



**SCREENING CHAPTER 27
ENVIRONMENT**

**AGENDA ITEM: LANDFILL OF WASTE
Directive 99/31/EEC**

**Country Session: The Republic of TURKEY
29 May - 02 June 2006**

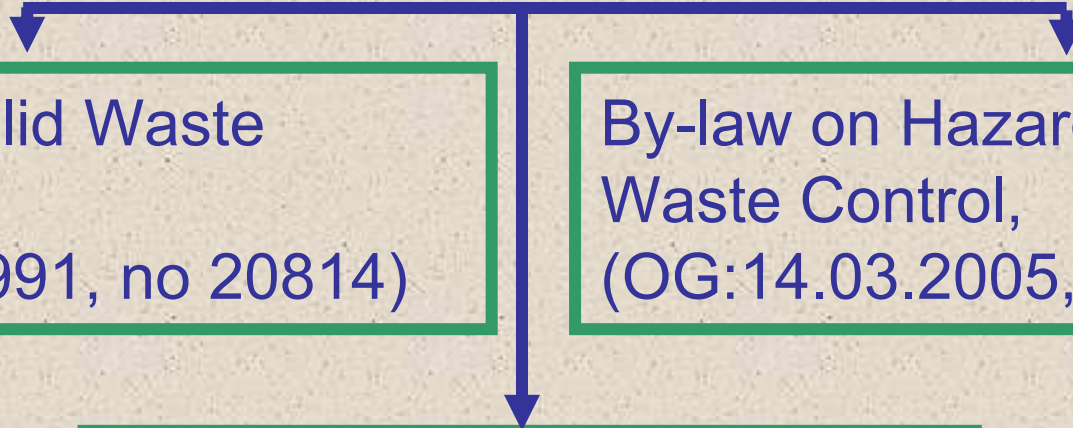


CONTENT

- Overview
- Current Situation
- Related Laws
- National Legislation
- Further Actions
- Projects

OVERVIEW

LANDFILL DIRECTIVE



By-law on Solid Waste Control,
(OG:14.03.1991, no 20814)

By-law on Hazardous Waste Control,
(OG:14.03.2005, no 25755)

By-law on Excavated Soil,
Construction and Demolition
Waste Control,
(OG:18.03.2004, no 25406)

CURRENT SITUATION

For Municipal Waste (MW)



