



**SCREENING CHAPTER 27  
ENVIRONMENT**

**AGENDA ITEM: HAZARDOUS WASTE  
Directive 91/689/EEC**

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



## CONTENT

- Overview
- Current Legislation
- Provisions of the By-law on Hazardous Waste Control
- Existing Situation
- Projects
- Waste Management Plans
- Difficulties and Needs for Implementation



## OVERVIEW

<b>EC DIRECTIVES</b>	<b>RELATED PARTS OF DIRECTIVES</b>	<b>TURKISH LEGISLATION</b>
75/442/EEC Waste Framework Directive	General provisions (Art.7,9,10,12,13,14,15,16 and Annex I & II)	By-law on Hazardous Waste Control (BLHWC)
2000/532/EC European Waste Catalogue	Waste marked with an asterisk(*), Art. 2, and introduction part	BLHWC Annex VI and Annex VII
91/689/EC Hazardous Waste Directive	All the provisions except Art.8	BLHWC



## OVERVIEW (CONT'D)

EC DIRECTIVES	RELATED PARTS OF DIRECTIVES	TURKISH LEGISLATION
99/31/EC Landfill Directive	Technical requirements for landfill of haz. waste (waste acceptance, infrastructure)	BLHWC Section VII, Annex XI
2000/76/EC Incineration Directive	Technical requirements for incineration of haz. waste (ELV, discharge)	BLHWC Article 20,21, Annex XVI and XVII
93/259/EC Regulation on Shipment of Waste	Provisions for transboundary movement (transit, export, import)	BLHWC Section VIII annex IX and X



## CURRENT LEGISLATION

The By- law on Hazardous Waste Control includes;

- Responsibilities of hazardous waste producers, transporters, collectors, provincial directorates, municipalities and MoEF
- Enforcement for the minimization of hazardous waste at source
- Requirements for producers to register, and for transport and disposal contractors to obtain license
- Procedures for transboundary movement of hazardous waste
- Illegal traffic
- Principles and procedures of disposal operations.





## PROVISIONS OF BY-LAW ON HWC

- Competent Authority: Ministry of Environment and Forestry
- Definition of Hazardous waste:
  - which contains any substance given in Annex IV and listed in Annex III-A
  - which is listed in Annex III-B and have one or more properties given in Annex V and which contains any substance given in Annex IV
  - waste shown as (A) in Annex VII is classified as hazardous waste
  - waste shown as (M) in Annex VII is classified hazardous waste if the threshold concentration level exceeds limits in Annex VI

**(Annex IV: Annex 2 of Dir.; Annex III-A: Annex 1-A of Dir.; Annex III-B: Annex 1-B of Dir.; Annex V: Annex 3 of Dir.)**



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### List of hazardous waste

The full list of hazardous waste and the concentration limits laid down in 2000/532/EC was transposed to the By-law on HWC as Annex VI and VII, including mirror entries.

The list has the same EWC codes as in the Directive and the classification system is based upon an aggregation of waste from the source.



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Duties and Authorities of the MoEF (Article 6):

- Establish the programs and policies ensuring environmental-friendly management
- Evaluate all kinds of information submitted by Provincial Directorates of MoEF and make necessary inspections
- Prepare waste management plans for hazardous waste and inform public
- Approve location of disposal facilities, give license, inspect these operations
- Enforce monitoring of closed disposal facilities for twenty years





## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Duties and Responsibilities of Provincial Directorates of MoEF (Article 7)

- Transmit applications related with establishing disposal facilities to the MoEF by taking opinion of local environment committees
- Give license for temporary storage of waste in facility area
- Identify facilities operating in provincial borders under the scope of the By-law and notify the MoEF
- Give license to the vehicles and companies which intent to transport waste
- Supervise and inspect all the recovery-disposal facilities within provincial borders



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

- Evaluate the waste declaration forms which are submitted by waste producers annually,
- Determine the amount and balance of waste produced in province,
- Prepare three-year province hazardous waste management plans
- Ensure implementation of hazardous waste management plans within provincial borders.



