPD)². In addition, it is defined as a document for approval by the EC indicating the priority areas for the country in regard to the environmental sector, including medium-term measures.
- 2. The overall objectives of the EOP are (a) to improve environmental protection, (b) to improve living standards for the population, (c) to improve access to drinking water, wastewater treatment and integrated solid waste services, (d) to strengthen capacity and governance.
- 3. The EOP is divided into five (5) Chapters:
 - Chapter A. gives an overview of the consultation process followed by a review of the current environmental situation regarding water and wastewater as well as solid waste management;
 - Chapter B. highlights the strengths, weaknesses, opportunities and threats identified in the environmental sector, and then describes the chosen strategic priorities and overall programme implementation;
 - Chapter C. gives information on the priority ax es, the related measures and their specific targets, with an account of the coherence and consistency of the EOP in relative to national and EU perspectives;

General Directorate for Regional Development (DG REGIO) Letter of 28 June 2007 (Ref: 06473) confirming the acceptance of the SCF in meeting Article 154 of the Implementation Requirements.

² EC General Directorate for Enlargement (DG ENLARG) Letter of 4 October 2006, Ref ENLARG B/jor/PM/D(2006) 105600.

- Chapter D. develops a financing schedule for each year covered by the applicable Multi-annual Indicative Financial Framework, 2008 -2010 (MIFF) and for each priority axes with its related measure, - the total contributions being allocated between national and EC sources;
- Chapter E. provides a description of the relevant structures and authorities for the management of the EOP. It further provides implementation timetables including monitoring and evaluation indicators and modalities as well as indicative evaluation activities and timing.
- **4.** The EOP focuses on improving and developing basic environmental infrastructure especially for water, wastewater and solid waste management. It will be implemented by reference to priorities and measures as follows:
 - Priority 1: Improved water supply, sewerage and wastewater treatment services.
 - Measure 1.1: Improving the quality of the drinking water supply;
 - Measure 1.2: Improving the quality of receiving water bodies.
 - · Priority 2: Improved integrated solid waste management.
 - Measure 2.1: Increasing the quantity of recycled waste and improving final disposal.
 - Priority 3: Technical Assistance (TA).
 - Measure 3.1: Enhancing management of the EOP;
 - -Measure 3.2: Enhancing beneficiary pla nning capacity.
- **5.** The EOP accords with the environmental priorities of the EU as described in the 6th Community Environment Action Programme. Moreover, its implementation fully supports:
 - The achievement of the general strategic objective of the country in the environmental sector, which is to create a healthy living environment considering the economic and social conditions of the country, implementing projects according to the EU Environmental Acquis' and SCF, 2007-2013;
 - The strategic vision for Turkey as set by the 9th National Development Plan, 2007-2013 (NDP) namely 'a country which grows in stability, shares its income equitably, has global competitiveness, has transformed into an information society and completed its harmonisation process for EU membership'.

- 6. This EOP is one of four (4) Operational Programmes (OPs) under the IPA Components III & IV for the period 2007 -2009. The other OPs are OP Regional Competitiveness, OP Transport and OP Human Resources Developm ent.
- 7. The implementation of the EOP will be financed by IPA resources totalling EUR 204.1 million and also by national resources to a total of EUR 68.033 million.
- 8. The contribution from the IPA was calculated on the basis of the maximum standard rate of 75% of the total public eligible cost for environmental infrastructure and the TA priority axes activities. The national co-financing concerns, therefore, investment operations provided under priority axes and the measures. All national co-financing will be provided in accordance with the IPA Financial Agreement.
- 9. The main beneficiaries of the EOP are the MoEF, municipalities, regional associations, water supply and sewerage companies, and non-governmental organisations. Implementation of the EOP will also contribute to improving the quality of life for the entire population of Turkey.
- 10. The Operating Structure (OS) under the MoEF is the key authority responsible for the planning, implementation and management of the EOP in accord with Article 21 of IPA Implementing Regulation 718/2007³. Implementation will be monitored by the Sectoral Monitoring Committee (SMC) established for this purpose, in compliance with Article 59 of IPA Implementing Regulation 718/2007. A Project Selection Committee (PSC) will be set up by the OS for (a) ensuring that projects are selected for funding and approved in accordance with the criteria and mechanisms applicable to the programme, (b) assessing the projects from the point of view of territorial and sectoral co-ordination.
- 11. The SMC will consist of representatives from the National IPA Co-ordinator (NIPAC), Prime Ministry Under-Secretariat of the State Planning Organisation (SPO) (Strategic Co-ordinator for Components III & IV), The Bank of Provinc es (•ller Bank), representatives from civil society and socio-economic partners, regional or national organisations of relevance for the EOP, National Authorising Officer (NAO) and a representative of the National Fund (NF).

Commission Regulation (EC) No. 718/2007 of 12 June 2007 Implementing Council Regulation (EC) No. 1085/2006 establishing an instrument for pre-accession assistance (IPA).

- **12.** The following authorities also play an important role in the overall co-ordination, management and audit of the EOP:
 - NIPAC, Ministry of Foreign Affairs Secretariat General for EU Affairs, will ensure the overall co-ordination of assistance under the IPA Regulation;
 - The Sectoral Co-ordinator for Regional Development (and the Human Resources Development) is the SPO which is responsible for the overall co-ordination and co-operation with NIPAC;
 - The Audit Authority (AA) which has the overall responsibility for verifying the effective and sound functioning of the management and control systems (according to Article 29 of IPA Implementing Regulation 718/2007).
- 13. This EOP has been prepared in compliance with the partnership principle, actively involving all the relevant administrative socio-economic partners and NGOs. It has been framed as a 'stand-alone' document and thus contains more background information and statistical data than would normally be expected from an OP. However, it is hoped that this documen t will contribute to a greater understanding of the complex aspects of environmental protection that urgently need to be addressed in Turkey within both a national and regional context.
- 14. Implementation of this EOP will also stimulate economic activiti es in the regions and promote new employment opportunities like recycling, innovative energy production, tourism and recreation. In this way crucial, environmental protection goes as going hand-in-hand with sustainable development in addition to creating a healthier and safer future.

INTRODUCTION

In order to improve the delivery of EC External Aid, a new 'Instrument Programme' has been designed. It covers co-operation between developing and industrialised countries with the EU, the EU neighbourhood policy, enlargement and other specific themes. Amongst the new legislation, the IPA has been designed as a 'simple, clear and concise regulation' replacing the previous Poland Hungary: Action for Restructuring of Economies (PHARE), Instrument for Structural Policies for Pre-Accession (ISPA), Special Accession Programme for Agriculture and Rural Development (SAPARD), Turkey Instrument and Community Assistance for Reconstruction Development and Stability in the Balkans (CARDS) Programmes. The new Instrument Programme was presented by the EC to the European Parliament and Council Regulation 1085/2006/EC establishing an IPA was adopted on 17th July 2006.

The IPA is thus one of the general instruments directly supporting external aid policies. The need to facilitate coherence and improve consistency with the EU, as well as achieving better results and a higher impact with the resources available, led the EC to propose a simplified framework for external actions over the 2007 -2013 period. At the junction between external assistance and internal policies, the IPA Regulation aims at providing targeted assistance to candidate and potential candidate countries for membership to the EU.

Moreover, this IPA constitutes a framework defining the objectives and main pri nciples for pre-accession assistance under five (5) components. The purpose of the-EOP is to meet the requirements of Component III which is specifically targeted for 'Regional Development'. It supports countries in policy development and prepares them for implementation and management of the EC's cohesion policy and in particular, their access to the European Regional Development Fund (ERDF) and Cohesion Fund (CF).

Assistance will be implemented through the EOP. This has been formulated and developed by the MoEF in close consultation with the EC for final approval through a Commission Decision in accordance with Article 8(1) of the IPA Regulation. The main emphasis for the environmental measures relates to (1) water supply, urban wastewater and integrated solid waste management, (2) rehabilitation and closure of old dumpsites and (3) areas related to sustainable development which generate environmental benefits.

The EOP is the basic planning and scheduling document which will help Turkey to enhance performance in the environmental sector, in line with EU principles and policies. It is based upon documentation drafted by the relevant Turkish authorities and the EC. It is also one of four (4) programmes from the SCF¹ which is being elaborated with the aim of utilising EU funds for the period 2007-2013 in accord with the MIPD².

In addition, it is defined as a document for approval by the EC indicating the priority areas for the country with regard to the environmental sector, in cluding medium-term measures.

The EOP also specifies the objectives, fields of intervention, expected results, management procedures and total financing planned for the environmental sector over the period 2007-2009. It contains a summary of the type of operations to be financed, an indication of the amounts allocated for each type of operation and an overall proposed implementation timetable.

It should be noted that this EOP deals only with the environmental sector and is presented in five (5) chapters:

Chapter A. - gives an overview of the consultation process and the relevant documentation used for the preparation of the EOP. This is followed by a review of the current environmental situation regarding water and wastewater as well as solid waste management. There then follows a summary of the recommendations from the ex-ante evaluation which, among others, identifies and appraises the disparities, gaps and potential for development, the goals to be achieved, and the coherence of the strategy proposed. The recommendations from this ex-ante evaluation have since been reviewed and incorporated into the present EOP.

Chapter B. - highlights the strengths, weaknesses, opportunities and threats identified in the environmental sector. There is then a description of the chosen strategic priorities and overall programme implementation with regard to the SCF, MIPD and sectoral mechanisms.

Chapter C. - gives information on the priority axes, the related measures and their specific targets. These targets have been quantified, where appropriate, using a limited but realistic number of output and result indicators. These indicators will determine the progress in implementing the selected measures, including the effectiveness of the identified selected targets. There is also an identification for each proposed measure of the final beneficiaries, the expected modalities and the specific criteria for the selection of projects. There then follows a discussion of the coherence and consistency of the EOP defined through an analysis of both national and EU perspectives.

Chapter D. - provides a financing table for each year covered by the applicable MIFF and for each priority axes with its related measure. The total contributions from both national and EC sources have also been defined.

⁴ Referred to in Article 57(4) and 166 of the IPA Regulation.

Chapter E. - provides a description of the relevant structures and authorities for the management of the EOP in accordance with Articles 21-26, 28, 29 and 31 of the IPA Regulation. It also details implementation timetables including monitoring and evaluation indicators and modalities as well as indicative evaluation activities and timing.

In summary, the EOP has been prepared in compliance with the partnership principle, actively involving all the relevant administrative and socio-economic partners. The entire programming process has been organised by the OS under the MoEF and includes the Department of Foreign Relations and the EU. It has been drawn up as a 'stand-alone' document and, thus, contains more background information and statistical data than would normally be expected from an OP. In this way, it is hoped that this document will contribute to a realistic understanding of the complex aspects of environmental protection that are urgently in need of remedy in Turkey within both a national and regional context.

A. CONTEXT, CONSULTATION AND COORDINATION

This EOP has been prepared after extensive discussions, meetings and consultations involving several dedicated working groups representing relevant stakeholders as well as senior management and staff of the MoEF. These included representatives of line Ministries, Prime Ministry Under -Secretariat of the State Planning Organisation (SPO), Ministry of Foreign Affairs Secretariat General for EU Affairs (EUSG), The Bank of Provinces (Iller Bank), the Turkish Statistical Institute (TURKSTAT), the National Association of Turkish Municipalities, as well as representatives from the Chamber of Commerce, Non-governmental Organisations (NGOs), Universities and relevant institutes. It also took into account and the following key documents as directional references:

- 9th National Development Plan (NDP), 2007 -2013;
- EU Integrated Environmental Approximation Strategy (UÇES), 2007 -2023;
- Strategic Coherence Framework (SCF), 2007 -2013 prepared by the SPO;
- · Law on Environment No. 5491 dated 26 April 2006;
- 6th EU Environmental Action Programme, 2001 -2010;
- IPA Multi-annual Indicative Planning Document (MIPD), 2007 -2009;
- IPA Multi-annual Indicative Financial Framework (MIFF), 2008-2010;
- Council Regulation (EC) No. 1085/2006 establishing an IPA;
- Council Decision of 23 January 2006 on the principles, priorities and conditions contained in the Accession Partnership with Turkey (2006/35/EC);
- Community Strategic Guide lines on Cohesion (CSG), 2007-2013 (Directive 2006/702/EC);
- Community Strategic Framework (CSF), 2007 -2013: Council Regulations 1080/2006/EC; 1081/2006/EC; 1082/2006/EC; 1083/2006/EC and 1084/2006/EC.

Several working documents as well as EC Directives and guidance documents were also used as references including "Directive-Specific Investment Plans (DSIPs)"⁵, "Integrated Pollution Prevention and Control (IPPC) Directive"⁶ as well as the "Water Framework Directive"⁷ and "Landfill Directive"⁸.

It is important to note that, while the EOP centres on what can realistically be achieved through the direct projected investment in the period 2007 -2009 concentrated on the identified environmental priorities of the drinking water, wastewat er and solid waste sectors, important horizontal and cross -cutting issues, e.g., bio-diversity, equal rights and civil society will also benefit from the implementation of the EOP.

A.1. NATIONAL POLICY AND SOCIO-ECONOMIC CONTEXT

The data used are taken from the latest available statistics provided by the Turkish Statistical Institute (TURKSTAT)⁹ and European Statistical Institution (EUROSTAT). They make a distinction between the three broad sectors of municipalities, manufacturing industries and energy production. Statistics given below are based upon municipal populations. The total municipal population in 2005 was in the order of 54 million whereas the national population amounted to some 73.9 million (TURKSTAT 2005).

A.1.1. WATER SECTOR

(a) Water resources

Turkey as a whole is not plentiful in water resources. Some catchment's areas are also located far from population centres and, thus, accessibility requires heavy investment. Because precipitation and snowfall is limited to 5 or 6 months per year and most of the land mass is situated in a semi-arid region, it is predicted that Turkey is at risk of becoming a 'water-stressed' country by 2030 (1954-2005, General Directorate of State Hydraulic Works-DS+, 2005). Thus, in order to draw on water resources on a year round basis, Turkey must have storage facilities such as dams and reservoirs. The dams built over the last 50 years regulate river flow, prevent flooding and provide safe drinking

⁵ Also referred to as Environmental Heavy-Cost Investment Planning (EHCIP) documents.

⁶ Council Directive 96/61/EC of 24 September 1996 concerning Integrated Pollution Prevention and Control

Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for the Community action in the field of water policy.

⁸ Council Directive 1999/31/EC of 26 April 1999 on the landfill of waste, as amended by Regulation (EC) 1882/2003.

⁹ This means that the Turkish data quoted is up to 2004 unless otherwise mentioned.

water. Coupled to hydro-power generation plants, water resources have significantly contributed to the overall socio-economic development of the country ¹⁰.

The effective management of surface and groundwater, however, represents a constant challenge, particularly in terms of effective protection. Factors which contribute t o the deterioration of surface and groundwater quality include:

- discharge of untreated domestic and industrial wastewater at source;
- urban wastewater discharged into surface waters with or without partial treatment;
- leakages from sewerage systems and run off from uncontrolled solid waste dumpsites;
- · excessive groundwater abstraction;
- · extensive use of pesticides and fertilisers in agriculture;
- deforestation and inadequate agricultural practices accelerating erosion, and creating accumulation of sediment in natural lakes and artificial dams.

The balanced use of surface and groundwater also needs to be managed in a more sustainable manner. Turkey should improve planning and reduce system leakages whilst ensuring all investments are appropriate and implemented in a timely fashion. The water resources also need to be more efficiently used.

(b) Water supply and water consumption

A total amount of 8.76 billion m³ of water was extracted by municipalities, manufacturing industry and energy production facilities in 2004. Some 4.96 billion m³ (57%) of this was used by municipalities for distribution through their network systems. Of this volume, 40% was abstracted from dams, 28% from wells, 27% from springs, 3% from riv ers and 2% from lakes and artificial lakes (see Table A.1.).

These are the overall conclusions of Environmental Impact Assessment (EIA) Reports which have been prepared since 7 February 1993 when the By-Law on EIA was enacted. Since then 44 dam projects have been evaluated in the scope of Annex 1 of the By-Law (Source, MoEF).

Table A.1. Municipal water abstraction by resources for 2004 (1000 m³/year)

Water resources	(Municipalities, manufacturing, industry and energy producers)	Municipalities
A Sea State Laborator	3 153 096	
Dam . I was a second	2 115 362	1 986 882
Spring I grant well	1 393 813	1-363-360
: Well	1 650 601	1 375 737
River	218 640	143 064
Lakes & artificial lakes	111 385	87 394
Others 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	118 365	:

	Total	8 761 262	4 956 437
--	-------	-----------	-----------

Source TURKSTAT, 2004

In 2004, out of the total of 3213 municipalities surveyed, 3159 municipalities replied that they had drinking water supply systems. This is 67 additional municipalities compared with 2001 (3092). They also serve 99% of the population compared with 95% in 2001 (see Table A.2.).

Again, in 2004, the number of municipalities with drinking water treatment plants was 304, compared with 236 in 2001. During 2001, only 1.66 billion m ³ of water was treated whilst in 2004, the volume increased by 25% to 2.08 billion m³. There was also a corresponding increase in population served by drinking water treatment plants, rising from 35% to 42% between 2001 and 2004. The number of treatment plants amounted to 140 in 2004 (chlorination and filtration or coagulation, flocculation, sedimentation, filtration, chlorination), compared to 113 in 2001. (see also Table A.2.). Where there are no plants, chlorination systems along the networks have been put in place. Raw water collected from springs, mainly in rural areas, is mostly distributed without treatment.

Table A.2. Comparison of water supply data of 2001 & 2004

Statistics on water supply	Y	ar
	2001	2004
Number o'anum apaines, ou ponetris	3215	3213
Mumbaryahungsballiga arvattay ahnang yanakunggyayaana	3092	3159
Municipal de serves de la	236	304
Number of alleres	113	140
Rain of conflation speed to dripting water supply perworks in this municipal population (-2).	95	99
Rate of population serveraby dWFP in total antipicinal population (2a).	35	42
Municipal varej sabauracijon (allian në vreatie de la	4.66	4.96
Amount of dranking water and follow myyear)	1.66	2.08

*: Drinking Water Treatment Plant

Source TURKSTAT, 2001& 2004

The water supply systems are characterised by high losses which have been estimated at around 55% of the available supply. There are two main reasons for this (1) water losses during transportation to the final consumers due to pipe leakages; the vol ume lost being a function of the age and the type of pipes as well as the pressure in the network, and (2) non-payments of bills, illegal connections and deficient meters.

The water quality varies from city to city and region to region. According to wate r quality data obtained from the Ministry of Health (MoH) (latest 2002 data), (1) in those provincial centres where 80% of the population are served by drinking water services, some 13% of the samples do not comply with national standards ¹¹, (2) where 60% of the population have such services, only 5% of the samples fail to comply, but (3) where 90% of the population are served, 14% of the samples do not comply. The data for non -compliance are given as 23% due to microbiological parameters (total faecal colif orms), 21% to chemical parameters and 10% to physical parameters. As these values demonstrate,

¹¹ Particularly relating to Turkish Standard (TS) 266.

the issues related to water quality are primarily caused by microbiological and chemical pollution.

In Turkey, water consumption is increasing due to population growth, urbanisation and industrialisation. These trends continue to lead to a reduction in renewable water resources. As mentioned in the water resources section, the quality of these resources is also decreasing.

However, in most of Turkey, water volume and quality can be substantially improved if networks were rehabilitated.

Environmental infrastructure investments will thus be targeted towards remediation:

(c) Wastewater

There have been important developments regarding the control and management of wastewater discharge within the larger municipalities in Turkey during recent years. However, a lack of financial and technical resources for the smaller but nevertheless important regions means that this is not the case nationwilde.

In 2004, a total of 6.03 billion m³ of wastewater were discharged to the environment from municipalities (48%), manufacturing industry (11%) and energy production (41%). Of this total volume, 92% was discharged into the sea and the rivers (66% to the sea and 26% to the rivers, respectively).

Only 2.92 billion m³ (48%) of this wastewater was discharged through network systems either into rivers (47%), into the sea (40%), into dams (3%), into lakes and artificial lakes (2%), to land (2%) and 6% into other receiving bodies (see Table A.3.).

Table A.3. Sectoral wastewater discharge according to receiving bodies for 2004 (1000 m³/year)

Receiving body	(Municipalities, manufacturing industry and energy producers)	Municipalities
Sea Le Company	3 997 960	1 178 001
	1 549 283	1 380 519
Eako Arunda lako	46 805	43 006-
P Dams Control of the	103 107	99 550
Artani Francisco	63 418	40 007
An Others, and a second of the	272 398	181 701

Total 6 032 971 2 922 784	6 032 971 2 922 784	Total	
---------------------------	---------------------	-------	--

Source TURKSTAT, 2004

Out of the total of 3213 municipalities surveyed in 2004, 2226 municipalities had sewerage networks, an increase of 10% compared with the year 2001 figure of just 2003. Also in 2004, 86% of the population was connected to sewerage networks, which is an increase of 5% compared with 2001 which was just 81% (see Table A.4.).

For EU comparison purposes, the figure for Bulgaria is 69% (EUROSTAT, 2002) and for Poland 57% (EUROSTAT, 2003).

The number of municipalities with wastewater treatment facilities increased from 238 in 2001 to 319 in 2004. This means that in 2004, 45% of households were connected to a wastewater treatment facility, an increase of 10% compared with 2001 (35%) (see-Table A.4.).

In 2004, 65% of wastewater collected was directed to wastewater treatment facilities corresponding to 1.90 billion m^3 out of 2.92 billion m^3 collected by sewerage systems. This is an increase of 13% compared with the 2001 situation when 52% of the wastewater collected was treated (1.19 billion m^3 out of 2.30 billion m^3) - **see Table A.4.**

In addition, in 2004 there were 172 wastewater treatment plants which is an increase of 37% compared with 2001 (126 plants), with 133 plants having secondary (biological) treatment facilities and 4 having both secondary (biological) and tertiary treatment facilities. The remaining 35 plants had only a preliminary treatment facility (see also Table A.4.).

Table A.4. Comparison of wastewater data of 2001 & 2004

Statistics on wastewater		Year	
	2001	2004	
Number of municipalities responding to the state of the s	3215	3213	
Number of municipalities served by sewerage delivorits	2003	2226	
Number of municipalities served by WWTP	238	319	
Number of WYTES:	126	172	
Primary Treament	25	35	
Se-ondary Treatment at the second of the sec	98	133	
Terdar Creatment From 1997 and	3	4	
Rate of population servers by sewerage network in abiat municipal population (%)	- 81	- 86	
Rate of population served by YWAR Instead murdenest population (4)	35	45	
The second of th	52	65	
Sewerage perwork ended with a WWTP 12 Volume (billion in Eyear)	1.19	1.90	

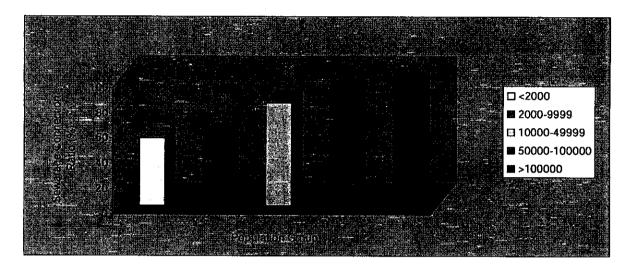
*: Wastewater Treatment Plant

Source TURKSTAT, 2001 & 2004

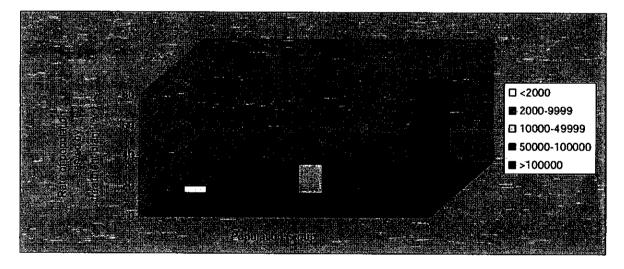
The sewerage systems are, for the most part, characterised by a high proportion of low quality pipe work. This means that (1) during the dry season, only part of the wastewater collected is directed to the treatment plant, the rest leaking and creating groundwater pollution, and (2) during the wet season, rainwater overflows the sewerage systems which causes problems for plant operations and is responsible for reduced performance and pollution of the receiving bodies.

The distribution regarding (1) the connection percentage, and (2) the population percentage served by a treatment plant according to settlement areas and based-upon population groups in 2004 were as follows:

Graph A.1. Sewerage connection ratio according to settlements size for 2004



Graph A.2. Rate of population served by treatment plant according to settlements size for 2004



Source TURKSTAT, 2004

Technical studies (Scientific & Technological Research Council of Turkey/TÜB•TAK and •stanbul Technical University) are in progress for the delineation of agglomerations in line with EU requirements and for the eventual publication of a detailed list based upon population equivalent (p.e.).

In order to protect the water resources, greater effort is needed for the treatment of industrial and domestic wastewater, taking into account the relevant E C Directives. This means a rational wastewater management implementation system is required to include collection, treatment, discharge from domestic and industrial sources and disposal of the treatment sludge according to the legislation and utilisation of the treated water in accordance with the sustainability principles.

Environmental infrastructure investments will thus be targeted towards remediation:

(d) Management of sludge from wastewater treatment plants

Currently, more than 80% of sludge from municipal wastewater treatment plants is produced by facilities owned by the metropolitan municipalities. The percentage used for agriculture is about 3-4% which represents around 3-0 000-40 000 tonnes per annum.

The use of sludge in agriculture is encouraged using 'best practices' and applying the "Sewage Sludge Directive" ¹². This is holds out immediate benefits for farmers but important investments are necessary in order to construct adequate storage and transportation facilities.

Council Directive 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.

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(e) Regional disparities

Table A.5. Statistics on water supply at Statistical Regions Level II, for 2004

STATISTICAL REGIONS LEVEL II	PROVINCES IN THE REGION	Rate of population served by drinking water supply systems in total municipal population (%)	Rate of population served by dWTP in total municipal population (%)
TRA2	A· r., Kars, I· d·r. Ardahan	100	0
TRB2	Van, Mu, Bitlis, Hakkari	16	0
TRC3	Mardin, Batman, • +nak, Siirt	-26	0.8
TRA1	Erzuruth, Erzincan, Baybult	100	0
TRC2	• anl-urfa, Diyarbak-r	66	48
TRC1	Gaziantep, Ad-yaman, Kills	100	22
TR72	Kayseri, Sivas, Yozgat	66	0.8
TR90	Trabzon, Ordu, Giresun, Rize, Artvin, Gümü-hane	98	26
TRB1	Malatya, Elaz•• , Bingöl, Tunceli	66	0.5
TR82	Kastamonu, Çank•r•,Sinop	86	8
TR83	Sgimsun, Tokat, Çorum, Amasya	66	32
TR63	Hatay, Kahramanmara• , Osmaniye	66	0
TR52	Konya, karaman	66	11
TR71	K-r-kkale, Aksaray, Ni- de, Nev- ehir, K-r- ehir	86	27
TR33	Manisa, Afyon, Kütahya, U. ak	66	, 2
TR61	Antalya, Isparta, Burdur	001	7
TR22	Bal-kesir, Çanakkale	86	42
TR81	Zonguldak, Karabük, Bart•n	86	42
TR62	Adana, Mersin	66	48
TR32	Ayd•n, Denizli, Mu• Ia	86	7
TR41	Bursa, Eski• ehir, Bilecik	001	63
TR21	Tekirda∙, Edirne, K•rklareli	100	19
TR51	Ankara	100	85
TR10	Istanbul	100	. 86
TR31	•zmir	66	26
TR42	Kocaeli, Sakarya, Düzce, Bolu, Yalova	001	71

EUROSTAT format, Data source: TURKSTAT

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Table A.6. Statistics on wastewater at Statistical Regions Level II, for 2004

STATISTICAL REGIONS LEVEL II	PROVINCES IN THE REGION	Rate of population served by sewerage network in total municipal population (%)	Rate of population served by WWTP in total municipal population (%)
TRA2	A.r. Kars, I-d-r, Ardahan	89	6
TRB2	Van, Mu•, Bitlis, Hakkari	52	22
TRC3	Mardin, Batman, • •rnak, Siirt	81	0
TRA1	Erzurum, Erzincan, Bayburt	68	12
TRC2	• ant-urfa, Diyarbak•r	68	55
TRC1	Gaziantep, Ad-yaman, Kilis	94	61
TB72	Kayseri, Sivas, Yozqat	98	31
TR90	Trabzon, Ordu, Giresun, Rize, Artvin, Gümü-hane	7.1	18
TRB4	Malatya, Elaz, Bingöl, Tunceli	88	54
TR82	Kastamonu, Canker, Sinop	68	2
TR83	Salmsun, Tokat, Çorum, Amasya	65	13
TR63	Hatay, Kahramanara , Osmaniye	61	15
TR62	Konya, Karaman	73	ω.
TR71	K-r-kkale, Aksaray, Ni- de, Nev- ehir, K-r- ehir	71	10
TR33	Manisa, Afyoh, Kütahya, U-ak	92	28
TR61	Antalya, Isparta, Burdur	54	31
TR22	Baj-kesir, Çanakkale	06	6
TR81	Zonguldak, Karabûk, Bart•n	88	33
TR62	Adana, Mersin	82	44
TR32	Ayd•n, Denizli, Mu• la	7.0	28
TR41	Bursa, Eski ehir, Bileçik	68	62
TR21	Tekirda•, Edirne, K•rklareli	91	
TR51	Ankara	86	87
TR10	Istanbul	97	72
TR31	jinīz•	96	76
TR42	Kocaeli, Sakarya, Düzce, Bolu, Yalova	93	7.1

EUROSTAT format, Data source: TURKSTAT

A.1.2. WASTE MANAGEMENT

(a) Municipal solid waste generation

Solid Waste Management plays a crucial role in terms of community health and protecting the environment and is vitally important for the country. Incre asing solid waste volumes due to population growth, technological development, industrialisation and urbanisation have become a major environmental problem.

In 2004, the amount of municipal solid waste per capita was 1.30 kg/day, equivalent to 474.5 kg/capita/year.

By comparison the EU average for 25 countries was 525 kg/capita/year (EUROSTAT, 2004).

Since separate collection is only implemented in a limited number of pilot urban centres , only a small proportion of waste is recycled and most of the wastes generated are landfilled.

(b) Municipal solid waste collection (including separate collection)

In 2004, out of the total of 3213 municipalities surveyed, 3028 municipalities were identified as providing solid waste management services. This represents an increase of 113 municipalities compared with 2001 (2915 municipalities).

The percentage of the total population receiving solid waste services was 97% in 2004, compared with 95% in 2001. Proper collection, transfer and disposal of solid was te to appropriate facilities and its destruction without threat to the environment are priorities especially for residential zones and neighbourhoods.

From the total municipal solid waste generated, around 25% -30% is estimated to be recyclable and recoverable as it is non-hazardous. Currently, separate collection is being implemented by several municipalities in 18 provinces.

In 2004, 578 municipalities, out of 3213 municipalities, provided separate collection services for medical waste. This represented a total of 146 additional municipalities over the number in 2001 (420 municipalities) - see Table A.7.

Table A.7. Comparison of municipal solid waste data for 2001 & 2004

Statistics on waste	Ye 2001	ar 2004
Number of municipalities responding	3215	3213
Number of municipalities receiving SWM: services	2915	3028
Number of municipalities receiving separate collection service for medical waste.	420	578
Rate of population receiving SWM services in total municipal population (%)	95	97

*: Solid Waste Management

Source TURKSTAT, 2001 & 2004

(c) Municipal solid waste recovery, treatment and disposal

General

In Turkey, uncontrolled and unsafe dumping of solid waste tends to be common practice. Existing dump sites generate even greater risks for the environment and public health because they are often located close to residential areas. Consequently, the implementation of integrated waste management services at regional level is considered to be a major priority on which urgent remedial action is required. Necessary actions includes the planning of waste services, collection, transfer, recycling and biological treatment (composting), possible interim storage and disposal of waste as well as the operation of handling and treatment facilities, in both industrialised and highly populated areas, as required by law.

It is also a priority to re-assess existing dump sites in terms of location, design, monitoring and maintenance. Those not meeting the national or EU standards s hould be closed or ameliorated, and investments will be needed for their reformation as landfill sites and in compliance with applicable legislation. In this way, the risks to the environment and public health will be either eliminated or significantly minimised.

In 2001, out of 25.13 million tonnes of solid waste collected by municipalities, 58% was disposed in municipal dump sites, 33% was landfilled in 12 controlled landfill sites, 1.9% was disposed by burial, 0.87% was composted in 3 composting facilities, 0.40% was disposed of into lakes and rivers, 1.37% was disposed by burning in an open area and 4.45% was disposed by 'other' methods.

For comparison, in 2004 out of 25.01 million tonnes of solid waste collected by municipalities, 65.7% was disposed in municipal dump sites, 28% was landfilled in 16 controlled landfill sites, 1.7% was disposed by burial, 1.4% was composted in 5 composting plants, 0.4% was disposed of into lakes and rivers, 0.3% was disposed of by burning in an open area and 2.25% was disposed of by 'other' methods (see Table A.8.)

Table A.8. Comparison of treatment and disposal of municipal solid waste data, 2001 & 2004 (1000 tonnes/year)

Statistics on treatment and disposal of solid waste	Ye	ar
	2001	2004
Number discomposting facilities in operation:	3	5
Number of controlled landfills je	12	16
Toki teamentor receivery operations	730 PEZ 19 22 10 PEZ 19 22	
Paper of the Company	218	351
TOBUTION CIRCOREL CONTRACTOR CONT		
Condition of the second se	24 471	24 407

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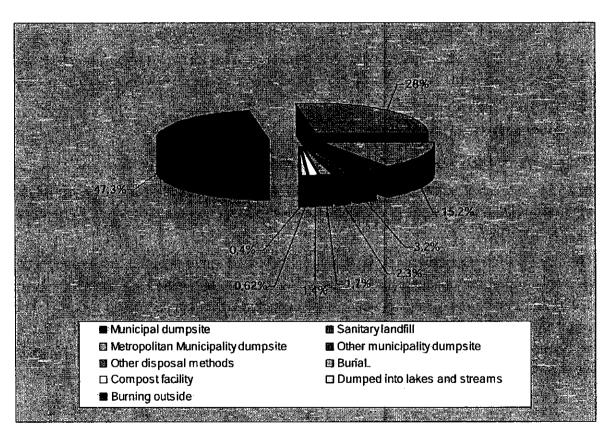
^{*} Disposed of in municipal dump sites, by burial or by 'other' methods Source TURKSTAT, 2001 & 2004

It is noted that there is an increase in the waste disposal in uncontrolled landfills. There are several reasons for this:

- Burning is prohibited and its control has been more effective, i.e., it is more visible to the authorities so they can apply controls, so the waste tends to be dumped in municipal sites;
- Disposal in controlled landfills carries a cost levy which the disposer i s reluctant to pay;
- Enforcement of the law and the application of penalties and sanctions need to be strengthened and more strictly enforced.

In percentage terms, relevant data are shown graphically for 2004 below.

Graph A.3. Disposal methods of municipal solid waste, 2004



Source TURKSTAT, 2004

In 2004, there were 5 composting facilities in operation which were located in *stanbul, *zmir, Kemer-Antalya, Denizli and Mersin Regions (compared with 3 in 2001). They treated 1.4% of the total amount of waste generated (351 000 tonnes). However, according to data obtained by MoEF, only 4 composting facilities were operated in 2006. The reason for the reduction is that there is a reluctance on the part of the public to purchase compost originating from the se facilities. Enhanced public relations and product promotion are required to overcome these prejudices.

