



المركز الاتحادي  
للتنافسية والإحصاء  
FEDERAL COMPETITIVENESS  
AND STATISTICS CENTRE



# Waste Statistics in United Arab Emirates

<sup>9</sup> The Expert Group on Environment Statistics

2022

KNOWLEDGE  
FOR PROSPERITY

# United Arab Emirates



The United Arab Emirates is a federal country (National day is 2 December 1971), it consisting of seven emirates, Abu Dhabi (the capital), Dubai, Sharjah, Ajman, Umm AL Quwain, Ras Al Khaimah, and Fujairah.

<https://1map-fcsa.hub.arcgis.com/>



Emirate	Area	%
Abu Dhabi	59,434.7	83.7
Dubai	4,027.1	5.7
Sharjah	2,564.4	3.6
Ajman	268.2	0.4
Umm Al-Quwain	702.2	1.0
Ras Al-Khaimah	2,447.1	3.4
Fujairah	1,579.9	2.2
Total	71,023.6	100.0
Territorial sea	27,624.9	



# Statistics System in United Arab Emirates

Official Statistics were started in UAE since the federation foundation in 1972, and keep improving, where the recent government body of statistics was announced in September 2020 as Federal Competitiveness and Statistics Center (FCSC). The governmental statistics work in UAE is managed by FCSC with cooperation and integration of the seven local statistical entities work.



دائرة الإحصاء  
والتنمية المجتمعية  
Department of Statistics &  
Community Development

مركز دبي للإحصاء  
Dubai Statistics Center



مركز الإحصاء  
STATISTICS CENTRE



المركز الاتحادي  
للتنافسية والإحصاء  
FEDERAL COMPETITIVENESS  
AND STATISTICS CENTRE



مركز الفجيرة للإحصاء  
FUJAIRAH STATISTICS CENTER

حكومة رأس الخيمة  
Government of Ras Al Khaimah

مركز رأس الخيمة للإحصاء والدراسات  
RAK Center for Statistics & Studies



حكومة أم القيوين  
GOVERNMENT OF UMM ALQUWAIN

المجلس التنفيذي  
EXECUTIVE COUNCIL



مركز الإحصاء والتنافسية  
Government of Ajman  
Statistics and Competitiveness Center

# References of Statistics in UAE

UAE is following the International Statistical Standards in Structure official statistics



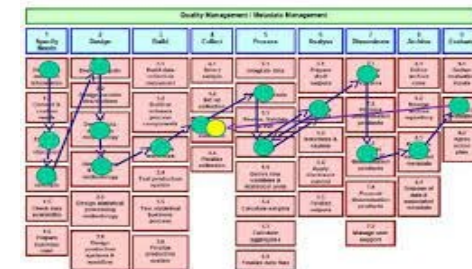
United Nations  
Statistics Division

Environment Statistics, the main recent reference is the framework of environment statistics (FDES-2013)

FRAMEWORK FOR THE DEVELOPMENT OF ENVIRONMENT STATISTICS (FDES 2013)



UAE is following Generic Statistics Business Process Model (GSBPM)