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Duties and Responsibilities of Municipalities (Article 8)

- Prepare plans and programs concerning management of hazardous waste arising from households
- Establish disposal facilities in collaboration with waste producer or disposal entities, if it is inquired
- Support the studies during the planning, construction and operating of the joint hazardous waste disposal facilities founded by natural and legal persons



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Responsibilities of Waste Producers (Article 9)

- Take measures for waste minimization,
- Prepare three-year hazardous waste management plans for their facilities
- Take license for temporary storage of wastes in their facilities
- Certificate the characterization of their waste to MoEF/ Provincial Directorate of MoEF



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

- Apply the procedures for transportation of hazardous waste
- Submit waste declaration forms,
- Ensure appropriate disposal of their hazardous waste
- Establish waste disposal facilities in collaboration with municipalities or natural and legal persons and make necessary financial contribution,
- Notify the Provincial Directorates of the MoEF in case of an accident





## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Liabilities of Disposal Operators (Article 10)

- Apply procedures for taking license from the MoEF
- Operate facility according to license conditions and make monitoring after closure
- Submit annual operation plans to the MoEF
- Make physical and chemical analysis of waste before accepting it into the facility
- Provide trained personnel for emergency situations
- Apply procedures for transportation of waste



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

- To notify the MoEF in fifteen days, in the case of a disagreement with the waste producers
- To apply the MoEF with a closure plan report in order to close the facility before a hundred sixty days
- Submit annual reports to the Provincial Directorates of the MoEF about their activities and keep records for 5 years in facility



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Permitting system

**Articles 11 and 12:** Natural and legal persons who intend to transport waste;

- should obtain license from Provincial Directorates of the MoEF.
- It is compulsory to keep waste tracking forms in vehicles to realize national and international transportation process.

Permit conditions are given in Annex XVIII.

**Articles 27 and 28:** Natural and legal persons who intend to establish, operate and monitor hazardous waste recovery, final disposal and intermediate storage plants;

- should obtain a license (permit) from the MoEF.

Permit conditions are given in Annexes XIII and XIV.



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Waste Tracking Forms

**Article 11 and 12:** Where hazardous waste is transferred within the State or out of State it is required to be accompanied by a tracking form containing the relevant details as specified in the tracking form of EC. The procedure is the same as the 259/93/EC requirements (Annex IX and Annex X).

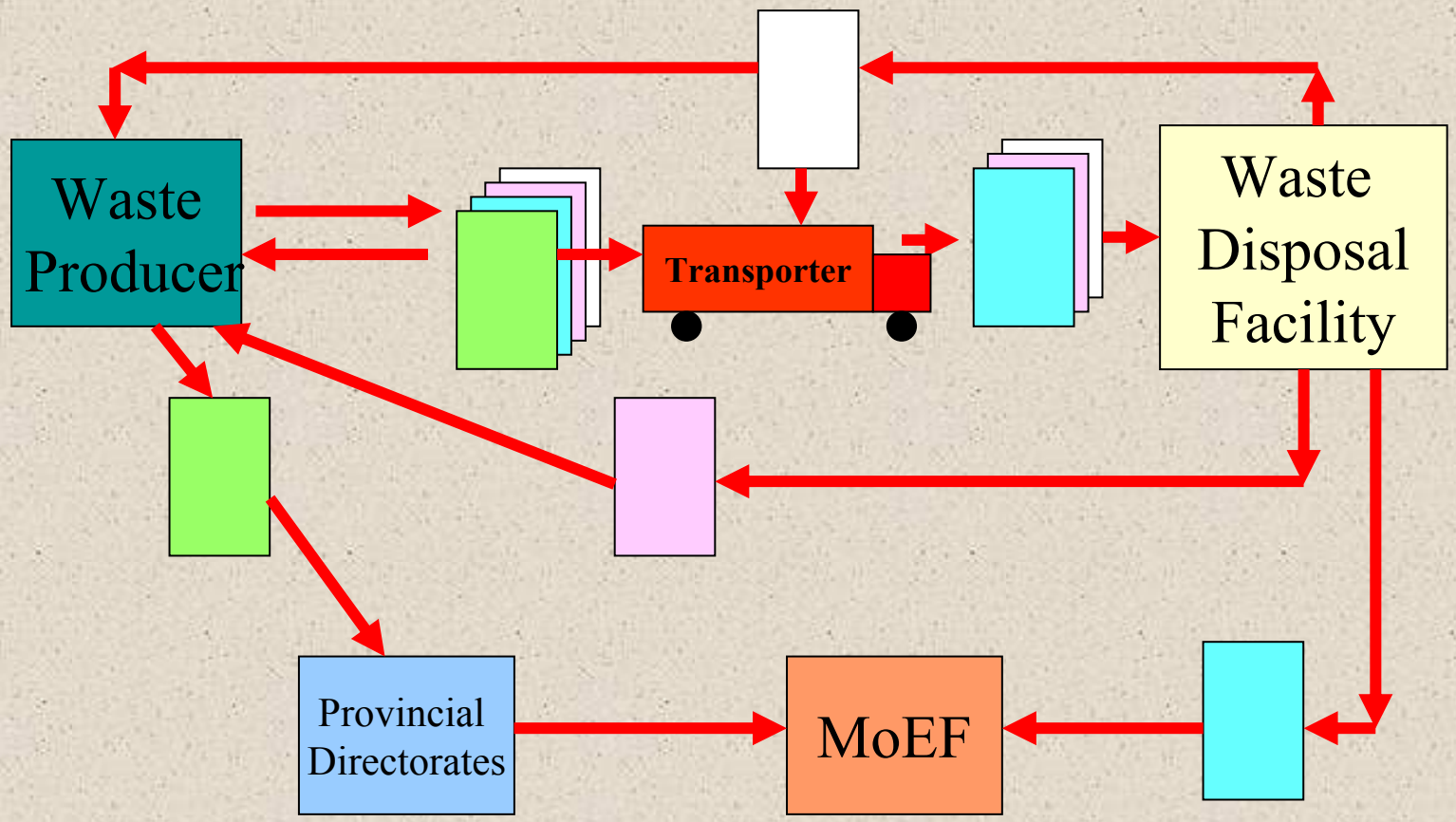
Waste Tracking forms: 4 pages for internal transport  
5 pages for international transport