In 2004, the number of sanitary landfill sites was 16 (compared with 12 in 2001). Currently, 21 landfill sites are in operation and 25 sites are und er construction based upon data obtained by MoEF.

Environmental infrastructure investments will thus be targeted towards remediation. Regarding synergies with other sectors it should be underlined that it is foreseen that construction and operation of regional solid waste landfill sites including gas recycling units, gas collection systems and pre-treatment facilities for leachates ¹³; Furthermore agricultural activities will be supported by composting.

Investments in the solid waste sector will thus lead to an efficient nationwide solid waste management system, protection of the soil, surface and groundwater and to a better quality of life for the population.

(d) Special waste management

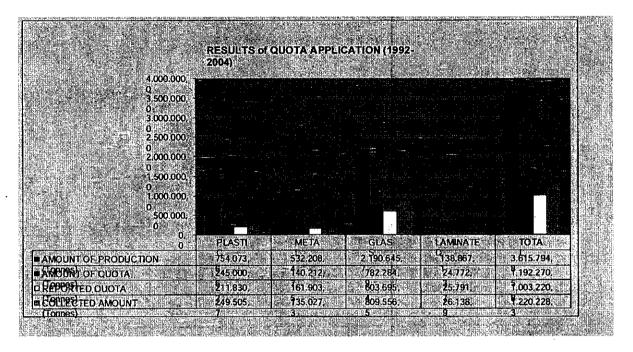
Packaging and packaging waste management

It is estimated that some 9.5 million tonnes (38%) of municipal solid waste consists of materials related to packaging. Activities for their management and recovery were started by MoEF in 1992.

The By-Law on Control of Solid Waste (1991 and amendments), enforced specific recovery and quota obligations on industry. As a result, between 1992 and 2004, some 1 220 228 tonnes of packaging waste were collected by an applied quota system. In this way, the environmental pollution resulting from these wastes was reduced and also an economic contribution was made by recycling the materials. The amount of packaging wastes that are collected and have to be collected by law is given below.

¹³ It should be noted that at present stanbul and Bursa Metropolitan Municipalities are utilising gas recycling units and the technologies and 'lessons learnt' are presently being evaluated by the MoEF for possible introduction into other municipalities.

Graph A.4. Amount of packages produced, collected and have to be collected according to the By-Law on Control of Solid Waste, 1992-2004 (tonnes)



Source TURKSTAT, 2004

In 2004, within the framework of harmonisation with the EU Environmental Acquis, the By-Law on Control of Packaging and Packaging Wastes came into force which aims to separate waste collection at source.

This By-Law covers all packaging materials which are available on the market inside the country without taking into account the materials used (plastics, metal, glass, paper-carton, composites and similar materials) or source (domestic, industrial, commercial and work place). Miscellaneous obligations and responsibilities are stipulated for packaging manufacturers, marketers, importers, munic ipalities, sales points and consumers for the various stages of collecting, recycling, and disposal.

The package manufacturers are responsible for designing, producing and marketing their packaging materials in such a way that they can be re-used, recycled and/or recovered as well as placing the sign 'recyclable package' onto the packaging itself. They must also apply to the MoEF stating type, production and amount of packaging produced in the previous year for each sales year, as well as preparing an effective packaging waste management plan.

The responsible enterprises can establish an 'authorised organisation' in order to achieve their recovery objectives, meet the costs incurred, perform educational tasks and other related activities. This organisation makes contracts with both the municipalities and the recovery units. The MoEF has designated Environmental Protection and Packaging Waste Recovery and Recycling Trust (ÇEVKO) as the 'Authorised Recovery Foundation' accordingly.

The planned recovery rates for the responsible enterprises or their authorised foundation partners are given below.

Table A.9. Planned packaging waste recovery objectives for 2005-2014

Туре					Recover Ye	y rate (% ear				
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Glass (Apac)	32	35	37	40	43	45	48	52	56	60
PASIC STA	32	35	37	40	43	45	48	52	56	60
Nestle	30	33	35	38	42 .	45	48	52	56	60
	20	30	35	38	42	45	48	52	56	60
eomposite a					_	-				

^(*) In the recovery of the composite packages; the rate that relates to the material constituting the most part of the amount by weight is used.

Source TURKSTAT, 2004

The collected packaging wastes are categorised and then sold to recycling firms. As an indication, the polyethylene three phthalat e (PET) packaging wastes are collected and used in the fiber manufacturing process at recycling facilities. Other types of plastics are converted to granules, sewage drainage pipes, buckets etc. A customised web-based computer programme has be en prepared in order to monitor the packaging and packaging wastes process and related activities. This is available at the www.atikyonetimi.cevreorman.gov.tr website.

However, since this By-Law on Control of Packaging and Packaging Wastes came into force in 2004, certain limitations in implementation have been encountered mostly concerned with separate collection at source, the determination of liability of the parties, labelling of packages, the format and filling process for notification forms as well as the licensing procedure itself.

In essence, this By-law was recently amended (2007). Liabilities of parties on collection and recycling are stated clearly without causing any conflict of authority. Additionally, provisions on collection were revised to enable the separate collection at source. Currently, 43 sorting facilities and 37 recycling facilities have been granted an operating licence by MoEF.

Medical waste management

The two incineration facilities are the •zmit Metropolitan Municipality Waste and Residue Treatment Incineration and the Recycling Company Incorporated (•ZAYDA•) and •stanbul Metropolitan Municipality Environmental Protection and Waste Materials Valuation Industry and Trade Company (•STAC) Medical Waste and Destruction Facility.

According to MoEF data (2006), medical waste disposed by incineration was 17 456 tonnes per year which represents 20% of the total medical waste generated. Old technology and low-capacity incineration units which were established wit hin various hospitals have been closed due to both legislative and operating problems.

The present position is that medical wastes should be stored at special hazardous waste storage areas or dedicated medical waste disposal areas if they cannot be dispo sed by incineration. The technical criteria concerning storage are included in the By-Law on the Control of Medical Wastes (2005).

The number of sanitary landfills in Turkey containing these features is limited. According to the MoEF data (2006), in total, some 21 646 tonnes of medical waste was disposed of annually in sanitary landfills and in conformity with the legislation. This volume related to Ankara, Bursa, Denizli, Erzincan, Gaziantep, •zmir and Malatya provinces.

However, this represented only 25% of the total medical waste generated in Turkey. This means that some 47 866 tonnes of medical wastes (55% of the total) are buried within municipal dumpsites using quicklime (**Graph A.5.**).

■ Burial; 47 866
■ Sanitary Landfill; 21 646
□ Incinerator; 17 456

Graph A.5. Amount of medical waste with respect to disposal methods, 2004 (tonnes)

Source MoEF, 2004

In the wake of administrative, technical and financial limitations in the municipalities, implementation of the relevant legislation needs strengthening and the installation of disposal facilities clearly need to be expedited. Another evident cause for concern is the training of staff. A training programme for both staff in health care institutions and in the municipalities was started on a country wide basis by MoEF in 2006.

Management of waste batteries and accumulators

The By-Law of Waste Battery and Accumulator Control (2004) prohibits, limits, prescribes, audits and stipulates legal responsibilities and penal implications in respect of battery and accumulator products with the aim of decreasing the use of hazardous substances in their production, their separate collection from domestic waste and other wastes after use, transportation and disposal, as well as their import and export.

The By-Law further states that disposing of waste batteries and accumulators either directly or indirectly in such a way that may pose a threat to the environment is prohibited. Moreover, in the context of the 'manufacturer's responsibility principle', legal obligations have been imposed on the importers of waste batteries and accumulators.

The rate of disposal for 2006 is specified in the By-Law as 80%. Licences have been granted by the MoEF for 13 facilities at present.

Vegetable oil waste management

The management of vegetable oil waste is governed by the By-Law of Vegetable Waste Oil Control (2005). It is estimated that in Turkey, 1.5 million tonnes of vegetable oil is used for cooking purposes annually, and approximately 150 000 -300 000 tonnes of waste oil are produced. When these oils are disposed directly into sewerage systems, they cause considerable pollution problems.

From the date this By-Law entered into force (April 2005) until the end of 2005, some 65 000 tonnes of vegetable waste oil were collected. Abo ut 2 000 tonnes consisted of spent cooking oil collected from hotels, restaurants and food processors. Moreover, in order to collect these waste oils in a more efficient manner, the number of temporary storage sites increased from one in 200 5 to eleven in 2007. Over the same period, the number of licensed vegetable waste oil transportation vehicles increased to 51. Currently, 37 collection facilities have been granted an operating license by MoEF.

In addition, audits were conducted by the MoEF under the supervision of the Ministry of Culture and Tourism at hotels and restaurants. As a result, some 6 385 facilities were contacted and 6 940 tonnes of waste oil were registered on an annual basis. In accordance with the By-Law, more comprehensive studies concerning the collection of domestic cooking vegetable waste oil will get underway by 2008.

It is also of interest that several recycling facilities have started to produce bio -diesel from vegetable waste oil which will make a significant positive net economic contribution in the future.

End-of-life-tyres

The management of end-of-life tyres (excluding bicycle tyres) is governed by the By-Law on Control of End-of-Life Tyres (2006) and entered into force in 1 January 2007. A 'quota obligation' is applied to tyre manufacturers and importers for the collection of end-of-life tyres again within the framework of the 'manufacturing responsibility principle'.

As a result, from 1 January 2007, a quota is imposed on manufacturers based on projected internal market tyre tonnage, i.e., 30% for the first year, 35% for the second year, 40% for the third year, 45% for the forth year, and 50% for the fifth year.

The MoEF is responsible for issuing the requir ed licences. Currently, 4 recovery facilities have been granted operating licences.

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(e) Regional disparities

Table A.10. Statistics on municipal solid waste at Statistical Regions Level II, for 2004

	PROVINCES IN THE REGION	In total mynicipal population (%)	In sanitary landfill (%)
TRA2	A+r-, Kars, I-d-r, Ardahan	96	C
TRB2	Van, Mu· Bitlis, Hakkari	06	0
TRC3	Mardin, Batman, • •mak, Siirt	93	0
TRA1	Erzurum, Erzincan, Bayburt	86	0
TRC2	· ant-urfa, Diyarbak-r	86	C
TRC1	Gaziahtep, Ad-yaman, Kilis	86	45.56
TR72	Kayseri, Sivas, Yozgat	95	39.17
TR90	Trabzon, Ordu, Giresun, Rize, Artvin, Gumü+hane	76	0
TRB1	Malatya, Elaz., Bingöl, Tunceli	93	0
TR82	Kastamonu, Çankır, Sinop	95	0
TR83	Samsun, Tokat, Çorum, Amasya	96	C
TR63	Hatay, Kahramanmara• , Osmaniye	96	C
TR52	Konya, Karaman	96	C
TR71	K•••kkale, Aksaray, Ni· de, Nev· ehir, K•r· ehir	06	C
TR33	Manisa, Afyon, Kütahya, U•ak	86	0
TR61	Antalya Isparta, Burdur	66	26.53
TR22	Bał-kesir, Çanakkale	66	19.78
TR81	Zonguldak, Karabük, Bart-n	86	0
TR62	Adana, Mersin	66	0
TR32	Ayd∙n, Denizli, Mu∙ la	100	13,96
TR41	Bursa, Eski ehir, Bilecik	100	47.02
TR21	Tekirda∙, Edirne, K•rklareli	66	0
TR\$1	Ankara	100	0
TR10	Istanbul	100	92.97
TR31	·zmir	100,	59.22
TR42	TR42 Kocaeli, Sakarya, Düzce, Bolu, Yalova	68	0000

A.1.3. STRATEGIC COHERENCE FRAMEWORK

The SCF is a strategic document which provides a "frame of reference" for the OPs under regional development and human resources development components of the IPA.

In line with the Council Regulation (EC) No . 1085/2006 of 17 July 2006 establishing an Instrument for Pre-Accession Assistance, the SCF has been prepared by Turkish authorities in close cooperation with the Commission. Management, implementation and monitoring mechanisms for the SCF will be finalized after the enactment of Prime Ministry Circular.

The SCF, as a major strategic document, takes into account the priorities of the Republic of Turkey and those of the EU as stated in major policy documents, especially in MIPD adopted by the Commission on April 30, 2007.

EOP will be in compliance with the objectives of "Turkey's EU Integrated Environmental Approximation Strategy (UÇES), 2007-2023". During the implementation of EOP, projects will respect to sustainable development principles and will meet EU Environmental Acquis. Due to their significant benefits and the nature of requiring heavy cost investment, water, wastewater and solid waste services are given priority in EOP. The following broader criteria set will be considered to guide in establishing project selection criteria set of EOP:

- 1. Relevance to environmental plans and sectoral strategies and policies:
- 2. Population (Municipalities having higher population will be given higher priority);
- **3.** Shortage of financing capacity of municipalities (Municipalities having capacity of co-financing and meeting operational costs will be given priority);
- 4. Financial sustainability (cost recovery principles, user and polluter pay s principles);
- Environmental priorities (The infrastructure projects contributing to the followingfactors will be prioritised);
 - · Improvement in public health,
 - Protection of sensitive areas,
 - Protection of natural resources.

A.1.4. LEGAL FRAMEWORK

In 2003, Turkey adopted a National Programme for Adoption and Transposition of the EU Environmental Acquis and, since then, a substantial body of corresponding legislation has been transposed. In 2006, good progress was made by transposing legislation on urban waste treatment and the quality of bathing water. Some aspects of the EC Directives are already covered by Turkish legislation, although in practice, in the water sector, both transposition and implementation of the A cquis remains at an initial stage.

Transposition of the Acquis on solid waste management is well advanced and in good accord with the "Waste Framework Directive" ¹⁴. Further alignment is needed, e.g., on legislation regarding polychlorinated biphenyls, end-of-life vehicles, waste from electrical/electronic equipment, restriction of certain hazardous substances in electrical and electronic equipment, landfills and waste incineration.

(a) Water supply and wastewater

The legal framework is based upon the Law on Environment No. 2872 (1983) amended by Law No. 5491 (2006) together with the Law on Fisheries No. 1380 (1971) amended by Laws No. 3288 (1986) and No. 4950 (2003) laying down rules for controlling and protecting the quality of inland and sea water including controlling the discharge of all wastewater, the Groundwater Law (1960), Law No. 6200 for Establishment and Duties of General Directorate of State Hydraulic Works (1953) and the Law on Waters (1926).

These laws are complemented by a number of more specific regulations, including:

- By-Law on Bathing Water Quality (2006);
- By-Law on Urban Wastewater Treatment (2006);
- By-Law on Water Intended for Human Consumption (2005);
- By-law on the Quality of Surface Water Intended for the Abstraction of Drinking Water (2005);
- By-Law on Control of Pollution by Dangerous Substances in Water and its Environment (2005);
- By-Law on Water Pollution Control (2004);
- By-Law on Aquaculture (2004);
- · By-Law on Protection of Waters against Nitrate Pollution from Agriculture (2004);
- By-Law on Discharges of Wastewater to Sewerage Systems (1984);

¹⁴ Council Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on waste.

- By-Law on Fisheries (1971 and amended in 1986 and 2003);
- By-Law on Disinfection of Drinking Water (1967).

The management of sludge for agricultural purposes is specified in the By-Law on Control of Soil Pollution (2005). This is encouraged using 'best practices' and also in the application of the "Sewage-Sludge Directive" ¹².

Turkey is a signatory to the Barcelona Convention (Convention on the Protection of the Marine Environment and the Coastal Reg ion of the Mediterranean), the Bucharest Convention (Convention on the Protection of the Black Sea Against Pollution), the MARPOL 73/78 Convention and its Appendices (I, II, V) (International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978), OPRC Convention (International Convention on Oil Pollution Preparedness, Response and Co-operation, 1990), CLC' 92 Convention (International Convention on Civil Liability for Oil Pollution Damage, 1992) and FUND' 92 Convention (International Oil Pollution Compensation Fund, 1992).

To give effect to Decision No. 2850/2000/EC of the European Parliament and of the Council dated 20 December 2000 setting up a Community framework for co-operation in the field of accidental or deliberate marine pollution, Turkey has passed the Law Pertaining to Principles of Emergency Response and Compensation for Damages in Pollution of Marine Environment by Petroleum and Other Noxious Substances (2005) and its implementation By-laws.

In order to prevent ships discharging their waste, the By -Law on Taking Waste from the Ships and Waste Control (2004) has been prepared according to the Port Waste Directive¹⁵.

With respect to the Barcelona Convention, monitoring in seawater has been carried out in the Mediterranean and Aegean Seas for more than one decade under the title of 'MED POL Pollution Monitoring Activities'. In addition and within the Bucharest Convention, monitoring activities have been carried out-in the Black Sea since 2004 under the 'Black Sea Pollution-Monitoring Project'.

Directive 2000/59/EC of the European Parliament and of the Council of 27 November 2000 on port reception facilities for ship-generated waste and cargo residues.

(b) Waste management

Again, the legal framework is based upon the Law on Environment No. 2872 (1983) amended by Law No. 5491 (2006). This, together with the regulation on Control of Solid Waste Management (1991), was further revised in 1991, 1992, 1994, 1998, 1999, 2000 and 2002 and 2005.

These laws are also complemented by a number of more specific regulations, including:

- By-Law on Packaging and Packaging Waste Control (2004 and amended in 2007);
- By-Law on the Control of the Tyres which have completed their life -cycle (2006);
- By-Law on Control of Hazardous Waste (1995 and amended in 2005);
- By-Law on Control of Solid Waste (1991 with several amendments between 1992 and 2005);
- By-Law on the Control of Medical Wastes (1993 and amended in 2005);
- By-Law on Waste Vegetable Oil Control (2005);
- By-Law on Soil Pollution Control (2001 and amended in 2005);
- By-Law on Excavation Soil, Construction and Demolition Waste Control (2004);
- By-Law on Waste Oil Control (2004);
- By-Law on Control of Used Batteries and Accumulators (2004);
- Communiqué on General Rules to be Obeyed on Wastes used as Additional Fuel (2005).

The Convention on the Control of Trans boundary Movements of Hazardous Wastes and Their Disposal (Basel Convention) was signed in 1989, for the purpose of preventing the illegal export of waste from developed countries to Turkey, and was ratified in 1994.

Tendering procedure for the project "Technical Assistance for the Preparation of National Waste Management Plan in Turkey" is going on. The project will be financed by the national sources. This project aims to prepare "National Waste Management Plan" and "Regional Waste Management Plans" including all kinds of waste streams (household, hazardous and special waste as well as medical waste, etc.) in accordance with national and EU legislation.

The National Waste Management Plan is planned to be completed in 2008. Regional Waste Management Plans will be developed based on the results of the National Waste Management Plan.

(c) Horizontal issues

Equal opportunities for men and women are fundamentally guaranteed in the. Constitution (Article 10) as well as prohibiting all forms of dis crimination based upon language, race, colour, sex, political opinion, philosophical belief or religion. The Labour Law No. 4857 (2003) as well as the Civil Servant Law No. 657 (1965) ensures all citizens the right to work, as well as equal conditions for both men and women as regards, for example, work load and remuneration.

The Law on Environment No. 2872 (1983) as amended by Law No. 5491 (2006) is a major environmental milestone and provides the legal basis for the responsibility of the municipalities to deliver environmental services. It defines a clearer role for the MoEF and allows for recruitment of additional staff, as well as for additional financial resources in the environmental sector. It also introduces sustainable development princip les as a cross-cutting policy, in particular for energy, transport and agriculture. Moreover, it embodies protection of the natural resources, polluter liability, the principles of user and polluter pays, sectoral integration, public awareness and public involvement. These also constitute key EU environmental policy objectives.

The National Environmental Strategy & Action Plan and E IA requirements (part of Environmental Law No. 5491) integrate the principles of sustainable de velopment into all policy sectors. Furthermore, sustainable development is addressed by the project entitled 'Integration of Sustainable Development into Sectoral Policies' ¹⁶. This facilitates the integration of these principles into national and regional d evelopment planning, both at the micro-economic and sectoral levels.

However, sustainable development is still not applied systematically and certain shortcomings are apparent in relation to (1) understanding the general principles and concepts, (2) co-ordination both between the policy making authorities (i.e. Ministries and their affiliated organisations) and implementation at central and local levels, and (3) at Government and social level (including the private sector) with acceptin g individual ownership and responsibility for the goals.

¹⁶ Financed under the 2004 EU Pre-Accession Financial Assistance and which started in 2006.

Harmonisation of the Acquis related to the Birds and Habitat Directives ¹⁷ and the establishment of NATURA 2000 networks is currently partially transposed through the following laws: the Law on Environment No. 2872 (1983) as amended by Law No. 5491 (2006), the Law on Fisheries No. 1380 (1971) amended by Law No. 3288 (1986) and amended by Law No. 4950 (2003), the Law on Terrestrial Hunting No. 4915 (2003), the Law on National Parks No. 2873 (1983), the Law on the Protection of Cultural and Natural Heritage No. 2863 (1983), the Law on Forests No. 6831 (1956) and Statutory Decree on the Establishment of the Authority for the Specially Protected Areas No. 383 (1989). These laws apply various conditions regarding the conservation of sites and species to support biodiversity by taking economic, social, cultural and regional needs into consideration, e.g., nature conservation activities being regulated in national parks, nature parks, nature reserve areas, natural monuments, special protection areas, natural and archaeological protected areas, conservation forests, seed pools, gene forests and agricultural areas.

Some provisions of the "Birds Directive" ¹⁷ are also covered within the context of the national environmental legislation. For example, in the Law on Terrestrial Hunting No. 4915 (2003), there are rules for the protection of wildlife. In Article 4, protection areas and wildlife improvement areas have been defined with the aim of protecting the wild bird habitats. Also, in the By-law on Wildlife Protection and Improvement Areas, there are provisions for the classification, management and inspection of these areas, and with decisions regarding activities which are allowed or prohibited.

The second part of the Draft Law on the Conservation of Nature and Biodiversity contains provisions relevant to NATURA 2000 sites. It also includes the methodology for determining NATURA 2000 sites, their management, and a schedule of banned activities.

¹⁷ Council Directive 79/409/EEC of 2 April 1979 on the conservation of wild birds (the Birds Directive) and Council Directive 92/43/EEC of 21 May 1992 on the conservation of natural habitats and of wild fauna and flora (the Habitats Directive).

A.1.5. INSTITUTIONAL FRAMEWORK

(a) Water and wastewater sector

There are a number of institutions in Turkey which have duties and responsibilities in water and wastewater management. These are defined in their respective establishment laws and are summarised as follows:

- The Municipalities are responsible for constructing and operating the required infrastructure for water and urban wastewater management. In 2004, there were 3 225 municipalities in Turkey of which 16 were metropolitan municipalities. The Directorates for Water and Sewerage ('SkIs' in Turkish) in metropolitan municipalities (or their equivalent in other municipalities) and service unions of local authorities are in charge of the construction, operation and maintenance of water supply and urban wastewater infrastructure.
- There are 35 106 villages with a population of less than 2 000 inhabitants (TURKSTAT 2004) outside the municipal boundaries. Constructing and operating environmental infrastructure in these locations is the responsibility of the **Provincial** Administrations.
- The Ministry of Environment and Forestry (MoEF) has responsibility for the
 overall co-ordination of the development and implementation of drinking and
 wastewater policies in Turkey, as well co-ordinating coherence with the EU
 Environmental Acquis. In particular, they are responsible for the preparation and
 implementation of environmental plans, pollution prevention of water resources,
 as well as monitoring, authorising, inspection and preparing EIAs.
- The Ministry of Health (MoH) is responsible for determining the quality standards for drinking water, monitoring these standards and for the appropriate legislation concerning these areas.
- The Ministry of Agriculture and Rural Affairs (MARA) is responsible for developing research studies, plans, programmes and projects for protecting and improving soil, water, flora and fauna, fisheries and similar resources; adopting necessary measures for protecting the agricultural environment; controlling and protecting the quality of inland and sea water including the control of all wastewater; monitoring nitrate pollution in freshwater and groundwater.
- The Ministry of Culture and Tourism is supporting public investment including environmental infrastructure in tourist areas (mainly along the shoreline). This includes municipalities and villages as well as hotels, resorts and holiday villages.

- The General Directorate of State Hydraulic Works (DS•) is responsible for water development, management and allocation (surface and groundwater), monitoring water quantity and quality. The DS• is also responsible for the construction of irrigation schemes and dams as well as developing and constructing water supplies for settlements having a municipal administration (Master Plans, design, construction, including technical and financial assistance). Furthermore, DS• is responsible for wastewater treatment systems in situations where urgent action is required for the protection of public health and the environment.
- The Bank of Provinces (*ler Bank) is affiliated with the Ministry of Public Works and Settlements. The Bank provides services at the request of the municipalities and also technical and financial assistance to local administrations for their drinking water and wastewater projects. The municipalities are the shareholders of the Bank and, in effect, act as loan guarantors. The restructuring process of *ller Bank has been initiated in order to strengthen its role as an investment and development bank but the process has not been fully completed pending the passage of enabling legislation.
- The Former General Directorate for Rural Services (2002 refor m) were responsible for water supply and sanitation in villages with a population of less than 3 000 inhabitants. Their responsibilities have since been transferred to the Special Provincial Administration (except for *stanbul and *zmit Metropolitan Municipalities where responsibility remains with the municipalities).
- Prime Ministry Under-Secretariat of the State Planning Organisation (SPO) has responsibility for co-ordinating the preparation and realisation of annual investment programmes. They have the function of approving all investment projects requiring public finance from both internal and external sources.
- Prime Ministry Turkish Statistical Institute (TURKSTAT) is responsible for collecting, evaluating and distributing the relevant data and statistics.
- Ministry of Foreign Affairs has international responsibilities for determining and co-ordinating foreign policy regarding the environment and waters within a trans-boundary context.

(b) Solid waste management

There are a number of institutions in Turkey which have duties and responsibilities for solid waste management. These are also defined in their respective establishment laws, summarised as follows:

- In the Municipalities, a dedicated municipal or service unions of local authorities is responsible for constructing and operating the required infrastructure.
- In the villages outside the municipalities, construction and operation of solid waste infrastructure is the responsibility of the **Provincial Administrations**.
- The Ministry of Environment and Forestry (MoEF) is responsible for the overall
 co-ordination of the development and implementation of solid waste policies in
 Turkey as well as co-ordinating the approximation of the EU Environmental Acquis.
 The main responsibility of MoEF on waste management is -
 - Publishing waste management plans and updating them, thus, defining specific duties for solid waste management;
 - Regulating approvals sought for waste import and hazardous waste export and its transportation through Turkey.
- The Ministry of Finance is responsible for the regulation and administration of the 'environmental cleaning tax' (see also Section A.1.6.(c)).
- The Ministry of Health (MoH) is responsible for licensing, monitoring and enforcement of laws regarding disp osal facilities.
- The Ministry of Culture and Tourism supports solid waste management in tourist areas.
- The Bank of Provinces (*ler Bank) provides technical and financial assistance in solid waste management to local administrations.
- Prime Ministry Under-Secretariat of the State Planning Organisation (SPO) has responsibility for co-ordinating the preparation and realisation of annual investment programmes. Their approval is required for all investment projects requiring public finance from both internal and external sources.
- Prime Ministry Turkish Statistical Institute (TURKSTAT) is responsible for collecting, evaluating and distributing relevant data and statistics.

A.1.6. PRESENT ECONOMIC INSTRUMENTS

(a) Investment needs in compliance with the EU Acquis, 2007 -2023

According to the UÇES, 2007-2023, the preliminary estimate for investment costs in order to comply with the EU Environmental Acquis including industrial, agricultural and urban infrastructure is in the order of EUR 59.006 billion.

The projections for distribution of the needs per sector for the period 2007 -2023 are as follows:

Table A.11. Investment needs per sector, 2007-2023.

Sectors	in in the second se	vestment needs	
	(Million YTL)	(EUR Million)	Rate
Walley sector total	63 124	33 969	0.58
Solid waste sector total	17 766	9 560	0.16
All section total and the section of	796	428	0.007
You know that the second second	0	0	0.00
POR MARIE TO TOLINE	0.	0	0.00
inclusing policitor prevention securicoral	27 474	14 785	0.25
Nature protection sector total	490	264	_ 0.004

Total	109 650	59-006	1.00

Source, UÇES 2004

The sectoral distribution of environmental investments between 2007 -2023 is estimated at EUR 34 billion for the water sector (including wastewater) and EUR 10 billion for the solid waste sector.

Drinking Water: Local administrations are responsible for financing drinking water services (on a 'user pays principle'). However, central government will continue to support those projects which are considered to have the greater economic impact. In this respect, at least 55% of financial resources from the central bu dget for the environment sector will be used in drinking water projects of DS•. In addition, 30% of EU Funds (i.e., IPA, up to 2013) will be allocated for projects between 2007 -2010 but this will decrease to 20% after 2011 ¹⁸. Co-financing of the EC-funded environmental infrastructure projects related with EOP will be provided by •ller Bank.

Wastewater: Local administrations are responsible for financing wastewater services. Some 40% of EU Funds (i.e., IPA, up to 2013) will be allocated to wastewater projects and this will increase to around 50% after 2011 ¹⁸. Co-financing of the EC-funded environmental infrastructure projects related with EOP will be provided by left Bank.

Solid Waste: Local administrations are responsible for financing waste service s ('polluter pays principle'). Some 30% of EU Funds (namely IPA, up to 2013) will be allocated to solid waste projects¹⁸. Co-financing of the EC-funded environmental infrastructure projects related with EOP will be provided by •ller Bank.

Current expectation is that some 80% of the environmental expenditure will be financed by the public sector and remaining 20% by the private sector¹⁸.

(b) National Environmental Fund (NEF)

Central administration resources include the National Environmental Fund (NEF) managed by the MoEF.

The NEF was established by the Law on Environment No. 2872 (1983) as amended by the Law No. 5491 (2006). Revenue sources are given in the By-Law on Follow-up and Collection of Environmental Revenues and Utilisation of Allowances Foreseen. In Return for their Collection, No. 26482, dated 3 April 2007. B esides detailing the procedures and collection of environmental income (see next Section), this By-law also stipulates the terms and rate of interest when these funds are allocated for environ mental expenditures, grants and loans.

¹⁸ These percentages are provisional and may be changed at a later date depending upon agreement by the relevant parties.

The categories of projects eligible for financing from the NEF are established through an annual plan adopted by the fund investigation committee ¹⁹. Fund resources are intensively used for wastewater treatment, wast e management, recycling, EIA studies, protection of biological diversity, environmental monitoring and measurement projects.

(c) Environmental revenues from tariffs, fees and administrative fines

Currently the basis for tariff policy is provided in the following legislation:

- (1) Law on Environment No. 2872 (1983) as amended by the Law No. 5491 (2006), specifically Articles 8, 11 and 16;
- (2) Municipal Law, No. 5393 (2005);
- (3) Metropolitan Municipalities Law No . 5216 (2004);
- (4) Municipal Revenue Law, No. 2464 (1981) as amended by Law No. 5035 (2003);
- (5) Law on Establishment and Duties of General Directorate of *stanbul Water and Sewage System Administration No. 2560 (1981);
- (6) Law No. 6200 for Establishment and Duties of General Directorate of St ate Hydraulic-Works (1953)...

According to the By-Law No. 26482 dated 3 April 2007 environmental revenues can be raised by way of:

- Payments from 1% of Cost Insurance Freight (CIF) costs for imported fuel and 0.05% of CIF costs of scrap;
- 1% of the fees for water and-wastewater collected by the Water and Sewerage Administrations of Metropolitan Municipalities;
- Interest from loans:
- Grants, donations and aid sources:

^{19 (1)} For project preparation and construction of wastewater treatment plants, solid waste disposal plants, recycling plants, in which rehabilitation of environment and prevention of environmental pollution are aimed, a credit can be granted up to the 45% of the project value to natural and legal persons and paid in full or in installments in accordance with the articles of the contract.

(2) The maturity of credit to be given for the project preparation and construction can be 10 years as maximum, and a grace period can be given up to 3 years. (3) The maturity of the credit to be given for the project preparation and construction for other facilities and plants related to prevention of environmental pollution and environmental rehabilitation can be 5 years as maximum, and a grace period can be given up to 2 years. Back payments can be made in equal installments as from the year following grace period.

 Administrative fines imposed according to the Law on Environment No. 2872 (1983) as amended by the Law No. 5491 (2006).

These revenues are being used (1) as loan or grant for feasibility and preliminary water, wastewater and solid waste studies, (2) project preparation and construction works of wastewater treatment plants, (3) waste disposal and solid waste recovery facilities, (4) expenses concerning the 'elimination of environmental pollution'.

Pursuant to the By-Law on Tariffs²⁰ which is published by each metropolitan municipality based upon the authority delegated by the Law on Establishment and Duties of General Directorate of *stanbul Water and Sewage System Administration No. 2560 (1981), fees are collected for wastewater discharge (but subject to a limit of 50% of the fees charged for water supply).

Tariffs for industrial facilities are laid down in the By-Law on Discharge of Wastewater into Sewerage Networks²¹ and if the discharge parameters are not met then a fine is imposed according to the pollution load and volume.

According to the By-Law on Determination of Tariffs for Wastewater Infrastructure Facilities and Domestic Solid Waste Disposal Facilities which is in the course of publication, tariffs are set according to each municipal council on an annual basis. The wastewater infrastructure administration s and municipalities must fully recover their costs arising from the establishment, operation, maintenance and rehabilitation of wastewater infrastructure. In addition, solid waste disposal administrations will set tariffs and fees for the full cost recovery of collection, transfer, upgrading, monitoring and maintenance of the facilities after closure.

The Municipal Revenues Law No. 2464 (1981) as amended by Law No. 5035 (2003) establishes the (literally translated) 'environmental cleaning tax' (Turkish: Çevre Temizlik Vergisi) and its implementation. This tax is updated and published in the 'Communiqué on Municipality Revenue' every year by the Ministry of Finance. According to the Communiqué for 2006, this tax will be based upon water consumption and charged to households in 2007 as YTL 0.17/m³ for metropolitan municipalities and YTL 0.14/m³ for other municipalities. The amount to be paid will be clearly stipulated on the water bill and collected by the appropriate authority.

²⁰ Published by each Metropolitan Municipality so the numbers and dates of enforcement are different.

²¹ Again, some Metropolitan Municipality sets their own by-Laws, so the number and dates of enforcement are different.

The level of tax varies for different commercial entities depend ing on their legal basis (incorporated companies, limited liability, joint venture, private ownership). This tax is also updated and published in the 'Communiqué on Municipality Revenue' on an annual basis by the Ministry of Finance.

As mentioned **in Section A.1.4.**, the Law on Environment No. 2872 (1983) as amended by the Law No. 5491 (2006) is considered a major milestone in setting environmental tariffs, fees and administrative fines. For example, Article 11 stipulates 'the parties which are using and/or will be using wastewater infrastructure systems, shall contribute to all the expenses that will be incurred by the administrations responsible for the treatment systems; concerning investments, operation, maintenance, repair works, rehabilitation and cleaning works, in proportion to pollution load and amount of wastewater regardless of whether or not having a connection system. Those who benefit from these services are subject to a fee for collection, treatment and disposal of wastewater at the rate determined by the municipal commission and the other administrations that are authorised in this Article. The fees that are collected in accordance with the provisions of this paragraph cannot be used for services other than wastewater related services.'

Article 11 states that 'the modalities and principles related to the contribution share of the expenditures and establishment, maintenance, rehabilitation and operation of all kinds of disposal systems and treatment systems, wastewater treatment systems, pre-treatment systems and wastewater infrastructure systems that will be installed in authorised regions of the Water and Sewerage Administrations of the Metropolitan Municipalities and the Municipalities, the Industrial Zone Administrations, the Co-operatives of Small Industrial Estates, the Ministry of Culture and Tourism or its accredited units and wastewater infrastructure administrations will be determined and implemented by the MoEF'.

