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Sustainable cities and communities—— Environmental, social, and governance (ESG) indicators for cities

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Contents—

<u>Forew</u>	vord	<u></u> X
Introd	luction	<u></u> xi
1	Scope	
2	Normative references	
3	Terms and definitions	
4	ESG reporting for cities — General	<u></u> 5
5	ESG indicators	<u></u> 5
5.1	General	<u></u> 5
<u>5.2</u>	E — Environmental	<u></u> 6
<u>5.3</u>	S — Social	<u></u> 6
5.4	G — Governance	<u></u> 6
6	Environmental indicators	<u></u> 7
6.1	Final energy consumption of public buildings per year (GJ/m ²)	
6.2	Total residential electrical energy use per capita (kWh/year)	
6.3	Percentage of total electricity consumption from renewable sources	<u></u> 8
6.4	Electricity consumption of public street lighting per kilometre of lighted street	
	(kWh/year)	
<u>6.5</u>	Square metres of city owned/operated green roof space as a percentage of all roof space	
	of all city-owned/operated buildings	
6.6	Number of electric vehicle (EV) charging station ports per registered electric vehicle (EV)	_
_	(EV)	<u></u> 9
<u>6.7</u>	Number of hydrogen fuel cell vehicle charging nozzles per personal hydrogen fuel cell	40
<i>.</i> 0	vehicle	
6.8	Fine particulate matter (PM2.5) concentration.	
6.9	Percentage of designated natural protection areas	
6.10 6.11	Number of real-time remote air quality monitoring stations per square kilometre (km ²	
6.12	Percentage of city land area covered by tree canopy	
6.13	Annual expenditure allocated to ecosystem restoration in the city as a percentage of to	
OIIO	city expenditures	
6.14	Percentage of city area impacted by either wildfire or forest fire, or both	_
6.15	Percentage of households with smart energy meters	
6.16	Percentage of households with smart water meters	
6.17	Percentage recycled solid waste	18
6.18	Percentage of solid waste disposed of in a sanitary landfill	<u>.</u> 19
6.19	Percentage of solid waste treated in energy-from-waste plants	
6.20	Percentage of solid waste biologically treated and used as compost or biogas	
6.21	Percentage of solid waste disposed of in an open dump	
6.22	Percentage of solid waste disposed of by other means	
6.23	Household hazardous waste generation per capita (tonnes)	
6.24	Percentage of recycled household hazardous waste	
6.25	Percentage of commuters using a travel mode to work other than a personal vehicle	
6.26	Percentage of registered low-emission vehicles	
<u>6.27</u>	Percentage of the city's bus fleet that does not burn or otherwise consume fuel	_
6.28	Annual percentage of expenditures attributed to urban agriculture	.28

<u>6.29</u>	Green area owned or operated by the city (hectares) per 100 000 population	
6.30	Annual flood prevention expenditure as a percentage of total expenditures	<u></u> 30
6.31	Percentage of wastewater receiving centralized treatment	<u></u> 31
6.32	Percentage of separated storm and sanitary sewers	<u></u> 32
6.33	Total domestic water consumption per capita (litres/day)	<u></u> 32
6.34	Total water consumption per capita (litres/day)	<u></u> 33
6.35	Percentage of water loss (unaccounted for water)	
6.36	Environmental profile indicators	
7	Social indicators	
7.1	Unemployment rate	
7.2	Percentage of persons in full-time employment	
7.3	Youth unemployment rate	
7.4	Employment level	
7.5	Average disposable household income	
7.6	Average annual consumer price index	<u></u> 46
7.7	Annual percentage change in average annual total electrical bill for residential	
	customers per 500 kWh	<u></u> 46
7.8	Annual percentage change in food costs	
7.9	Percentage of students completing secondary education — Adjusted cohort rate	
<u>7.10</u>	Primary education student-teacher ratio	
7.11	Number of higher education degrees per 100 000 population	
7.12	Number of in-patient hospital beds per 100 000 population	
<u>7.13</u>	Number of physicians per 100 000 population	
7.14	Number of nursing personnel per 100 000 population	
<u>7.15</u>	Average emergency department wait time for physician initial assessment (minutes).	<u></u> 52
<u>7.16</u>	Number of infectious disease outbreaks per year	
7.17	Percentage of population living in affordable housing	
<u>7.18</u>	Residential rental dwelling units as a percentage of total dwelling units	
7.19	Average wait time for either subsidised or social housing units, or both (months)	
7.20	Number of either subsidised or social housing units, or both as a % of total dwelling u	
	in the city	
7.21	Number of homeless persons per 100 000 population	
7.22	Average annual number of shelter beds per 100 000 population	
7.23	Percentage of residential properties located in high-risk zones	
7.24	Percentage of schools in high-risk zones	
<u>7.25</u>	Capacity of designated emergency shelters per 100 000 population	
7.26	Percentage of city population living below the national poverty line	<u></u> 58
7.27	Number of licensed early childhood education and care spaces per 1 000 pre-mandato	
	school-age population	
<u>7.28</u>	Percentage of public buildings that are accessible to persons with special needs	<u></u> 60
7.29	Percentage of marked pedestrian crossings equipped with accessible pedestrian signa	<u>ıls</u> 61
<u>7.30</u>	Percentage of population enrolled in social assistance programmes	<u></u> 62
7.31	Public indoor recreation space owned or operated by the city per capita	
7.32	Public outdoor recreation space owned or operated by the city per capita	
7.33	Number of homicides per 100 000 population	
7.34	Crimes against property per 100 000 population	
7.35	Response time for emergency response services from initial call	<u></u> 65
7.36	Number of police-reported violent crimes against women per 100 000 population	
7 27	Percentage of city population covered by multi-hazard early warning system	67

