

Template for Evidence(s) UI GreenMetric Questionnaire

University : Gebze Technical University
Country : Turkiye
Web Address : www.gtu.edu.tr

[3] Waste (WS)

[3.10] Total volume toxic waste treated

Type of waste	amuount (ton)				
	total	reduced	reused	down-cycled	up-cycled
toxic	6.630	1.743 (as compared to last year)	0	0	0
- electronics (battery+non toxic+ electronic materials)	1.000	0	0	0	0
- laboratory chemicals	5.520	1.600	0	0	0
- medical waste	0.11	0.143	0	0	0

1



Hazardous Waste Temporary Storage Area

2



Electronic Waste Collection Activity

3



Hazardous Waste Transport

Total Toxic Waste Treated (Gebze Technical University, Türkiye)

Description:

- A total of 6.630 tons of toxic waste was produced in GTU. 1,743 tons of toxic waste was reduced as compared to last year. The reduction might be caused by a semester online education due to the earthquake in February 2023 (less toxic substance are accumulated in laboratories). Beside, in most of the laboratories projects on sustainability are increasing. This might have helped production of less harmful chemicals and contribute reduction of toxic substances in the laboratories.
- Of this 6.630 tons of waste, 5.520 tons are laboratory chemicals. 1.600 tons of laboratory chemicals were reduced as compared to last year. 0.11 tons of medical waste was produced from GTU medical center and 0.143 tons reduction occurred as compared to last year values.
- Toxic waste produced in our campus that is collected by Chimirec Avrasya Waste Company. It is determined where and how the waste will be recycled or eliminate after waste of analysis and identification. Some wastes are sent to regular landfill facilities, some wastes are sent to ATY preparation facilities, and some wastes are sent to incineration facilities.
- Our university manages toxic laboratory waste and medical waste in accordance with the Turkish Environmental Law and the environmental legislation of the Ministry of Environment, Urbanization and Climate Change of the Republic of Turkey. In this context, hazardous waste originating from laboratories is regularly sent to licensed disposal facilities every year. In the last year, 5.520 tons of hazardous waste originating from laboratories has been produced at our university, and this amount has decreased by 1.6 tons compared to the previous year. Within the scope of waste management, number of research studies using experimental design methods are increasing each year at our university and less chemical consumption has been achieved. Medical waste originates from one of our research laboratories and is regularly sent to a licensed sterilization facility in accordance with the Turkish Environmental legislation. Our medical waste has decreased by 0.143 tons compared to the previous year. This data is recorded in the information system of the Ministry of Environment, Urbanization and Climate Change of the Republic of Turkey.
 - 1) There is a temporary storage area for hazardous waste on campus. An example of this area is in the form of a photograph.
 - 2) An electronic waste collection activity was organized on campus. In this activity, academic, administrative staff and students brought their electronic waste to the designated collection area. In addition, this activity aimed to raise awareness among participants about the damage electronic waste causes to the environment.
 - 3) It is an example image of the transportation vehicle belonging to the Avarasya company, which collects the hazardous waste produced on campus at certain periods.