In addition, until January 2007, the revenues from administrative fines were being used, among other purposes, for sewerage systems and the rehabilitation of rivers. After this date, and as stated in Article 24 of the Law on Environment No. 2872 (1983), 50% of administrative fines are used to compensate the expenses for audits made according to the Law and other environmental services. The remaining 50% is recorded in the general budget as revenue.

Table A.12. Administrative fines (YTL)

Year	2004	2005	2006
TORK TORK	3 511 13†	1 363 367	461 754

Annex-1 was added to the Law on Environment No. 2872 (1983) as amended by the Law No. 5491 (2006) with a decision stating that the Cabinet is authorised to increase fines, which are determined in Articles 20, 21 and 22, up to an amount of ten times the value. Although there have been debates about the actual ratio of fine increase to be applied in various cases, nevertheless this legislation demonstrates the determination of the administration to ensure that environmental protection is a priority and heavy sanctions will be applied for infringements, including possible imprisonment in severe cases.

(d) Other economic instruments

- The metropolitan municipalities, municipalities and/or the water and sewerage management units include an 'environmental cleaning tax' in their 'Water Consumption Bill' that they are obliged to apply to residential properties from 1 Jan 2004;
- The tax for business premises is discounted by 50% in municipalities which have a
 development priority and where the population is less than 5 000 excluding those
 within the boundaries of the metropolitan municipalities;
- The new By-Law on Determination of Tariffs for Wastewater Infrastructure Facilities and Domestic Solid Waste Disposal Facilities is under preparation and expected to come into force by the end of the 2007;
- Guidelines have already been drafted to assist municipaliti es in setting their tariffs for solid waste services. They include provisions for 'full-costing' and 'polluter pays' principles. The 'Cost Plus Method' is provided in order to calculate a 'total system cost' which includes the service costs plus the yield on capital;
- The DS+ has constructed irrigation projects and transferred operational rights to the
 Water User Organisations. These organisations do not receive ownership rights from
 DS+. Law No. 6200 (1953) states that all of the actual operations and maintenance
 (O&M) costs incurred by DS+ for irrigation investments are subject to repayment
 by the beneficiaries. The charges are determined each year by Decree from the
 Council of Ministers. This law also authorises the Council of Ministers to make
 discounts for O&M costs.

Both the By-law and the guidelines which are under preparation enable the municipalities to set their own tariff taking into account such parameters as the population served, number of staff employed in the sector and equipment costs in such a w ay that the sustainability of environmental infrastructure services will be ensured.

It should be noted that most of the key legislation for environmental tariffs, fees and administrative fines has only been in force for, at most, the last two years. For this reason it is not possible to provide definitive details of whether the laws are being applied equally throughout the country, nor to assess the effectiveness of the collection process, how the revenues are being used, nor whether the tariffs are sufficient to cover costs (e.g. O&M) including whether or not affordability levels have been properly taken into account. While full evidential data are not yet available, several studies are proceeding at present both at national and regional level. However, it can be stated that the MoEF are satisfied that the environmental fees are collected efficiently by the Water and Sewerage Administrations of the Metropolitan Municipalities.

A.2. COMMUNITY STRATEGIC FRAMEWORK

In July 2006 the EU adopted a number of Regulations ²² and the CSG, 2007-2013, completed the legislative framework which incorporated the principles and priorities of the EU Cohesion Policy. They act as an indicative framework for Member States to put forward their National Strategic Reference Framework (NSRF) for 2007-2013 defining their own specific development needs and responding strategies. This national strategy (SCF) forms the basis for the OPs developed by each individual sector.

Danube and Black Sea Region Task Force, set up in November 2001 (DABLAS)²³ Initiative and Barcelona Convention will be taken into account in investment plans as mentioned in the Turkish SCF.

The CSF so comprehends the Lisbon Strategy ²⁴ of March 2000 which introduced long term economic and social development goals in order for 'Europe to become the most competitive and dynamic knowledge -based economy in the world, capable of sustainable economic growth with more and better jobs, and greater social cohesion'.

Regulations 1083/2006/EC laying down the general provisions on the European Regional Development Fund (ERDF), European Structural Fund (ESF) and Cohesion Fund (CF); 1089/2006/EC on the ERDF; 1081/2006/EC on the ESF; 1082/2006/EC on the EU grouping of territorial co-operation; 1084/2006/EC on the CF.

The DABLAS Task Force comprises a number of representatives from the countries in the region, the <u>international Commission for the Protection of the River Danube (ICPDR)</u> the <u>Black Sea Commission</u>, International Financing Institutions (IFIs), the EC, interested EU Member States, other bilateral donors and other regional/international organisations with relevant functions. The EC General Directorate for Environment (DG ENV) holds the Secretariat of the Task Force.

²⁴ Also known as the Lisbon Agenda or Lisbon Process.

Another important priority for the Community framework is EU competitiveness. In this context, 'growth centres' are perceived as a major dynamic both for competitiveness and convergence. For this reason, Turkey particularly has a special interest in establishing and supporting such growth centres primarily in the relatively poorer regions and in accordance with socio economic convergence priority.

The CSF thus combines the competitive objectives of the Lisbon Strategy with convergence objectives of social and economic cohesion. It also provides important inputs and benchmarks for key Turkish strategic policy documents such as the 9 th NDP, SCF, MIPD and, indeed, for this EOP. Although the guidelines are more binding for Member States, nevertheless Turkey foresees the need for policy harmonisation in order to achieve effective adoption of the systems and implementation structures.

This EOP contributes strongly 'to strengthen the synergies between environmental protection and growth' which is a pillar of one of the three priorities of the CSF, namely, 'improving the attractiveness of Member States, regions and cities by improving accessibility, ensuring adequate quality and level of services, and preserving their environment potential'. In particular, developing environmental infrastru cture will contribute to reducing external environmental costs for the economy such as health costs, clean-up costs and damage recovery. Developing prevention and implementing recycling in the solid waste sector will contribute to maximising economic benefits and minimising costs. These activities which stimulate innovation are cost effective and stimulate productive job creation.

Among the several ways identified by the CSF in which cohesion policy can continue to make a significant contribution to the ach ievement of the Lisbon priorities, the EOP emphases:

- investing in areas of high growth potential: further business development is envisaged by providing sustainable water and wastewater services and adequate and reliable solid waste management where do mestic funds are insufficient;
- supporting the implementation of coherent strategies over the medium to longer term: by using the opportunity to apply a stable seven -year investment programme (initially for three years for the EOP, 2007-2009) as the basis for long term, sustainable development;
- developing synergies and complementarities with other Community policies: is strongly supported, in particular, with activities related to approximating the EU Environmental Acquis and the broader aims of sustainable development promoted under other sectors;

- assistance provided in the framework of the SCF must fully respect compliance with sustainable development principles and meet relevant environmental norms, and the relevant Environmental Acquis such as directives on EIA, Habitats and Birds (in order to avoid negative impacts on areas to be determined as NATURA 2000 sites) as appropriate;
- investments in the environment sector will be planned in line with the river basin approach and waste management planning;
- the projects to be financed must be appraised case by case to ensure consistency with the relevant obligations of the Environmental Acquis.
- mobilising additional resources: activities supported by the EOP le verage additional national resources, both public and private, for use in coherent national and regional strategies;
- improving governance: activities supported by the EOP are designed to favour multi improvements of governance including (1) implementation of institutional governance activities (integrated at the earliest stage of project preparation i.e. during preparatory and feasibility studies), (2) developing transparency in policy making decisions, (3) promoting an evaluation culture by developing benchmarking performance tools for service delivery and monitoring, and (4) promoting best management practices;
- promoting an integrated approach to territorial cohesion: the EOP contributes to sustainable development actions by ensuring that social, economic, and environmental factors are integrated into regional strategies and plans.

In line with the priorities of practicality and feasibility of implementation over the period of 2007-2009, the EOP will concentrate upon two sectors namely (1) water and wastewater, and (2) solid waste.

A.3. PARTNERSHIP CONSULTATION

A.3.1. 'PRINCIPLES OF PARTNERSHIP' IN MANAGEMENT OF EU FUNDS

The 'Principles of Partnership' have an important role in the management of the EU Structural Funds (CFs, ERDFs and ESFs) and are described as a legal requirement in EC Directives. In addition, the management of IPA F unds and indeed the IPA Common Provisions mention that during the planning of grants incorporating civil society and other stakeholders, the implementation of these principles is mandatory ²⁵.

The partners to be included in the process are (1) local administrations and other public authorities, (2) economic and social partners, (3) NGOs (including environmental and gender organisations), (4) citizens or consumer institutions demanding participation in the process of the OP, (5) parties that could be directly or indirectly affected by the programme strategy (e.g. agencies providing co -financing, final beneficiaries of projects, expert/research institutions, Chambers, syndicates).

These principles contribute to the process in the following ways:

They support the preparation of more qualified programmes in line with EU principles: Whilst programming the use of EU funds, partners can contribute by being afforded information about the programme content during the early stages and effect the relevant changes. In this way, it is ensured that accurate environmental, social and economic targets are identified and projects are selected that are in line with these targets. In addition, through discussions with local people, their knowledge and expertise can be utilised, thus enhancing programme relevance.

They increase the performance of the programme: Applying the principles in the implementation stage allows an open forum to discuss and thus, as much as possible, reduce possible areas of conflict and enhancing the cost effectiveness of eventual programme expenditures. Transparency also counteracts possible funding irregularities while ensuring that funds are properly targeted towards those priorities and measures identified in the EOP.

They increase the positive impact of the programme: making it easier to develop projects that are in line with the real needs of local stakeholders and also facilitate monitoring of the environmental, social and economic impacts of the projects and the EOP.

Council Regulation (EC) No. 1085/2006 dated 17 July 2006 establishing an Instrument for Pre-accession Assistance - the IPA Regulation, especially Part I, Common Provisions, Title II, Common Rules for Implementation, Chapters II and IV.

The IPA Regulation gives each be neficiary country the discretion to determine their own programme partners and to co-ordinate their participation under the framework of its national regulations and implementation policies. However, during implementation, the following principles must be taken into consideration;

- Equality of partners;
- Transparency of process with due regard to the needs of different partners;
- Clearly stating the structure, content and responsibilities of the process from the outset;
- · Sharing information in a timely manner;
- Ensuring the process is within the capacity of the partners;
- Ensuring consistency of document control e.g. all partners are working on the same version of documents;
- If possible, ensuring decision-making is by consensus or by agreement with a lar ge majority;
- Sharing information transparently with the public and all partners as to selection procedure.

The MoEF is conducting all activities of the EOP in line with these principles and in co-operation with its partners. More details are gi ven in the next Section.

A.3.2 PARTNERSHIP CONSULTATION FOR THE EOP

The MoEF organised the elaboration of the EOP, 2007 -2009, in compliance with the partnership principle.

Following the issue of the IPA Regulation dated 17 July 2006, the preparation of the EOP was launched by the MoEF under the overall co-ordination of the SPO. During the preparation process, importance was attached to ensuring coherence and consistency with Turkish strategic frameworks including the Accession Partnership and the SCF.

Consultations were carried out with public institutions and NGOs at national and local level and in accordance with operational national rules and practices. Partners and actors including other Ministries, other Government institutions, the private sector, oth er civil society organisations as well as academics were actively involved. A list of all participating stakeholders as well as events and meetings held is given in Annex 1-2.

The MoEF co-operated with the Regional Environmental Cent re - REC Turkey²⁶ - to reach the environmental NGOs active in the country, inform them about the programming process and effectively involve them in the complete procedure. REC Turkey also prepared a short guidebook²⁷ to assist the consultation process. The guidebook was specially designed as an information base to inform NGOs and other relevant stakeholders on the structure, content and strategy of the EOP, and to foster and facilitate their involvement in the management of the IPA for the environm ental sector.

A first draft version of the EOP was completed in March 2007. This was distributed to NGOs in May 2007 for collecting their initial comments, but it did not yet include a list of selected projects. Response observations and opinions were take n into consideration for the final version of the EOP by August 2007 which included a list of proposed selected projects. This was distributed to NGOs who were again requested to express views. The final draft emerged after the response comments were taken into account.

Participating partners in the formulation of the EOP will have continuing involvement in monitoring its implementation along with other representatives within the EOP Monitoring Committee.

Sequentially, the consultation process proceeded as follows:

- A first meeting was organised in July 2006 at the MoEF in order to present the basics of the IPA and to plan the different stages of the EOP preparation, including the establishment of working groups;
- Stakeholders were updated about the preparation process and training was organised under the co-ordination of the SPO;

Regional Environmental Centre - REC Turkey (http://www.rec.org.tr/index_en.asp) is the country office of the Regional Environmental Centre for Central and Eastern Europe (www.rec.org). The not-for-profit, non-advocacy, international organisation acts as a catalyst by bringing together all relevant stakeholders to address common problems and to foster effective dialogue across the environmental spectrum.

²⁷ Under the current financial support from the EC (Strengthening Civil Society in the Pre-Accession Process: NGO Grant Facility - Sub-project A5: Protection of the Environment; Contract TR0501.02), REC Turkey aims to contribute to the consolidation and broadening of political reforms and EU alignment efforts through strengthening the civil society in Turkey in the pre-accession process. REC Turkey provides technical support services such as topic-oriented training on priority environmental issues and organises dialogue between governmental institutions and NGOs on the current EU accession process; offers information exchange services to support public access to environmental information such as publications on civil society involvement in the EU accession process.

- Working Groups prepared situation analyses, socio-economic analyses including Strengths, Weaknesses, Opportunities and Threats Analysis (SWOT Analysis), intervention areas and priorities as well as financing strategy;
- A seminar was organised by REC Turkey in co-operation with MoEF on 5 March 2007 in Ankara for NGOs. This focused upon the objective, structure and steps of the IPA, the EOP program ming process and 'partnership principle' targeting to disseminate relevant information to the environmental partners to foster and facilitate their involvement in the management of IPA for the environmental sector. A total of 40 representatives from 25 different NGOs participated;
- A prioritisation was carried out with the aim of preparing a 'pipeline of projects'. This process included three stages namely (1) the identification and updating of criteria for project prioritisation (in line with the Priority Environmental Projects for Accession-PEPA criteria²⁸), (2) the preparation, updating, and circulation of questionnaires to municipalities, and (3) evaluation of data received from municipalities and prioritisation of projects by applying criteria using a database management system. As a result of this process, a prioritised project list was agreed. A sufficient number of projects were selected for preparation of feasibility studies including technical preliminary studies, EIAs, detailed design and technical specifications and tender dossiers for submission to the selection committee (see Section C.4).

These are: 1) Accession, 2) Environmental, 3) Financial, 4) Economic, 5) Technical, 6) Social & Political, 7) Commercial & Institutional.

A.4. EX-ANTE EVALUATION

The full text of the ex-ante evaluation report is readily available upon request. The recommendations given were most ly concerned with management issues during EOP implementation, summary of the main ones being as follows:

- 1. The further elaboration of River Basin Management Plans and implementation of integrated river basin management to address the problem of water r esources not being uniformly allocated along the territory of the country with the population in some regions being disadvantaged as a consequence. The response would also meet the need for improving the water balance and provide an increase in accessible water resources.
- 2. The realistic and credible quantification of baseline and target values of the indicators as a key task for the successful planning and implementation of the EOP. That was regarded as particularly critical for the output indicators, si nce the result indicators are usually estimated by reference to the output indicators.
- 3. Taking into account that the procurement workload of the OS will be increased considerably during the next two years, the following actions were recommended by the consultant:
 - Acceleration of the procedures for acquiring the first group of additional staff, with particular emphasis to staff with extensive experience in public procurement and project preparation;
 - Acceleration of the procedures for elaboration of standard ten der documents, including as far as possible technical specifications and standard drawings.
 Standard documents should rely on The International Federation of Consulting Engineers (FIDIC) contracts and take into account relevant standard documents of other EU-countries.
- 4. In order to assure an acceptable trade-off between transport and tourism infrastructure on the one hand, and environmental protection on the other, especially in regard to potential NATURA 2000 areas, a close and constructive co-operation should be maintained between the responsible Ministries for the EOP and OPs Transport and Regional Competitiveness. It was proposed to establish and maintain co-operation through the PSC of the EOP or by joint efforts of the SPO and responsible OS. This co-operation was regarded as of crucial importance by the elaboration and approval of the EIAs for major transport and tourism infrastructure works.

All the recommendations of the ex -ante evaluation have been accepted and incorporated into this EOP.

B. ASSESSMENT OF MEDIUM TERM NEEDS, OBJECTIVES AND STRATEGIC PRIORITIES

B.1. SOCIO-ECONOMIC ANALYSIS

B.1.1. ANALYSIS OF THE ECONOMIC AND SOCIAL SITUATION

In recent years, Turkey has made significant progress in implementing structural reforms and achieving macro-economic stability, and developments have been observed in socio-economic indicators. These developments have made remarkable contribution s to the EU accession process as well. However, further efforts are needed in many areas to ensure long-term economic growth, full employment, social cohesion and sustainable development.

B.1.2. SOCIO-ECONOMIC DEVELOPMENTS IN MAIN AREAS

In order to converge to European countries in terms of economic and social indicators and narrow the inter-regional disparities for sustainable and balanced development two complementary sets of conditions need to be satisfied in Turkey. The first is that Turkey must have sufficient infrastructure especially in areas of transportation and environment and the capacity to innovate and to use both existing know-how and new technologies effectively. The second condition is to develop human resources and especially to have a labor force with appropriate skills that is necessary for a knowledge society.

Environment

-Economical and technological development, population growth, rapid urbani sation and uncontrolled consumption of natural resources have increased pressures upon the environment. In order to mitigate these problems, several measures have been implemented in recent years. In the context of the EU environmental approximation process, significant progress has been made, especially in urban wastewater management, waste management, nature protection, noise and EIA.

Further legislative arrangements and investments are needed for EU harmo nisation. Transposition and implementation of the EU Environmental Acquis need to be planned with an integrated approach that should be supported with a financing plan. For t his purpose, Turkey's EU Integrated Environmental Approximation Strategy (UÇES), 2007-2023 has been prepared. The main objective of this strategy is to create in a healthy living environment considering the economic and social conditions of the country and to approximate national legislation to the EU Environmental Acquis. The right of living in healthy and balanced environment, protection of the natural resources, taking measures for environmental protection, user and polluter pay s, sectoral integration,

sustainable development, public awareness, public involvement and publ ic-private partnership are the main principles taken into account in this strategy.

According to TURKSTAT's 2004 statistics, 85.6% and 45.2% of the municipal population are served with sewerage systems and wastewater treatment plants, respectively. The rate of connection to sewerage system and wastewater treatment plants in north-western Europe is above 90%. This rate is around 60% among the new 10 Member States (The European Environment State and Outlook 2005, EEA). The data related to the wastewater treatment are presented hereby.

B.2. SWOT ANALYSIS

The following analysis addresses the internal strengths and weaknesses as well as the external opportunities and threats (SWOT Analysis) for the EOP. The key areas for consideration were legal (sub-divided into EU and national legislation) and institutional (sub-divided into human resources and infrastructure).

During the analysis exercises, the current situation was assessed in detail and also took into account the aspirations of the various stake holders as well as relevant inputs from numerous surveys and reports. A similar robust process was applied in determining strengths and weaknesses as well opportunities and threats. All these finding were brought together to form an accurate assessment of both internal and external operating environments in which the EOP could be safely and realistically set. Process outcomes are presented in tabular form as follows:

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SWOT Analysis - Turkish Environmental Sector

Sub Group: Environment Operational Program me

fable B.1. SWOT Analysis - Turkish Environmental Sector

Key Area	Sub-areas	Strengths	Woaknessee
		 On-going transposition and compliance with EU Acquis. 	 Many laws still to be approximated but the 'gap' is closing.
		 EU Integrated Environmental Approximation Strategy (2007-2023) (Turkish UÇES) has been ratified by the High Planning Council. 	High resource costs for approximating EU environmental legislation (nearly 300 environmental Directives need to be transposed).
		 Working documents such as several environmental DSIPs (18) have been prepared (http://www.cowlprojects.com/envest/). These are Directive-Specific documents detailing the investment planning for environmental heavy-cost investment projects for, amongst others, the water, wastewater and solid waste sectors in compliance with relevant EC Directives. 	
		 The new Environmental Law (No: 5491) lays down the legal basis for: 	 Still some duty and responsibility conflicts to be settled between the institutions. especially with environmental monitoring, inspection and enforcement activities.
	电极电极 化基础	delivery of environmental services;	· Insufficient monitoring, inspection and enforcement and lack of reliable data
		 the principles of 'producer liability and 'the polluter pays'; 	(e.g. for monitoring performance of service providers).
	nek.	 use of environmental revenues (fees, fines) for environmental protection, prevention of pollution and rehabilitation and closure of old dumpsites; 	
		 incentive for creation of representative local authority union bodies. 	
		 9th NDP for 2007-2013 has been ratified. 	

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Wakinasse	 of • Certain divisions of the central and local (municipal and regional) administration involved in the process of implementing environmental polices need strengthening in administrative, financial and technical capabilities required for the measurement, monitoring, planning, supervision, inspection, reporting as well as project development and implementation. • Apart from metropolitan municipalities, a limited number of municipalities have established (semi) independent bodies for the management of environmental services staffed with suitably qualified personnel. • Administrative capacity needs strengthening. • Procedures for obtaining national co-financing aligned with the EU need strengthening. • Lack of guidelines for the donor's contribution in order to maximise the impact and effectiveness of EU funds (leverage affects). 	 Insufficient financial resources dedicated to infrastructure investments and operations aimed at environmental protection which are heavy-cost investments. Small and medium municipalities face difficulties in the sustainability of their investment in infrastructure projects. Relatively weak infrastructure for waste management, wastewater and overall canalisation management, except in metropolitan municipalities. Procedures need strengthenihg for obtaining national co-financing aligned with EU procedures and timetables. Support needed to prepare tender documents to standards in line with EU requirements, capacity building needed in tendering processes in line with EU rules. Lack of procedures and guidelines for the donors' contribution in order to maximise the impact and effectiveness of the EU funds (leverage affect).
Strengths	Increasing awareness and sensitivity about the environment in all segments of society, especially among the youth. Open policy of MoEF to employ highly qualified and dynamic personnel. Additional TA already in place for preparation of projects/supervision and conducting capacity building activities.	• Local funding is made available for EOP requirements. • Facilities used for the management of water, wastewater and solid waste disposal have been substantially completed in the metropolitan municipalities so "lessons learnt" can be applied.
Sub-areas		
Key Area		

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Weaknesse	 Absence of an easily accessible, transparent and traceable database to help management as well as an efficient 'real time' updating system. 	Water Water management is not fully integrated and is based on the river basin approach.	 Insufficient and outdated infrastructure of water cycle management resulting in ineffective drinking water supply and ineffective collection and treatment of wastewater. 	 Losses and leakages in existing water supply need urgent remedy allied to good Operations & Maintenance (O&M) procedures. 	Waste	 Insufficiently developed systems for waste collection including separate waste collection, waste transportation and environmental-friendly waste treatment facilities. 	 Insufficient measures for waste minimisation, reuse, recycling and recovery. 	 The role of 'street scavengers' in solid waste recycling must be addressed in a targeted OP. 	 Insufficient secondary markets for re-cycled products especially from composting. 	 Large number of risky municipal landfills, illegal dumpsites, past contamination, micro-dumping sites, due to solid waste uncontrolled discharge practices.
Strengths	 There is an existing well-developed construction industry capable of undertaking requisite capital works. 	Modern technology and international standards have been already applied in several existing drinking water, wastewater treatment and solid waste disposal facilities,								
Sub-areas				eunta eunta eunta	une beig	Se sobel La regio La casa Se sobel Se sobel				
Көу Агва			in i	ielio	itust	u e ni Suj				

Key Area Sub-areas	Opportunities	Threats.
	 Availability of EU financial and technical support. 	Insufficient implementation of legislation.
	 Continue to transpose and implement the Acquis related to the framework legislation, international environmental conventions, and legislation on nature protection, water quality, IPPC and waste management plus implementation and enforcement of the amended "EIA Directive". 	
	 More environmental organisations including NGOs are becoming involved in decision- making and legal enforcement in environmental protection. 	 Comparatively low level of integration of environmental requirements into sectoral policies e.g. agriculture, energy, tourism.
	 Orl-going implementation of a decentralisation agenda. 	 Limited incentive to encourage Private Public Partnership (PPP) or Private Sector Participation (PSP) in environmental investment as well as in
		operations according to modern environmental management principles (situation know as a 'legal gap').

²⁸ Council Directive 85/337/EEC of 27 June 1985 on the assessment of the effects of certain public and private projects on the environment.

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一个时间,这一个时间,我们是一个时间,我们就是一个时间,也是一个时间,也是一个时间,也是一个时间,也是一个时间,也是一个时间,也是一个时间,也是一个时间,也是一个	Inratis	Employment opportunities in the private sector may attract key staff away from Government services.	• An increase in the rate of migration from rural areas	necessitate additional investments in initiastructure to a greater lever urant.g.	efit	Risk of price escalations (e.g. inflation) impacting upon present and future investments.		ile. • The banking sector and other financial intermediaries need to be persuaded		Delayed project preparation and implementation of projects may lead to loss of IPA funds (N+3' commitment).	- ANI	of	nai	/ in	hgu	 http Water and coastal zone pollution from many sources (e.g. Danube - the Black Sea, Sea of Marmara and Mediterranean) are out of control of the 		l to
	Opportunities	EU supports for capacity building and Twinning projects.	National scientific and research institutes can develop trick (commercial) expense in this sector.	All line Ministries open to encouragement to include environmental issues in their planning process as a priority, as well as being involved with horizontal issues (e.g. EIAs, planning programmes and civil society participation).	By improving environmental infrastructure, public health benefit and economic benefit are expected for all segments of the society.	Municipalities are acquiring more information and becoming more aware of environmental issues and the need for up-dating and improving their	infrastructure. Opportunity to develop realistic environmental tariffs, taxes and fees enabling	especially DSIPs.	initiasu ucture investinents at institutions) (IFIs).	• •	protection efforts, Increase of financial capacity for environment projects due to alternative	financing of environmental	Realisation of accelerated economic growth and increase of national	financial resources for investments in the environmental sector especially in the utilities infrastructure field.	 Potential for a certain degree of self-financing for utilities projects through adequate development of PPP opportunities. 		Presence of existing strong communication and publicity and information dissemination outlets (newspapers, radio, TV) in Turkey.	Introduction of effective and contemporary techniques applied in relation to the control effective in other countries.
	Key Area	w.C.d.		All Plant						mjerij			· · · · · · · · · · · · · · · · · · ·				uone iek	

B.2.1. ISSUES HIGHLIGHTED IN THE SWOT ANALYSIS

(a) Strengths

It is important to note that significant steps have already been taken to approximate the Turkish environmental legislation to that of the EU ³⁰. This is an on-going process and, although there is still considerable work to be carried out, nevertheless the gap between Turkish and EU legislation is closing. Several new/modified laws have been drafted which will further serve to bridge the gap. In addition, the UÇES, 2007-2023 has been prepared and ratified. Further transposition and implementation of the EU Environmental Acquis is planned and this document includes an investment strategy based upon 18 DSIPs developed (under the EHCIP) including for the important "Water Framework Directive" and "Air Quality Framework Directive" through to the "Landfill Directive" and "Sewage Sludge Directive" 12.

Another important milestone is the ratification of the newly published Environmental Law No. 5491 (2006) amending the Environment al Law No. 2872 (1983). This law will make a major contribution for improving national environmental protection as well as a change in depth towards meeting international requirements. It lays down the legal basis for:

- the responsibility of the municipalities, settlements and industrial zones for the delivery of environmental services;
- the principles of 'producer liability' and 'the polluter pays';
- use of economic tools for environmental protection, prevention of pollution and rehabilitation and closure of old dumpsites.

All the above are in line with the 9th NDP for 2007-2013 which has been ratified by the Government.

The document 'Harmonisation programme to the EU Acquis, 2007-2013, dated 17 April 2007' presented by the Minister of Economy and Chief Negotiator for EC negotiations, Mr. Ali BABACAN gives a 'road map' for future Turkish legislation.

³¹ Council Directive 96/62/EC of 27 September 1996 on ambient air quality assessment and management.

(b) Weaknesses

The need to strengthen capacity is required in various environmental areas and at all levels of the Turkish administration namely the central administration, decentralised branches of the central institutions (provincial directorates or regional offices) as well as in the municipalities. In the past, bottlenecks have arisen in such areas as the preparation of tender documents, the capacity to carry through the tender process, overcoming the novelty of the multi-annual planning process and similar weaknesses. These will all be addressed in the priority measures especially in the TA component.

Although Turkey has successfully effected important economic and social changes over the last decade, significant efforts and resources are still needed in order to reduce the social and economic development gap between the 16 metropolitan municipalities and the other municipalities.

The environmental quality in some regions is far below EU standards, mainly due to long-term under-investment in water, wastewater and solid waste infrastructure and also due to inadequate environmental planning and management systems. This is compounded by limited management and administrative capacity for implementing upgraded environmental infrastructure and managing services in an efficient and sustainable way, including the capacity to deal with bottlenecks and weaknesses in the preparation of tender documents, the capacity to carry through tender processes, and also the limitations resulting from the novelty of the multi-annual planning process itself.

Mitigation and elimination of these weaknesses is a chall enge for the EOP during 2007-2009 and will form a major part of the priorities and measures (see Sections C1. to C.3.).

The investment strategy is suffering from a lack of procedures and guidelines for (1) obtaining national co-financing aligned with EU procedures and timetables, and (2) for the donors' contribution in order to maximise the impact and effectiveness of the EU funds (the leverage affect).

(c) Opportunities

Currently, the municipal budgets are not sufficient to finance EHCIP projects. Municipal taxes and fees are low and in most cases, tariffs are not sufficient to build up the large scale funds needed to accelerate the investments in response to national legislation and EU requirements. Against this background, the EOP represents an extremely important intervention that will result in improving the delivery of drinking water, wastewater treatment and solid waste services throughout Turkey. This opportunity, coupled with other initiatives such as transport links and increased competitiveness will

be a driving force in generating regional development, improving living standards for all sectors of the population and for economic development in Turkey as a whole.

Coupled with this, as mentioned **in Section A.1.6.** an important opportunity is being afforded to the relevant authorities to develop the by -laws and guidelines for setting realistic and affordable environmental tariffs, fees and administrative fines. This will enable operations, maintenance and r e-investment possibilities in the longer-term.

The access to IPA funds also represents a strong incentive for municipalities to develop their own implementation programmes for general environmental protection. This can be readily accommodated within the framework of the present national decentralisation reform process.

These opportunities will also be supported by the MoEF at both central and provincial level. Capacity building and TA for the preparation and management of the EOP and related projects will offer the opportunity to integrate environmental aspects into all components of the IPA Programme in Turkey. This also constitutes an added incentive to address other important horizontal issues such as (1) equal opportunities for men and women, (2) national environmental protection, (3) participation of civil society, and (4) geographic and sectoral concentration.

Above all, the high level of standards for improved environmental infrastructure will contribute to improvement of the general he alth of the population and a reduction in water-related health expenses.

(d) Threats_

The main threats are identified as:

- the possibility that environmental issues will not be given the political priority that is needed to effect significant changes over the medium term;
- limited capacity of small and medium size municipalities to manage internationally co-financed projects, and to sustain their environmental services.

Emphasis will thus be given to developing communication tools as well as capacity building for the municipalities.

A note should be made concerning PPP. In the public utility sector, the situation is known as a 'legal gap'. The banking sector and other financial intermediaries need to strengthen their capacity to understand and commercially transact with environmental infrastructure projects. It should also be added that the enabling legal framew ork needs to become more transparent including the rules and practices relating to the use of environmental infrastructure as loan funds collateral.

Given the complexity of the planning and management process required, ensuring the absorption of EC funds is new to many stakeholders. This carries the risk that the monies will not be utilised within the tight payment schedule of 'N+3'; leading to loss of funds for key infrastructure projects.

Overall, despite the recognised risks, the analyses confirm that future developments in the sector have the realistic potential of making a significant impact on improving living standards and the quality of environment. The aim is to combine project practicality in achieving realistic achievable goals in the medium ter m. Although the SWOT Analysis reviews centres mainly on the infrastructure requirements for environmental protection, it should also be remembered that horizontal issues and cross -cutting issues are also of importance for the EOP. Other critical e nvironmental issues such as air quality, noise and nature protection will be addressed in other MoEF initiatives.

The next chapters highlight specific environmental objectives and targets and indicate the strategic priorities and implementation policies for intervention.

B.2.2. LESSONS LEARNT

The final reports of each completed project mentioned in **Section C.4.** (b) has a list of lessons learnt and these are available upon request.

In summary, the main lessons learnt (interim evaluation of EU pre -accession assistance, PHARE, 1999-2002) highlights the absence of adequate planning documents resulted in weaknesses in the 'needs analysis'.

Furthermore, past performance of large infrastructure projects exhibited considerable delays, particularly regarding design and tender preparation. In this context, particular care must be taken to strengthen the technical capacity of the beneficiaries.

In addition, preventing/mitigation measures during the construction stage have to be examined and included in the EIAs of the specific projects. Compliance of the construction works with permit requirements, including integrated pollution and prevention control aspects, have to be regularly controlled by the responsible authorities (construction supervision authorities and inspectorates).

More lessons learnt will be incorporated into the implementation stage of the EOP once they have been submitted and agreed during their final project reporting procedures.

B.3. OBJECTIVES

The above analysis confirms that future developments in the sector have the potential to make a significant impact upon improving living standards and the quality of environment. The aim is to combine practicality along with setting realistic achievable goals in the medium term. Although the SWOT Analysis reviews mostly the infrastructure requirements for environmental protection, it should be remembered that horizontal issues and cross-cutting issues are also of prime importance for the EOP. However, other issues such as air quality, noise and nature protection will be dealt with in other MoEF initiatives.

The next chapters highlight specific environmental objectives and targets and indicate the strategic priorities and implementation policies for intervention.

B.4. STRATEGIC PRIORITIES

Environmental protection should be an integral part of national and regional social and economic development. In order to protect the rich natural resources and environmentally sensitive areas, and improve public health and the state of the environment, the priority must clearly focus on sustainable development for the future.

Amongst the first priorities for Turkey is to provide sustainable and long -term solutions for international, national and local environmental challenges.

Taking into consideration the limited financial resources allocated for the environmental sector combined with insufficient environmental information and planning systems, it is difficult for local administrations in Turkey to make environmental management a priority. Therefore, within the framework of the environmental policy, strengthening institutional and financial capacity of local authorities is a key task, with particular focus on environmental services such as improving the drinking and potable water and wastewater systems, and developing effective solid waste management and infrastructure. It is also important that environmental management at local level includes other related fields with an integrated and multi-disciplinary approach. This will ensure that policies and strategies are reflected in realistic action plans and investments, to solve the problems that may be encountered during the EU approximation process, and on a nationwide basis.

The fundamental policy document setting out Turkey's approach for the solution of its main social and economic problems for 2007 -2013 is the 9th NDP. More specifically, the EOP will contribute to meeting the environmental priorities envisaged under 'Improving Competitiveness' which is one on the five (5) development axes identified in the 9th NDP. It will thus 'meet basic needs of current and future generations, along with

increasing the quality of life, protecting biological diversity, managing natural resources with a sustainable development approach, and guarantee the ri ght for everybody of living in an healthy and balanced environment.

The EOP is also consistent with the main areas of intervention stated in the MIPD, 2007-2009 which are:

- Environment measures related to water supply and urban wastewater treatment;
- Environment measures related to integrated waste management, including introduction of segregation and recycling and including the rehabilitation and the closure of old dumpsites.