The tracking form has 3 parts for

- waste producer
- transporter
- disposer



# PROVISIONS OF BY-LAW ON HWC (CONT'D)







## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Report keeping and recording system (Articles 9, 10 and 12)

- waste declaration form
- tracking forms



## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Record keeping obligation in Permit conditions

- mass/balance forms (kept in the facility at least 5 years).
  - waste amount accepted,
  - date of acceptance,
  - type of waste,
  - information on transportation,
  - disposal method
  - information about the final product where it is sold (for recovery operations)

Technical studies for establishing a network system are carried out by using the outputs of the “Institutional Building & Access to Environmental Information” Project (TR/0203.03/003).



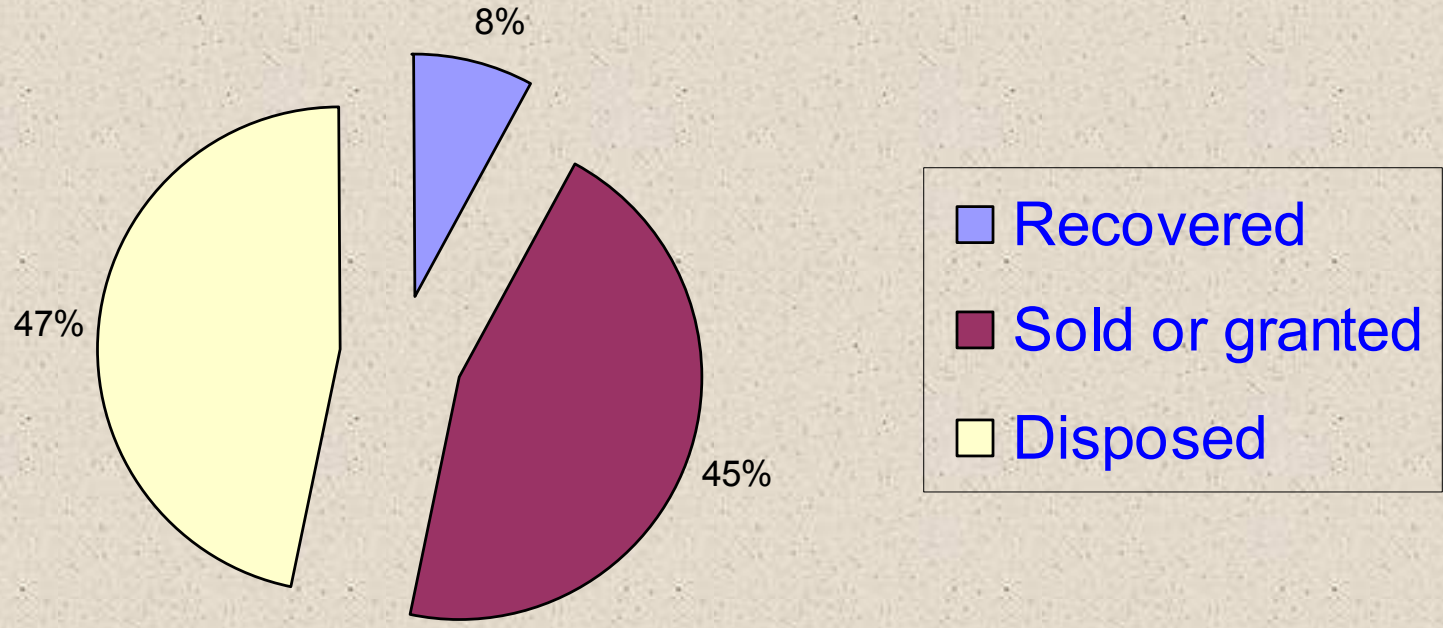
## PROVISIONS OF BY-LAW ON HWC (CONT'D)

### Effective inspection and enforcement system

- Fundamentals and methods of environmental inspection are determined by the By-law on Environmental Inspection
- All waste disposal and recovery establishments are inspected by the MoEF and Provincial Directorates
- Cross-checking and examining of the waste declaration forms, tracking forms and mass/balance forms which have to be kept at the facility by all parties



## EXISTING SITUATION



TURKSTAT, 2004

Total Amount: 1.2 Million tonnes/year



## EXISTING SITUATION (CONT'D)

### Disposal Plants

#### IZAYDAS

(Licensed disposal plant)

- 1 unit of hazardous waste incineration plant  
(Capacity: 35,000 ton/year)
- 1 unit of landfill Site for hazardous wastes  
(Total Capacity: 790,000 m<sup>3</sup>)



Disposal facilities have to be licensed by the MoEF.