<u>7.38 </u>	Percentage of city area under a white zone/dead spot/not covered by	
	telecommunication connectivity	
<u>7.39</u>	Kilometres of public transit per 100 000 population	
<u>7.40</u>	Kilometres of bicycle paths and lanes per 100 000 population	<u></u> 69
<u>7.41</u>	Annual number of public transport trips per capita	<u></u> 70
7.42	Annual number of public transit trips on vehicles designated for accessible transit	
	(paratransit) per capita	
7.43	Percentage of population living within 0,5 km of public transit running at least every	
	20 min during peak periods	<u></u> 72
7.44	Number of bicycles available through municipally provided bicycle-sharing services	
	100 000 population	<u></u> 72
<u>7.45</u>	Percentage of the city's population living within one km of a grocery store	<u></u> 73
7.46	Compliance rate of drinking water quality	
7.47	Percentage of city population that can be supplied with drinking water by alternativ	<u> </u>
	methods for the first 72 h of an emergency	<u></u> 74
7.48	Social profile indicators	<u></u> 75
8	Covernance indicators	90
<u>o</u> 8.1	Governance indicators	00
	Percentage of city owned/operated properties with insurance coverage for high-risk	
8.2		
0.2	hazardsNumber of science, technology, engineering, and mathematics (STEM) higher educat	
8.3	degrees per 100 000 populationdegrees per 100 000 population	
8.4	Debt service ratio (debt service expenditure as a percentage of a city's own-source	<u></u> 02
0.4	revenue)	02
0.5	Capital spending as a percentage of total expenditures	
8.5	Annual direct or in-kind city expenditure on research and development funding and	<u></u> 84
8.6	grants as a percentage of total city expenditures	01
8.7	Annual expenditure on invasive or alien species monitoring and control as a percent	
0./	of total city expenditures	
0 0	Annual expenditure on upgrades and maintenance of city service assets as a percent	
8.8	of total city expenditures	
8.9 ^{ttp}	Annual expenditure on upgrades and maintenance of storm water infrastructure as	
0.9	percentage of total city expenditures	
8.10	Voter participation in last municipal election (as a percentage of registered voters).	
	Percentage of female elected city-level officers	
8.11 8.12		
0.12	population	
0.12	Average response time to inquiries made through the city's non-emergency inquiry	<u></u> 00
8.13		00
0.14	system (days)	
8.14 0.15	Average downtime of IT infrastructure due to security incident	<u>.</u> 90
8.15	Percentage of city electronic data with secure and remote back-up storage	
8.16 0.17	Frequency of disaster-management plan updates	
8.17 0.10	Percentage of emergency responders with disaster response training	
8.18	Percentage of city population that can be provided with city food reserves for the fire	
0.40	72 h in an emergency	
8.19	Average time for building permit approval (days)	
8.20	Percentage of city area covered by publicly available hazard maps	
8.21	Percentage of city land area in high-risk zones where risk-reduction measures have	<u>04</u>
	IMPIAMANTAG	U/