Another important strategic priority for the EOP is consistent with those of SCF, 2007-2013, namely:

- Overall: to participate to the economic and social development of Turkey both at national and regional level by diminishing regional disparities and improving human resources;
- Environment specific: to reach a higher level in environment protection by meeting infrastructure needs in line with both EU Environmental Acquis and domestic conditions.

The EOP is consistent with the investment and financing strategy developed under the UÇES, 2007-2023 in particular with:

- Water sector: goals 2, 5 and 8 will be met which means sewage systems and treatment plants will be installed according to the By-Law on Urban Wastewater Treatment (Goal 2); drinking water will be provided in sanitary conditions to more people (Goal 5); and treatment and controlled usage in the soil and final disposal of the sludge from treatment plants through appropriate technologies (Goal 8);
- Waste sector: goals 1 and 2 will be met which means solid waste production will be decreased (Goal 1); and by using the appropriate methods, necessary measures are going to be taken to ensure proper recycling and the landfill disposal of solid waste (Goal 2).

In order to achieve these priorities, as identified in national strategic and planning documents, the lead priorities for the EOP can be defined as:

- To improve living standards and the environment;
- Improved access to drinking water, wastewater treatment and integrated solid waste services;
- Strengthening capacity and governance;
- Improvements in environmental protection.

B.4.1. GENERAL IMPLEMENTATION STRATEGY

The general implementation strategy for the EOP is focused upon practicality and achievability over the period from 2007 -2009 with due regard to an integrated approach between all relevant institutions and in accordance with na tional, regional and local programming documents.

Implementation of the EOP is further based upon (1) the situation analysis for the environmental sector as identified in the SWOT Analysis, (2) national environmental strategies and implementation plans for compliance with the EU Environmental Acquis, and (3) the analysis of other investment programmes funded from national and external sources by IFIs. (see SWOT Analysis - Section B.2. above). The key national environmental strategy for implementation of the EOP is fully consistent with achieving the strategic objectives of the 9th NDP which states that 'Turkey will grow in stability, will share income equitably, will have global competitiveness, will move into a knowledge society and will complete the harmonisation process for EU membership'.

Water projects will respect the principles of integration and sustainability as well as the basin approach. Related plans may be elaborated.

The solid waste projects will respect national and regional master plans who se elaboration will be supported by the EOP.

All projects will be implemented respecting the sustainable development principles and meeting environmental norms within the context of EIA as well as being in line with the MIPD, 2007-2009. They have been chosen using the following guide criteria:

- 1. Relevance to environmental plans and sectoral strategies and policies;
- **2.** Population (municipalities having higher populations will be given higher priority for Programme maximising impact);
- 3. Maturity and readiness for implementation;

- 4. Shortage of financing capacity;
- 5. Financial sustainability ('polluter pays' and 'cost recovery' principles);
- **6.** Environmental priorities (infrastructure projects contributing to the following factors will be prioritised);
 - · Improvement in public health,
 - Protection of sensitive areas.
 - · Protection of natural resources.

All projects will also be implemented according to the investment and financing strategy developed under the UÇES, 2007-2023.

EOP implementation will spearhead the improvement in the standard of living for all the population, improve the environment and expand possibilities for further investment in the regions. The gradual reduction of regional disparities requires both approximation of environmental legislation to that of the EU and also capacity building and strengthening to ensure the investments are effectively managed.

More specific implementation terms are described below (see Section C.). A number of priority axes are defined, each of which comprises measures which identify the type of actions to be taken.

It should be noted regarding the number of projects that the MoEF do not consider the targets to be over ambitious. On the contrary, they are regarded as positive interventions and initiatives that can - and will - be achieved as important nationwide environmental protection measures that should be applied in a sustainable manner, and as quickly as possible. There is an over-arching need and demand for a country with the size, regional disparities, diversity and population of Turkey to achieve rapid environmental mitigation. Assistance from the EC represents a valuable stimulus in responding to these needs and demands.

It must be emphasised that this EOP will form the basis for future environme ntal initiatives and intervention measures for Turkey and, as such, merits implementation priority in its own right.

C. PROGRAMME STRATEGY

C.1. PRIORITY AXES AND MEASURES

With reference to the SCF, this EOP identifies three priority ax es and related measures for co-financing by IPA funds under Component III, 'Regional Development'. The implementation of these priorities will contribute to achieving compliance with the requirements of both national and EU environmental legislation.



Aim

To develop environmental infrastructure in line with EU standards managed in an efficient and sustainable manner.

Community legislation

Table C.1. Community legislation

Abbreviated title of legislation	Full title of legislation
Wash Lizingwald Directives	Directive 2000/60/EC of the European Parliament and of the Council of 23 October 2000 establishing a framework for the Community action in the field of water policy.
MARKET WITH THE STATE OF THE ST	Council Directive 98/83/EC of 3 November 1998 on the quality of water intended for human consumption.
WorkWate Designate reques	Council Directive 91/271/EC of 21 May 1991 concerning urban- wastewater treatment.
Sevrage Strang Dr. c. ava. 2001.	Council Directive of 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.
Drinking Water Measurement Directive	Council Directive 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 as amended by Council Directive 81/855/EEC, 91/692/EEC.

Abbreviated title of legislation	Full title of legislation
Danigeruhs Substances Directive	Council Directive 76/464/EEC of 4 May 1976 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community.
Bathing Water Directive	Council Directive 76/160/EEC of 8 December 1975 concerning the quality of bathing water.
Drinking Water Abstractions Directive	Council Directive 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 as amended by Council Directive 79/869/EEC.

Specific objectives

- To provide efficient and sustainable water and wastewater services to the population;
- To provide affordable water and wastewater services to the population;
- To improve environmental protection.

Rationale

This priority focuses upon achieving and maintaining a good status of surface and groundwater as well as securing sufficient supplies of potable water. It will promote efficiency and higher quality of service delivery through the establishment of independent, well-managed bodies which are financially sustainable. The proposed activities will also have a direct positive impact upon the quality of coastal waters by contributing to a reduction in land-based pollution. They are part of the National Action Plan for Land Based Pollution prepared under the Barcelona and Bucharest Conventions and Annex 1 Protocols in order to control sea and coastal pollution with compliance dates targeted for 2010 and 2025.

Moreover, this priority will address the high level of drinking water losses from water abstraction to final consumer.

The Law on Environment No. 2872 (1983) as amended by the Law No. 5491 (2006) obliges municipalities to establish wastewater collection and disposal facilities. The deadline for submitting a Work Schedule was May 2007. The schedule must include detailed descriptions and implementation charts in regard to planning and implementation activities. It should make reference to all preliminary studies such as specific technical studies, master plans, feasibility studies, Cost Benefit Analyses, (CBA), EIA(s), detailed design, technical specifications and tender dossiers. Implementation should start from the

date of submission of the timetable, and as follows (1) for more than 100 000 population: not later than 3 years, (2) between 50 000 and 100 000 population: not later than 5 years, (3) between 10 000 and 50 000 population: not later than 7 years and, (4) between 2 000 and 10 000 population: not later than 10 years. The EOP will support prioritised municipalities for initiating the implementation of their work plans by supporting the preparation of their wastewater master plans on which technical and feasibility studies can later be based upon (see Section C.2., Measure 3.2).

Approximately 66% of the total budget of the EOP is allocated to this priority.

Description

The priority will provide water and wastewater infrastructure as well as reducing pollution caused by storm overflows. It will meet the needs of urban centres where the environmental impact is usually higher and the beneficiary population is also more numerous. Special emphasis will be given to separate rain water from wastewater i.e. separate sewerage systems.

At the planning stage and in the scope of preliminary and feasibility studies, municipalities are encouraged to take the opportunity of implementing an investment project under the IPA Programme to include in-depth analyses on organisation, operations and diagnostics. This will enable the design of comprehensive institutional governance building packages, which will be incorporated in the project co-financed by the EOP.

Alternative operational modalities including PPP will be also studied, where appropriate.

Targeting

This priority is targeted towards rehabilitation, upgrading and construction of urban water and wastewater environmental infrastructure for selected final beneficiaries.

It targets administrative and technical departments (or public utility companies) of the municipalities or local authority unions in charge of water and wastewater management in the selected regions, as well as elected officials as decision -makers. Capacity building activities will possibly also involve staff from the environmental provincial directorates as well as from regional directorates of relevant institutions such as DS• and •ller Bank. Involvement of the general public will be strongly encouraged in all stages of project implementation.

Measures

The priority measures are designed to support both re habilitation and restructuring of existing infrastructure and the establishment of new infrastructure. Assistance will be also provided for enhancing capacities at local level. In summary, they are:

Measure 1.1: Improving the quality of the water supply; to support improvements in the drinking water distribution network, water intake and treatment plants in order to provide sufficient and healthy drinking water to the population and to reduce water losses from leakages and other sources.

Measure 1.2: Improving the quality of receiving bodies; to support improvements in wastewater and rainwater collection as well as improving treatment facilities in order to reduce the pollution load in underground waters and to protect water distribution systems from potential contamination.

Delivery of the priority

Delivery principles include:

- · Assisting Local Authorities;
- · Implementing a phased approach and building facilities from pilot to full scale;
- · Maximising benefit investment by associated dedicated capacity building activities;
- Maximising benefit investment by associated systematic public awareness campaigns;
- Project pipeline preparation for identified projects.

The operations/projects that will be financed under Priority ax es 1 will be selected from the indicative project list provided **in Annex 3** of the EOP (and respective project identification cards attached **as Annex 4**) in accordance with the general and sub-sector/measure specific selection criteria provided in the EOP.

The selected operations will then be submitted to the EC for approval. If a project is sanctioned, the EC will issue a decision of approval for each project which will define the physical object and the eligible expenditure to which the co-financing rate for the priority axes applies. On the completion of the approval stage, a Financing Agreement between the EC and Turkey will be concluded which will specify approval terms and conditions. Complementary funding for these investments will be ensured from national funding.

In the case where projects do not fall under the 'majo r projects' criteria (i.e. those under the EUR 10 million threshold), decisions about competing tenders will be made by the Selection Committee, based upon the selection criteria laid down in the EOP and confirmed by the SMC.

Targets and indicators

The table below outlines the core indicators and targets for this priority.

Environmental Operation Programme 2007 -2009 Republic of Turkey

Indicators

Table C.2. Core indicators and targets for Priority 1

Type of Indicator	Indicator	Baseline value (2004)	Target (2012)	Source of verification
Outputs 18	。 第二章:第二章:第二章:第二章:第二章:第二章:第二章:第二章:第二章:第二章:			
	Number of municipalities served by drinking water treatment facilities	304	306	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Number of drinking water treatment plants	140	142	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Number of existing wastewater treatment plants	172	177	TURKSTAT, MoEF, final beneficiary, project/programme reports
Regults and				
	Number of municipalities benefiting from drinking water network services	3159	3163	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Number of municipalities benefiting from improved wastewater services	319	328	TURKSTAT, MoEF, final beneficiary, project/programme reports

Improved wastewater services include systems connected to a WWTP.



Specific objectives

- To provide drinking water to the population according to national and EU standards;
- To optimise the use of natural resources and to improve the efficiency of the water distribution system.

Rationale

This measure will focus on promoting co-financing that will ensure enhanced supply of drinking water according to national and EU standards, a nd to achieving water savings. International and regional cooperation initiatives will be taken into account.

Description

It will support the construction, rehabilitation or modernisation of the existing drinking water distribution system as well as establishing adequate water treatment plants. All beneficiary institutions will also be provided with institutional support designed to sustain the benefit of the investment. Institutional strengthening can target elected officials as decision-makers, municipal/union administrative staff and staff of the 'municipal/union water department'. It can also target staff from the environmental provincial directorates as well as from regional directorates of relevant institutions such as DS+ and +ller Bank. This later activity will be provided through service contracts (both supervision of the works as well providing capacity building services, including public procurement assistance and advice).

Eligible actions

Actions which will be funded are:

- Construction and rehabilitation of drinking water networks;
- Restructuring and modernising of existing mains water and distribution systems (pipes, pumping stations, storage tanks);
- Rehabilitation, upgrading and construction of drinking wa ter treatment facilities;
- · Metering, laboratory equipment, leakage detection equipment;
- Supervision/supervisory engineering, institutional governance improvement, capacity building, public awareness, education initiatives and other communication tools;

 TA³²: technical preparatory studies, feasibility studies, CBA, EIA, detailed design, technical specifications and tender dossiers.

Selection criteria

Evaluation and selection of projects is the responsibility of the PSC established by the OS (see also C.5. and E.1). The criteria for selecting projects to be financed will comply with the following principles:

- · Project maturity and readiness for implementation;
- Compliance with relevant EU environmental legislation and standards;
- Linkage to implementation of environmental plans and sectoral strategies;
- Environmental priorities, namely improvements to public health, protection of environmentally sensitive areas, protection of natural resources;
- · An integrated approach;
- · Major positive impact on the population;
- · Shortage of financing capacity;
- Financial sustainability ('polluter pays' and 'cost recovery' principles);
- · Complementarity and availability of other financial resources:
- Long-term optimal maintenance (affordabi lity criteria);
- Cost-effectiveness of investment and operation (cost -efficiency criteria).

Final beneficiaries

- · Selected municipalities;
- Selected local authorities, where appropriate.

Monitoring indicators/targets/definitions

The table below outlines the core indicators and targets for this measure.

Technical assistance for maintaining a pipeline of projects has been (will be) provided also through the Development Programme in TRA2, TR72, TR52, TRB1 Nomenclature of Territorial Units for Statistics II Regions, (NUTS II) the 2003, 2005 and 2006 EC funded projects - TR 03 06.01, TR 05 04.03 and TR 06 03.13. It includes as well preparation of (pre) feasibility studies (see also Section C.4. (b) for more details).

Environmental Operation Programme 2007 -2009 Republic of Turkey

ndicators

able C.3. Core Indicators and targets for Priority 1 - Measure 1.1

Type of Indicator	Indicator	Baseline value (2004)	Target (2012)	Source of Verification
Outputs				
	Amount of water treated by drinking water treatment capacity (billion m³/year)	2.08	2.10	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Amount of water supplied (billion m³/year)	4.96	5.04	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Number of new or rehabilitated drinking water supply distribution systems	0	4	MoEF, final beneficiary, project/programme reports
	Rehabilitated or new storage capacity (m³)	0	52 300	MoEF, final beneficiary, project/programme reports
Resultable				
	Percentage of municipal population served by drinking water treatment plants increased	0	1,81	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Percentage of municipal population benefiting from improved water distribution facilities increased	0	1,00	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Percentage of water supply system leakage ratio decreased	0	2,45	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Additional population served by drinking water projects	0	387 500	TURKSTAT, MoEF, final beneficiary, project/programme reports

Since the feasibility studies for the majority of the projects have not yet been completed, the figures stated in the tables represent the estimated values.



Specific objectives

- To reduce the pollution load in receiving water bodies (surface and groundwater) and to protect drinking water systems from contamination;
- To secure efficiency of wastewater treatment plants and to reduce operating costs;
- · To improve sewage sludge-management.

Rationale

This measure will focus upon promoting co-financing in all actions that will contribute to reducing the pollution load in receiving bodies and preserve drinking water supply systems from potential contamination.

The amended Environment Law No. 5491 (2006) assigns responsibilities in the following areas: Free Zones, Organised Industrial Zones, Tourist Areas, Small Industrial Zones and Holiday Villages. In addition, it assigns responsibility for urban wastewater management to Municipalities and to Provincial Administrations for settlements with a population of below 2000 inhabitants.

Cooperation between responsible institutions is not excluded as a realistic option and might be investigated during feasibility studies. In principle, with regard to industrial wastewater, facilities producing wastewater with characteristics different from urban wastewater should not be connected to the municipal wastewater treatment plant and the owners should be obliged to construct their own facilities.

Description

This measure will support rehabilitation, upgra ding and construction of urban wastewater treatment facilities. It will also support the rehabilitation and extension of the sewerage systems as well as rain water facilities. All beneficiary institutions will be provided with institutional support designed to sustain the benefit of the investment. Institutional strengthening can target both elected officials as decision -makers, municipal/union administrative staff and staff from the 'municipal/union water department'. It can also target staff from environmental provincial directorates as well as from regional directorates of relevant institutions namely •ller Bank and DS•. This latter activity will be provided through service contracts (both supervision of the works as well providing capacity building services, including public procurement assistance and advice).

Eligible actions

The actions that will be funded are:

- · Extension of sewerage networks;
- Rehabilitation of existing sewerage networks suffering from significant permeability;
- Rehabilitation, upgrading and construction of wastewater treatment plants (where appropriate, a phased approach for secondary and tertiary wastewater treatment facilities to be implemented independently);
- Sludge management equipment and facilities (stabilisation, thickeners, storage tanks)
 based upon a comprehensive scenario analysis (landfilled, (co)incineration and utilisation in agriculture) carried out during feasibility studies;
- Improvement of sludge management in agriculture;
- Rehabilitation and construction of systems for limitating pollution of receiving waters due to storm water overflows;
- · Metering, laboratory equipment;
- Supervision/supervisory engineer, institutional governance improvement, capacity building, public awareness, education initiatives and other communication tools;
- TA³²: technical preparatory studies, feasibility studies, CBA, EIA, detailed design, technical specifications and tender dossiers.

Selection criteria

Evaluation and selection of projects is the responsibility of the selection committee established by the OS (see also C.5. and E.1). The criteria for selecting projects to be financed under this measure will comply with the following principles:

- · Project maturity and readiness for implementati on;
- Compliance with relevant EU environmental legislation and standards;
- Link to implementation of environmental plans and sectoral strategies;
- Environmental priorities namely improvement in public health, protection of environmentally sensitive areas, protection of natural resources;
- · An integrated approach;
- Major impact on the population;
- · Shortage of financing capacity;

- Financial sustainability (polluter pays and cost recovery principles);
- · Complementarity and availability of other financial resources;
- · Long-term optimal maintenance (affordability criteria);
- Cost-effectiveness of investment and operation (cost -efficiency criteria).

Final beneficiaries

- · Selected municipalities;
- · Selected local authorities, where appropriate.

Monitoring indicators/targets/definitions

The table below outlines the core indicators and targets for this measure.

Environmental Operation Programme 2007 -2009 Republic of Turkey

ndicators

able C.4. Core indicators and targets for Priority 1 - Measure 1.2

Type of Indicator	Indicator	Baseline value (2004)	Target (2012)	Source of verification
and ha				
	Number of new or rehabilitated wastewater systems	0	7	MoEF, final beneficiary, project/programme reports
	Amount of wastewater treated by WWTP (billion m³/year)	1.90	2.00	TURKSTAT, MoEF, final beneficiary, project/programme reports
Keault		电影性的		
	Percentage of the municipal population benefiting from improved wastewater services (%)	45	47	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Percentage of the treated wastewater (of the total wastewater volume generated) (%)	99	7.0	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Additional municipal population benefiting from improved wastewater services	0	1 000 000	TURKSTAT, MoEF, final beneficiary, project/programme reports

Since the feasibility studies for the majority of the projects have not yet been completed, the figures stated in the tables represent the estimated values.



Aim

To develop environmental infrastructure in line with EU standards managed in an efficient and sustainable manner.

Community legislation

Table C.5. Community legislation

Abbreviated title of legislation	Full title of legislation
Directive on Waste	Council Directive 2006/12/EC of the European Parliament and of the Council of 5 April 2006 on waste.
Waste Inductation Directive	Directive 2000/76/EC of the European Parliament and of the Council of 4 December 2000 on the incineration of waste.
Landill Directive	Council Directive 1999/31/EC of 26 April 1999 on the landfill of waste, as amended by Regulation (EC) 1882/2003.
Packaging and Packaging of Waste Directive	European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.
Hazardous Westes Directive	Council Directive 91/EEC of 12 December 1991 on hazardous waste.

Specific objectives

- To provide efficient, affordable and sustainable solid waste management services to the population;
- To establish environmentally friendly integrated solid-waste management models, including separate collection;
- · To reduce amount of waste disposed in uncontrolled landfill;
- To rehabilitate / close old dumpsites.

Rationale

This priority addresses another weakness identified in the SWOT Analysis which reflected inadequate waste management practices leading to limited collection of waste as well as the operation of a large number of non-compliant landfills. Since separate collection is only implemented in a few pilot urban centres, a small proportion of materials are recycled and most of the wastes are landfilled. This priority will focus upon promoting an efficient and improved quality of service delivery through the establishment of well-managed bodies which are financially sustainable.

The Law on Environment No. 2872 (1983) as amended by the Law No. 5491 (2006) obliges municipalities to establish wastewater collection and disposal facilities. The deadline for submitting a Work Schedule was May 2007. Schedules had to include detailed descriptions and implementation charts regarding planning and implementation activities. It was also necessary to include all preliminary studies such as specific technical studies, master plans, feasibility studies, CBA, EIA(s), detailed design, technical specifications and tender dossiers. Implementation should start from the date of submission of the timetable, and a s follows (1) for more than 100 000 population, not later than 3 years, (2) between 50 000 and 100 000 population, not later than 5 years, (3) between 10 000 and 50 000 population, not later than 7 years and, (4) between 2 000 and 10 000 population: not later than 10 years. The EOP will support prioritised municipalities for initiating the implementation of their work plans by supporting the preparation of their wastewater master plans on which technical and feasibility studies can later be based (see Section C.2., Measure 3.2).

The MoEF is preparing a National Waste Management Plan which will specify the main features of waste prevention and waste management policies. It will specify how these will elaborated for individual waste substances, the capacity, and disposal and management options for specific types of waste (including household, hazardous and special waste) and policy on the international transfer of waste. This plan is scheduled for completion by 2008, and will be the basis for developing regional waste management plans. These regional plans will be developed during the following years. The EOP will support the development of regional waste management plans in prioritised regions (see Section C.2., Measure 3.2).

Approximately 28% of the total budg et of the EOP is allocated to this priority ax es.

Description

This priority promotes integrated waste management systems consistent with EU policy and principles. At the planning stage and within the scope of preliminary and feasibility studies, municipalities are encouraged to take the opportunity of implementing an investment project under the IPA Programme to include in depth analyses on organisation and operations, diagnostics, etc. This will enable the design of comprehensive institutional govern ance building packages, which will be incorporated in the project co -financed by the EOP.

Alternative operational modalities including PPP will also be studied, where appropriate.

Targeting

This priority is targeted towards the rehabilitation, upgrading a nd construction of integrated solid waste management systems for the selected final beneficiaries.

It targets administrative and technical departments (or public utility companies) of the municipalities or local authority unions in charge of solid waste ma nagement in the targeted regions as well as elected officials as decision -makers. Capacity building activities foreseen under the measure will possibly involve staff from environmental provincial directorates as well as from regional directorates of relevant institutions such as left Bank. Again, the general public will be strongly encouraged to be involved at all stages of project implementation.

Measures

The priority measure is designed to support all actions which contribute to achieving the integrated waste management objectives.

Measure 2.1: To support actions increasing the quantity of recycled waste and reducing the final quantity of waste disposed including the development of separate collection operations and construction of related facilities. This measure will also provide financial resources for establishing safe final disposal as well as for the rehabilitation and the closure of old dumpsites.

Delivery of the priority

Delivery principles include:

- Assisting Local Authorities;
- Implementing a phased approach and building facilities from pilot to full scale;
- · Maximising benefit investment by associated dedicated capacity building activities;
- Maximising benefit investment by a ssociated systematic public awareness campaigns;

- At the feasibility study stage, social, geographical and economic conditions of the region will guide the selection of the appropriate sub -components of the projects;
- Project pipeline preparation for previously identified projects.

The operations/ projects that will be financed under Priority ax es 2 will be selected from the indicative project list provided in Annex 3 of the EOP (and respective project identification cards attached as Annex 4) in accordance with the general and sub-sector measure-specific selection criteria provided in the EOP.

The selected operations will then be submitted to the EC for approval. If a project is accepted, the EC will issue a decision of approval for each project which will define the physical object and the eligible expenditure to which the co-financing rate for the priority axes will apply. On the completion of the approval stage a Financing Agreement between the EC and Turkey will be concluded which will specify ap proval terms and conditions. Complementary funding for these investments will be ensured from co-financing national funds.

In the case where projects do not fall under the 'major projects' criteria (i.e. those under the EUR 10 million threshold), a decision about competing tenders will be made by the Selection Committee, based upon the selection criteria described in the EOP and confirmed by the SMC.

Targets and indicators

The table below-outlines the core indicators and targets for this priority.

Environmental Operation Programme 2007 -2009 Republic of Turkey

ndicators

able C.6. Core Indicators for Priority 2

Type of Indicator	Indicator	Baseline value (2004)	Target (2012)	Source of verification
Outputs 1	。 1906年 - 1908年 -	建筑基金排料		
	Number of existing sanitary landfills	16	20	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Number of closed or rehabilitated illegal dumpsites	0	38	MoEF, final beneficiary, project/programme reports
	Number of additional recycling programme implemented	0	4	MoEF, final beneficiary, project/programme reports, ÇEVKO reports
Results				
	Number of municipalities benefiting from a sanitary landfill	120	184	TURKSTAT, MoEF, final beneficiary, project/programme reports,
	Number of additional municipality benefiting from integrated waste management system	0	4	MoEF, final beneficiary, project/programme reports, ÇEVKO reports

Including both major and minor scale dumpsite rehabilitations and closures.



Specific objectives

- · To reduce the final quantities of waste disposed;
- To establish safe final disposal for solid waste.

Rationale

This measure will focus upon regional landfills in line with the national strategy (which gives priority to landfills), and optimisation of the collection of solid waste by using all means for reducing the quantity of waste to be landfilled.

Description

Integrated solid waste management should focus on prevention/reduction, separate collection, waste recovery and recycling as well as environmentally friendly final disposal including (1) evaluation and continuous monitoring (efficiency, reclaim rate) and flexibility for responding to changes in patterns of waste and housing characteristics, (2) environmental concerns, and, (3) public communication and awareness. Also, under this measure, it is proposed to co-finance heavy-cost investments which will contribute to the rehabilitation and/or closure of old dumpsites. All beneficiary institutions will be provided with institutional support designed to sustain the benefit of the investment. Institutional strengthening will target elected officials as decision-makers as well as municipal/union administrative staff and staff of the 'municipal/union solid waste department'. It can also target staff from environmental provincial directorates as well as from regional directorates of relevant institutions such as aller Bank. This activity will be provided through service contracts (covering the supervision of the works as well providing capacity building services, including public procurement assistance and advice as appropriate).

Eligible actions

Extension, rehabilitation, increasing recycling and improving collection systems and separation methods including:

- Introduction or development of separate collection including introduction of separate 'green' and other organic waste collection;
- · Development of the collection services: provision of collection vehicles, containers;

- Improvement of sorting and recycling facilities including construction of civic amenity centres (e.g., disposal of packaging waste, batteries, oils);
- Rehabilitation of existing landfills, including biological treatment (composting), from pilot to full scale, construction of gas and leachate management systems, adequate facilities for construction debris;
- Development of transfer facilities such as the construction of transfer/transit (bulk) station, provision of vehicles;
- Subject to justification at the design stage, provision of equipment for landfills such as compactors, bulldozers, wheel loaders, trucks, pickups, tractors and trailers;
- Subject to justification at the design stage, improving operating conditions through the construction of offices, maintenance worksh ops;

New constructions and increasing recycling and improving collection systems and separation methods including:

- Introduction of separated collections including introduction of separated 'green' and other organic waste collection;
- · Development of the collection services: provision of collection vehicles, containers;
- Establishment of sorting and recycling facilities including construction of civic amenity centres (e.g., disposal of packaging waste, batteries, oils);
- Construction of sanitary landfills, including biological treatment (composting), from pilot to full scale, construction of gas and leachate management systems, adequate facilities for construction debris;
- Development of transfer facilities such as the construction of transfer/transit (bulk) station, provision of vehicles;
- Subject to justification at the design stage, provision of equipment for landfills such as compactors, bulldozers, wheel loaders, trucks, pickups, tractors-and trailers;
- Subject to justification at the design stage, improving operating conditions through the construction of offices, maintenance workshops;

Closure of old dumpsites, including gas recovery and utilisation systems, where appropriate:

- Rehabilitation of non-compliant landfills including the closure of old dumpsites;
- Subject to justification at the design stage, improving operating conditions through the construction of offices, maintenance workshops;

and TA as follows:

- Supervision/supervisory engineering, institutional governance improvement, capacity building, public awareness, education initiatives and other communication tools, including public procurement assistance and advice as appropriate;
- TA³²: technical preparatory studies, feasibility studies, CBA, EIA, detailed design, technical specifications and tender dossiers.

Selection criteria

The evaluation and selection of projects is the responsibility of the selection committee established by the OS (see also C.5. and E.1). The criteria for selecting projects to be financed will comply with the following principles:

- · Project maturity and readiness for implementation;
- Compliance with relevant EU environmental legislation and standards;
- Link to implementation of environmental plans and sectoral strategies;
- Consistency with the national waste managem ent plan;
- Environmental priorities namely improvements to public health, protection of environmentally sensitive areas, protection of natural resources;
- An integrated approach;
- Major impact on the population;
- Shortage of financing cap acity;
- Financial sustainability ('polluter pays' and 'cost recovery' principles);
- Complementarity and availability of other financial resources;
- · Long-term optimal maintenance (affordability criteria);
- Cost-effectiveness of investment and operation (cost-efficiency criteria).

Final beneficiaries

- Selected municipalities;
- Selected local authorities, where appropriate.

Monitoring indicators/targets/definitions

The table below outlines the core indicators and targets for this m easure.

Environmental Operation Programme 2007 -2009 Republic of Turkey

ndicators

able C.7. Core indicators for Priority 2 - Measure 2.1.

Type of Indicator	Indicator	Baseline value	Target (2012)	Source of verification
Outputs				
	Number of existing composting plants	3	40	TURKSTAT, MoEF, final beneficjary, project/programme reports
	Number of recycling facilities (MRF)	10	15	MoEF, final beneficiary, project/programme reports, ÇEVKO reports
	Capacity of recycling facilities (MRF) (tonnes/year)	317 500	417 500	MoEF, final beneficiary, project/programme reports, ÇEVKO reports
	Number of additional new transfer stations	0	.	MoEF, final beneficiary, project/programme reports
Results		· 医克勒氏征		
	Amount of waste disposed in sanitary landfills (tonnes/year) **	7 002 000	7 900 000	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Amount of municipal solid waste disposed in compost plant (tohnes/year)	351 000	460 000	TURKSTAT, MoEF, final beneficiary, project/programme reports
	Additional population receiving integrated solid waste management systems	0	2 900 000	MoEF, final beneficiary, project/programme reports, ÇEVKO reports

Material Recovery Facility.

Since the feasibility studies for the majority of the projects have not yet been completed, the figures stated in the tables represent the estimated values.

C.2. TECHNICAL ASSISTANCE



Aim

To provide TA and strengthen management capacity of both the overall EOP and project - specific measures.

Specific objectives

- Effective management of the EOP;
- To improve the planning capacity of the final beneficiaries in line with national and EU strategies;
- To develop institutional capacity for project preparation, management and absorption of IPA and future Structural Funds.

Rationale

One important aim of this priority ax es is to increase the capacity of the institutions dealing with the management of the EOP.

Lessons learnt from the past (interim evaluation of EU pre -accession assistance, PHARE, 1999-2002) highlight the absence of adequate planning documents resulting in weaknesses in 'needs analysis'. This TA priority axes will ensure development of expertise in the interests of the rational and effective planning of projects to be funded under the EOP, and for the management of future Structural Funds.

The TA complements past and ongoing EC assistance projects: additional information is given in Section C.4. (b).

New tools will also be developed for improved monitoring of the service providers.

Approximately 6% of the total budget of the EOP is allocated to this priority axes.

Description

This priority will focus upon (1) capacity building for the managing authorities of the programme i.e. the OS and the SMC, (2) supporting the implementation of studies for monitoring and evaluation of the programme (and individual projects), (3) possible revision of the existing EOP and also preparation of the next programme, including the preparation and identification of projects for the next funding period, (4) training activities targeted

towards potential future beneficiaries (building upon the training to be conducted during 2007 under TR 06 03.13), and **(5)** support in dissemination of programme information, publicity and visibility activities. It will also provide support to municipalities and the MoEF for preparing Master Plans and carrying out sector studies. These operations will be implemented through service contracts (restricted tender or Framework Contract).



Actions which are eligible for funding are:

- Preparation, organisation and carrying out training for strengthening institutional capacity in project implementation;
- Support for monitoring and evaluation activities of the EOP and individual projects; necessary training for the Monitoring and Evaluation team (costs related to evaluations carried out by external evaluators);
- Technical support for call of proposals (preparation and evaluation);
- Tendering assistance: technical support to evaluation committees for evaluation of tenders (in-particular works contracts);
- Conducting studies to improve the implemen tation of the EOP;
- Providing assistance in the management process of the EOP (assistance in appraisal of operations, exchange of experience for the staff involved in OP management by way of study visits and meetings, remuneration costs for staff transferred to the IPA Unit to implement the tasks related to preparation, selection, verification, implementation, monitoring, evaluation and audits);
- Preparing new programme documents for the next programming period. This will
 include support for partnership consultations, workshops and training of the
 beneficiaries with regard to strengthening their capacity in project preparation and
 submission as well as for future sound management and timely project implementation;
- Supporting promotion and publicity of the EOP: Implementation of the Communication Action Plan (CAP) including production and distribution of information materials for the general public as well as potential beneficiaries, and organising and conducting conferences, seminars and information meetings;
- Providing assistance to the OS after the transition period;

- Preparation and updating of necessary documents for accreditation;
- Providing expert assistance and training for the staff of the IPA Unit within the OS;
- Purchase and installation of hardware, software and other office equipment necessary for management, implementation, monitoring, control and evaluation of the EOP.



This measure will focus upon the preparation of municipal (local authority union) wastewater Master Plans and regional solid waste management Master Plans. It will concentrate upon:

- Support for municipalities in the preparation of wastewater Master Plans as provided in their Work Schedule (see Section C.1. Priority 1, Rationale). For each project area, the Master Plan (supported by a local socio-economic and affordability study) will identify the long-term (10+ years) service improvements and investment needs. This Master Plan will be the reference document upon which future investments will be based. It will also be made available to the public and include support to municipalities for the establishment of local authority unions (assessment, scenario analyses), as appropriate;
- Support for the preparation of regional solid waste management Master Plans as provided in their Work Schedule (see Section C.1. Priority 2, Rationale) and based upon the national waste management plan (see Section C.1. Priority 2, Rationale). For each project area, the Master Plan (supported by a local socio-economic and affordability study) will identify the long-term (10+ years) service improvements and investment needs. This Master Plan will be the primary reference document upon which future investments will be based. It will also be made available to the public and will include support to municipalities for the establishment of local authority unions (assessment, scenario analyses), as appropriate;
- Support for technical preparatory studies, feasibility studies, EIA, CBA, detailed design, technical specifications and tender dossiers including projects identified under international or regional cooperation initiatives to ensure that high quality p rojects are prepared for the uptake of funds in future programming periods.

In addition, it is proposed to extend funding to support the MoEF to identify performance indicators and the development of benchmarking tools with a view to strengthening the knowledge base in such areas as costs and tariffs, and developing new transparency guidelines and practices in line with EU policy. This will also have the effect of improving the

measurement of comparisons between regions and municipalities, as well as suppor ting the MoEF to monitor and strengthen their water, wastewater and solid waste management services.

Final Beneficiaries

The OS (see also E.1.) is eligible for assistance foreseen under Measures 3.1 and the MoEF, municipalities and local authority unions are eligible for assistance foreseen under Measure 3.2.