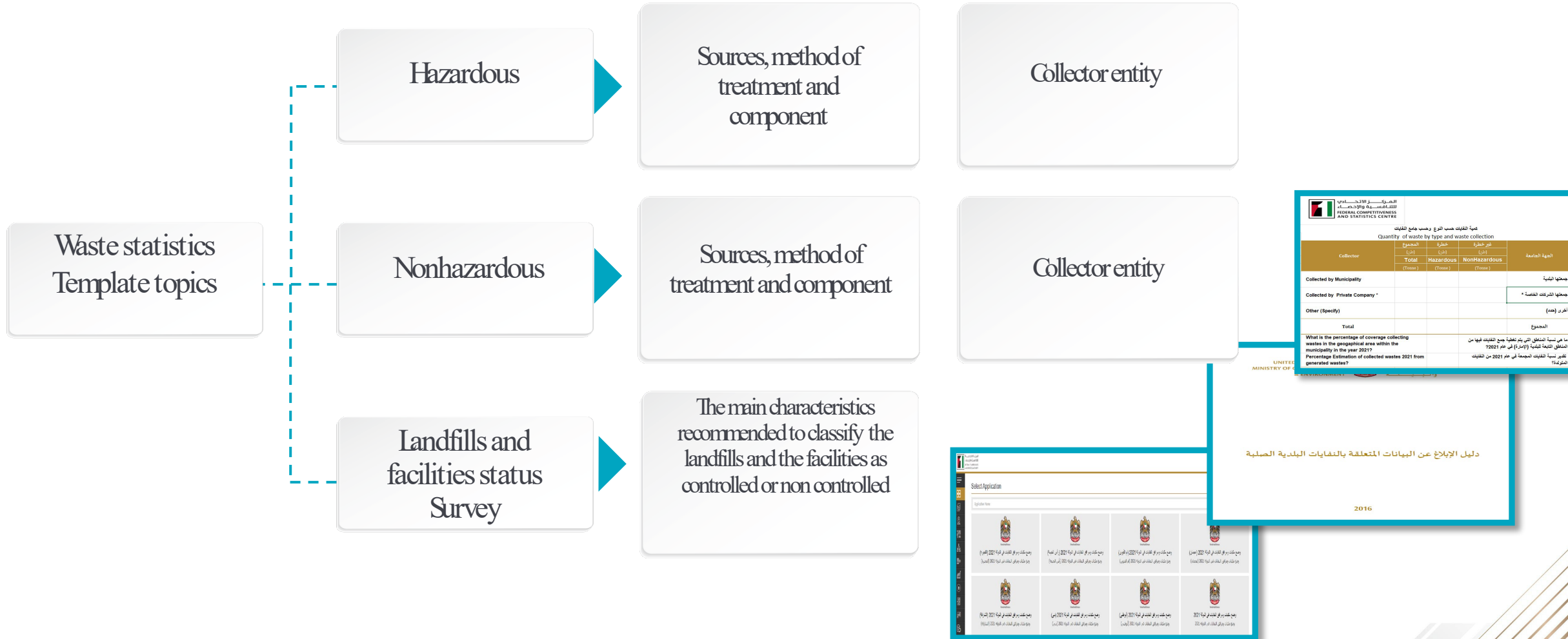


Waste Statistics Compiling is part of the Environment statistics compiling process

The main step is to build a strong cooperation with the relevant stakeholders, follow the standards in data collection, designate the roles of each stakeholder and share the responsibilities and Knowledge.



# Administrative waste statistics collection templates were designed based on the recommendations of the Framework for Development of Environment Statistics (FDES)





# Waste statistics – Template

## Quantity of Hazardous Wastes by Component and Method of Treatment

المركز الاتحادي للتنافسية والإحصاء  
FEDERAL COMPETITIVENESS AND STATISTICS CENTRE

كمية النفايات الخطرة حسب الفئات (المحتوى) وأساليب المعالجة

Quantity of Hazardous Wastes by Component and Method of Treatment

Waste Category (Component)	Treatment method					أساليب المعالجة		تصنيف (المحتوى) الفئات
	landfilling	Export waste ready for treatment	physicochemical treatment	Incineration with Energy	Incineration without Energy	Recycling	Total Quantity	
	(طن) (Tonne)	(طن) (Tonne)	(طن) (Tonne)	(طن) (Tonne)	(طن) (Tonne)	(طن) (Tonne)	(طن) (Tonne)	%
Hazardous Spent solvents								1992
Hazardous Waste containing PCB (polychlorinated Biphenyls)								1993
Acid, alkaline or saline waste Hazardous								1994
Hazardous Used oils								1999
Hazardous Chemical waste								1996
Hazardous Industrial effluent sludges								1997
Hazardous Sludges and liquid waste from waste treatment								1998
Hazardous Health care and biological waste								1999
Hazardous Glass waste								1910
Hazardous Wood waste								1911
Hazardous Discarded equipment								1912
Hazardous Discarded vehicles								1913
Hazardous Batteries and accumulation waste								1914
Hazardous Mineral waste from waste treatment and stabilised waste								1915
Hazardous Combustion waste								1916
Hazardous Mineral waste from construction and demolition and pithead, Sulfid and waste from breaking crush								1917
Hazardous Mixed and unidentified material								1918
Total								1999

## Quantity of E- Wastes by Category and Method of Treatment

المركز الاتحادي للتنافسية والإحصاء  
FEDERAL COMPETITIVENESS AND STATISTICS CENTRE

كمية النفايات الإلكترونية حسب الفئات (المحتوى) وأساليب المعالجة

Quantity of E- Wastes by Category and Method of Treatment

Waste Category (Component)	landfilling	Export outside country for treatment	Recycling	Total Quantity	تصنيف (المحتوى) الفئات
	(طن) (Tonne)	(طن) (Tonne)	(طن) (Tonne)	(طن) (Ton)	
Amounts going to: Large equipment					الكميات الموجهة: معدات كبيرة
Screens, monitors, and equipment containing screens					شاشات وألواح ومعدات تحتوي على شاشات (.)
Temperature exchange equipment (cooling and freezing equipment)					معدات تبادل حراري
Small E-waste					نفايات إلكترونية صغيرة
of which: lamps					منها : مصابيح
of which: small equipment					منها معدات صغيرة
of which: small IT and telecommunication equipment					منها معدات تكنولوجيا معلومات والتصالات صغيرة
Total E-waste Collected					مجموع النفايات الإلكترونية المجمعة