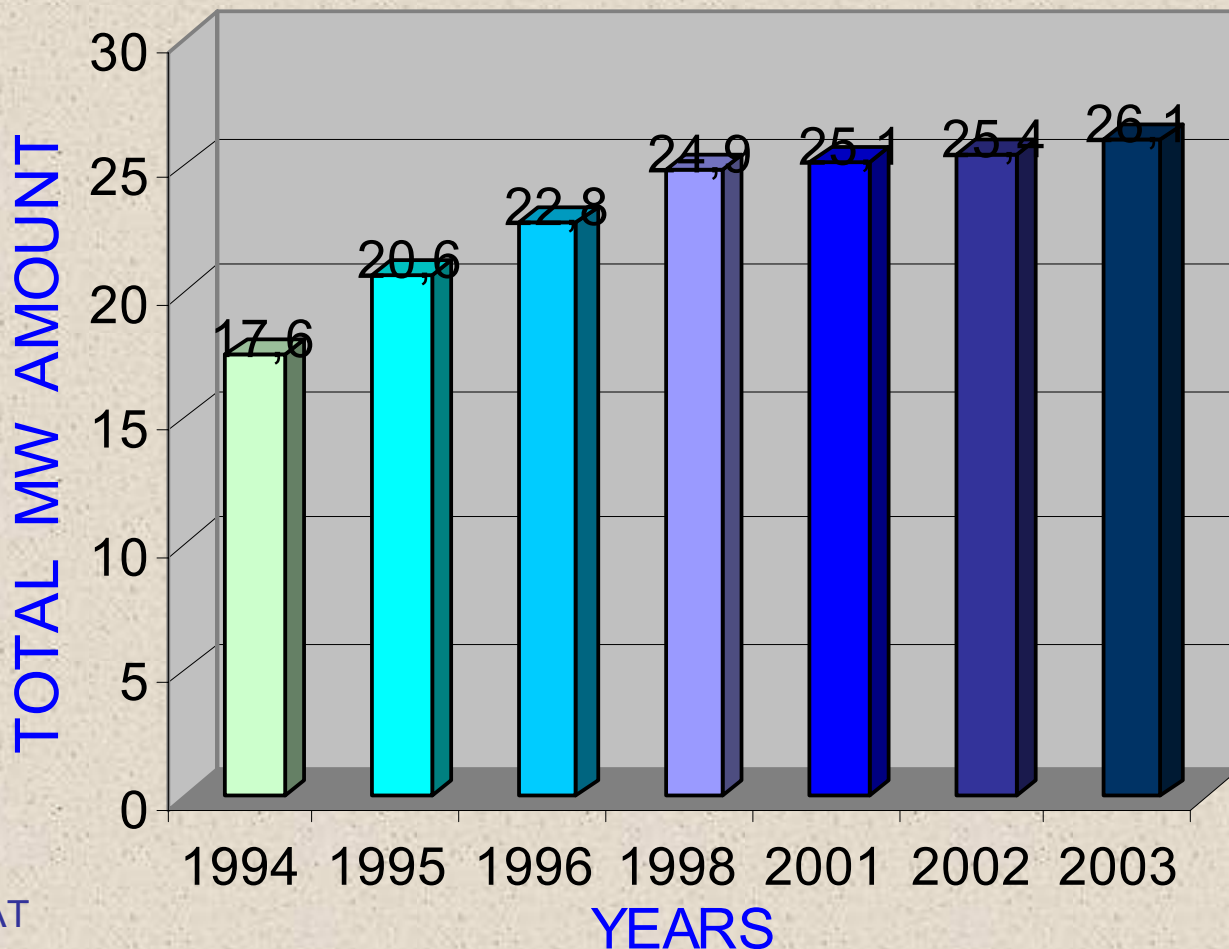
1.34 kg/person-day



TURKSTAT, 2004



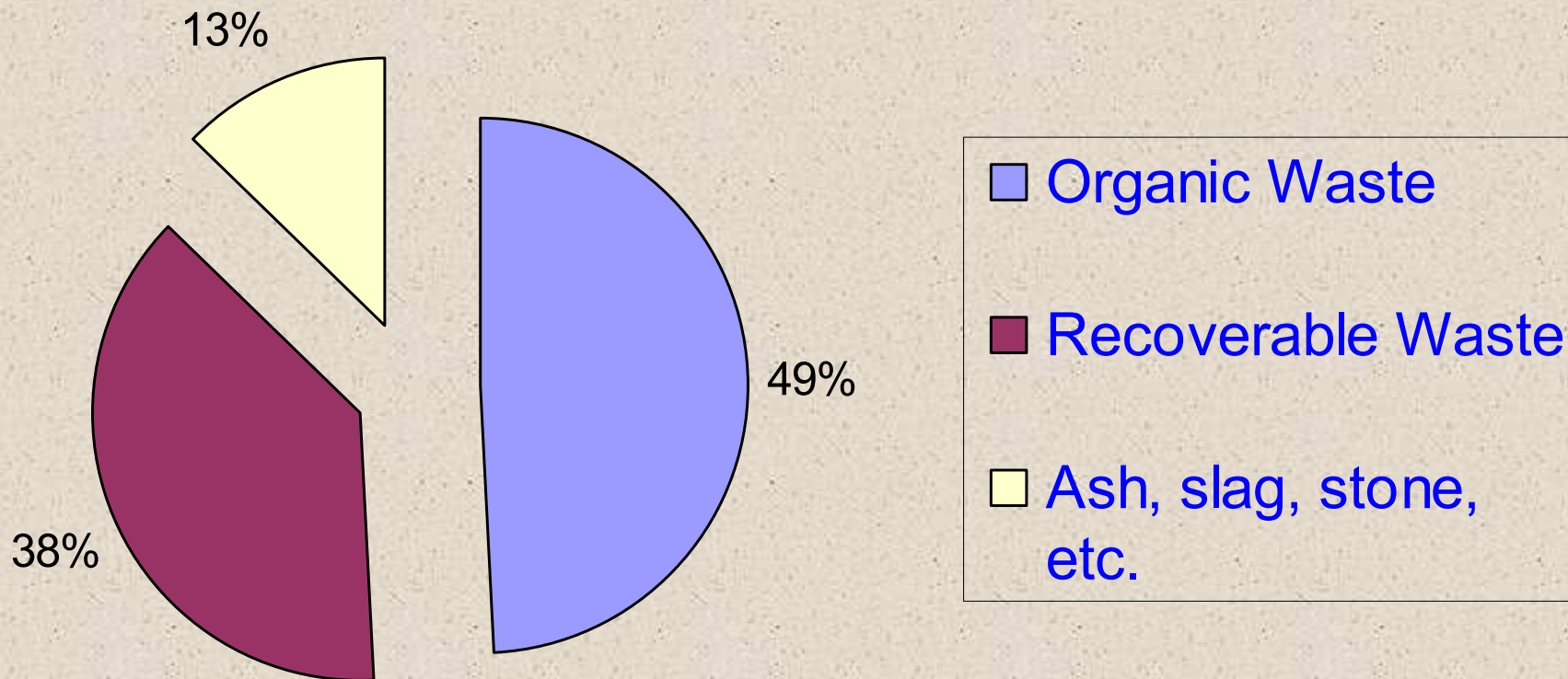
CURRENT SITUATION (CONT'D)