Activities will thus target the OS, SMC, staff (and elected -officials) of municipalities and local authority unions, intermediate bodies (performing on a delegated agreement basis, i.e. Project Implementation Unit-(PIU)), Provincial Directorate staff as well as staff from regional institutions such as •ller Bank and DS• and the general public.

Monitoring indicators/targets/definitions

The table below outlines the core indicators and targets for this mea sure.

Environmental Operation Programme 2007 -2009 Republic of Turkey

ndicators

able C.8. Core indicators for Priority 3

Source of verification	amme report	amme report	amme report	amme report
	MoEF, Programme report	MoEF, Programme report	MoEF, Programme report	MoEF, Programme report
(2012)	30	30	20	20
(2004)	0	0	0	0
Indicator Outputs	Number of trained persons (Programme level)	Number of conferences, seminars, information meetings for promotion and publicity of the Programme	Number of master plans prepared and approved by final beneficiaries	Number of feasibility study package prepared and approved by final beneficiaries

C.3. HORIZANTAL ISSUES

(a) Equal treatment between men and women

The Turkish Constitution guarantees equal treatment between men and women. Projects financed under the EOP will thus be implemented by complying with the principles of preventing all forms of discrimination, and promoting positive gender issues. In particular, equal opportunities—will be given in competition for employment at both Project and Programme level (OS and TA). These rights will continue to be monitored on a regular basis by the relevant Public Services Commission.

Identification of future improvement areas will include:

- A better awareness of the total quality approach at all organisational levels, including the concern for efficiency, effectiveness and citizen/client orientation;
- · The identification of strengths and weaknesses;
- Inputs into engoing improvement activities;
- The promotion of communications within the organisation, the basis for sustained change management;
- · The assessment of the effectiveness of improvement actions;
- The exchange of experiences with other s all over Europe, to benefit fr om their identified areas of improvement.

In addition, emphasis will be placed on gender related issues at all stages of the project (project preparation, design and implementation of public awareness). This will add to the effectiveness of the programme and will ensure a better impact upon project activities.

(b) Environmental protection and sustainable development

The EOP supports the implementation of sustainable environmental infrastructure and enhances service delivery. This is also in line with the p riorities and objectives defined under the 6th EU Environmental Action Programme (2001 -2010). Moreover, it is consistent with key objectives and principles reflected in the renewed European Sustainable Development Strategy (2005-2010) which builds upon the 2001 Gothenburg Strategy ³³. All projects to be financed under the EOP will contribute to the protection and improvement of the environment. Furthermore, these projects will comply with all national legal provisions.

³³ The EU first formulated its sustainable development strategy during the 2001 Gothenburg European Council.

Assistance provided in the framework of the SCF must fully respect compliance with sustainable development principles and meet relevant environmental norms, and the relevant Environmental Acquis such as directives on EIA, Habitats and Birds (in order to avoid negative impacts on areas to be determined as NATURA 2000 sites) as appropriate.

Investments in the environment sector will be planned in line with the river basin approach and waste management planning.

The projects to be financed must be appraised case by case to ensure consistency with the relevant obligations of the Environmental Acquis.

DABLAS²³ Initiative and Barcelona Convention will be taken into account in investment plans as mentioned in the Turkish SCF.

Environmental and sustainable development principles and approaches will also be applied in investment projects funded under other OPs (e.g. transport) and other IPA Components such as Component V: Rural Development.

(c) Participation of civil society

The active involvement of civil society will be encouraged at all stages includin g project preparation, implementation and monitoring.

C.4.COMPLEMANTARITY AND SYNERGIES

(a) Co-ordination with other investment programmes

A strong co-ordination between the different components of the IPA Programme will be established in order to achieve the maximum impact, ensure optimal use of resources as well as overall coherence between all forms of assistance.

This will require effective co-ordination between the different investment programmes, and will involve both investment programmes implemented by (1) national institutions (such as ler Bank, DS*, NEF managed by the MoEF), and (2) IFI interventions contributing to the construction of environmental infrastructure. The Ministry of Finance as well as the SPO, which has the responsibility for co-ordinating the annual investment programmes and for approving all investment projects, are in close co-operation with the OS. The OS will also ensure that the selection process timetable (EU submission) is aligned with their administrative procedures.

Co-ordination with Component I will be particularly important for maximising delivery of the EOP. NIPAC, which is also the OS for Component I is responsible for ensuring regular dialogue and exchange of information with the OS of the EOP. They will put in place mechanisms for co-ordination which will ensure that key institutions involved in the implementation of projects (e.g. municipalities, local authority unions, related Provincial Directorates) selected under the EOP have access to capacity building assistance implemented under Component I.

Co-ordination with Components III, IV and V: Activities to be carried out under the OP Regional Competitiveness, OP Transport, and OP Rural Development will have a positive effect on achieving environmental targets. However, interaction between projects funded under the different OPs is likely to be limited.

On the other hand, activities to be carried out within the scope of the EOP will have a positive effect in achieving socio-economic targets, mainly by stimula ting job creation and improving environmental conditions.

Line ministries responsible for the different Components were represented in the working team for preparation of the EOP, 2007 -2009. They will also be members of the SMC.

It should be noted that the SCF foresees that the improvement and development of rural environmental infrastructure is intended to be financed from national resources, and only if, it is deemed appropriate, by international sources (including IPA sources).

(b) Past and on-going projects and programmes

It should be noted that there are already several national and regional studies taking place which support this EOP.

Recently in Turkey, projects are being implemented with a view to taking necessary actions to fulfil the "Water Framework Directive". One example is the project entitled 'Implementation of the Water Framework Directive in Turkey' started in 2002 within the scope of the MATRA Programme. A draft management plan was prepared for Büyük Menderes River Basin which was selected as the pilot region.

Benefiting from the outputs of this project, the Twinning Project entitled 'Capacity Building the Water Sector in Turkey' presented to the Pre-Accession Financial Programme (2006) will assess the management and implementation plans for a number of different river basins. These plans will not only consider the "Water Framework Directive" , but also the "Urban Wastewater Treatment Directive" and "Dangerous Substances Directive" .

³⁴ Council Directive 91/271/EC of 21 May 1991 concerning urban waste-water treatment.

The project is planned to be completed in 2009 and will support additional studies related to this subject. Furthermore, national studies are continuing in terms of developing regional environmental protection plans in Turkey (Gediz River Basin Master Plan Project, Ergene Basin Environmental Management Master Plan Project).

For the wastewater sector, technical studies (TÜB•TAK and •stanbul Technical University) are already in progress for the identification of agglomerations (and delineation of environmental sensitive areas) in line with EU legislation. The project 'Support Programme for Research Projects of Public Institutions of TÜB•TAK' will be completed in 2009. The MoEF are also carrying out studies as follows:

- Pollution levels of Turkey's inland water resources will be identified with respect to eutrophication. A schedule will be prepared, identifying sensitive and non -sensitive areas throughout Turkey;
- Taking size and equivalent population values of residential areas into consideration and, through research on the economic, technical and social feasibilities, wastewater collection service areas will be designated;

The TA (Priority 3) complements past and ongoing EC assistance:

- EC funded Regional Development Programme in TRA2, TR72, TR52, TRB1 (NUTS II) Regions: technical preparatory studies, Feasibility studies, EIA, CBA, detailed design and technical specifications and tender dossiers have been prepared for 3 wastewater projects and 1 integrated waste management project, namely Elaz—-(Palu and Kovanc-lar), Kars, Sorgun and Ere-II respectively;
- EC funded project started in 2003 TR 03 06.01 'Support Activities to Strengthen the European Integration Process': technical preparatory studies, feasibility studies, EIA, CBA, detailed design and technical specifications and tender dossiers for 5 integrated waste management project namely Artvin -Rize, Bal-kesir, Çorum, Kayseri and Konya;
- EC funded project started in 2005 TR 05 04.03 'Support Activities to Strengthen the European Integration Process'. Around EUR 3 million were earmarked for technical preparatory studies, feasibility studies, EIA, CBA, detailed design and technical specifications and tender dossiers for 23 projects as follows:
 - 15 wastewater projects namely Erzurum, Bartin, Kiri ehir, Adiyaman, Polatli, Siverek, Seydii ehir, Çari amba, Diyarbakir, Erdemli, Aki ehir, Aksaray, Merzifon, Lüleburgaz, Soma;

³⁵ Council Directive 76/464/EEC of 4 May 1976 on pollution caused by certain dangerous substances discharged into the aquatic environment of the Community.

- 8 drinking water projects namely Erzincan, Nizip, Akçaabat, Manavgat, Silvan, Erci•, Do• ubeyaz•t and Ezeltere;
- In addition, 2 studies were conducted through two specific contracts (Framework Contract) for municipalities falling under the DABLAS ²³ initiative (i.e. Ordu and Turhal WWTP projects);
- EC funded project started in 2006 TR 06 03.13 'Support Activities to Strengthen the
 European Integration Process'. Around EUR 10 million were earmarked for technical
 preparatory studies, feasibility studies, EIA, CBA, detailed design and technical
 specifications and tender dossiers. In addition, provision was made to conduct a first run
 of training courses during 2007 targeting the managing authorities of the EOP for
 strengthening institutional capacity in the implementation of projects;
- Project-specific TA activities foreseen under the Measures. These activities aim at supporting the supervision of the implemented projects and capacity building for the final beneficiaries. There are also provisions for carrying out additional studies as described above. It includes carrying out master plans which in the future should not be any more incorporated into the various Feasibility Study Terms of Reference (ToR). These strategic documents will be reference for carrying out future feasibility stu dies and for selecting projects to be financed from other financing sources and future IPA Programmes.

C.5. INDICATIVE LIST OF PROJECTS

The OS (see also E.1.) ensures that the project selection process complies with partnership and transparency principles. Only those projects which satisfy the objectives and fall under the implementation strategy (i.e. priority axes and related measures) of the EOP are considered during the preparation process.

The principles of project preparation and selection are described in the Project Prioritisation Manual developed under the 2002 EC funded EHCIP Project (completed in November 2005). The prioritisation process will be based upon the ranking of projects using first killer (eligibility) criteria to determine which projects are eligible for inclusion in the list of potential projects and then project ranking criteria which ranks potential projects that have not been eliminated.

Table C.9. List of killer (eligibility) project criteria

No.	Item	Criteria
	Sector in which the project is located	The project should be in the following sectors Water/Wastewater Waste Management Air Pollution Industrial pollution control
120	Type of activity to be implemented at that facility	The project should represent an investment of at least €5 m
# 100 # 33 # 100 # 100	Main beneficiary and other beneficiaries (if any) of the project	The direct beneficiary must not be in the private sector
	Status of project (general)	The project proposal must contain the information which is addec with the questionnaire minimum

Table C.10. Project selection criteria

Environmental criteria	Technical criteria
Environmental benefits	•Scale of project
Health benefits	• Type of project
Environmental strategy	• Complexity of Project
	• Readiness of project
Financial criteria	Institutional criteria
Capital cost	Definition of responsibilities
Operation and maintenance cost	Legal framework in place
Finance secured	 Institutional capacity of project owner
Economic criteria	Policy criteria
Affordability of charges	Demonstration potential
Affordability of investments	Related international conventions **
Economical benefit	Regional development

³⁶ Including DABLAS Initiative and Barcelona Convention.

The Project Prioritisation Manual will be monitored on an annual basis. The database will be updated and the criteria evaluated at regular intervals. From 2007 and at two yearly intervals, application forms and criteria will be revised to match changing needs and priorities.

From 2008 on and at two yearly intervals, potential beneficiaries will be called for submission of their project proposals in order to update the pipeline of potential projects to be financed under IPA or from other sources. No municipalities will receive IPA funds for more than 1 project during the first implementation period of EOP (2007 -2009).

In 2006, a first call for submission was organised by the OS of the EOP, and a PSC was established. This consisted of major stakeholders who were responsible for environmental investments and policies and for enforcement of the environmental legislation/E C Directives namely representatives of the SPO, •ller Bank, DS•, EUSG, Treasury and MoEF.

The PSC revised the Project Prioritisation Manual by adding in the killer selection criteria list a criterion regarding population where beneficiaries should be municipalities with a population over 50 000 inhabitants. The questionnaires were sent to 450 municipalities in April 2006. Around 300 questionnaires were returned and 131 projects were ranked. Distribution per sector was as follows: 18 drinking water projects, 61 wastewater projects and 52 solid-waste projects. The process was completed in February 2007.

A map is attached (see Annex 5) showing projects submitted for possible co-financing by the EC as well as a schedule projects in Annex 3. The Project Identification Card for each major project is given in Annex 4 including project name, investment value and financing sources, description of the main components, description of project objectives and expected results, timetable, status of basic project documentation, status of project design. A list of projects (the annual distribution and financial tables are presented in the next Section D.) was established by taking into account the time necessary for conducting preparatory studies (feasibility studies, EIAs) as well as for carrying out other measures such as lan d acquisition and consultation under the EIA procedure. This will ensure that the implementation of projects can be completed within the time allocated by the application of the 'payment' N+3 rule:

Projects which will be funded by the IPA will, as a pre-requisite, comply with the Acquis-Communautaire for each major project to be submitted to the EC, and also be in full compliance with Article 157 of the IPA Implementing Regulation (2007).

D. FINANCIAL TABLE

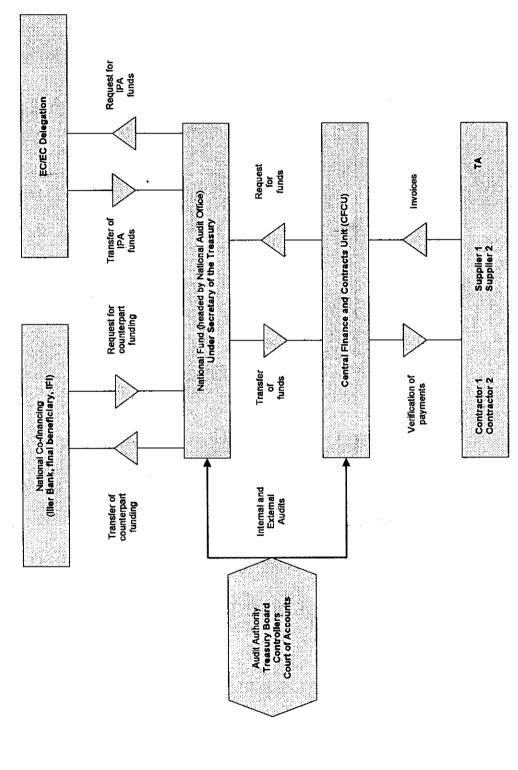
An assessment of costs, investment and financing strategy was developed under the UÇES, 2007-2023. The EOP financial plan is consistent with this exercise.

The appropriate allocation under each priority within the financial plan is as follows:

- Priority 1, Improving delivery of drinking water and wastewater services: approximately 66% of the EOP;
- Priority 2, Improved integrated solid waste management: approximately 28% of the EOP;
- Priority 3, Technical assistance: approximately 6% of the EOP.

The implementation of the EOP will be financed by IPA resources amounting to EUR 204.1 million and also by national resources amounting to EUR 68.033 million. An overview of the payment flow is **shown in Diagram D.1**.

Diagram D.1. Showing proposed payment flow (schematic draft subject to adaptations)



N.B. Titles in bold show the responsible person/authority

The contribution from the IPA was calculated on the basis of the maximum standar d rate of 75% of the total public eligible cost for environmental infrastructure and on the basis of 75% for the TA priority axes activities. The national co-financing concerns investment operations provided under the measures as well as the TA related to investment operations and TA dedicated priority activities. All national co-financing will be provided in accordance with the IPA Financial Agreement.

The national co-financing framework establishing principles as well as procedures is under development and co-ordinated by left Bank. This framework will set up procedures for national-co-financing through a national contribution fund, in line with EU funding mechanisms and timelines as well as procedures for IFI co-financing (e.g. time required for Treasury approval, implementing procedures to be followed). These will ensure that funds are duly available as to amount and time, and will define procedures for EU and NF contributions in order to ensure efficient management and control of the national co-financing in line with Central Finance and Contracts Unit (CFCU) stipulations.

•ller Bank will provide co-financing by loan and/or loan plus grant for all projects funded under the EOP, 2007-2009. The bank will also manage the national contribution fund fed by Ministry of Environment and Forestry, Ministry of Finance and other resources coming from the government. Possible contribution from IFIs (loan) would also be channelled through •ller Bank. An Implementation Agreement (IA) (see section E.1) will be signed between the beneficiary and the OS which can make provisions regarding lo an repayment from the beneficiaries.

It is intended that the level of grant (IPA and national) will provide incentives to the final beneficiaries. In order to achieve maximum impact and optimise the use of available financial resources, a grant ceiling (per project) will be applied taking into consideration the results of economic and financial analyses regarding affordability and cost recovery potential.

The financial allocation for the EOP as a whole is based upon a combination of the following factors:

- Meeting objectives of the investment strategy developed under the UÇES, 2007-2023;
- Meeting objectives of the SCF;
- The demand-driven approach from project proposals submitted by potential final beneficiaries to the OS.

The financial allocation between the identified priority axes has been determined by reference to the following considerations:

- The requirements as described in the UÇES, 2007-2023 with regards to the implementation of EC Directives in the water and waste sectors;
- The fact that the Programme must be implemented over a limited period (2007 -2009)
 with limited financial resources relative to total needs, renders investment prioritisation
 essential;
- The complementarity with investment programmes implemented by other institutions with both national and external financial sources.

The EU financial contribution to the EOP will be implemented in line with the financial plan presented in the following tables:

Environmental Operation Programme 2007 -2009 Republic of Turkey

able D.1. Financial table for 2007-2009

2007-2009	Total Expenditure	Total Public	Public Exp	Public Expenditure (€)	Private (Indicative)	IPA co-financing	For Information
		Expenditure	Community Contribution (IPA)	National Public Contribution		(%)	Other ((FF, etc)
	(d) = (2+5)	(E) (2) = (3+4)	(6)	(i)	9 6	(6) = (3/2) (RD)	© &
Priority busing in model country of difficulty and leaster the second se	179 064 000	179 064 000	134 298 000	44 766 000		75%	
Measure 1.1: Improving the quality of drinking water distributed	76 741 333	76 741 333	57 556 000	19 185 333	1	75%	
Measure 1.2: Improving quality of the receiving water bodies	102 322 667	102 322 667	76 742 000	25 580 667		75%	1
Prior by sufficient to black and a sufficient to the sufficient to	76 741 333	76 741 333	57 556 000	19 185 333	<u> </u>	75%	
Measure 2: Increasing quantity of recycled waste and improving final dispdsal	76 741 333	76 741 333	57 556 000	19 185 333	******	75%	
Principal Colored Colo	16 328 000	16 328 000	12 246 000	4 082 000		75%	
Measure 3.1: Enhancing OP management	4 328 000	4 328 000	3 246 000	1 082 000		75%	
Measure 3.2: Enhancing beneficiary capacity for planning	12 000 000	12 000 000	9 000 000	3 000 000	-	75%	
Total 2007-2009	272 133 333	272 133 333	204 100 000	68 033 333	. ;	75%	

Environmental Operation Programme 2007 -2009 Republic of Turkey

able D.2. Financial table for 2007

	Total Expenditure	Total Public		Public Expenditure (€)	Private (Indicative)	co-financing	Information
		Expendituré	Community Contribution (PA)	National Public Contribution		(%)	Other (IFI, etc.)
	(1) = (2+0)	(a) (b) = (3+4)	9 (0)	(0)	(6)	(6) = (3/2) (RD)	.
Provingentalistic proved celivery of difficulty water and westerning services.	43 200 000	43 200 000	32 400 000	10 800 000	7	75%	
Measure 1.1: Improving the quality of drinking water distributed	12 525 333	12 525 333	9 394 000	3 131 333		75%	
Measure 1.2: Improving quality of the receiving water bodies	30 674 667	30 674 667	23 006 000	. 668 667	wades	75%	
Priority axis 2: improved integrated solid wasie, drainabed debt.	37 969 333	37 969 333	28 477 000	9 492 333	i	75%	
Measure 2: Increasing quantity of recycled waste and improving final disposal	37 969 333	37 969 333	28 477 000	9 492 333		75%	•
Proving 3: Technical applications	8 164 000	8 164 000	6 123 000	2 041 000		75%	
Measure 3.1: Enhancing OP management	1 497 333	1 497 333	1 123 000	374 333	****	75%	
Measure 3.2: Enhancing beneficiary capacity for planning	6 666 667	6 666 667	2 000 000	1 666 667		75%	
Total 2007	89 333 333	89 333 333	67 000 000	22 333 333	-	75%	

Environmental Operation Programme 2007 -2009 Republic of Turkey

able D.3. Financial table for 2008

	Total Expenditure	Total Public	Public Exp	Public Expenditure (€)	Private (Indicative)	IPA Co-financing	For
		Expenditure	Community Contribution (PA)	National Public Contribution		9 S	Other (FI) etc)
	(0+2) = (1)	(G) = (3+4)	9 (2)	(6)	(e)	(6) = (3/2) (RD)	6)
Priority axis, in infrared with the first of	61 520 000	61 520 000	46 140 000	15 380 000		75%	-
Measure 1.1: Improving the quality of drinking water distributed	26 246 666	26 246 666	19 685 000	6 561 667		75%	1
Measure 1.2: Improving quality of the receiving water bodies	35 273 333	35 273 333	26 455 000	8 818 333		75%	1
Priority and State of the State	26 246 666	26 246 666	19 685 000	6 561 667		75%	i
Measure 2: Increasing quantity of recycled waste and improving final dis posal	26 246 666	26 246 666	19 685 0D0	6 561 667		75%	
Procincy and process of the second se	4 900 000	4 900 000	3 675 000	1 225 000	-	75%	
Measure 3.1: Enhancing OP management	1 566 667	1 566 667	1 175 000	391 667	•	75%	İ
Measure 3.2: Enhancing beneficiary capacity for planning	3 333 333	3 333 333	2 500 000	833 333		75%	
Total 2008	92 666 666	92 666 666	000 009 69	23 166 667		75%	-

Environmental Operation Programme 2007 -2009 Republic of Turkey

able D.4. Financial table for 2009

2003	Total	Total Public	Public Experiditure (C)	(d)ture (C)	Private (Indicative)	IPA co-financing	For Information
		Expanditure	Community Contribution (IPA)	National Public Contribution		(%) (%)	Other (IFI, etc)
	(G2) (G2) (C)	(E) (2) = (3+4)	© 6	()	(9)	(6) = (3/2) (RD)	9 6
Hority axis 1: In provide the provide mining water and wastewaller Services	74 344 000	74 344 000	55 758 000	18 586 000	!	75%	
Measure 1.1: Improving the quality of drinking water distributed	37 969 333	37 969 333	28 477 000	9 492 333	!	75%	1
Measure 1.2: Improving quality of the receiving water bodies	36 374 667	36 374 667	27 281 000	9 093 667		75%	
Procity axis 2. In proceedings and solid waste management	12 525 333	12 525 333	9 394 000	3 131 333	-	75%	
Measure 2: Increasing quantity of recycled waste and improving final disposal	12 525 333	12 525 333	9 394 000	3 131 333	9 9 9 9	75%	
Priority 2: 17 Tachman and Santa Comments of the Comments of t	3 264 000	3 264 000	2 448 000	816 000	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	75%	
Measure 3.1: Enhancing OP management	1 264 000	1 264 000	948 000	316 000	1	75%	1
Measure 3.2: Enhancing beneficiary capacity for planning	2 000 000	2 000 000	1 500 000	200 000		75%	ļ
Total 2009	90 133 333	90 133 333	67 600 000	22 533 333		75%	1

E. IMPLEMENTATION PROVISIONS

This Chapter describes the systems and arrangements in place as they are known at the time of the drafting of the EOP. In this connection, a number of critical decisions regarding structures and responsibilities as well as management and information systems will need to be taken within the context of the introduction of decentralised management. This will follow a different timing from that involved in the adoption of the EOP. The Framework Agreeme nt and the Financing Agreement to be signed will be obliged to take such new developments into consideration. In the meantime, the provisions given below must be understood to be subject to possible latter adaptations.

In accordance with Council Regulation (EC) No. 1085/2006 of 17 July 2006 establishing an IPA, and Commission Regulation (EC) No. 718/2007 of 12 June 2007 Implementing Council Regulation No. 1085/2006 establishing an IPA (IPA Implementing Regulation), the Prime Ministry Circular of .../../2007 designated the main structures, authorities and tasks for IPA management and implementation.

This Chapter addresses the implementation arrangements for the EOP ³⁷.

According to Article 10 of IPA Implementing Regulation, IPA assistance will be implemented through decentralised management initially with ex-ante controls by the Commission for Component III and IV. However, the ultimate aim is the conferral of decentralised management to national authorities without ex-ante controls by the Commission. After a transition period, during which the Commission can verify that all the necessary management and control systems are functioning effectively in accordance with the relevant Community and national rules, decentralised management withou trex-ante controls may be conferred to the national authorities by the Commission.

³⁷ The different components of the IPA Programme are well documented and the various roles, tasks and responsibilities of each management and control structure clearly given. It should be noted, that full account is taken of the relevant documents and they will be implemented in full and as required.

E.1. MANAGEMENT AND CONTROL STRUCTURES

F.1.1. BODIES AND AUTHORITIES

The structures and authorities necessary to ensure the effective and efficient management of the interventions co-funded from national and IPA resources, as well as their functions and responsibilities are addressed in this-section in compliance with the relevant provisions of IPA Implementing Regulation (Articles 21 to 31). It is appreciated that these authorities and structures must be effectively in place, operationally ready and accredited before the Commission can confer decentralised management authority.

The management and control structures also include the following:

- (a) National IPA Co-ordinator;
- (b) Strategic Co-ordinator for Components III and IV;
- (c) Competent Accrediting Officer;
- (d) National Authorising Officer;
- (e) National Fund;
- (f) Audit Authority;
- (g) Operating Structure by IPA Component or Programme.

The main functions and responsibilities of the above mentioned bodies except the O Ss are given in the relevant articles of IPA Implementing Regulation and in Annex A of the Draft Framework Agreement.

Within this framework, the functions of the OS responsible for the management and implementation of the EOP will only be given in this chapter.

(a) Operating Structure (OS) for the EOP

Under the Prime Ministry Circular of/.../2007 the MoEF has been appointed as the OS for the EOP.

Functions

The OS is responsible for managing and implementing the EOP in accordance with the principles of sound financial management and effective and efficient internal control. In this respect, according to Article 28(2) of IPA Implementing Regulation, it shall have particular responsibility for:

- Drafting annual and multi-annual EOPs;
- Programme monitoring and guiding the work of the SMC by providing the documents necessary for monitoring the quality of EOP implementation;
- Drawing up annual and final implementation reports and, after their examination by the SMC, submitting them to the Commission, to the NIPAC and the NAO;
- Ensuring that projects are selected for funding and approved in accordance with the criteria and mechanisms applicable to the EOP (e stablishing a PSC); and that they comply with applicable Community and national rules;
- Arranging for tendering procedures, grant award procedures, the subsequent contracting, making and receiving payments to and from the final beneficiary;
- Ensuring that all parties involved in implementation either maintain a separate accounting system or separate accounting codes;
- Ensuring that the NF and the NAO receive all necessary information on the procedures and verifications carried out in relation to ex penditure;
- Setting up procedures to ensure the retention of all documents required to ensure an adequate audit trail;
- Setting up, maintaining and updating the reporting and information system;
- Ensuring an internal audit of the various accounting sub-units;
- · Ensuring timely reporting of irregularities;
- Carrying out verifications to ensure that the expenditures declared have actually been
 incurred in accordance with the applicable rules, the products and services have been
 delivered in accordance with approvals, and the payment requests by the final
 beneficiary are correct. These verifications shall cover administrative, financial,
 technical and physical aspects of operations, as appropriate;
- Ensuring compliance with information and communication requirements.

In addition to the above-mentioned responsibilities resulting from the Article 28(2) of IPA Implementing Regulation, the OS is also responsible for:

- · Managing of the Secretariat of the Monitoring Committee for the EOP;
- · Ensuring the evaluations of the EOP;
- · Implementing the measures under TA of the EOP.

Compositions

The OS will be composed of the following bodies:

1) IPA Unit:

- 1.1. Programming Sub-Unit;
- 1.2. Monitoring and Evaluation Sub Unit;
- 1.3. Technical Implementation Sub Unit;
- 1.4. Quality Assurance and Control Sub Unit;
- 1.5. Tendering, Contracting, Payment and Accounting Sub Unit (CFCU) 38.
- 2) Secretariat to the Monitoring Committee for the EOP
- 3) Internal Audit Unit

During the transition period, budgeting, tendering, contracting, payments, accounting and financial reporting aspects of the procurement of services, supplies, works and grants in the context of the EOP will be carried out by the CFCU. After the transition period, a Finance and Contracts Unit for the EOP in the CS will be established.

The heads of the different bodies constituting the OS will be clearly designated and shall be responsible for the tasks assigned to their respective bodies, and as shown below.

Table E.1. Heads of the bodies, which constitute the Operating Structure

Head of Operating Structure	Deputy Undersecretary (address) Ankara/TURKEY Phone: Fax: E-mail:
Head of IPA Unit	Necessary appointment will be made following the Prime Ministry Circular
Chair of Monitoring Committee	Deputy Undersecretary(address) Ankara/TURKEY Phone: Fax: E-mail:
Head of Internal Audit Unit	Undersecretary(address) Ankara/TURKEY Phone: Fax: E-mail:

Distribution of functions

Transition Arrangements with CFCU

Pursuant to the Prime Ministry Circular No. .../.../2007, all procedural aspects of the tendering process, contracting matters and financial management including payment of project activities under EOP are delegated to the CFCU, under the IPA components I II and IV for a transition period of 2007 -2010, subject to annual review by the NAO.

In 2007, the MoEF has already seconded eight staff to work in the CFCU in order to build upon their work experience and, later, for their taking over the related duties an d responsibilities under the IPA Unit. This means that the CFCU will carry out a number of functions during the transition period which include:

- Ensure, as its major objective and responsibility, compliance with the procurement rules laid down in the EC PRAG (Practical Guide to Contract Procedures for EC External Actions) for conducting procurement of Projects under the EOP;
- Prepare/sign contracts, as well as any addenda for forwarding to the EC Delegation (ECD) for endorsement, and then to the succe ssful tenderers for signature, and passing a copy of the contracts to the relevant parties including the OS;
- Make payments and necessary recoveries, maintain accounting systems and records in accordance with the EU and Turkish regulations;
- Set-up procedures to ensure the retention of all documents required to create an adequate audit trail;
- Ensure the timely reporting of irregularities to the OS and NF/NAO;
- Carry out administrative and financial verifications to ensure that the expenditures
 declared have actually been incurred in accordance with applicable rules, the products
 and services have been delivered in accordance with approvals, and the payment
 requests by the final beneficiary are correct;
- Submit to the OS monthly financial reports and the semi-annual reports on IPA funds utilisation:
- Ensure internal audit is carried out properly;
- Provide any information on tendering, contracting, payment and accounting aspects of the implementation of the projects under the EOP, and as requested by the OS.

It should be noted that the contractual responsibilities of the CFCU will not be delegated to the PIU (such as approval of payments, commissioning and final approval at hand -over). In any case, the final responsibility will remain w ith the CFCU. It is expected that the PIU will be assisted by TA and/or a supervising engineer.

The IPA OS agreed by the line Ministries that are formulating their OPs is shown in **Diagram E.1. below.** The structure and duties of the IPA Unit under the MoEF will be as follows:

Procurement & Contracting Unit SPOs/PIU 2010 Implementation Unit FOREIGN RELATIONS UNDERSECRETARY DEPUTY UNDERSECRETARY EU DEPARTMENT Programming Unit MINISTER IPA Unit Monitoring & Evaluation Unit Diagram E.1. IPA Operating Structure CFCU Unit 2007 Internal Audit Unit Quality Assurance Unit

The Programming Sub -Unit is responsible for:

- · Preparation of annual and multi-annual Programmes;
- · Preparation of OP;
- Project identification and formulation (Call for Proposals, Guidelines, Eligibility Check, Screening);
- · Project prioritisation for OP;
- · Organisation of PSC;
- Financial planning for EU funds;
- Budgeting, co-financing arrangements (national & IFI);
- Information and assistance for potential final beneficiaries;
- · Organisation of publicity-visibility measures on programming;
- · Submission of proposals/applications to the EC.

The Monitoring and Evaluation Sub -Unit is responsible for:

- Preparation of annual and final implementation reports, and their submission to the EC;
- · Secretariat of the SMC:
- Preparation of Sectoral Monitoring Reports;
- Programme monitoring (including maintaining a computerised data base) in close co-operation with CFCU, SPO;
- · Co-ordination of evaluation studies.

The Technical Implementation Sub -Unit is responsible for:

- Development of ToRs for project preparation (Technical Feasibility, CBA, EIA);
- Organising the composition of the PIU;
- Establishment and co-ordination of the project steering committees;
- Preparation of operational agreements with beneficiaries;
- Participation in tender evaluation (evaluation committees);
- Controlling the activities delegated to CFCU;
- · Checking the reports from CFCU and PIUs;
- Following- up audits and evaluations;

- Co-ordination with CFCU and implementation units (infra projects/PIU and capacity building projects, twinning or TA/SPO);
- Organisation of publicity-visibility measures at programme level.

For the EOP, the beneficiaries (mainly municipalities) will be supported by PIUs which will deal with day-to-day implementation of the project(s) and function as a consultative board for the Technical Implementation Unit (TIU) of the OS and CFCU. PIUs will be composed of members representing the beneficiary, OS and •ller Bank - more details are given below. Furthermore, there will be a Selection Committee responsible from the evaluation and selection of the projects, also organised by the Technical Implementation Sub -Unit. The participants of this committee will be SPO, •ller Bank, DS• and Technical Departments.

The Quality Assurance and Control Sub -Unit is responsible for:

- Preparation and updating standards, procedures and manuals;
- Checking quality of documents (project fiche, tenders, reports, operational agreements, call for submission, etc.), quality of information flow;
- Controlling the flow of information for the Management Information System (MIS);
- Implementation of Risk management;
- · Reporting of irregularities and follow-up;
- · Carrying out training needs analyses;
- Workload and sensitive staff post analyses;
- On the spot checks of projects;
- Proper archieving

Tendering, Contracting, Payment and Accounting Sub Unit:

The functions of this unit will be carried out by the CFCU during the transition period as mentioned above.

In the past, EU funds were managed according to the Prime Ministry Circular 2001/41 (2001). For the forthcoming period, arrangements have been revised to comply with the requirements of the IPA Regulation and an overview of the main management, control and reporting procedures is **shown in Diagram E.2. below**. In particular, as well as agreeing the OS for the IPA component the EOP will be administered at several levels.

The IPA Unit will also be supported by the following bodies:

The Internal Audit is responsible for:

- · Carrying out the internal audit of the institution;
- Making studies for the improvement of the internal audit and control system of the institution;
- Checking whether calculations and transactions are performed accurately, completely and in a timely manner;
- Checking whether the operations of the institutions comply with the financial agreements and programmes.

(b) The Beneficiaries

The Beneficiaries will be actively involved in the implementation of the projects. The implementation modalities for each approved project will be governed by a written IA signed between the OS and the beneficiary. The IA will reflect condition nality, if any, and implementation modalities as provided by the Financing Agreement concluded between Turkey and the EC. The beneficiary will confirm its willingness to comply with EU environmental principles (such as the 'user pays' and 'polluter pays' p rinciples) to apply long-term optimal maintenance, implement cost effective operations or cost recovery principles, and assign adequate human resources for maintenance. The IA will also reflect co-financing arrangements and, possibly, financial procedures to ensure that all funds are duly available as to both amount and frequency.

