DIRECTORATE OF ENVIRONMENTAL PROTECTION & ENVIRONMENTAL MANAGEMENT

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The main objectives of the Directorate of Environmental Protection are *providing sustainable & healthy environment* and *improvement of quality of life*. 
Activities of Directorate of Environmental Protection
Noise Pollution Control
Assessment and Management of Environmental Noise

- Environmental Noise Directive (2002/49/EC) was adopted to national legislation by MoEU.

- 16 District Municipalities and Istanbul Metropolitan Municipality have the authority on noise pollution control within their authority area.

- Noise pollution in constructed areas, parks, residential areas, areas sensitive to noise (hospital, school etc.) and other buildings and areas are controlled.
## Assessment and Management of Environmental Noise

<table>
<thead>
<tr>
<th>Year</th>
<th>Number of noisy plant</th>
<th>Administrative fines (TL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>30</td>
<td>316,000</td>
</tr>
<tr>
<td>2007</td>
<td>91</td>
<td>895,895</td>
</tr>
<tr>
<td>2008</td>
<td>103</td>
<td>1,078,516</td>
</tr>
<tr>
<td>2009</td>
<td>67</td>
<td>737,224</td>
</tr>
<tr>
<td>2010</td>
<td>78</td>
<td>851,265</td>
</tr>
<tr>
<td>2011</td>
<td>71</td>
<td>1,080,510</td>
</tr>
</tbody>
</table>
Assessment and Management of Environmental Noise

- **Noise/Acoustics Laboratory** established by IMM was accredited by Turkish Accreditation Institution.
- As a pilot area, *Ataturk Airport’s noise map* has been prepared.
- IMM started to prepare the draft noise maps in the basis of districts.
Example of Draft Noise Map
Construction and Demolition Waste Management
Construction and Demolition Waste Management

- Construction, excavation and demolition waste management is implemented within the framework of Municipal and Environmental Law.

- Disposal, reuse and recycling of construction, excavation and demolition wastes are provided.

- To prevent illegal discharge (throw) the controls are carried out.
Construction and Demolition Waste Management

Environmental Inspection Vehicle

Vehicle Tracking System
Construction and Demolition Waste Management

Before Control

After Control
Marine Pollution Control
Marine Pollution Control

Local Authority Area of IMM

- 7/24 Control
- 3 Control boats
- Helicopter Control (2 Days-1 time)
- 40.942 sea vessels were inspected in 2011.
contaminated ballast water
### Marine Pollution Control

<table>
<thead>
<tr>
<th>Year</th>
<th>Administrative fines (TL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2006</td>
<td>3,038,435</td>
</tr>
<tr>
<td>2007</td>
<td>9,763,835</td>
</tr>
<tr>
<td>2008</td>
<td>14,283,623</td>
</tr>
<tr>
<td>2009</td>
<td>5,276,051</td>
</tr>
<tr>
<td>2010</td>
<td>4,813,966</td>
</tr>
<tr>
<td>2011</td>
<td>3,124,818</td>
</tr>
</tbody>
</table>
Marine Pollution Control

“Master Plan” on determination of boat mooring areas was prepared to

- prevent coastal and sea pollution,

- ensure that our citizens benefit from the shores.
Studies on Determination of Boat Mooring Areas

- European side: 12 places
- Anotolian side: 10 places
- Total: 22 new places
Istinye and Tarabya Bays

Pontoon
Air Pollution Control
Air Quality

Air Pollution History

In Istanbul, air pollution started to manifest itself as of the year 1985 due to the:

• rapid population increase,
• the use of low quality fuel,
• dense immigration,
• wrong place selection for industry,
• not giving importance enough to heat isolation,
• not enough workings on reducing traffic sourced emissions
• lack of information on environmental issues.
10 fixed +1 mobile monitoring stations
Online automatic measurement
SO$_2$, CO, PM10, NOx, Ozone
Air Quality-Web Site

www.ibb.gov.tr/Air Quality
Air Quality in Istanbul

Thanks to spreading natural gas consumption in settlements and industry, qualified fuel obtaining (qualified coal, qualified fuel-oil, etc.), afforestation, controlling and inspection of industrial sourced emissions, putting in action of heat isolation, improving of public transportation, etc. remarkable improvements recorded on Istanbul’s air quality.
Change in $SO_2$ and Particulate Matter (PM)

- $SO_2$ (EU Standard 20 mg/m$^3$)
- PM (EU Standard 40 µg/m$^3$)
A decision support system for urban air quality management was developed for the first time for a metropolitan city in Turkey within the scope of LIFE-TCY Programme.

According to the results of the study, an action plan titled “İstanbul Air Quality Strategy” was prepared to have a better air quality in future.

www.ibb.gov.tr/sites/airqualistanbul
## Air Pollutant Emissions

<table>
<thead>
<tr>
<th></th>
<th>Emissions (t/y)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PM$_{10}$</td>
</tr>
<tr>
<td><strong>Industry</strong></td>
<td>7,630</td>
</tr>
<tr>
<td><strong>Residential heating</strong></td>
<td>13,631</td>
</tr>
<tr>
<td><strong>Traffic</strong></td>
<td>5,200</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td>26,461</td>
</tr>
</tbody>
</table>

![Map of Air Pollutant Concentrations](image)
Waste Vegetable Oil Control
Waste Vegetable Oil Control

Restaurants, hotels, industrial kitchens and other vegetable oil manufacturers in our area of authority are inspected to prevent discharge of oil to sewer system.

*Total inspection number: 837 (2011-2012)*
Public Information

Leaflets including information about waste vegetable oils, regulations and responsibilities of manufacturers has been published.

These brochures are distributed during the audits and our environmental training courses.
Flammable and Explosive Substances Control
Flammable and Explosive Substances Control

- Work places storing flammable and explosive chemicals for commercial purposes are inspected to provide environmental safety.
- Licensed facilities are inspected every year and “Storage Permit” is given.
- Inspection: 1000 (2011)
- “Storage Permit”: 37 (2011)
Laboratory Activities
Environment and Fuel Analysis Laboratory

- Fuel (coal, fuel oil, diesel fuel) analysis
- Wastewater analysis
- Seawater analysis
- Waste oil analysis

The laboratory was accredited by Turkish Accreditation Institution.

The laboratory has “Certificate of Competence in Environmental Measurement and Analysis” from MoEU.
Activities on Raising Environmental Consciousness
ÇEVREBEY ÇEVRE BEKÇİLERİ

25/03/2008
THANK YOU...