TURKSTAT

CURRENT SITUATION (CONT'D)

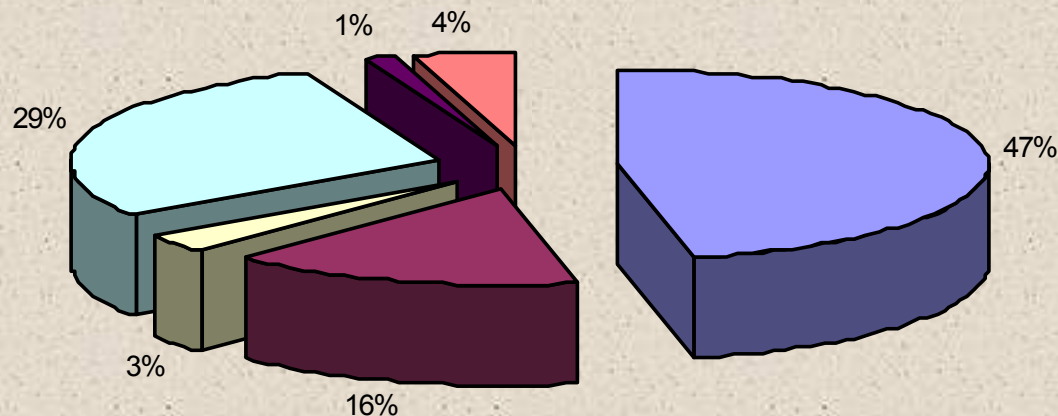
Municipal Waste Composition



MoEF, 2004

CURRENT SITUATION (CONT'D)