At project level, the IA will see to the establishment of a Steering Committee (SC), as an advisory body to provide overall guidance and to oversee implementation. Members of the SC include representatives of the CFCU, EC D, MoEF, •ller Bank, SPO and DS•:

The beneficiary will be supported by a PIU in the monitoring and supervision of the project. A PIU will be established for each project and will support the CFCU in the-implement ation of the project. Although its composition will be agreed on a project by project basis, generally the PIU will be made up of 3 members including one representative each from the beneficiary (acting as Head), MoEF and Iller Bank.

The PIU will carry out a number of functions including:

- · Progress monitoring at Project level;
- Liaisons with the supervisor (Engineer according to FIDIC) of the project;
- Preparation of Project Monitoring Reports and their submission to the TIU;
- Function as a Consultative Committee for the CFCU and TIU;

- · Participation in the Project Steering Committee;
- Checking of payment requests and invoices and support to technical, financial reporting and accounting and pre -approval of invoices and payments for forwarding to the CFCU;
- Monitoring of the contractor's training activities for future operational staff;
- Participation in approval of works, performance tests of the completed works, commissioning and pre-approval of hand-over certificates;
- Monitoring compliance with visibility requirements;
- Appropriate ad-hoc reporting to the CFCU.

E.1.2. SEPERATION OF FUNCTIONS

In accordance with Article 21.2 of the IPA Implementing Regulation and Article ...of the Prime Ministry Circular, the appropriate segregation of duties is ensured between and within the designated bodies. The activities as planned at the time of the drafting the EOP are given below. However, as indicated in the beginning of this chapter a number of critical decisions regarding structures and responsibilities as well as management and information systems will be taken in the context of the accreditation for conferral of decentralised management. To this end, the Framework Agreement, as well as the Financing Agreement to be signed after conferral of decentralised management, will set out detailed provisions regarding management and control systems. The provisions of this section must therefore be understood as subject to latter adaptations by the applicable provisions of these agreements, where required.

(a) Separation of functions between the bodies

The separation of functions results from a division of tasks as described above. This follows the principle that there shall be a clear separation between (1) verification, evaluation, controls and assessments carried out by the OS and by the NF, (2) the AA and the implementation and payment procedures.

Clear separation between audits and implementation and payment procedures has been guaranteed through the differentiation of the bodies responsible for executi ng these tasks. Audits will be carried out by the Board of Treasury Controllers, which acts as A A, whereas implementation and payment procedures will be performed by the O S and the CFCU.

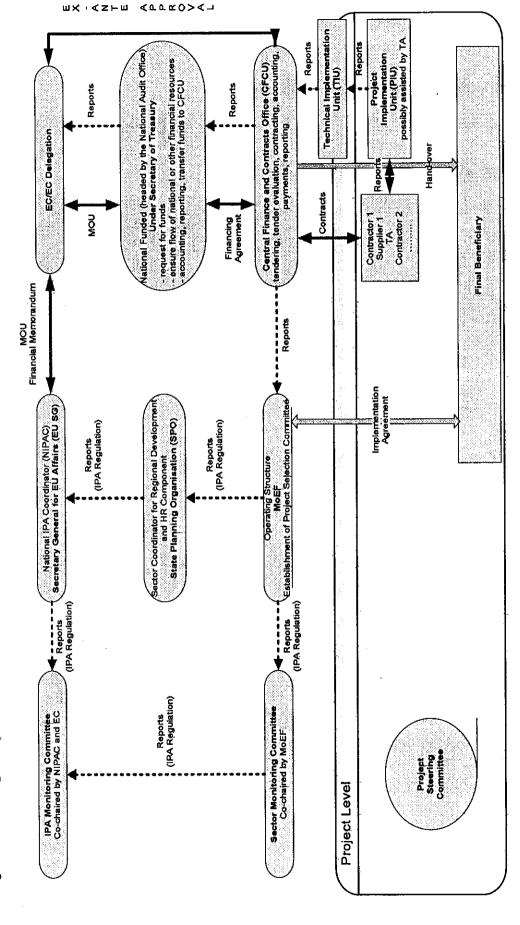
Furthermore, the division of tasks between bodies will be established through Implementing Agreements. These will be concluded between the MoEF, CFCU and NF. An Implementation (Operational) Agreement will also be concluded between the MoEF and the final beneficiaries.

(b) Separation of functions within the IPA Unit

The organisational structure of the bodies and their internal management and control procedures take into account an adequate separation of functions including the following principles (1) before an operation in authorised, the operational and financial aspects will be verified by staff other than those responsible for initiation or implementation of the operation, (2) certificates of statement of expenditure will be drawn up by a person or department within the NF that is functionally independent from any other se rvices, (3) the initiation, the ex-ante, and the ex-post controls are separate functions, to be carried out by different persons, functionally independent of each other.

In order to avoid any possible conflict of interest and to comply with the principle s of segregation of duties, the duties of the OS will be distributed between IPA Sub -Units, namely Programming, Quality Assurance and Control, Monitoring and Evaluation and Technical Implementation as described under E.1.

Diagram E.2. Showing Management, Control Structures and Reporting (schematic draft subject to adaptations)



N.B. Titles in bold show the responsible person/authority

E.2. MONITORING AND EVALUATION

The IPA Regulation includes specific provisions for the monitoring and evaluation of each OP.

E.2.1. MONITORING ARRANGEMENTS

This section of the OP describes the systems in place as they are known at the time of the drafting of the OP. However, a number of critical decisions regarding structures and responsibilities will be taken in the context of the accreditation for conferral of decentralised management, which follows a different timing from the adoption of the OP. Accordingly, the Framework Agreement, as well as the Financing Agreement to be signed after conferral of decentralised management, will set out detailed provisions regarding management and control systems. This chapter must be understood as provisional, to be superseded by the applicable provisions of these agreements.

In order to ensure coherence and co-ordination of the implementation of the IPA components, programmes and operations, the following Monitoring Committees will be established:

- IPA Monitoring Committee covering all the IPA components;
- SMC for the EOP:
- National Coordination Structures :
 - Financial Cooperation Board,
 - Regional Development and Human Resources Development Coordination Committee for III and IV components of the IPA.

(a) IPA Monitoring Committee

According to Article 58 of the IPA Implementing Regulation, Turkey, within six months after the entry into force of the IPA Implementing Regulation, shall set up an IPA Monitoring Committee, in agreement with the NIPAC and the Commission, to ensure coherence and co-ordination in the implementation of all IPA components.

The IPA Monitoring Committee shall satisfy itself as to the overall effectiveness, quality and coherence of the implementation of all programmes and operations towards meeting the objectives set out in the Financing Agreements as well as in the MIPD.

The IPA Monitoring Committee may make proposals to the Commission, the NIPAC and the NAO for any actions to ensure coherence and co-ordination between the programmes and operations implemented under the different components, as well as for any cross component corrective measures needed to ensure the achievement of the global objectives of the assistance provided, and to enhance its overall efficiency.

It may also make proposals to the SMC (see below) for decisions on any corrective measures to ensure the achievements of the programme objectives and enhance the efficiency of assistance provided under the EOP.

The IPA Monitoring Committee shall adopt it s internal rules of procedure in compliance with a monitoring committee mandate established by the Commission, and within the national institutional, legal and financial framework.

The IPA Monitoring Committee shall include among its members representative s of the Commission, the NIPAC, the NAO, representatives of the OS, and the sectoral co -ordinator. A representative from the Commission and NIPAC will co -chair the IPA Monitoring Committee meetings.

The IPA Monitoring Committee shall meet at least once a year. Intermediate meetings may also be convened, in particular on a thematic basis.

(b) Sectoral Monitoring Committee (SMC)

According to Article 59 of IPA Implementing Regulation, the Head of the OS for the EOP will establish a SMC within six months after entry into force of the regulation. This Committee will be co-chaired by the Head of the OS as well as a representative from the E uropean Commission.

The following members will be represented on the SMC:

- The National IPA Coordinator or his/her repres entative;
- A representative of the Commission;
- A representative of the Strategic Coordinator for Components III and IV;
- Representatives of each sub -unit of the Operating Structure for the EOP:
 - A representative of the Programming Sub -unit,
 - A representative of the Monitoring and Evaluation Sub -unit,
 - A representative of the Technical Implementation Sub -Unit,
 - A representative of the Quality Assurance and Control Sub -Unit,

- A representative of the Internal Audit Unit,
- · A representative of the Central Financing and Contracts Unit;
- A representative of the •ller Bank;
- · A representative of the National Authorizing Officer;
- Civil society and socio-economic partners;
- Line ministries responsible for OP Regional Competitiveness, OP Tr ansport, OP Human Resources OP Rural Development;
- · Where appropriate, IFIs when they provide co.-financing.

The composition of the SMC can be reviewed and extended by the Head of the OS in agreement with the EC in order to guarantee sufficient represent ation and membership.

The SMC EOP will be assisted by a permanent secretariat provided by the O S for the preparation of papers for discussion by the committee or for clearance by written procedure. The OS shall also inform the SMC EOP regularly about the p rogress made in implementing decisions from previous meetings.

Within this framework, secretariat services of the SMC EOP will be carried out by the Monitoring Team which will be established under the Monitoring and Evaluation Sub - Unit of the OS (please see Diagram E.1 above). SMC EOP will report to the IPA Monitoring Committee.

The SMC EOP will oversee the effectiveness and quality of the programme implementation, and will monitor especially the financial absorption capacity of the different intervention s. In accordance with the Article 167 of IPA Implementing Regulation, the Monitoring Committee shall:

The SMC carries out a number of functions that include:

- Considering and approving the general criteria for selecting projects, and approving any revision to those criteria in accordance with programme needs;
- Reviewing progress made towards achieving the specific targets of the programme on the basis of documents submitted by the MoEF;
- Examining the results of implementation, particularly the achievement of the targets set for each priority axis and measure as well as interim evaluations it shall carry out this monitoring by reference to the indicators agreed;
- Examining and approving annual and final reports on implementation, including OP summary table attached to the implementation chapter of the EOP;

- Reporting to the IPA Monitoring Committee on progress in implementation and the functioning of the management and control systems;
- Being informed about the audit activities carried out and the opinion given by the audit authorities and the EC concerning the EOP;
- · Making proposals for corrective measures.

The Secretariat of the SMC will be the responsibility of the Monitoring and Evaluation Sub-Unit under the IPA Unit in MoEF.

The SMC shall draw up its rules of procedure in compliance with a SMC mandate set out by the Commission, and within the institutional, legal and financial framework of the beneficiary country concerned. It shall adopt these rules of procedure in agreement with the OS and the IPA monitoring committee, in order to exercise its missions in accordance with this Regulation.

The OS is responsible for the preparation and implementation of the monitoring activities in close coordination with the SMC for the Regional Development and Human Resource components. It will prepare a monitoring and evaluation framework in line with EU requirements.

(c) National Coordination Struct ures

Overall coherence for financial cooperation with the EU as well as participation to Community Programmes shall be ensured through internal mechanisms by the involvement of all key actors (NIPAC, NAO, and Strategic Coordinator) under political ownersh ip. Accordingly, identification of two new structures is envisaged: Financial Cooperation Board (FCB) and Regional Development and Human Resources Development Coordination Committee.

1) Financial Cooperation Board

The FCB is envisaged to be established under the chairmanship of the Chief Negotiator with the involvement of NIPAC, NAO, Strategic Coordinator, Ministry of Foreign Affairs, and Ministry of Finance. Ministry of Transport, Ministry of Industry and Trade, Ministry of Environment and Forestry, Ministry of Labor and Social Security, Ministry of Agricultural and Rural Affairs and other relevant public institutions may participate, where appropriate. EUSG will provide secretariat of the Board.

This Board will ensure overall coherence for financial coop eration with the EU through political ownership and inter-ministerial coordination.

This Board will be responsible for;

- · Monitoring and steering of general financial cooperation process,
- Assessment of overall and annual breakdown of the funds among IPA components.

2) Regional Development and Human Resources Development Coordination Committee

As a part of the institutional set-up under IPA, a Regional Development and Human Resources Development Coordination Committee for the SCF will be established. The Committee will be composed of under the chairmanship of the Undersecretary or one Deputy Undersecretary of the State Planning Organisation, Undersecretaries of the OSs responsible for each OP and the high-level representatives of Ministry of Foreign Affairs, Ministry of Finance, Undersecretariat of Trea sury, EUSG and Iller Bank. SPO will provide secretariat of the Coordination Committee.

The main tasks and responsibilities of the Regional Development and Human Resources Development Coordination Committee are as follows:

- To steer the management of the SCF;
- · To secure OPs compliance with the SCF;
- To review the progress being made towards achieving objectives and targets on the OP base;
- To propose to the OS any revision of the programme for the attainment of the programmes' objectives and improvement of its management;
- To consider and approve any proposal to amend the financing agreement of the programme.

E.2.2. MANAGEMENT INFORMATION SYSTEM

The Heads of the OS and CFCU are responsible for the efficiency and accurac y of the management and implementation of the EOP. They will establish, maintain and regularly update a reporting and information system to gather reliable financial and statistical information on implementation, and for monitoring and evaluation. They will then submit this data-in accordance with arrangements agreed between NIPAC and the EC.

The system will be facilitated by one or several computerised system(s), in a form chosen by the OS, which will enable it to:

- Monitor and manage the implementation of operations and different projects, from the moment of tendering and call for proposals to the closure of the EOP, 2007 -2009;
- Carry out and monitor financial transactions;
- Ensure that reporting requirements are met and that implementation of EOP, 2007-2009 is carried out as planned.

Both the OS and the CFCU will share this system.

E.2.3. MONITORING SYSTEMS AND INDICATORS

The quantitative and qualitative progress made in implementing the EOP as well as its efficiency and effectiveness in relation to its objectives will be measured by the use of evaluation and monitoring indicators related to the results and outputs of the individual measures.

In identifying appropriate indicators, account must be tak en of the methodologies, guidelines and lists of examples of indicators issued by the EC, in particular the "Indicative Guidelines on evaluation methods: Monitoring and evaluation indicators" (August 2006, working document No. 2 for the programming period 2007-2013).

The Head of the OS will be responsible for monitoring the EOP and will collect data (outputs, results and expenditures) from the different projects. The OS will establish, maintain and update the reporting and information system by taking this project-level data-concerning final beneficiaries and aggregating them into measure(s) and priority axis. On this basis, the OS, in close coordination with the CFCU, will assess the progress of the EOP at each level against objectives and targets, prepare reports to the SMC, draft the sectoral annual and final reports on implementation and launch interim evaluations, if required.

In the context of monitoring and for the purpose of using indicators, the role of the OS will also be to ensure that:

- Monitoring requirements are built into the call for tenders and proposals documents;
- Project applications (when appraised and selected) include proposed outputs and results, as well as data on final beneficiaries, that are consistent with the EOP indi cators for the appropriate measure;
- The provision of data is built into the IA signed with final beneficiaries as an obligation, and that the performance data are provided systematically and in a timely-manner by the final beneficiaries alongside the project reimbursement claim.

E.2.4. SELECTION OF OPERATIONS

The OS will establish a PSC for the selection of operations. This committee will appraise project applications in compliance with the selection criteria and methodologies agreed by the SMC and published in the call for proposal documents. The administration and compliance check with eligibility and administrative criteria will be carried out by the Technical Implementation Sub-Unit under the IPA Unit in MoEF. The Committee will then make recommendations to the OS, in compliance with Article 158 of the IPA Implementing Regulation. The members of the Committee will include representatives from;

- MoEF;
- SPO;
- · Iler Bank:
- DS•.

Procurement (including the award of major projects) will be in accordance with EC PRAG and will be conducted by the CFCU. The CFCU will also organise the tender selection committees for the evaluation of service, works and supply tenders.

E.2.5. SECTORAL ANNUAL AND FINAL REPORTS ON IMPLEMENTATION

Sectoral annual and final reports on implementation will be prepared by the MoEF as OS in accordance with Article 169 of the IPA Implementing regulation. These reports will be prepared by the Monitoring and Evaluation Sub-Unit under the IPA Unit in MoEF and will assess (1) the implementation progress and achievement, or otherwise, of the objectives, (2) the problems encountered in managing the EOP and the measures taken for mitigation, (3) the financial management, (4) the monitoring and evaluation activities carried out. These reports will include specific progress reports on each major project, in accordance with a format to be agreed with the Commission.

E.2.6. EVALUATION ARRANGEMENTS

Evaluations are tools for assessing the relevance, efficiency and effectiveness of the financial assistance as well as the impact and sustainability of the expected results. As a minimum, an ex-ante evaluation and an interim evaluation should be carried out under the responsibility of the Head of the OS in accordance with the principles laid down in the IPA Regulation and guidance provided by the EC. The evaluation arrangements and activities must fully respect the principle of proportionality.

(a) Ex-ante evaluation

An ex-ante evaluation has been carried out under the responsibility of the OS by Deutsche Gesellschaft für Technische Zusammenarbeit (GTZ) International Services and the main recommendations incorporated into this EOP. A summary is provided **under Section A.1.7.**

Under the responsibility of the O.S., an ex ante evaluation of the EOP has been carried out by the independent expert within the framework of the technical assistance project called "Support to the SPO to Build Capacity at Central, Regional and Local Level to Implement Economic and Social Cohesion Measures." SPO has bearded overall responsibility for overseeing and coordinating the ex-ante evaluation process.

Key points related to the Environmental Report and Ex-ante Evaluation Report of the EOP is provided as an Annex (see Annex 6-7). Furthermore, a summary of the results of the exante evaluation and the way the evaluation was conducted within the EOP.

The main purposes of the ex ante evaluation were to:

- assess whether the overall programme is an appropriate means for addressing the issues confronting Turkey;
- check whether the programme has well defined strategic axes, priorities and objectives that are relevant to Turkey's needs and is achievable;
- advise on the quantification of objectives and the establishment of a basis for both monitoring and future evaluation work;
- review the adequacy of the implementation and monitoring arrangements and help with the design of project selection procedures and criteria.

(b) Interim evaluation

Interim evaluations will be carried out during the implementation of the EOP,. A mid -term evaluation will also be carried out in close co -ordination with similar evaluations for the other OPs. These will address implementation or management issues of an individual priority area or a key area of intervention, especially when the monitoring of the programme reveals a

significant departure from the initial goals. At any rate, evaluations should be planned to provide data on indicators agreed upon in the OPs that cannot be obtained through the monitoring system. For the EOP, the results will be sent to the ad -hoc committee on evaluations, to the SMC and to the EC. Budget allocations have already been made under the TA priority axis.

(c) Ex-post evaluation

Ex-post evaluations will be the responsibility of the EC in collaboration with the SPO. Some 'strategic evaluations' may also be carried out.

The ex-post evaluation will be carried out by independent experts and will be complete d not later than three years after the end of the programming period. The results of the evaluations will be published according to the applicable rules on access to documents.

(d) Evaluation function

The Head of the OS is responsible for ensuring that adequate evaluations of the EOP are carried out, under the Co-ordinator for the Regional Development and Human Resource Components. These evaluations will be conducted externally, by independent evaluators.

Evaluation with cross-cutting themes relevant for several programmes will also be managed by the same Co-ordinator.

(e) Evaluation committee

The SMC should design an ad-hoc committee to assist the OS in its evaluation activities. The committee members should be experts in evaluation. Relevant stakeholders should be able to contribute.

E.3. INFORMATION AND PUBLICITY

An inter-ministerial communication committee has been established since May 2007 under the co-ordination of the SPO for overall Economic and Social Cohesion (ESC) communication measures and to develop a global communication strategy. However, line ministries are in charge of preparing and implementing the Communication Strategy and related CAP for each OP.

A short term awareness raising programme is currently being designed and will be implemented during the second part of 2007.

E.3.1. INTRODUCTION

Information and publicity are important for the successful design and delivery of the EOP, given the essential partnership basis of the entire undertaking. The main aspects can be broken down into a series of activities and these are also eligible for pre-accession funding.

Accordingly, Article 62 of the IPA Regulation sets out certain requirements regarding the information to be provided and publicity of programmes and operations financed by the Community, addressed to citizens and beneficiaries with the aim of highlighting the role of Community funding and ensuring transparency.

The information to be provided by the EOP should include, inter alia, the publication of the list of final beneficiaries, the names of the projects and the amount of Community funding allocated to operations. Promulgation given by the Commission by way of publication of relevant information on tenders and contracts in the official Journal of the European Union and other relevant media and websites will also serve to publicise the programme.

Article 63 of the IPA Regulation states that the Commission and the relevant authorities of the beneficiary country shall agree to a coherent set of activities, to be funded from the TA priority of the OP, to make available and publicise information about IPA assistance.

In accordance with the above provisions, the OS will be responsible for the programme information and publicity activities. The information shall be a ddressed to all citizens within Turkey and to EU citizens in general, and specifically target potential beneficiaries. Campaigns will highlight the role of the Community and ensure that IPA assistance is transparent.

E.3.2. REQUIREMENTS

In compliance with Article 63 of the IPA Regulation and the European Commission Regulation (EC) 1159/1000 of 30 May 2000, the OS will be responsible for preparing a C AP to publicise information about IPA assistance to the potential beneficiaries and informing the public about the support activities of the E U. The CAP will cover the entire period from 2007-2013. The OS will submit a draft of the C AP to the Commission within four months from the date of signature of the Financing Agreement covering the EOP. As a minimum the plan will include the following points:

- · The aims and target groups;
- The strategy and content;
- · The indicative budget;
- · The administrative departments;
- · The criteria used for evaluation.

A special team responsible for information and publicity will be established within the OS. It will elaborate a CAP to provide a strategic coherence to the set of activities to publicise information about IPA assistance. The function to be performed by the Publicity Team is as follows:

- Preparing the CAP;
- · Informing the Commission about amendments made to the CAP;
- · Managing the communication activities of the Plan and related budget;
- Participating to the working group promoted by the MoEF;
- · Managing the information on the contents of the EOP provided at the Ministry's website;
- Preparing timely publication of materials related to EOP (newsletter, leaflets, reports, etc.);
- · Supervising general public awareness researches ;
- Monitoring the communication actions undertaken by the Implementing Instit utions and beneficiaries and providing advice to support compliance with EU publicity requirements;
- Supporting the organisation of conferences and other information events in partnership with the key stakeholders of the EOP and the other OSs;
- · Managing the media aspects of such events;
- Responding to requests for information from the media and general public;

- · Organizing and implementing a monitoring system to verify the effectiveness of the plan ;
- Preparing the monitoring reports on information and publicity activities for the SMC of EOP and for the European Commission.

E.3.3. ACTIVITIES

The Publicity Team will ensure that the information and publicity measures are implemented in accordance with the CAP and aiming at the broadest possible media c overage using all suitable forms and methods of communication at the appropriate territorial level. They will be responsible for organising the following:

- a major information activity publicising the launch of the EOP, if necessary, even in the absence of the final version of the C AP;
- at least one major information activity a year presenting the achievements of the EOP including major projects;
- the publication (electronically or otherwise) of the list of beneficiaries, the names of the projects and the amount of Community and national funding allocated to the operations.

The Publicity Team will provide potential beneficiaries with clear and detailed information on:

- the possibility of financing opportunities offered jointly by national funding and the Community through the EOP;
- · the conditions of eligibility to be met in order to qualify for financing under the EOP;
- a description of the procedures for examining applications for funding and of the time schedule involved;
- the criteria for selecting the operations to be financed;
- the contacts at national, regional or local level that can provide information on the EOP.

E.3.4. INDICATIVE BUDGET

The indicative budget for the CAP under this OP for the period 2007-2009 will be set at an appropriate level in order to provide adequate cover for the costs of the publicity and information measures. The budget allocation per year, as well as the indicative amounts necessary for the period 2010-2013, will also be presented in the CAP.

E.3.5. MANAGEMENT AND IMPLEMENTATION

Information and publicity activities will be carried out by the Publicity Team established under the Programming Sub -Unit of the IPA Unit. Publicity Team will be composed of the experts involved in the preparation process of the EOP and as well as the officials from the Press and Public Relations Counsellorship and Information Technologies (IT) Department of MoEF.

The Publicity Team will support the Head of the OS and have the following functions and responsibilities:

- Agree the CAP with the Commission;
- · Co-ordinating information and publicity activities under other IPA funded programmes;
- · Communication with the media:
- Elaboration, implementation and assessment of the C AP for the EOP;
- Represent the EOP in the relevant national and commission information networks;
- · Handle enquires from beneficiaries;
- · Monitor and control the information and publicity requirements from the beneficiaries;
- Develop, produce and distribute information materials; prepare and man age public events;
- · Develop and maintain the EOP website;
- · Liaison with IT regarding technical maintenance;
- Manage out-sourced services;
- Elaborate and monitor annual C APs and co-ordinate internal events and training.

Some of the information and publicity measures will almost certainly require out -sourcing for professional services (such as design and pre-print, web page, printing, advertising, photography and development and implementation of survey / opinion polls for feed -back from the public). It will be responsibility of the unit to manage such services and ensure they are contracted in accordance with public procurement rules.

E.3.6. MONITORING, EVALUATION AND REPORTING

Monitoring, evaluation and reporting are compulsory requirements for the implementation of the publicity measures included in the C AP of the EOP.

The progress made in the implementation of the C AP will be reported during meetings with the SMC. The Head of the OS will inform the SMC about the information and communication measures carried out and the means of communication used.

The annual and final reports on implementation of the EOP will include the following information:

- Examples of information and communication measures undertaken in implementing the CAP:
- The arrangements for the information and publicity measures concerning the publication electronically or otherwise of the list of beneficiaries, the names of the operations and the amount of public founding allocated to the operations;
- · The content of major amendments to the C AP.

A set of indicators for evaluation of the publicity measures will be included in the C AP and these will be used to assess the efficiency and effectiveness of the publicity activities.

The results of the qualitative and quantitative analyses will be used to elaborate the annual CAPs and any need for modifications.

E.3.7. PARTNERSHIP AND NETWORKING

Bodies that can disseminate information concerning the EOP to the general public are as follows:

- Professional trade associations and organisations;
- · Economic and social partners;
- NGOs:
- · Educational institutions;
- · Business organisations;
- Information centres on Europe and Commission representatives;
- Other main stakeholders for each p riority.

The OS will work in close co-operation with these bodies in order to publicise information regarding the EOP and the IPA.

E.3.8. INTERNET

In order to publicise the EOP, a web site will be established by the OS. This website will be used for informing the general public about the funding opportunities under the EOP, amount of the support, eligibility criteria for financial assistance, project selection criteria and selection process etc. It will be linked to the IPA, ECD, DG ELARG, DG EMPL and DG REGIO websites as well with the websites of the other OPs. It will be created according to the following principles:

- Accessibility to as many users as possible ensuring the site has a simple address; registering it on main search engines so it can be easily located; designing it to be viewable with low specification screens and software; ensuring it is quick to download;
- Prioritising fast access to rich information the site should be clearly organised so
 users can find what they are looking for quic kly and easily; the information should be
 available as downloadable portable document format (pdf) documents, where possible;
- Visual appeal strong visual identity through logos, use of colours etc. without limiting the clarity, speed and simplicity;
- · Continuous Development as an ongoing resource;
- Interactive content, exploiting the unique strengths of websites.

Furthermore, a web page has been designed for the Economic and Social Cohesion (ESC) Inter-ministerial Working Group which involves Strategic Coordinator (SPO) and OSs. This web page is one of the main instruments of the Inter-ministerial Working Group in publicity of the EU funding opportunities, SCF, and O Ps under III & IV components of the IPA. This web site aims to carry out consult ation activities related to the OP's, to promote the EU funds in Turkey, to ensure exchange of information and to give updated information to all stakeholders at central, regional and local level.

Annex 1: List of stakeholders involved in the prepa ration of the EOP, 2007-2009

List of institutions involved in the preparation of the EOP

- Ministry of Environment and Forestry (MoEF): Operating Structure (OS)
 (Department of Foreign Affairs and European Union)
- Prime Ministry Undersecretariat of S tate Planning Organisation (SPO)
 (General Directorate of European Union Relations)
 (General Directorate of Social Sectors and Coordination)
- Prime Ministry Undersecretariat of Treasury (General Directorate of Foreign Economic Relations)
- Prime Ministry Secretariat General for EU Affairs (EU SG)
 (Department of Sectoral and Regional Policies)
- Prime Ministry Southeastern Anatolia Project Regional Development Administration
- Prime Ministry Turkish Statistical Institute (TURKSTAT)
- Ministry of Foreign Affairs (Deputy General Directorate for Energy, Water and Environment)
- Ministry of Interior (Deputy General Directorate of Local Authorities)
- Ministry of Finance (Directorate of EU and Foreign Relations)

- Ministry of National Education (General Directorate of Foreign Relations)
- Ministry of Public Works and Settlement (European Union Unit)
 (General Directorate of Bank of Provinces -International Relations Unit)
- Ministry of Health (MoH)
 (General Directorate of Basic Health Services)
- Ministry of Transport (Department of European Union Coordination)
- Ministry of Agriculture and Rural Affairs (General Directorate of Protection and Control)
- Ministry of Labour and Social Security (Department of European Union Coordination)
- Ministry of Industry and Trade
 (General Directorate of European Union Coordination)
- Ministry of Environment and Forestry (General Directorate of State Hydraul ic Works)
- Ministry of Culture and Tourism
 (Department of Foreign Relations and European Union Coordination)
- · Turkish Standards Institution
- Energy Market Regulatory Authority

ListonProvincial Pricetionales of the Ministry of Environment and Enrestry involved in the preparation of the EOP

- Governorship of Adana (Provincial Directorate of Environment and Forestry)
- Governorship of Ankara (Provincial Directorate of Environment and Forestry)
- Governorship of Antalya (Provincial Directorate of Environment and Forestry)
- Governorship of Bal-kesir
 (Provincial Directorate of Environment and Forestry)
- Governorship of Bursa (Provincial Directorate of Environment and Forestry)
- Governorship of Çorum (Provincial Directorate of Environment and Forestry)
- Governorship of Denizli (Provincial Directorate of Environment and Forestry)
- Governorship of Diyarbak•r
 (Provincial Directorate of Environment and Forestry)
- Governorship of Erzurum (Provincial Directorate of Environment and Forestry)
- Governorship of Gaziantep (Provincial Directorate of Environment and Forestry)

lastoda komment Directora es orthe dinary of Environmentanta coesta. involved in the prevaration of the EOP.

- Governorship of *stanbul (Provincial Directorate of Environment and Forestry)
- Governorship of •zmir
 (Provincial Directorate of Environment and Forestry)
- Governorship of Kayseri (Provincial Directorate of Environment and Forestry)
- Governorship of Kocaeli (Provincial Directorate of Environment and Forestry)
- Governorship of Konya (Provincial Directorate of Environment and Forestry)
- Governorship of Mersin
 (Provincial Directorate of Environment and Forestry)
- Governorship of Samsun (Provincial Directorate of Environment and Forestry)
- Governorship of Trabzon (Provincial Directorate of Environment and Forestry)

List of Universities involved in the organization of the EOP

- Presidency of Bal-kesir University
 (Faculty of Engineering and Architecture Department of Environmental Engineering)
- Presidency of Bo• aziçi University (Institute of Environmental Sciences)
- Presidency of Çukurova University
 (Faculty of Engineering and Architecture Department of Environmental Engineering
- Presidency of Dokuz Eylül University (Faculty of Engineering - Department of Environmental Engineering)
- Presidency of Erciyes University (Faculty of Engineering - Department of Environmental Engineering)
- Presidency of Hacettepe University (Faculty of Engineering - Department of Environmental Engineering)
- Presidency-of *stanbul Technical University
 (Faculty of Civil Engineering Department of Environmental Engineering)
- Presidency of Kocaeli University
 (Faculty of Engineering Department of Environmental Engineering)
- Presidency of Mersin University
 (Faculty of Civil Engineering Department of Environmental Engineering)

Hstroi Universities involved in the preparation of the 2012.

- Presidency of Pamukkale University
 (Faculty of Engineering Department of Environmental Engineering)
- Presidency of Selçuk University
 (Faculty of Engineering and Architecture Department of Environmental Engineering)
- Presidency of Uluda University
 (Faculty of Engineering and Architecture Department of Environmental Engineering)

ાં કુ ી_js(ઇ) NS0s involved in the preparation of the E⊙P ∷ે Agricultural Development Foundation Association of Environmental Volunteers of Diyarba k-r Association of Environmental Volunteers of Edirne Business Association for Sustainable Development Central Anatolia Region Environmental Platform (•ÇAÇEP) Economic Development Foundation Economic Policy Research Foundation of Turkey (TEPAV) Environmental Consultation and Engineering Association (Association of Environment) Environmental Protection and Packaging Recovery & Recycling Trust (ÇEVKO) Environmental Protection Foundation of *zmir Environmental Protection Foundation of Sivas Federation of Nature Conservation in Black Sea (KAR DO A) Federation of Sustainable Agriculture Associations Global Balance Association Marmara Region Environmental Platform

List of NGO's myoured in the preparation of the Eop Nature Association Sustainable and Ecological Agriculture Association Technology Development Foundation of Turkey (TTGV) • The Turkish Foundation for Combating Soil Erosion, for Reforestation and the Protection of Natural Habitats (TEMA) The Union of Chambers and Commodity Exchanges of Turkey (TOBB) Turkey Environmental Protection Foundation Turkish Environmental and Woodlands Protection Society (TÜRÇEK) Turkish Environmental Platform Turkish Industrialists' and Busin essman's Association (TÜS•AD) Turkish Marine Environment Protection Association (DEN•Z TEM•Z) Turkish National Committee on Solid Wastes (KAKAD) Turkish Nature Conservation Association Union of Chambers of Turkish Engineers and Architects (TMMOB) Union of Municipalities in Turkey West Black Sea Region Environmental Platform (BAKÇEP)

List of NGOs involved in the preparation of the EΘP West Mediterranean Region Environmental Platform (BAÇEP) World Energy Council Turkish Na tional Committee World Wildlife Foundation - Turkey (WWF - Turkey) Youth Association for Habitat and Agenda 21

Annex 2: Events and meetings held with the stakeholders involved in the preparation of the EOP, 2007 -2009

List of events and meetings held with the stakeholders involved in the preparation the EOP	olved in the preparation the EOP.	
A STATE OF THE PARTY OF THE PAR		Tonue A
Introductory Meeting on the SCF and Ops	15 April 2006	SPO
Training Meeting on Preparation of the SCF	27-29 June 2006	SPO
Training Meeting on Preparation of the EOP	02-08 July 2006	SPO
Initial Meeting on the EOP	21 July 2006	MoEF
Consultation Meeting on EOP	28 July 2006	DEDEMAN HOTEL
Meetings on Preparation of the EOP	01 August 2006 - 01 February 2007 (during all weeks)	MoEF
First Monitoring and Evaluation Meeting on the Draft SCF and EOP - (with European Commission Team)	30 November 2006	SPO
First Meeting of the EOP Ex-ante Evaluation	22 December 2006	MOEF
Second Meeting of the EOP Ex-ante Evaluation	12 January 2007	MoEF
Monitoring and Evaluation Meeting on the Draft EOP (with Inter-institutional Team)	18-19 January 2007	MoEF
Third Meeting of the EOP Ex-ante Evaluation	01 February 2007	MoEF
OP and Partnership Principle Seminar for the Environment	05 March 2007	DEDEMAN HOTEL

Environmental Oper ation Programme 2007 -2009 Republic of Turkey

List of events and meetings held with the stakeholders involved in the preparation the EOP	the preparation the EOP	
Name, Same and Same a	Control Date of the Control of the C	· · · · · · · · · · · · · · · · · · ·
First Monitoring and Evaluation Meeting on the Draft EOP - (with European Commission Team)	09 March 2007	BRUSSEL
Second Monitoring and Evaluation Meeting on the Draft SCF and EOP - (with European Commission Team)	27 March 2007	SPO
Second Monitoring and Evaluation Meeting on the Draft EOP - (with European Commission Team)	12 June 2007	MoEF
Monitoring and Evaluation Meeting on the Draft EOP - (with Directorates of Provinces Team)	14 Juhe 2007	MoEF
Monitoring and Evaluation Meeting on the Draft EOP - (with University Team)	15 June 2007	MoEF
Monitoring and Evaluation Meeting on the Draft EOP - (with Inter-institutional Team)	22 June 2007	MoEF
Monitoring and Evaluation Meeting on the Draft EOP + (with NGOs Team)	25 June 2007	MoEF
European Union - NGOs Dialogue Meeting	26 June 2007	NEVA PALACE HOTEL
Fourth Meeting of the EOP Ex-ante Evaluation	03 July 2007	MoEF

Annex 3: List of major environmental infrastructure projects under the EOP, 2007 -2009

	List of major drinking water projects	
Ranking	Name of the project	Cost (EUR)
	Manavgat Drinking Water Supply Project	ECHOPADO
Harry 2 Control of the control of th	Erci• Drinking Water Supply Project	24/3000 000 T
3.3 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0 3.0	Do• ubeyaz•t Drinking Water Supply Project	A COUNTY OF THE PROPERTY OF TH
4	Ezeltere Drinking Water Supply Project	10.000 000

Total	

List of major waste water projects

Ranking	Name of the project	Cost (EUR)
	Erzurum WWTP, Collector, Stormwater and Sewerage Network Project	7/8 000 000
	K•r• ehir WWTP Project	12.700 000
Swifter Swifter	Ad-yaman WWTP Project	18 500 000
	Siverek WWTP Project	13 200 000
5	Diyarbak•r WWTP BiologicaLT reatment Upgrade Project	30 200 000
6	Turhal WWTP Project (DABLAS Programme Project)	10 000 000
7 / 1 2 / 7	Aksaray WWTP Rehabilitation Project	13 500 000
And Bridge	Ceyhan WWTP, Storm water Network and Drinking Water Transmission Line Project	13.150.000
	Band-rma WWTP and Stormwater Network Project	11 150 000
22 May 22 day 10 m	Turgutlu WWTP Project	10 000 000

	List of major waste water projects	
Ranking	Name of the project	Cost (EUR)
	Aydn WWTP Project	
が成立します。 単二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十二十	Ordu WWTP Project (DABLAS Programme Project)	igh esignal

Total	236230100	All Property and All Pr

List of major integrated solid waste management projects							
Ranking	Name of the project	Cost (EUR)					
Andreas	Kayseri Integrated SWM Project	30 387 500					
2	Çorum Integrated SWM Project	21 815 497					
	Konya Integrated SWM Project	22 936 200					
4 4	Bal-kesir Integrated SWM Project	14.224.000					
15 (15) 1 (15)	Artvin-Rize Integrated SWM Project	14 500 000					
12 6 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	•zmir-Harmandal∙ Integrated SWM Project	10.850000					
7,000 cm	Van Integrated SWM Project	20 600 000					
8 d. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4.	Batman Integrated SWM Project	_18 000 000					
	Malatya Integrated SWM Project	23 000 000					
**************************************	Ere• li Integrated SWM Project (NUTS II Project)	10 000 000					

		医皮肤 海豚类菌的
Total	and the company of th	186 313 197

Annex 4: Project identification cards

The Project Identification Card for each major project is given including project name, investment value and financing sources, description of the main components, description of project objectives and expected results, timetable, sta tus of basis project documentation, status of project design.