## Energy Generation from Wastes

المركز الاتحادي للتنافسية والإحصاء  
FEDERAL COMPETITIVENESS AND STATISTICS CENTRE

توليد الطاقة من النفايات

Energy Generation from Wastes

Is there energy production from waste treatment?	No %	Yes	أرسلت إليها أم لم أرسل إليها
If the answer is YES, Please Continue			لا
The use of the energy by end user	كمية الطاقة الكهربائية المستخدمة من قبل المستخدم	كمية الطاقة المولدة	كمية الطاقة المولدة من قبل المستخدم
	(طن) (Tonne)	(طن) (Tonne)	(طن) (Tonne)
Quantity of used waste (Tonne) <td></td> <td></td> <td></td>			
Answer: 1- yes, 2- no			
Method of Generation			
Fermentation (Methan) (biogas) (production) (bioreactors)			
Gas Collection from landfills or wells from old dumped wastes			
Incineration			
Other (specify)			
Total			



# Waste statistics – Survey

Introduction Identification data

Emirate  
Dubai

Name of the responsible person of data  
TEST

Name of the responsible person of data  
TEST

Mobile No  
313564326

Number of landfills and facilities in the Emirate  
5

Status of facilities and landfills 2021 Back To Home

Identification data questions of landfills

:Please Specify the type of questionnaire  
 Landfill questionnaire  
 Facility questionnaire

Name of landfill  
Please write the name of the landfill worked in this year for more than 6 months  
TEST

(Landfill location (Latitude  
367

Landfill Location(Longitude)  
63

Status of facilities and landfills 2021 Back To Home

Identification data questions of landfills

What are the waste types being disposed of in the landfill  
 nonhazardous  
 hazardous  
 hazardous and non hazardous

(Landfill area( m2  
21324

Designed capacity of the landfill (Tonne) (if available)  
23134

The distance between the landfill and the nearest residential area?( km)  
45

(The slope of the landfill is stable.( landslides not possible  
 Yes  
 No

(The slope of the landfill is stable.( landslides not possible  
 Yes  
 No

Are there any waste characterization studies conducted on the landfill either directly or indirectly  
 Yes  
 No

10/14/22, 8:51 AM SurveyWeb

Is the landfill equipped with a weighing scale  
 Yes  
 No

Are the sources of the waste recorded  
 Yes  
 No

Is the landfill equipped with compaction devices/vehicles  
 Yes  
 No

Frequency in which the waste is covered in the landfill  
 Daily covering of the waste  
 frequent covering of waste but not daily  
 The waste covered sometimes  
 the waste not covered

Is the site fenced?  
 Yes  
 No





Dissemination of waste statistics will be approved according to the GSBPM SYSTEM steps after the data validated according to multiple quality tests.

<https://fsc.gov.ae/en-us/Pages/Statistics/Statistics-by-Subject.aspx#/3Folder=Economy/National%20Account/National%20Account>

Home | Statistics | Statistics By Subject

### Statistics By Subject

- Economy
- Demography and Social
- Agriculture Environment and Energy

Data related to livestock, crop production, agriculture, fisheries, climate, water production and other related datasets

Agriculture All

- Crops and Land Use
- Fisheries
- Commercial Farms
- Livestock
- Environment
- Climate
- Desalinated Produced Water
- Treated Wastewater
- Air Quality
- Natural Reserves
- Waste
- Climate Change
- Energy
- Electricity
- Oil and Gas
- Renewable Energy

Subject	Year	File	UAE.Stat	Methodology
Waste	2020	0.29 MB	UAE.Stat	
Waste	2019	0.22 MB		0.29 MB
Waste	2018	0.14 MB		
Waste	2017	0.18 MB		
Waste	2016	0.19 MB		
Waste	2015	0.20 MB		
Waste	2014	0.18 MB		
Waste	2013	0.15 MB		
Waste	2012	0.15 MB		
Waste	2011	0.20 MB		
Waste	2010	0.07 MB		

Please be aware that the website is still under development



# Waste Statistics dissemination files were used by multiple users and the main users are:

MOCCA for strategic planning, International organizations queries, SDG indicators, researchers, students and others



## Sustainable cities and communities

- Indicator 11.6.1  
Proportion of municipal solid waste collected and managed in controlled facilities out of total municipal waste generated, by cities

Landfills and  
Facilities status  
Survey



## Responsible consumption and production

- Indicator 12.3.1  
(a) Food loss index and (b) food waste index
- Indicator 12.4.2  
(a) Hazardous waste generated per capita; and (b) proportion of hazardous waste treated, by type of treatment
- Indicator 12.5.1  
National recycling rate, tons of material recycled

Administrative Data



Q&A

Thank You





@FCSAUAE | @UAESDGS