Disposal Methods for MW



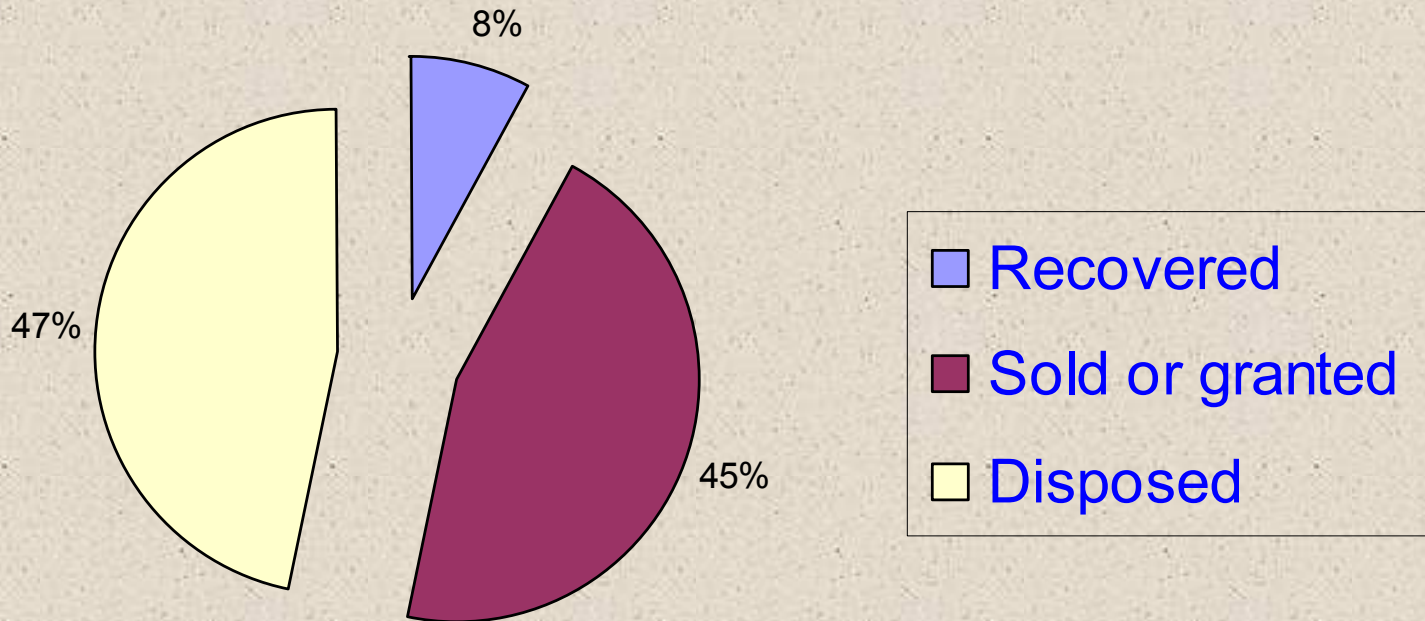
- Dumping
- Dumping (Greater Mun.)
- Dumping (Other Mun.)
- Landfill
- Composting
- Diğer

TURKSTAT, 2004



CURRENT SITUATION (CONT'D)

Hazardous Waste Disposal



Total Amount: 1,2 Million Tonnes/year

TURKSTAT, 2004



CURRENT NON-HAZARDOUS CONTROLLED LANDFILL SITES





NON-HAZARDOUS CONTROLLED LANDFILL SITES STARTING CONSTRUCTION



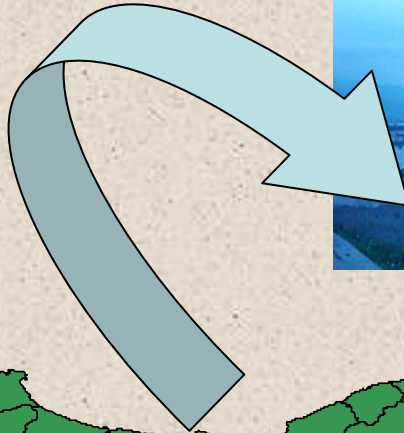
■ Operating
 ■ Inconstruction
 ■ Starting



COMPOST FACILITIES



IZAYDAS



1 unit of landfill site for hazardous wastes with total capacity 790.000 m³. Landfill site were licensed by the Ministry.