Project No : 1	Priority Ax	:IS - 1		M	easure No.: 1.1		
Project location:	MANAVGAT/ANTALYA						
Project name	Renewal of Manavgat Drinking Water Supply and to increase capacity						
2. Investment value s 11.11 (estimated)	18 800 000 EUR						
3. Description of main project components and/or activities	New Resources Storage Tanks Network - Pressurised Main Line-						
Description of main project objectives and expected results	Objective areas.	of the project is to prov	/ide drinkii	ng water t	o Manavgat City Centre and to conti	guous tourism	
5. Month and year of start of project implementations	2009	6. Month and year of project implement		2012	7. Project duration (months)	36	
8. Readiness of basic project document	dation						
Document type	Status	Siarus descripțion	Comple	tion data	Comment		
Pre leasibility study	Ø	Completed	2004	4	Done in coordination with eller Bank	ι.	
Feasibility study (with cost-benefit analyses which includes economic and their claim analysis)		None					
EIA study		None					
Tender documents 222		None					
Other (specify)	Ø	Completed	1	/06/2005 /06/2005	Geological - Geotechnical Surv Final Project of Manavgat Drink Project Report		

9: Status of project design gosume	пация анд ре			1 (2014) P. (1 1 (1 (2014) P. (201	
Boelinentikoraya a	Signs and Cock Body	Sinus description (not emigratic esc sompletes)	Coordeton date		e Gommie
Conceptual design		None			
Prolimbary design		None			
Maindesigna		None			
Final design	Ø	Completed	2005	Carried out Standards.	by iller Bank according to Turkish
Location Parmit		None			
Building Permit		None			
Other (specify)		None			
10/Description of the Land Switchellar	All Park (S. 18) Skantik S. 18 Skantik S. 18 Skantik S. 18 Skantik S. 18	There is no expropriation	on problem for the pro	ject area.	
EBBC (BBC) (Babbo) administration	H-A life pro	ject will be a service :	contract and under t	tenderina by (ojects from the Priority Projects for CFCU (Shortlisting). The Project is y for IPA 2008 Programming.
12. Name of that Senanciary #	Manavg	gat Municipality	13. Name of Operation		Manavgat Municipality
(4850) Control of mancing 3					
(including that beverday)		GDRCIY AND	Otierdonor (se	AND	1000 v DPAS pro = 72
4 700 000 EUR		EUR	EU	R	14 100 000 EUR
5 Atakoka compose				<u></u> 1	

Project No : 2	Priority Ax	is: 1		M	easure No. : 1.1		
Project location:		ERC•/VAN					
1. Project name	Erci• Drink	king Water Supply Project	t				
2. Investment value result in the control of the co	22 000-000	22 000 000 EUR					
3. Description of main project components and/or activities.	Storage Network	New Resources; Storage Tanks (2500 m³ + 7500 m³); Network Line; City Network.					
4. Description of main project objectives and expected results	Despite th	ent water network of the ne best efforts of the muni ect completion, disinfected	icipality, o	only 60% of	ent due to water losses and populate the district is provided with water.	ation increase.	
5. Month and year of start of projects Implementation a 200	2009	6. Month and year of project implementa		2012	7. Project duration (months)	36	
8. Readiness of basic project docume	Talion T					1 497.5 1 2 1 2 2 2 2 2 3 1 2 3 1 2 3 1 2 3 1 3 1	
Document type:	Sans	Status description	Cample	Hon date	Comment !s	ang ketapang Kal Latin pangkang Kal Latin pangkang Kal	
Pre-reasibility study	Ø	On-going	2	004	With the own resources of the r	municipality.	
Fasibility, shary (with cost-beden) analysis: which includes economic and francia, analysis)		None					
EIA Study	- 🗆	None					
Tender documents		None					
Other (specify)	Ø	None					

	alle de la company			1.00	
9. Status of spojed sdesign do same	iaidurant ra				
13 (2) Boelimentelloniyya 28	3:14 3:14	Tstatus desempron Amerika grogiessi/			
	(06) (55))	completed			Comilers 1992
Contaptual design		None			
Reliminary design as a second		None			
Want loser		None			
Final hospitals (1997)		None			,
Cocation Phiniii		None			
Bullding Permit		None			
OHRE (SDECTE)		None			
10. Description of the land of wherein	Rugh Bank Status Status Status Status	There is no expropriation	on problem for the pro	aject area.	
M Destulise arent pope estate	IFA. The proj	ect will be a service	contract and under t	tendering by	Projects from the Priority Projects for CFCU (Shortlisting). The Project is dy for IPA 2008 Programming.
e 20stus in benjagler Santa	Erci•	Municipality	AS Name of City and C		Erci• Municipality
14. Sources of the calling the					
National components Assume that of the component say)		Spacify)	Oner donor (sp	ecly)	Processing and Proces
5 500 000 EUR		EUR	EU	IR	16 500 000 EUR

Project No: 3	Priority A	Priority Axis:1			Measure No.: 1.1				
Project location:	DOGUBAYAZIT/ A∙ RI								
1. Project name	Restoration of Bai-kl- Göl Transmission Line, Establishment Of Treatment Plant And Restoration Of City Network Project								
2) Investment value	19 400 000 EUR								
3. Description of main project components and/or activities	 Drinking water Treatment Plant; • Storage Tanks (5000 m³ + 300 m³); Network - Pressurised Main Line; • City Network. 								
4. Description of main project objectives and expected results.	The outcor 1) Increas penetrating city networ potable w 4) Present	Objective of the project is to meet the drinking water demand of the district. The outcomes of the project will be: 1) Increased amount of drinking water and potable water; 2) Eliminating the threat of wastewater penetrating into network due to negative pressure at cracks and leakage points with the restoration of the city network replacing one in an irreparable condition; 3) The treatment plant will ensure drinking water and potable water will be supplied according to standards determined by related laws and EU Directives; 4) Present transmission line was built by using AC pipes, but, was demolished by villages located on the route of transmission line. Renewal of the transmission line with more resistant pipes will ensure safety of the line.							
5. Month and year of start of projects implementation.	2009	6. Month and year of end of project implementation 2012			7. Project duration (months)	36			
8. Readiness of basic project documen	tation (s. 5)					ore of the con- many of the con- many of the con-			
Döckment typa	Status	Status description	Comple	ilon date	Complete Complete	180 P. S.			
Pre-leasibility study	☑	Completed	2004	1	Done in coordination with der Bank	ζ.			
Feasibility study (with cost-benefit analyses which includes economic and mandal analysis).		None							
EIA study		None							
Tander documents	- 🗆	None							
Other (specify)	Ø	Completed	1) 2 ¹ 2) 03	005 3/2005	 Do• ubayaz-t Drinking Water Si Justification and Planning Report done by •ller Bank. Study and Planning Report (Also there is an 5-page additing planning report). 	ort,			

9. Status of project design documen	lakon and be	alm						
Bocumentation type	Sizus (ick dox)	Status descriptions (nonein groupers/ grompleted)	Gainja sillangasta		Commen			
Conceptual design		None			manufacture of the control of the co			
Preuminary design at a constant		None						
Main design		None						
Final design	. D.	None						
Location Pennit	Ø	Completed	06.11.2006		eneral Directorate of National Estate of Finance for the location of treatment			
Rolding Parity		None						
Ciper (specify)		None						
Surpescription of the land ownership		There is no expropriation problem for the project area except the place of storage tanks. Allocation of the area of storage tanks will be done by the municipality. Additional land expropriation for treatment plant may be needed.						
Section 1997	Technical Assistance Project to prepare 8 Drinking Water Supply Projects from the Priority Projects for IPA. The project will be a service contract and under tendering by CFCU (Shortlisting). The Project is financed under SEI 2005 Program. The Projects are expected to be ready for IPA 2008 Programming.							
124Name of malebaneticary	Do• ubey	eyaz-f Municipality 13. Name of Operator. Do- ubeyaz-f Municipality						
14. Sources of mancing								
Nettonal Composition (Including final herenches):	(Figure 2))) Figure 2 (Part do Loris (Specify)) (Figure 2)							
4 850 000 EUR	•	EUREUR 14 550 000 EUR						
F Page 18 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	In existing situation, there is a cascade aeration for water coming from Balkle Göl. But, this system was damaged and process is not sufficient for treatment. The feasibility and environmental impact assessment studies for the project have not been completed yet.							

Project No : 4	Priority A	ws 1			Measure No. : 1.1				
Project location :	BULANCAK/ G-RESUN								
Project name 4 12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Ezeltere Drinking Water Project								
2. Investment value.	10 000 000 EUR								
Spiriture in the second	• New Re	• New Resources;							
3. Description of main project components and/or activities	Treatment Plant;								
	Storage Tanks; Network - Pressurised Main Line.								
4. Description of main project objectives and expected results and expected results are the second of the second o	The objective of the project is to meet the water demand and provide safe drinking water for the district at least until the year 2040.								
5. Month and year of start of project (mplementation)	2009	6. Month and year of project implement		2012	7. Project duration (months)	3 6			
8/Readiness of basic project doctmen	iation.	The second secon							
Document type	Slams	Status description	Comple	tion date	Comment				
Pre-feasibility study and					-				
Feasibility study (with cost-benefit analysis; Wildin includes economic and financial analysis)									
ElA Study	· 🗆	-							
Tender documents					-				
Other (specify)	Ø	Completed			Hydrologic and Hydrogeological Str	udy Report.			

9) Status of project design document					
Borumentation type	a Status (ick 50)ve	Status description (note(in progress) (a. completed) (a.	compration date.		Gamman
Conceptual design			Control (Marian) control in the control of the cont		
Proliminary designs and a second			E		
Maindesign 10 Tolking					
Final design and the state of t					
Excation Permit			-		
Bulloing Permit					
Other (specify)				_	
(t) Description of the land owners ha		There is no expropriati	on problem for the pr	oject area. The	e area is public domain.
Construction of the second sec	IPA. The pro	oject will be a service	contract and under	tendering: by	rojects from the Priority Projects for CFCU (Shortlisting). The Project is dy for IPA 2008 Programming.
12 Name of Trial Corporation (Co. 7)	Buland	cak Municipality	ASANAMENTA ASANAMENTA ASANA ASANA		Bulancak Municipality
14 Sources of mancing				Constitution (Constitution (Co	
National components (including final berieficlary)		(Specify)	Oinbruskia Oinbruskia		Poposila de la composición del composición de la composición del composición de la c
2 500 000 EUR	-	£UR	·E	EUR	7 500 000 EUR
(E. Adaptonal Comments	-				

Project No : 1	Priority /	Axis : 1		Measure No.: 1.2					
Project location:		ERZURÚM/	ERZURUM						
1. Project rame h	Erzurum Wastewater Treatment Plant, Collector, Storm Water and Partial Sewerage Network Project								
2 Investment value (estimated)	78 000 000 EUR								
3. Description of main project components and/or activities	Capaci	 Construction of a new Wastewater Treatment Plant (WWTP); Capacity: 408.000 Domestic population equivalent (2010) 30.037 Industrial population equivalent for (2010),							
	 Construction of Sewerage Network (20 km extension for the new development regions, Feasibility Report, 1999); Construction of storm water network (74 km, Feasibility Report, 1999). 								
4. Description of main project objectives and expected results **The control of the control o	The main objective is to prevent the pollution of Karasu River as well as to eliminate the problems caused by the lack of a seperate sewerage πetwork system. The Project will provide a sustainable solution to the, wastewater treatment and management problems of Erzurum.								
5. Month and year of start of project is implementation.	2009 6. Month and year of end of 2012 7. Project duration (months) 36								
6. Readiness of basic project documen									
Documently co	Status:	Status descriptions	Completion date	Commendae					
Pre-feasibility study	☑	Completed	19 99	Carried out by Erzurum Water and Sewerage Administration.					
Feasibility study (with cost-benefit analyses which includes economic and financial analysis).		None							
EIA study	Ø	Completed	2002	Preliminary EIA Study.					
Tender documents		None							
Other (specify)	Ø	Completed		There is Geotechnical study available.					

9-Status of project design document		HEALTH STATE OF THE STATE OF TH					
A Discumentationtype	e spilos Tilokboro Tilokboro	Status des applica a trons lipation less de la complete de la acceptanción de la complete de la	Somplatoricales		* Post /		
Conceptual design	☑	Completed	1999	In the co	entext of the Pre-Feasibility study.		
Preliminary design 4200		None					
Maintesign		None					
Final design		None		· 			
Location Permit		None-					
Building Permit		None					
Other (specify)		None			<u></u>		
10. Description of the land ownership	Asialus Asialus Marie (All	The land is currently or	wned partially by the	legal persons	and partially by the natural persons.		
Tribes control of the	A Technical Assistance Project covering 15 WWTP Projects will asist to prepare Erzurum WWTP Project for IPA Program (Feasibility, EIA, Design, Tender Dossier, IPA Application Package). The project will be a service contract and under tendering by CFCU (Shortlisting completed). The Project is financed under SEI 2005 Program by EU and has a duration of 14 months.						
2. Name o The Special Grid	Erzurum Me	etropolitan Municipality	13 Name of opina		Erzurum Water and Sewerage Administration.		
A Source of fine telling the second of the s							
Para National component as (including the 150 vention) // 22		(Constitution of the Constitution of the Const	in the control of the		Proposed Salaria.		
19 500 000 EUR		EUR	E	EUR	58 500 000 EUR		
15 Adduonal Comments							

Project No : 2	Priority A	xis: 1		Measure No.: 1.2		
Project location :		KIR• EH•R/k	(IR• EH•R			
1 Project name ### ### ############################	- K•r∙ ehir W	/astewater Treatment P	ant Project			
2. Investment value (estimated)	12 700 00	0 EUR				
3. Description of main project	• Construction of a new Wastewater Treatment Plant (WWTP) Design Populations: 2012 - 128 500 population equivalent; 2032 - 257 000 population equivalent Project Flow Rate: 1460 m³/h (2012), 3080 m³/h (2032) (Based on the Final Design Report, *ller Bank, 2002).					
4. Description of main project objectives and expected results	The main objective of the project is to discharge the wastewater generated in K-r- ehir and nearby district in compliance with the relavant Turkish and EU Standards. The project will contribute to the improvement of health and environmental conditions in K-r-çözü River and the surrounding area through the delivery of clean irrigation water and an increase in soil productivity.					
5. Month and year of state of project implementation.	2009	6. Month and year of project implement	300 200 200 200 200 200 200 200 200 200	7 Project duration (months) 36		
8. Readiness of basic project documen	tellon .					
Document type:	Satus	Sizitus descriptions	Completion date	Compet 1		
Pre-leasibility study.	Ø	Completed	1998	Carried out by ller Bank according to Turkish Standards.		
Feasibility study (with cost-belieff) analyses which lackdes aconomic and mancial analysis)		None		-		
ELA study (1988)		None				
Tender documents		None				
Other (specify)	_ ☑	Completed	2002	WWTP Application Project with Final Design Report. Also, Geotechnical Study is available, Her Bank, 2002.		

9. Status of project design document	or trace of atlon and per 1 at 1	mis Town		Discounting of the control of the co			
Pacimenator type	Gritogia Constantia	Status description : (((7) of plotopless : (2) contable (2)	Gojnjatski spicenci				
Conceptual design		None					
Protininary design		None					
Maintesign (1997)		None	-7				
Final design	Ø	Completed	2002	Acco	rding to •lier Bank's Standards.		
Cocaton Permit							
Bulkilog Permit							
PHILESPECIAL STATES OF THE STA							
10. Ouscription of the leng coveres in	Status. The land expropriation process is completed.						
11 Describe current Mojestible (centre)	A Technical Assistance Project covering 15 WWTP Projects will asist to prepare K-r-ehir WWTP Project for IPA Program (Feasibility, EIA, Design, Tender Dossier, IPA Application Package). The project will be a service contract and under tendering by CFCU (Shortlisting completed). The Project is financed under SEI 2005 Program by EU and tras a duration of 14 months.						
Para di Para d Para di Para di	K-r• el	hir Municipality	13 Alame of Chera		K-r- ehir Municipality		
A second of the control of the contr							
* Naporal component (including Ina) beneficiary)) (specify) 1	Other definer (s	Jecry)			
3 175 000 EUR		EUR	E	UR	9 525 000 EUR		
15 Additional Comments							

Project No.: 3	Priority A	xis: 1		Measure No.: 1.2				
Project location :	ADIYAMAN/ ADIYAMAN							
1 Project name	Ad•yaman	Ad-yaman Wastewater Treatment Plant Project						
2. Investment value *** *** (esumated)	18 500 000 EUR							
3. Description of main project components and/or activities	 Construction of a new WasteWater Treatment Plant (WWTP); (Capacity: 434 l/sec), Construction of Collector Line. 							
4. Description of main project objectives and expected results	The main objective of the project is to discharge the wastewater generated in Ad-yaman in compliance with the relevant Turkish and EU Standards and to prevent pollution in Atatürk Dam.							
5. Month and year of start of project implementation	2009	6. Month and year of project implement		7 Project duration (months) 36				
8. Readiness of basic project documen	tation .	gan digitalis 1900 - Paris III						
Document lype	Santa	Siaus description	Completion date	Gomment T				
Pre-leastuitity study	· 🔯	Completed	2007	WWTP Feasibility and Final Design, Iller Bank.				
Feasibility, study, (with cost-benefit, analyses, which includes economic and financial analysis).	- □	None						
EIA Study)		None						
Tender documents		None						
Other (specify)		None	-					

19 19 Status of project design downlend	atton and per						
Documentation type:	ISTALIS (IICK BOX)	Status de scription Finonellium rogressa. Completed X	e amplehen cate		Summire		
Conceptual designi		None					
Pibliminary design		None					
Main design		-None					
Einal Besign	Ø	In Progress	End of 2007	Acco	rding to -lier Bank's Standards.		
Location Pornic		None		·			
Building Permit		None		<u>-</u>			
re/fic Total City) Services		None					
10 pescription of the 4nd ownership	The land expropriation process is completed./ Land expropriation studies are on-going.						
The control of the co	A Technical Assistance Project covering 15 WWTP Projects will asist to prepare Kerehir WWTP Project for IPA Program (Feasibility, EIA, Design, Tender Dossier, IPA Application Package). The project will be a service contract and under tendering by CFCU (Shortlisting completed). The Project is financed under SEI 2005 Program by EU and has a duration of 14 months.						
12 Name of the Personal Control	. Ad•yan	nan Municipality	13 Name of Opera		Ad-yaman Municipality		
A Sourceso (Hancis)							
Naidoral composition (including that occasiona)		(specily)	Other donor (pecify becify	Parios Delication of the second of the secon		
4 625 000 EUR	·	EUR	E	UR	13 875 000 EUR		
15. Additional Comments							

Project No : 4	Priority A	ws 1		Measure No.: 1.2				
Project location :		S•VEREK/•	ANLIURFA					
11 Project name	Siverek S	ewerage and Wastewat	er Treatment Plant	Project				
2. Investment value (estimated)	13 200 00	13 200 000 EUR						
3. Description of main project components and/or activities	 Construction of a new Wastewater Treatment Treatment Plant; (Capacity: for 2012: 383l/sec; for 2032 -771 l/sec), Project Population: 136.000 census (2012) .275.000 census (2032) Construction of Collector Line; Construction of Sewerage Network. 							
4 Description of main project objectives and expected results.	The main objective is to treat and discharge separately the stormwater and sewage in compliance with Turkish and EU Standards. The project will result in a sustainable and safe infrastructure.							
5. Month and year or start of project implementation	2009	6 Month and year of project implemen		7- Project duration (months). 36				
8. Readiness of hasic project documen	lation .							
Bocument type: 1	Siaus	Siatus description	Completion date	DE SE				
Pre-reasibility studys	Ø	Completed	1999-2000	Sewerage Application Project, fler Bank, 1999. WWTP Application Project and Final Design, fler Bank, 2000.				
Feasibility study fixin cost-benefit analyses which includes aconomic and financial analysis)		None -						
EIA study	Ø	Completed	2001	Preliminary EIA Study.				
Tender documents		None						
Other (specify)	Ø	Completed	2000	Geotechnical Study in the context of WWTP Application Project.				

9 Sattero projectilosignidocemen	ation and per		ing of scanning Pro- MTMALITY (III)				
The part of the pa	Salter Artiboli	States description (no) et in treates a récompléted	sometaioneata		Conjugati		
Concentration gin		None					
Preliminary design 3 4 1 1		None					
Hain design		None		·			
(Final design is a second of the second of t	Ø	Completed	2000	Acco	rding to -iler Bank's standards.		
Location Permit		None					
Building Permit		None					
Other (specify)		None					
(Qapeseriplian of declared ownershi	The land expropriation process is on-going.						
T. Describe Unren project states	A Technical Assistance Project covering 15 WWTP Projects will asist to prepare Erzurum WWTP Project for IPA Program (Feasibility, EIA, Design, Tender Dossier, IPA Application Package). The project will be a service contract and under tendering by CFCU (Shortlisting completed). The Project is financed under SEI 2005 Program by EU and has a duration of 14 months.						
12 staint or instruence any 4	Siver	ek Municipality	4): A Line of Operation		Siverek Municipality		
Rational reomporement (2)		[Specify]	Cities donor (pecify)	Fig. 21 (1997) of the second s		
3 300 000 EUR	, -	EUR	E	UR	9 900 000 EUR		
15. Additional Commercial							

Project No : 5	Priority A	wis: 1		Measure No : 1.2				
Project location:		D•YARBAKI	R/D•YARBAKIR					
1 Project name	Diyarbak•r Wastewater Treatment (Biological Treatment Rehabilitation)							
2. Investment value (estimated)	30 200 00	30 200 000 EUR						
3. Description of main project components and/or activities	Upgrade of Wastewater Treatment Plant (WWTP) to Biological System; (Capacity: for 2010 - 903 242 population equivalent, for 2020 - 1 412 615 population equivalent). Peak Stormwater Flow: 383.507 m³/day (2010) BODs load: 67000 kg/day (2010)							
Description of main project objectives and expected results	The main objective is to treat wastewater in order to discharge it in a safe manner according to Turkish and EU standards.							
5 Montrand year of start of project implementation.	2009	6. Month app yearso	C. 1114.	7. Project duration (months) 36				
8. Readiness of basic project documen	tauon							
Document type	Siatus.	Status description.	Completion date	Comment and the second				
Pre-feasibility-study	☑	Completed	1997	WWTP Feasibility Study Final Report, KfW, 1997.				
Feasibility study (with cost-benefit analyses, which includes economic and financial analysis).		None						
EIA study		None						
Tender documents		None						
Other (specify)		None						

Salas o projek design do Ameri	aideiren azen aideirainarren Augusta 200						
Documentation type	SSANSA (ICK SAS)	Settic description (necedificacines) (recomplate)			Somment		
Conceptual design	Ŋ	Completed	1997	In the conte Report, KfW,	ext of WWTP Feasibility Study Final , 1997.		
Préliminaty design	Π.	None					
Main design 2 183 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		None					
Final design		None					
Location Permit		None					
Sunding Permit		None	-				
Other (specify)		None					
Us Description of the and glyne stu	The land is already owned by the municipality.						
11. Describe current projects at the second project p	A Technical Assistance Project covering 15 WWTP Projects will asist to prepare Erzurum WWTP Project for IPA Program (Feasibility, EIA, Design, Tender Dossier, IPA Application Package). The project will be a service contract and under tendering by CFCU (Shortlisting completed). The Project is financed under SEI 2005 Program by EU and has a duration of 14 months.						
Z Name o What Sond Livy	Diyarbak-r-N	Metropolitan Municipality	S Name of Op-	Manager of the second of the s	Diyarbak-r Water and Sewerage Administration		
A Solvenson illustration and the solvenson in the solvens							
balkgual compositions 7 (including mail beneficiary)		I Grechy	3 Softer dopor (s	pecify)	Participation of the second se		
7 550 000 EUR		EUR	E	EUR.	22 650 000 EUR		
15 Addiportal Comments Comment							

Project No : 6	Priority A	xis: 1		V	leasure No.: 1.2		
Project location :		TURHAL/TC	KAT				
1. Project name	Turhal Wa	Turhal Wastewater Treatment Plant Project					
2. Investment value	10 000 00	0 EUR	·				
3. Description of main project components and/or activities	• Constru	Construction of a new Wastewater Treatment Plant (WWTP).					
4. Description of main project objectives and expected results	The main objective of the Project is to contribute to the protection of the Black Sea and to protect the environment and the seaboard. The Project will prevent pollution of Ye•il•rmak River which finally flows into the Black Sea and will reduce discharges in line with Turkish and EU standards.						
5. Month and year of start of project implementation	2009	6. Month and year of project in plemen		2012	7. Project duration (months)	36	
8. Readiness of basic project documen	tation			9 G-14			
Document type	Status I	Status description.	Complete	on date	Comment		
Pro-leasibility study		None		-			
Feasibility study (with cost-benefit analyses which (oclades economic and financial analysis)		None					
EIA STIGUE COMPANY		None		=	-	:	
Tender documents #		None					
Other (specify)		None			<u> </u>		

9/Sianus of project design documen	allon and re			g Armada ji mar Mara da sa			
B Cocumentation (720)	ENTROPE COLDOXIE	Sintis descriptions = (rollerin erogie est the completed)	Sompodukens		Commerce to the second		
Conceptial design (1997)		None					
Preliminary design.		.None					
Kain design 2002 and 1000		None					
Final design		None		-			
Cocation Cernill		· None					
Building Permit 2		None					
		None					
(I) Pacerological constitution of the self-	Land expropriation studies are on-going.						
Describe Company of the Company of t	A Technical Assistance Project covering Turhal and Turhal WWTP Projects will asist to prepare Turhal WWTP Project for IPA Program (Feasibility, EIA, Design, Tender Dossier, IPA Application Package). The project will be a framework contract and under tendering by CFCU. The Project is financed under SEI 2005. Program by EU and has a duration of 12 months.						
12. Name of final densificiary.	Turh	al Municipality	13 Name of Opera		Turhal Municipality		
A Sources of mancing at							
National component This indicate (in a sample any):		(specify)	Other donor (idealy);	Potosou La Parante de La Caracteria de La Caracteria de La Caracteria de L		
2.500 000 EUR	•••	EUR	E	:UR	7 500 000 EUR		
15. Additional Comments							

Project No : 7	Priority	xis: 1		Measure No. 1.2				
Project location :		AKSARAY/	AKSARAY					
1. Project name	Aksaray \	Wastewater Treatment F	Plant and Collector Lin	ne Project				
2. Investment value 2. (estimated)	13 500 00	13 500 000 EUR						
3. Description of main project components and/or activities	First stag	Wastewater Treatment Plant (WWTP) First stage (2020): project population: 189.000 flow rate: Qmax=4160 m³/h Second stage (2035): project population: 295.000 flow rate: Qmax=5796 m³/h Collector Line						
4. Description of main project objectives and expected results.	The main objective is to treat the domestic and industrial wastewater of Aksaray in accord with Turkish and EU Standards and to protect Tuz Lake from pollution thus contributing to human health improvements and environmental protection.							
5. Month and year of start of project implementation	2009	6 Month and year of project implemen		7: Project duration (nonths) 36				
8. Readiness of basic project documen	ation '		The same of the sa					
Document you	Staffis	Status description	Completion date	Comment.				
Pre-feasibility.study	· 23	Completed	2001-2002	Tuz Lake Integrated Environmental Project Feasibility Report, 2001, ASPA. Tuz Lake Integrated Environmental Project WWTP Application Report, 2002, ASPA.				
Feasibility study (with cost-benefit analyses which includes economic and financial analysis)		None						
EIA study		None						
Tender documents	Ø	Completed	2002	Includes General Conditions, Technical Specifications, Bill of Quantities, Unit Prices, Design. The tender documents are in Turkish.				
Other (specify)		None						

9.Slatteronproject design dosumen	Allonard per Allonand per Allonard conta	index condition of the second					
Documentation (Ve.)	tick box	SetuSees a fution (sense interpretes se set completed)	(Samphilibrashira		compent		
Gontophial design		None	-				
Preliminary design 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		None					
Main design		None					
Final design	☑	Completed	2002	- Acc	ording to Turkish Standards.		
Eocation Permit		None					
Building Pagnit		None					
(Other (specify)		None	-				
(personal properties and a properties	The land expropriation process is on-going.						
ILDESCRIBE CUITERT PROJECT STATES	A Technical Assistance Project covering 15 WWTP Projects will asist to prepare Aksaray WWTP Project for IPA Program (Feasibility, EIA, Design, Tender Dossier, IPA Application Package). The project will be a service contract and under tendering by CFCU (Shortlisting completed). The Project is financed under SEI 2005 Program by EU and has a duration of 14 months.						
Control of the Contro	Aksar	ay Municipality	de Maine of Side		Aksaray Municipality		
State of the state							
National comported.	######################################		Oner description				
3 375 500 EUR		EUR	E	EUR	10 125 000 EUR		
16 Additional Comments							

Project No : 8	Priority	Axis: 1		Measure No.: 1.2					
Project location :		CEYHAN ADANA							
11 Project name	Ceyhan \	Wastewater Treatment (Plant,Rainwater Netw	rork and Drinking Water Transmission L	ine Project				
2. Investment value (estimated)	13 150 0	13 150 000 EUR							
3. Description of main project components and/or activities		Construction of a new Wastewater Treatment Plant (WWTP); Construction of Stormwater Network (30 km).							
4. Description of main project objectives and expected results:	tne area, negative	The wastewater is currently discharged to the Ceyhan River without treatment. This adversely affects all the area, including farmers who utilise water from the Ceyhan Basin. The objective is to eliminate these negative impacts, treat the wastewater in accordance with Turkish and EU Standards and prevent the pollution of skenderun Bay, the final receiving body of the Ceyhan River.							
5. Month and year of start of project implementation	2009	6. Month and year o		7. Project duration (months)	36				
8. Readiness of basic project documen	本的 flow ! tation ! ²								
2 Carlocurien types :	Sinhus	Status description	Completion date.	Comment's					
Pre-basibility study		None							
Feasibiliny study, (with cost-benefit analyses which includes economic and lipancial analysis).		None							
EIA study		None							
Tenderdocuments		None							
Other (specify)		None							

9. Status of project design document	atlon and rer				
Documentation type :	Surjust (ICK 65X)	Stains description (neine/in produess) (completer)	Completed Call		Commun
Conceptual design .		None			TO MANY INSTITUTE OF THE ANGEL STATE CONTRACT AND S
Broimhnais ad Sight		None			
Malinde John State Commence		None			
Emal design		None			
Location Paritits		None			
Building Permit Street Special		None			
Char specifys.		None			
70 pascamplion of the unid ownings in		Land expropriation stu	dies are not completed y	/et.	
s gurpas renisaketi mata spiral pisa certis.				_	
E Name of inal tenerically a	Ceyt	nan Municipality	City Name of Operator		Ceyhan Municipality
A Sancara Allendra					
(including final beginning)		Rytepachy)	Other donor (Spe	elly) (file) Free file	Property Commence
3 287 500 EUR		EUR	EUI	R	9 862 500 EUR
SAdditional Comments					

Project No.: 9	Priority /	ws 1		Measure No.: 1.2					
Project location :		BANDIRMA	BANDIRMA						
1. Project name:	Band-rma Wastewater Treatment Plant and Stormwater Network Project								
2. Investment value :	11 150 000 EUR								
3. Description of main project components and/or activities	(Capaci	 Construction of a new Wastewater Treatment Plant (WWTP), (Capacity: for 2000 - 26.238 m³/day; for 2021 - 43.737 m³/day; for 2036 - 69.019 m³/day). Construction of Collector Line. 							
4: Description of main project. objectives and expected results	The objective is to discharge wastewater into the Marmara Sea according to Turkish and EU Standards and hence prevent the further pollution of the Marmara Sea and consequential damage to the floral and fauna species.								
5. Month and year of start of project implementation	2009	6. Month and year of project implamen		7. Project duration (months)	36				
8. Readiness of basic protect documen	iation								
Document up a first to the second sec	Status	Status description	Completion date	Comment.					
Pie easibility study	☑-	Completed	2001						
Feasibility_study_(with cost benefit analyses which includes economic and financial analysis)		None	; ;						
EIA study		None	-						
Tender documents		None							
Other (specify)		None		-					