## EXISTING SITUATION (CONT'D)

### LICENCED RECOVERY FACILITIES:

Recovery operation code	No of Licensed facility	Capacity (tonnes/year)
R1	17	88714
R2	3	9350
R3	7	17477
R4	17	113442
R5	4	1955
R11	3	14570
R12	7	24415
R13	1	-----
<b>TOTAL</b>	<b>59</b>	<b>-----</b>

Source: MoEF, May 2006



## PROJECTS

### **Projects in the Scope of Turkey-EU Financial Co-operation-2003**

“Support to Turkey in the Field of Air Quality and Waste Management”  
Twinning Project TR03-EN-01

Project starting date: September, 3<sup>rd</sup>, 2004 ( Two years Project)

According to the contract there are 6 sub-components in Directive basis  
being studied parallel.

One of the sub- component is the directive on Hazardous waste.



## WASTE MANAGEMENT PLANS

According to By-law on HWC;

- Article 9(b) waste producers are obliged to prepare three-year hazardous waste management plans
- Article 7(I); Provincial Directorates of the MoEF are obliged to prepare plans for their territories taking into consideration the plans of waste producers
- Article 6(b) the MoEF is responsible for preparing regional hazardous waste management plans



## WASTE MANAGEMENT PLANS (CONT'D)

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)





## WASTE MANAGEMENT PLANS (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 Hazardous Waste Directive.

The Strategy will be finalised after being approved by the Government



## DIFFICULTIES AND NEEDS FOR IMPLEMENTATION

- Administrative capacity building on inventory, supervision and monitoring issues
- Training for industry in the field of hazardous waste management (waste classification, reporting obligations, etc.)
- Technical support on determination of hazardousness properties, especially for mirror entries
- Need for additional hazardous waste final disposal facilities



***Thank you for your attention***