RELATED LAWS

- Law No. 2872 on Environment
- Law No. 4856 on Establishment and Duties of MoEF
- Law No. 5216 on Metropolitan Municipality
- Law No. 5393 on Municipality

- Law No. 2464 on Revenue of Municipality
(Environment Cleaning Tax)



RELATED LAWS (CONT'D)

Law on Municipality No. 5393

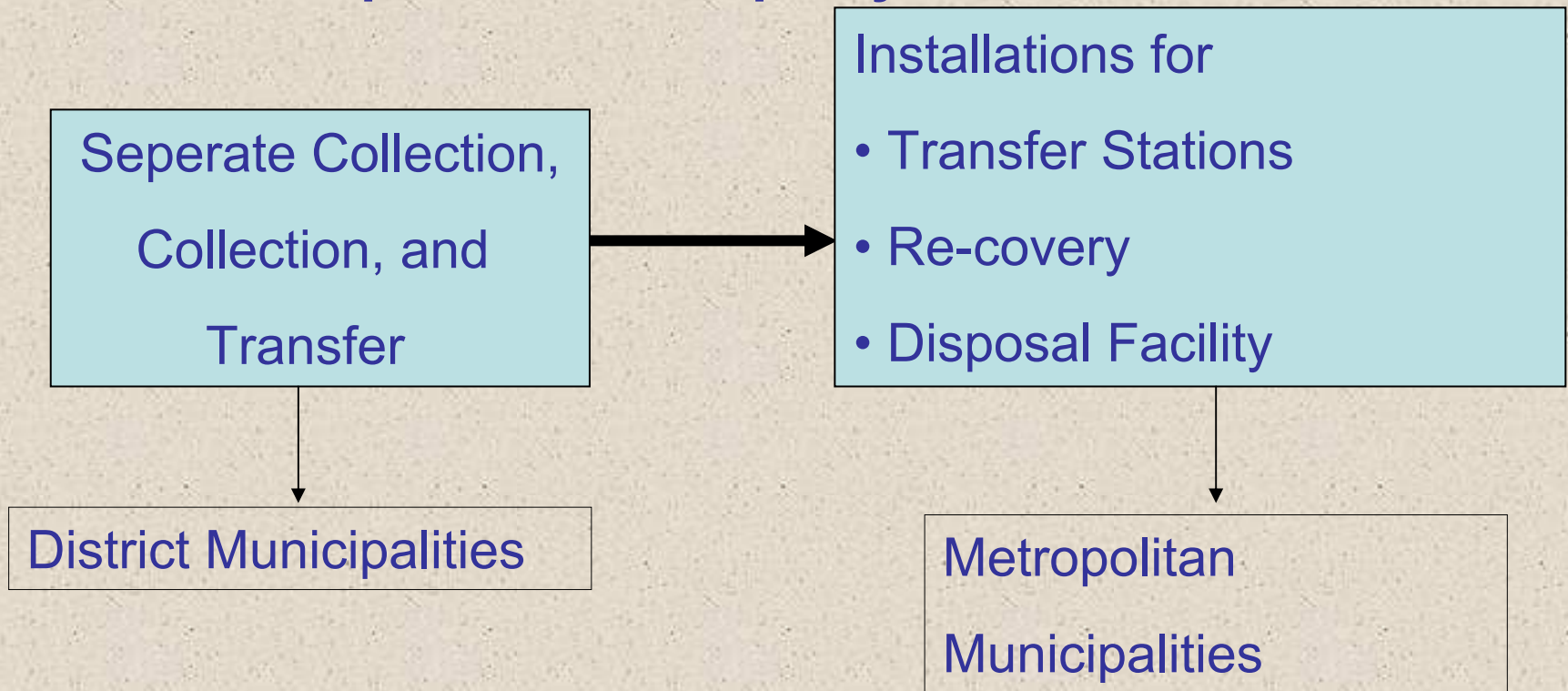
Responsibilities of Municipalities;

- collection
- transportation
- disposal

of municipal and medical waste.