9. Status of project design document	មិន ខ្លាំង ខ្ញាំង ខ្ញា				
Ciscementation type	GEROSA)	Status rescription (noreling regress) (complined)	Composition (cales)		Zeolniulani
Conceptual design	- 🗆	None			
Preliminary design		None			
Main design	☑	Completed	2000	In the conto	ext of Band•rma WWTP Feasibility
Final design #		None			
Location Permit Management		None			
Bulldioc Permit		None			
Other (specify)		None			
(OPDESCRIPTION OF HER STORY WINDESTIN		Land expropriation stu	dies are on-going.		
11 Describe charatenojan Caus					
FZ Name of this keep (Car)	Band•	ma Municipality	3 Name of Opera	(or	Band-ma Municipality
Al in presentation of a second of the control of th			Other de hor de		
2 787 500 EUR		EUR	£	:UR	8 362 500 EUR
15. Adelgos Communication					

Project No : 10	Priority Axis: 1			Measure No.: 1.2				
Project location :	TÜRGÜTLU/MÄNSA							
1. Project name	Turgutlu Wastewater Treatment Plant Project							
2. Investment value	10 000 00	10 000 000 EUR						
3. Description of main project components and/or activities 4. Components and/or activities	• Constru	Construction of a new Wastewater Treatment Plant (WWTP).						
4. Description of main project objectives and expected results.	The object	ctive is to reduce the pollenvironment.	lution level to accept	ed Turkish and EU standards and to cr	eate a safer,			
5. Month and year of start of project implementation.	2009-	6. Month and year of project implemen		7: Project duration (months)	36			
8. Readiness of basic project documen	ation -							
Document type	Status	Status description	Completion date	Comment				
Pre-reasibility study.		None						
Feasibility study (with cost-benefit analyses; which triclides sconomic and financial analysis).		None						
EIA study		None						
Tender döcuments		None						
Other (specify)		None						

9 Saus of project design do-unen	erion and bei	mis programme and the second		14 (18 18 18 18 18 18 18 18 18 18 18 18 18 1	
Documentation type:	F Status (ick fox)	composed:	Composition date:		essamen -
Conceptual (design)		None	Control of the Contro		
Preiminac (design **)		None			
Maindesign 1998		None			
Financies (m. 1		None		· · · · · · · · · · · · · · · · · · ·	
Eccation Permit					
Building Parmits 22 12 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	. 🗆	None	,		
Other Specity (4)		None			
10 Désemble of the laird owners no					
Streen and tenminately one limbs					
To Balling of the Respection of the Control of the	Turgu	itu Municipality	A dame of Operator		Turgutlu Municipality
314 (SQUEST OF HISTORY) (1974)					
So National Component (excluding that beginning)		(Specify)	Other doner (spec		Roposto (Pagrajo (Pag
2 500 000 EUR		EUR	EUR		7 590 000 EUR
15 Abditional Comments 1					

Project No : 11	Priority A	ws: 1			feasure No. : 1.2					
Project location :		AYDIN AYD	in							
1. Project pame	Ayd•n We	Ayd។n West Wastewater Treatment Plant Project								
2. Investment value # # ### ### - (estimated)	14 850 00	14 850 000 EUR								
3. Description of main project components and/or activities		Construction of a new Wastewater Treatment Plant (WWTP); Construction of Collector Line.								
4. Description of main projects objectives and expected results.	The main objective is to protect the bio-diversity in the aquatic environment, prevent eutrophication, increase productivity of fields irrigated by the river which impacts negatively on the people who consume vegetables irrigated with the wastewater. The wastewater is discharged to the Büyük Menderes River which flows into the Aegean Sea on the borders of Dilek Peninsula National Park. This region is a highly sensitive area where fish spawn and migratory birds visit. Hence, the project will also protect the ecosystem in the region as well as protect the environment.									
5. Month and year of start of project implementation	2009	6. Month and year of		012	7. Project duration (months)	36				
8. Readiness of basic project documen	tation	Harris Carlos Ca	Suggested by Englished 1982 Suggested 1982							
Document your	-Status,	Status description	Completion	date	Commence Commence					
Pre-feasibility study		None		:						
Feasibility, study (with cost-benefit analyses, which, includes economic and financial analysis).		None	•							
EIA study - San		None								
Tender documents		None								
Other (specify)		None								

'9 Status of project design doctmen	anon and pe	mich 28			
Focumentation type	espansa Opisesa	Signes defectoron "(regionis bediesa) "Gonplated)	Sompskein take		Confinents
Conceptual design		None	•		
Preliminary design		None			
Maindesign Ton Control of the Contro		None			
Final design		None			
Location Permits		None			
Building Parmit		None			
foling (specify)		None			
Plotoscopinias pellito ogracini		Land expropriation stu	dies are on-going.		
ar je Peschiba culzentejholatesteko.					
12 Name of the Benefit letter	Ayd	n Municipality	Curb Edward Comments Mass Namero Edward Mass Comments Comments	itor 1966 Till Hall Sta	Ayd-nMunicipality
A/Sources of financing in the second					
Mattonal components (including fraction of stary)		(lapecity)	constant		E ALZONOSIO E S
3 712 500 EUR		EUR	E	EUR	11 137 500 EUR
(5" Additional Commence					

Project No : 12	Priorfty A	xls : 1		Measure No.: 1.2					
Project location:		ORDU/ ORDI							
1. Project name	- Ordu Was	- Ordu Wastewater Treatment Plant Project							
2. Investment Value (estimated)	. 11 500 00	0 EUR							
3. Description of main project components and/or activities	• Constru	Construction of a new Wastewater Treatment Plant (WWTP).							
4. Description of main project objectives and expected results	3	The main objective of the Project is to contribute to protecting the Black Sea and to protect the environment and the seaboard. The Project will reduce the discharges in compliance with Turkish and EU standards.							
5 Month and year of start of project implementation.	2009	6. Month and year of a project implement		7.Project duration (months)	3 6				
8. Readiness of basic project documen	iation	verale in Internation (n skolet i vijek i Silonija						
Document type.	Status	Slatus description	Completion date	Comment	The Spinish of Line				
Pre-feasibility study	Ø	Completed	1995	WWTP Application Project, •fler Ban	k, 1995.				
Eeasibility study (with cost-benefit analyses which includes economic and mancial analysis)		None							
EIA study and the study of the		None							
Tandar documents		None							
Other (Specify)		None	.						

· Passerva a servensi and market and the servense and the						
9. Status of project design documen	atopana per					
A Documentation type at the state of the sta	(to; box)	Status description (ronem-progresse #1 completed)	Gomaletom date.		នៃ >≶ទី៣៣ភូកិ	
Conceptial design		None	-			
Prekininary dosigna i		None				
Wan design and the second seco	. 🗆	None				
Éinaldéisigh agus agus agus agus agus agus agus agus	- 🗆	None				
Location Permit		. None				
Bulging Permit		None				
		None				
10 Description of the land own as in	Same	Land is already owned	by the Municipality.			
Land Control of the C	-WWTP Proje project will be	Assistance Project cover for IPA Program (Fee a framework contract U and has a duration of	asibility, EIA, Desigrand under tendering.	, Tender Do	ssier, IPA Applicat	tion Package). The
12 Name of included and large to the	Ordu	ı Municipality	13 Hame of Opera	ing All about long to the	Ordu M	lunicipality
14 Souces of financing						
National comparence		(Specify)	Office closes &	pecity)		
2 875 000 EUR		EUR	E	UR	8 625	000 EUR
15: Additional Comments						

Project No : 1	Priority A	xis 2		Measure No.	. 2.1				
Project location :		KAYSER ^a K	AYSER•						
1. Project namer	Kayseri Integrated Solid Waste Management Project								
2. Investment value	30 387 500 EUR								
	Construction of a sanitary landfill (Amount of solid waste: 2005 - 273 428 tonnes/year, 2010:2025 - 7 841 071 tonnes/year),								
	• Establis	hment of a gas utilizatio	n and energy reco	very unit;					
Description of main project components and/or activities	• Establis	thing of a pilot composting	ng plant with a cap	acity of 40.000	tonnes per year.				
The second secon	• Establis	hment of 16 civic ameni	ty centers;						
		hment of 2 Transfer Sta		al Recovery Fa	icilities (MRF);				
grande and the second s	Rehabilitation of Molu Dump Site; Technical Assistance.								
enter the same of	· 1 CCIIIII	Lai Assistance.	 						
4 Description of main project objectives and expected results	achieve a purpose of Metropolist environme of ground the requirements of	high level of environme of this project is to esta an Municipality, in acc ental pollution and increa- water, soil and air cause ed levels and to increas	ental protection and ablish a solid was cordance with the asing re-use and re- ed by current duminate the recycling of ables and CACs of	d compliance water management. Turkish Legisecycling of solidosites, the volume packaging was project compe	key's accession by enal- ith the EU waste sector it system within the bord lation and the EU Acc waste. The Project will rate of bio-degradable wastes from the very start of ponents. This increase w	Directives. The ders of Kayseri quis, to reduce reduce pollution aste landfilled to f the project by			
5. Month and year of start of project.	2008	6 Month and Verror project implement	12 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7. Project	duration (months)	36			
8. Readiness of basic project documents	nation		endade e la compa						
TO/Coment type.	Sanis	Status description	Completi	in date	Comme				
Pre-feesibility skidy		None							
Feasibility study (with cost-benefit aralyses which includes aconomic and financial analysis)	Ø	Completed	Juno	∍, 2007					
EIA study	Ø	Completed	Novembe	r, 2006					

Tender documents		None		
Other/(specify)		None		
e. Selius organijae qashin qobuman				
Documentation type	Status - (tidiction)	Listelus diecripitore (none/in prodress/a completed)	Completion date	L Zomion
Conceptual design 35.2	⊿ .	Completed	June, 2007	
Proliminary design)	Ø	Completed	June, 2007	
Main design		None		
Final design 2	Ø	Completed	June, 2007	In the context of the Feasibility Study.
(Cocation Permit)		None		
Building Permits		None		
Other (specify)		None		
10. Description of the land diviners in	status	Land is already owned	by the municipality.	
To laborate the second	IPA Applicat		ect is a framework contract and g	IPA Program (Feasibility, EIA, Design, oing on The Project is financed under
12: Nambiolofinal peneticible	Kayseri Me	tropolitan Municipality	13; Name of Goerator	Kayseri Metropolitan Municipality
U.Solidarof financia				
i i i i i i i i i i i i i i i i i i i			Cree olone (specify)	
7 646 875 EUR		EUR	EUR	22 940 625 EUR
15. Additional Comments				

Project No: 2	Priority A	xis: 2		.Measure No.	2.1			
Project location :		ÇORUM/ÇO	RUM					
1: Project name	Çorum Int	Çorum Integrated Solid Waste Management Project						
2. (nyestment value (estimated)	21 815 497 EUR							
	• Constru	uction of 4 transfer statio	ns;	m) with leachate	e and landfill gas management system;			
3. Description of main project		uction of leachate pre-tre uction of 5 banks and up	-	ic amenity centr	es in Conum			
components and/or activ/ties		udy for separation at sou						
The state of the s	• Pilot co	emposting plant with a ca	pacity of 5 000 tor	nnes input/year,	(full capacity in 2015)			
	• Rehabi	Rehabilitation and closure of 14 existing dump sites (Both minor and major scale rehabilitations).						
4. Description of main project: objectives and expected results.	The overall objective of the SWM project is to accelerate Turkey's accession by enabling Turkey to achieve a high level of environmental protection and compliance with the EU waste sector Directives. Establishment of a solid waste management system for Çorum municipality in accordance with Turkish Legislation and the EU Acquis, will reduce the pollution of groundwater and environment in Çorum municipality and increase reuse and recycling.							
5 Month and year of start of project implementation	2008	62 Month and year of project limplement		7 Project	furation (months) 36			
8 Readiness of basic project docume	ntation							
Pocumentype	H () () () Status	Sint is description.	PARTIE TO THE PARTIE OF THE PA	an an early on date	of Conment Constitution			
Pra-feasibility study 💥		None						
Feasibility Study (with cost-benefit analyses which includes economic and financial analysis)		in progress	2007					
EIA study		Completed	June, 2	2007	Completed including Public Participation			
Tender documents	Ø	In progress		2007				
Other (specify)	Ø	in progress		2007	Design Works Drawings			

9. Status of project design documen	្រាំ ទៅលើសភាស្តី ១១	mile and the		
Documentation (April 1997)	Same (iiCkbox)	Status description (norelin progress) (Legin placed)	Completionalite	Commence
Conception design	Ø	Completed	April, 2007	
Freiminary designate as a		None		
Main design		None	-	
Final cesion (* 15 per	Ø	In progress	October, 2007	Subject to TA Consultant Development
Location Permit of Silver Co.	. 🗹	In progress	Expected in January, 2008.	Prior Construction Start
Building Pennils	Ŋ	In progress	Expected in January, 2008	Prior Construction Start
Cirler (specify) 17.3		None		
(0.00 asculption of the and over trans	Statis 2	Land is already owned	by the municipality.	
The child direct property and the		on Package). The proje		IPA Program (Feasibility, EIA, Design, ping on. The Project is financed under
A PARTIE OF FRANCE AND ARREST OF THE PARTIES OF THE	Çorum Mı	unicipalities' Union	iis Trant rozona nos	Çorum Municipalities Union
ja Passarias spilarijais Passarias spilarijais				
			Figure 1980 Conclusion	Epondous 3
5 453 874 EUR		EUR	EUR	16 361 623 EUR
15. Addition of Company of State of Sta				

Project No: 3	Priority Axis: 2	Measure No.: 2.1					
Project location :	KONYA/KONYA						
1. Project name 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Konya Integrated Solid Waste Management Project						
2. Investment value (estimated)	22 936 200 EUR						
	Establishment of a sanitary landfill;						
The state of the s	Establishment of a leachate pre-treatment plant;						
	Establishment of a gas utilization unit;						
Description of main project components and/or activities	Establishing of a pilot composting plant;						
	Establishment of 16 civic amenity centers;						
A TAS ME WAS ASSESSED TO BE	Establishment of 3 Transfer Stations and 3 Mater						
	 Rehabilitation of 22 Existing Dump Sites; (1 Major 	r scale and 21 minor scale rehabilitation)					
And the second s	Technical Assistance.						
	The overall aim of THA Konya SWM Project is to accelerate Turkey's accession by enabling Turkey to achieve a high level of environmental protection and compliance with the EU waste sector Directives. The purpose of this project is to establish a solid waste management system within the borders of Konya Metropolitan Municipality, in accordance with Turkish Legislation and the EU Acquis, with a view to reducing environmental pollution and increasing reuse and recycling of solid waste:						
	The results of the project will be as follows:						
A STATE OF THE STATE OF T	Pollution of groundwater, soil and air caused by	current dumpsites will be reduced;					
Description of main project; objectives and expected results	Health risk and negative amenity effects such from current dump sites will be reduced;	as bad odour, insects, rodents, fires, scattered wastes					
	The volume of bio-degradable waste landfilled was specified for Turkey;	vill be reduced to the levels required by the-EU directives					
	 Recycling of packaging wastes will be increased from the very start of the project by means of bring banks for recyclables and CACs. + project components. This increase will contribute to Turkey meeting the objectives of the EU directives, in particularly the packaging waste directive 						
	The unhealthy and unhygienic working cond incorporating them into the operation of a regula	itions of the street-scavengers will be improved by ated system.					
5. Month and year of start of project implementation	2008 Fi. Montb and year of end of project implementation 201	1 7. Project duration (months) 36					

8 Readiness of pasic project docum	leniallonia alena			
Document sype	Siacus	ទាន់មេន ចំនះមក្សាប៊ីក្រ	onpetin die	SomuGale and a
Pre-leasibility study		None		
Fossibility, study (with costebut a sharyses willon includes economic and drawbial analysis)	a o	In progress	Expected in October, 2007	
EA suby	<u> 7</u>	Completed	September, 2007	
Tender documents 1.		None		
Other (Specify)		None		
9. Status of project design documen	lation and per	mits.		
	Salar	A Status descriptions		
Documentalion traffic and the second	ruckio) suckio)	inone/la progress/f — completed)		
Concentrat nesign		None		
Redningry design		None		
			1	
Maindesign). Ball Salar		None		
Maintreegn	<u>a</u>	None In Progress	Expected in October, 2007	In the context of the Feasibility Study.
The second second second second			Expected in October, 2007	In the context of the Feasibility Study.
Final design Location Fermite All and the second	Ø	In Progress	Expected in October, 2007	In the context of the Feasibility Study.
Final design	Ø	In Progress None	Expected in October, 2007	In the context of the Feasibility Study.
Final design Location Fermite All and the second		In Progress None None	Expected in October, 2007 dies are completed from Treasury.	
Final design Control of the Control	atatos. A Technical A	In Progress None None None Land expropriation studies assistance is assisting to on Package). The project	dies are completed from Treasury.	

14. Sources of financing: 12.1 #1.1 5	CARL CONTRACTOR CONTRACTOR		
** National component, ************************************	IFr (specify)	Other donor (specify)	Proposed I
5 734 050 EUR	EUR	EUR	17 202 150 EUR
15. Additional Comments			

Project No : 4	Priority /	Axis: 2		Measure No					
Project.location:		BALIKES-R.	/BALIKES®						
Ye Project name of the second	Bal•kesir	Integrated Solid Waste	Management Projec	#					
2 Investment Value	14 224 000 EUR								
	• Constru	Construction of Central Sanitary Landfill;							
		shment of Leachate Tre							
3. Description of malipproject	Establis	shment of Landfill Gas C	ollection and Incine	ratioл System					
components and/or activities		l Waste Sterilization Un	•						
Carlo Car		entation of 6 Civic Ame	-						
	-	entation of Pilot Compo			:/year);				
		and rehabilitation of 7		s in operation;					
	Consulting and Engineering (TA).								
As Lescaphon of risulton less. Objectives and expected results.	The overall aim of the Project is to accelerate Turkey's accession by enabling Turkey to achieve a high level of environmental protection in compliance with the EU waste sector Directives. The purpose of this project is to reduce the pollution of groundwater and protect the environment in Bal-kesir and surrounding villages and increase reuse and recycling by establishing a solid waste management system for Bal-kesir, Susurluk, Sava• tepe, •vrindi, Bigadiç, Kepsut, Pamukçu municipalities in accordance with EC and Turkey's legislation. It will reduce the pollution of groundwater, soil and air caused by current dumpsites; reduce health risk and negative amenity affects such as bad odours, insects, rodents, fires, scattered wastes from current dump sites and to decrease the volume of bio-degradable waste land filled from the current high level to the levels required by the EU directives as specified for Turkey in the DSIP and to increase recycling of packaging wastes by means of bring banks and recycling centres. This increase will represent an important contribution towards meeting the objectives of the EU directives, in particular, in regard to packaging waste.								
SC Month and year of this of police? — mydernamation are se	2008	, 6) Monuisastyen, c a projektynopien	2011	7. Proje	eveluation (montre).	36			
8. Roadiness of transcriptories (document		Call - Interior and Amel 1490 Carolina - Interior at 1880			ninterficiel (2) terromonia en Le combaña (1) terromonia (2) terro				
						i de la companya de			
The Continue of the Continue o	SEME	Samstell final	Campail Campail						
Pre-easibility study +		None							
Feasibility study (with cost-benefit analyses which includes economic and financial analysis)	Ø	In progress	November,	2007					

ElA study	Ø	In progress	November, 2007	
Tender documents		None		
Other (specify)		None		
9. Status of project design document	alion and per	mits property of the control of the		
District the second seco	Status (tick box)	Status description (nohe/in progress/ completed)	Completion date	guar de la companya de porto de la companya de la c
Conceptual design	Ø	In progress	2007	In the context of the Feasibility Study
Preliminary design		None		
Main design		None		
Final design	Ø	In progress	2007	In the context of the Feasibility Study
Location Permit	Ø	In progress	Expected in January, 2008	Prior Construction Start
Building Permit	Ø	In progress	Expected in January, 2008	Prior Construction Start
Other (specify)		None		
10. Description of the land ownership	slans	Land is already owned	I by the municipality.	
11. Describe current project status.	Design, IPA	-		ect for IPA Program (Feasibility, EIA, t and going on. The Project is financed
12. Name of final beneficiary a	(Union of Bal - kesir, S	BACEYÖB f the municipalities: Susurluk, Sava•tepe, fiç, Kepsut, Pamukçu)	13. Name of Operator	Bal-kesir Municipality
14. Sources of financing (4.2.19)				
National Component (Including final beneficiary)		(Specify)	Other dopor (specify)	PA gart
3 556 000 EUR	•••	EUR	EUR	10 668 000 EUR
15: Adoltional Comments				

Project No : 5.	Priority A	xis		Measure No.	2.1			
Project location :		ĀRTV -N -	R∙ZE					
All Projection and Section 1985 and All Projection and Section 1985 and Sectin 1985 and Section 1985 and Section 1985 and Section 1985 and Sec	Artvin-Riz	e Integrated Solid Wast	e Management Pro	ect				
2) sleveringer (V) best (2) Le (actinizad)	14 500 00	14 500 000 EUR						
		ction of a sanitary landf						
3. Description of main project.		hment of a gas utilization	•					
components and/or activities		hment of 2 Transfer Sta		Recovery Fac	cility;			
	• Establis	hing of a pilot composti	ng plant					
	Rehabil	itation of Existing Dump	Sites.					
C Description of main projects Objectives and expected results	level of er solid wast and the El	The overall aim of the Project is to accelerate Turkey's accession by enabling Turkey to achieve a high level of environmental protection and compliance with the EU waste sector Directives. Establishment of a solid waste management system for Artvin and Rize provinces in accordance with the Turkish Legislation and the EU Acquis, will reduce the pollution of groundwater and environment in the region of municipalities union and increase recycling and reuse.						
5) Month and year of start of project	2008	6 Month and vear of project simplement makes regimes as	7/17		destre locale (provide)	36		
8. Readinese of tiese project document		andre de la companya				and the second		
Do unjeja type	Slalis	Status description	Completio	A part of the same	en plante			
Pie fesikiliy kiliy	Ø	Completed			Completed before the framework contract.	award of this		
(acutionic stray (Citio sees Subsection) Action/August of Strategical sees at a temper (Stray (City Stray))	☑	In progress		2007				
	Q	In progress	November	2007				
(South documents)		None						
Oliter (specify)		None						

9. Status of project design doctimen	ation and pe	mits 4 - 10 %					
Documentation type (1)	Status (tick box)	Status description (none/in progress/ , completed);	Completion date	Lips the space of			
Conceptual design		None					
Preliminary design	☑	In progress	2007	In the context of Feasibility study			
Main design	Ø	In progress		In the context of Feasibility study			
Final design	Ø	In progress		In the context of Feasibility study			
Location Permittee Programme Control Permittee		None					
Building Permit (4) (2) (3)		None					
Other (specify)	· 🗹	In progress	October 2007	1/1000 scaled map			
10. Description of the land ownership	stattel at a	Land expropriation stu	dies are on-going.				
11. Describe current project status	A Technical Assistance is asisting to prepare Artvin-Rize SWM Project for IPA Program (Feasibility, EIA, Design, IPA Application Package). The project is a framework contract and going on. The Project is financed under SEI 2004 Program by EU.						
12. Name of final beneficiary	ARRIKAB (Municipalities Union)	13 Name of Operator	ARRIKAB (Municipalities Union)			
14 Sources of financing							
National components pa (including final beneficiary)		i (specify)	Other dorion (specify)	PA grapt			
3 625 000 EUR	·	EUR	EUR	10 875 000 EUR			
15. Additional Comments							

Project No : 6	Priority A	xis:2		Measi	ıre No. :	2.1		
Project location :		HARMANDA	LV-ZM-R					
1 Project rames 12 Sec. 10	•zmir - Hai	rmandal• Integrated Sol	id Waste Manaç	gement - Ca	apacity Inc	rease and R	ehabilitatio	n Project
2. Investment value Trail Property Communication Property 10 850 00	10 850 000 EUR							
3: Description of main project composeries applor approprie	• Increasi	ng the capacity of the e	xisting landfill (1	140 ha addit	ional area)		
4. Description of main project objectives and expected results.	sustainabi solid wast	The main objective is to set up an integrated solid waste management regime which will provide sustainable utilization of landfill site by extending the lifetime of the landfill and provide safe disposal of the solid wastes of ezmir Metropolitan Municipality in compliance with the Turkish and EU standards and therefore to prevent negative impacts on environment.						
5. Month and year of start of project in implementation —	2009	6 Montrang year o project implaner		2012 7	e de la composition della comp	ilirabon (mi		36
8: Readings: Of DASIC project document	ation 2							
Document type	23 616	Sing destriction	Compl	ម៉ាហ៊ែរ ៤ភាម				
Pra-reasibility story		None						
Bagsiblin/, sign/s (viju) sv. sv. gagenië amblystea perikolomisindes secondrits and historial (convage)		"None						
ETA GOOD DESCRIPTION OF THE PARTY OF THE PAR		None	:					
Pendordo-amento de la		None						
Other (specify) was a second s	Ø	- Completed	1/25000	scaled map	'			

9. Status of project design document	ation and ber	inis a security		
Documentation type	Status (tick box)	Status description (norie/in progress), completed)	* Completion date 1	Comment
Conceptual design		None		
Preliminary design		None		
Main design		None		
Final design (A. 1997)		None		
Location Permits		None		
Building Parmit		None		
Other (specify)		None		
10 Description of the land ownershi	status	, Land expropriation stu	rdies are on-going.	
11. Describe current project status				
12 Name of final benefiting	zmir Metr	opolitan Municipality	13 Name of Operator	∗zmir Metropolitan Municipality
14. Sources of financing				
National computers (including final beneficiary)		Fi (specify)	Otterdono (specify)	Proposed 1874 grants
. 2 712 500 EUR		EUR	EUR	8 137 500 EUR
15. Additional Comments	-			

Project No: 7	Priority /	Axis: 2		Measure No	2.1	
Project location:		VAN VAN				
1. Project Camera Transfer Services	Van Integ	rated Solid Waste Man	agement Project		en i de la descripció de la companya de la company	, Kallahang Japa
2. investment value of the second sec	20 600 00	00 EUR				
				vaste amount	2017 - 209.858 ton/year, 2027 - 282.031 ton/year, 2037 - 379.027 ton/year),	· ·
3) Description of main project. Components and/okactivities	Ł	hment of a Medical Wa hment of a Landfill Gas		nation libit		
	i	hment of a Waste Batte		naton Ont,		•
1 Carried State of Carr	Rehabili	itation of existing dumps	site.			
4. Description of main projects Objectives and expected results	environme through e negative	ental sustainability in th ducat io nal activities, rec	e region. The Project duce pollution loads I dumpsite on the I	t will increase and hence pr	posal of solid wastes and to public awareness on the en- rotect natural sources in eliminal of the environment and to re	vironment
5. Month and year of start of projects implementation?	2009	66 Monthartu yon c arproject mplemer	3 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	7 Proje	deader (nonte)	36
8. Reddinese of basicip oles (dostine)	ending.					
Bosson en syntage		Signie des signicia	Market Semilarion		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
programbility study	✓	Completed	2006		Design Works and drawings according to Turkish standar	ds.
Hees bility such (will coelese refit auxiyes when (helpies economic and financial analysis)		In progress	2007			
FIA study	Ø	Completed	2005			
ender documents,		None				
Other (specify)		None				

		e Zagara na nasana kabupat	Capatral and Established	
9. Status of project design document	ation and per			
Documentation type	Status	Status descriptional (none/in progress)	Completion date	comments
	(tick box)	completed).= 4		ATTEMPT OF THE PROPERTY OF
Conceptual design		None		
Preliminary design		None		
Main design		None		
Final design structures	Ø	Completed	2006	In the context of Aplication Project, 2006.
Location Permit		None -		
Building Permit		None		
Other (specify).		None		
10 Description of the Land ownership	status (is owned by the Minist	is owned by individuals, other pa ry of Agriculture and Rural Affairs. an Municipality. Allocation procedu	rts are public domain and access area Part that was owned by the individuals are is going on for the rest.
11 Describe current project status				
12. Name of final beneficiary.	Van and n	earby Municipalities	13 Name of Operator	Van-and nearby Municipalities
14. Sources of financing	Totalia promo Prisalia promo Prisalia Pris Prisalia			
National component (including final beneficiary)		FI (specify)	Other dopor (specify)	Proposed:
5 150 000 EUR	-	EUR	EUR	15 450 000 EUR
15. Additional Comments				

Project No : 8	Priority A	\xis . 2		Measure No	2.		
Project location:		BATMAN/B	ATMAN				
1) Project name 2.25 cm of the second	Batman Integrated Solid Waste Management Project						
2. Investment value.	18 000 000 EUR						
	• Constru	uction of Sanitary Landfi	ill (Amount of solid v	vaste (anπual d	cumulative values):		
3. Description of main project second components and/of-activities.				201	05 - 70 000 tonnes; 15 - 934 500 tonnes; 26 - 2 907 000 tonne		
Components artifacts activities		pment of Recycling Acti				9),	
	Rehabilitation & Capacity Building on Waste Collection and Storage.						
4. Description in all projects, if a chipachical state of specified results.	The main harm caus	objective is to set up sed by solid wastes and	a integrated solid-rec	waste manage ycle the waste	ement regime to pre s, leading to their sa	vent environmental fe disposal.	
Se Monthand year of start of project - proper parties.	2009	6 Month and year o		7. Proje	- Chiador (gonde - Chiador (gonde	36	
Birksanines Storoas, project (comen							
The state of the s	ASTANTAS Maria de las	STATUS (CASE OF COLUMN)	e completo	Gale 1789 Secondos			
Presectionly Supply	Ŋ	Completed	2003			And the second s	
All resino (100) and participated and residence (100) and participated and residence (100) and residence (None					
EA STORY TO THE STORY OF THE ST	Ø .	Completed	2003	_			
Tender documents		None					
Other (specify)	Ø	Completed	2002		Geotechn	ical study.	

		Avert St.		THE STATE OF THE PROPERTY OF THE STATE OF
9, Status of project design document	attorisind per	mits and a series of the		Capper (Line) and an experience of the court
Documentation type	Status .	Status description (none/in progress/s	Completion date	Comment
	(tick box)	completed) = 1		
Conceptual design in the state of the state		None		
Preliminary design		None	-	
Main design		None		
Final design	☑ :	Completed	2003	Done by GAP Administration in the context of Application Project according to Turkish Standards.
Location Permit with the state of the state		None		
Building Permit		None		
Other (specify)		None		
10 Description of the land ownershi	status Mathiela	Land expropriation stu	dies are completed.	,
11. Describe current project status				
12. Name of Jirral beneficiary	Batm	an Municipalitiy	13. Name of Operator.	Batman Municipality
14. Sources of financing.		10 2 4779 1710		
National component (including final beneficiary)	To an and a second	(specify)	Other donor (specify)	Proposed III
4 000 000 EUR	···	EUR	EUR	14 000 000 EUR
15 Additional Comments				

Project No : 9	Priority A	xis . 2		Me	asure No.	2.1			
Project location :		MALATYA) I	VALATYA :						
- projectomest project set	Malatya Integrated Solid Waste Management Project								
z finestitem value sara same pe ecumated) esserting a sara	23 000 00	23 000 000 EUR							
3 Description of main projects: * components and or activities.		Construction of a Sanitary Landfill; Recycling of solid waste.							
4: Description of main project dible types and expected results	The main objective is to set up an integrated solid waste management regime. It will provide sustainable utilisation of the landfill site by extending its lifetime and provide safe disposal of the solid wastes of Malatya Municipality in compliance with the Turkish and EU standards and will prevent further negative impacts on the environment.							wastes of	
5. Month and year of start of project.	2009	6 Month ind vear of the control of t		2012	7. Proje	en som en et Galijalionerion English		36	
8. Reddiness of Gasic project (documen			is the gradient of the state of						
					19 (19) 19 (19)		e initerior		
Předování Manová (Předována 1981) V předování předována se předována s		None	<u>.</u>		·				
Esta (Salar esta esta esta esta partido de la Arsacción de del distribución de del ductus de del del del propertido del del ductus de del del del del del del del del del	. 🗆	None							
ercas documenta as		None	-						
Tender documents and the		None							
Other (Specify)		None		•				-	

9. Status of project design documentation and permits							
Documentation type	Status (tick box)	Status description (nonelin progressi) completed)	Gompletion date:	Comment Comment			
Conceptual design		None					
Preliminar y design en design en design		None					
Main design		None					
Final design (2007)		None					
Location Permit		None					
Building Permit		None					
Other (specify)		None	:				
To Description of the land ownershi	p status	Land expropriation stu	dies are on-going.				
11. Describe current project status							
12. Name of final beneficiary	Malat	ya Municipalitiy	13 Name of Operator	Malatya Municipality			
14 Sources of Tinancing							
National component (including final beneficiary)		Copecity 2	Other donor (specify)	Proposed PA grant			
5 750 000 EUR		EUR	EUR	17 250 000 EUR			
15. Additional Comments		site for the project is own municipality is going on.		estry. Procedure required for allocation			
en e e e e e e e e e e e e e e e e e e	On the other hand, establishment of union of municipalities are planning by participation of 12 municipalities.						

Project No : 10	Priority A	xis: 2		Measure No	: 2.1			
Project location :		ERE• L√KO	NYA					
1. Project name:	Ere• li Inte	egrated Solid Waste Mar	nagement Project	-				
2. Investment value	10 000 00	10 000 000 EUR						
3) Dascription of main projections components and a activities		Construction of a sanitary landfill; Installation of proper collection and transfer system for solid waste.						
4. Description of main projection objectives and expected results the second results are second results.		The main objective is to set up a integrated solid waste management regime to provide safe disposal of the solid wastes and thus protect the environment.						
5. Month and year of stark of project. implementation	2008	o Month and year o		1 7. Proje	ect duration (months)	36		
B Recolosis yorbis properties								
	rs, araby	Sanstessible)	Semilari		Figure 1	un — 17 — 19		
Producestici) in central and a supplier of the central and a suppl	☑	Completed						
(2004) ili Santy (Charles et Estata 1905) ili Santy (Charles et Estata 1905) [2015] family (D. 2	. I	- On-going	End of 2	007				
Promoter 1	Ø	Completed	2	004	-			
Terrae documents		None	-		-			
ober aperty	Ø	Completed			1/25 000 scaled	map		

9: Status of project design documen	ation and per	mits 12 - 2 - 10 - 10 - 10 - 10 - 10 - 10 -			
Documentation type	Status (fick box)	Status description (nonellin progress/ completed): **	Completion date	. Comment	
Conceptual design			man in a second	-	
Preliminary design					
Main design					
Final design		-			
Location Permit					
Bullding Permit					
Other (specify)					
10. Description of the land ownershi	status	 Regional Developme preparation of an EU and Tender Dossier). 	ent Program (EU Financial-Progra infrastructure project for each Stat	2 and TRB1 Statistical Region Level II amme 2004).This TA Project includes istical Region Level II (Feasibility, EIA by the end of November 2007. The	
11 Describe current project status	-				
12. Name of final beneficiary	Ere•	li Municipalitiy	13 Name of Operator,	Ere• li Municipality	
14. Sources of financing					
National component (including final baneficiary)		(specify)	Other donor (specify)	Proposed 1	
2 500 000 EUR		EUR	EUR	7 500 000 EUR	
15: Additional Commertis	A regional waste management system was proposed for the municipalities of Ere-Ii and Halkap-nar-by Provincial Directorate of Environment and Forest of Konya. However, there isn't any established municipalities' union at the present time.				

Annex 5: Map of major environmental infrastructure projects under the EOP, 2007 -2009