RELATED LAWS (CONT'D)

Law on Metropolitan Municipality No. 5216





NATIONAL LEGISLATION

Preparing and implementing a national strategy reducing the amount of biodegradable municipal waste going to landfill (Article 5)

- Article 8 of the By-law on Packaging and Packaging Waste Control, states that landfilling of packaging material made of paper and carton is forbidden.
- Technical studies are in progress under Twinning Project on Waste Management.



NATIONAL LEGISLATION (CONT'D)

Conditioning plans for existing landfill sites (Article 14)

Technical studies are in progress under Twinning Project on Waste Management.



NATIONAL LEGISLATION (CONT'D)

Classifying landfill sites (Article 4)

- Section 5 of the By-law on Solid Waste Control,
- Section 7 and Annex XI-A of the By-law on Hazardous Waste Control, and
- Section 6 of the By-law on Excavated Soil, Construction and Demolition Waste Control

address classification of landfill sites



NATIONAL LEGISLATION (CONT'D)

Establishing the content of applications for landfill permits (Article 7)

- Articles 27, 28, Annex XIII, XIV of the By-law on Hazardous Waste Control, and
- Article 36 of the By-law on Excavated Soil, Construction and Demolition Waste Control

address content of applications for landfill permits.

- Technical studies are in progress under Twinning Project on Waste Management.



NATIONAL LEGISLATION (CONT'D)

Establishing permit conditions (Articles 8, 9 & 14)

- Articles 7, 10, 27, 28, Annex XIII, XIV of the By-Law on Hazardous Waste Control, and
- Articles 8, 36, 37, 41, 45 and Annex III of the By-Law on Excavated Soil, Construction and Demolition Waste Control

address permit conditions.

- Technical studies are in progress under Twinning Project on Waste Management.



NATIONAL LEGISLATION (CONT'D)

Establishing waste acceptance procedures (Articles 5, 6 & 11)

- Articles 22, 32 of the By-law on Solid Waste Control;
- Articles 10, 12, 15, 38 and Annex: XI of the By-law on Hazardous Waste Control, and
- Articles 9, 39, 40 and Annex: II of the By-law on Excavated Soil, Construction and Demolition Waste Control

address waste acceptance procedures.

- Technical studies are in progress under Twinning Project on Waste Management.



NATIONAL LEGISLATION (CONT'D)

Establishing a costing mechanism (Article 10)

- Articles 9 of the By-law on Hazardous Waste Control, and
- Articles 9 and 17 of the By-law on Excavated Soil, Construction and Demolition Waste Control

address financial obligations of the waste producers regarding waste disposal.

- According to the Law on Municipal Revenue, Environmental Cleaning Tax is collected by the municipalities and metropolitan municipalities for municipal waste management services from the residents and offices benefiting from municipal services.



NATIONAL LEGISLATION (CONT'D)

- Law on Environment has new provisions concerning the cost of landfilling of waste.

There is a provision that citizen served by Municipality should cover the expenditures of;

- Collection
 - Transfer
 - Disposal
- of municipal waste.



NATIONAL LEGISLATION (CONT'D)

Establishing monitoring procedures (Article 12)

- Articles 10, 28 and 38 of the By-law on Hazardous Waste Control
- Article 10 of the By-law on Excavated Soil, Construction and Demolition Waste Control

address monitoring procedures for hazardous, construction and demolition waste.

- Technical studies are in progress under Twinning Project on Waste Management.



NATIONAL LEGISLATION (CONT'D)

Ensuring that landfills are closed only in accordance with specified procedures and properly taken care of after closure (Article 13)

- Article 40 of the By-law on Hazardous Waste Control, and
- Articles 42 and 43 of the By-law on Excavated Soil, Construction and Demolition Waste Control address landfill closing procedures and taking care of after closure.
- Technical studies are in progress under Twinning Project on Waste Management.



NATIONAL LEGISLATION (CONT'D)

Establishing a database on information about landfills and a reporting mechanism (Article 15)

- Articles 6, 7, 8, 9, 10, 28, 36, and 40 of the By-law on Hazardous Waste Control, and
- Articles 7, 8, 10, 11, and 40 of the By-law on Excavated Soil, Construction and Demolition Waste Control

address a database on information about landfills and a reporting mechanism.



NATIONAL LEGISLATION (CONT'D)

Technical studies related to establishing a network system for reporting and recording are carried out by using the outputs of the “Institutional Building & Access to Environmental Information” Project, (TR/0203.03/003) financed under 2002 EU Pre-Accession Financial Assistance. All the related documents regarding waste management that have to be submitted to the Ministry of Environment and Forestry have been incorporated into this system.



NATIONAL LEGISLATION (CONT'D)

Establishing an effective inspection and enforcement system

- Article 9 of the Law on Establishment and Duties of MoEF No. 4856 states that the MoEF is authorized for licensing and inspecting the landfill facilities. Also, according to the related waste legislations the Ministry of Environment and Forestry is authorized to inspect landfill facilities.
- Law on Environment, as amended by the Law No 5491, has provisions regarding inspection and enforcement.



NATIONAL LEGISLATION (CONT'D)

- According to Article 46 of the By-law on Solid Waste Control,
- Article 6 of the By-law on Hazardous Waste Control, and
- Articles 6 and 45 of the By-law on Excavated Soil, Construction and Demolition Waste Control,
landfill facilities are inspected by the MoEF.

- The rules and principles of environmental inspection are defined in the By-law on Environmental Inspection.

- Technical studies are in progress under Twinning Project on Waste Management.



FURTHER ACTIONS

- Technical studies for the preparation of an Environmental Approximation Strategy of Turkey are about to come into being.
- The outputs of the following projects are taken into account in the preparation of the Strategy:
 - Technical Assistance for the Preparation of the Integrated Environment Approximation Strategy for Turkey Project financed under EU MEDA Program (2003-2004)
 - Technical Assistance for Environmental Heavy Cost Investment Planning Project within the framework of the Capacity Building in the Field of Environment for Turkey financed under the 2002 EU Pre-Accession Financial Assistance (2003-2005)



FURTHER ACTIONS (CONT'D)

The Strategy document would present Turkey's action plan for environment management, including

- purposes
- objectives
- strategies
- financial programme

for short, medium and long terms for the implementation of Landfill Directive.

The Strategy will be finalised after being approved by the Government



FURTHER ACTIONS (CONT'D)

Assisted by Twinning Project

- A draft Turkish By-law on Landfill
- A questionnaire for controlled and uncontrolled landfill sites.



FURTHER ACTIONS (CONT'D)

STUDIES FOR UNCONTROLLED LANDFILL SITES

Controlled and uncontrolled landfill sites inventory has been started by the Waste Management (TR 03/IB/EN/01) Twinning Project

- Questionnaire prepared ✓
- Questionnaire send to Municipalities ✓
- Return answers
- Compliation of data



PROJECTS

“Environmental Heavy-Cost Investment Planning Project” Financed under 2002 EU Pre-Accession Financial Assist

In scope of this project two solid waste management projects were prepared named:

- Kusadası Solid Waste Management
- Canakkale Solid Waste Management



PROJECTS (CONT'D)

- **Amasya- Bitlis- Kutahya**
- **Konya- Kayseri**
- **Corum**
- **Balıkesir**
- **Artvin- Rize**

Solid Waste Management Projects

8 solid waste management projects funded by Project Preparation Facility



PROJECTS (CONT'D)



■ Complete Feasibility

■ Continuous Feasibility

■ Landfill



Thank you for your attention