planning and investment 8.23 Annual expenditure on capacity building and leadership training of indigenous as a percentage of total city expenditures 8.24 Number of environmental assessments that include evaluation of social, spiritu cultural impact on lands and territories as a percentage of total environmental assessments 8.25 Percentage of service contracts evaluated for green procurement principles 8.26 Governance profile indicators Annex A (informative) Mapping of indicators to ISO 37120, ISO 37122 and ISO 37123. Bibliography 1 Scope 2 Normative references 3 Terms and definitions 4 ESG reporting for cities — General 5 ESG indicators 5.1 General 5.2 E - Environmental 5.3 S - Social 5.4 G - Governance 6 Environmental indicators	
as a percentage of total city expenditures	
8.24 Number of environmental assessments that include evaluation of social, spiritucultural impact on lands and territories as a percentage of total environmental assessments 8.25 Percentage of service contracts evaluated for green procurement principles 8.26 Governance profile indicators Annex A (informative) Mapping of indicators to ISO 37120, ISO 37122 and ISO 37123. Bibliography Scope Normative references Terms and definitions ESG reporting for cities — General 5 ESG indicators 5.1 General 5.2 E - Environmental 5.3 S - Social 5.4 G - Governance 6 Environmental indicators	
cultural impact on lands and territories as a percentage of total environmental assessments	
assessments 8.25 Percentage of service contracts evaluated for green procurement principles 8.26 Governance profile indicators Annex A (informative) Mapping of indicators to ISO 37120, ISO 37122 and ISO 37123. Bibliography	
8.25 Percentage of service contracts evaluated for green procurement principles	
8.26 Governance profile indicators Annex A (informative) Mapping of indicators to ISO 37120, ISO 37122 and ISO 37123. Bibliography Scope Normative references Terms and definitions ESG reporting for cities — General ESG indicators S — EsG indicators S — Environmental S — Social S — Governance Environmental indicators	
Annex A (informative) Mapping of indicators to ISO 37120, ISO 37122 and ISO 37123. Bibliography	
Bibliography 1 — Scope 2 — Normative references 3 — Terms and definitions 4 — ESG reporting for cities — General 5 — ESG indicators 5.1 — General 5.2 — E – Environmental 5.3 — S – Social 5.4 — G – Governance 6 — Environmental indicators	<u></u> 98
Bibliography 1 — Scope 2 — Normative references 3 — Terms and definitions 4 — ESG reporting for cities — General 5 — ESG indicators 5.1 — General 5.2 — E – Environmental 5.3 — S – Social 5.4 — G – Governance 6 — Environmental indicators	100
1 — Scope	
2 Normative references	<u></u> 104
2 Normative references	
2 Normative references	4
3 Terms and definitions 4 ESG reporting for cities — General 5 ESG indicators 5.1 General 5.2 E - Environmental 5.3 S - Social 5.4 G - Governance 6 Environmental indicators	
4 ESG reporting for cities — General	1
4 ESG reporting for cities — General	1
5 ESG indicators 5.1 General 5.2 E - Environmental 5.3 S - Social 5.4 G - Governance 6 Environmental indicators	
5.1—General	5
5.1—General	-
5.2 E - Environmental	
5.3 S - Social	
5.4 G - Governance	_
6 Environmental indicators	
	7
6.1—Final energy consumption of public buildings per year (GJ/m ²)	7
6.2 Total residential electrical energy use per capita (kWh/year)	7
6.3 Percentage of total electricity consumption from renewable sources	8
6.4—Electricity consumption of public street lighting per kilometre of lighted street	
(kWh/year)	8
6.5 Square metres of city owned/operated green roof space as a percentage of all r	oof space
of all city-owned/operated buildings	
6.6 Number of electric vehicle (EV) charging station ports per registered electric vehicle (EV)	shicle
(EV)	9
6.7—Number of hydrogen fuel cell vehicle charging nozzles per personal hydrogen f	uel cell
vehicle	10
6.8—Fine particulate matter (PM2,5) concentration	10
6.9 Percentage of designated natural protection areas	11
6.10—Greenhouse gas (GHG) emissions measured in tonnes per capita	11
6.11—Number of real-time remote air quality monitoring stations per square kilome	re (km²)17
6.12—Percentage of city land area covered by tree canopy	13
6.13—Annual expenditure allocated to ecosystem restoration in the city as a percentage	
city expenditures	•
6.14—Percentage of city area impacted by either wildfire or forest fire, or both	
6.15—Percentage of households with smart energy meters	
6.16—Percentage of households with smart water meters	
6.17 Percentage recycled solid waste	
6.18—Percentage of solid waste disposed of in a sanitary landfill	
6.19—Percentage of solid waste treated in energy-from-waste plants	

6.20 –	–Percentage of solid waste biologically treated and used as compost or biogas	19
6.21 –	Percentage of solid waste disposed of in an open dump	2 0
6.22 –	Percentage of solid waste disposed of by other means	21
6.23 –	-Household hazardous waste generation per capita (tonnes)	2 2
6.24	Percentage of recycled household hazardous waste	2 3
6.25 –	Percentage of commuters using a travel mode to work other than a personal vehicle	23
	Percentage of registered low-emission vehicles	2 4
6.27 –	Percentage of the city's bus fleet that does not burn or otherwise consume fuel	25
	Annual percentage of expenditures attributed to urban agriculture	
	Green area owned or operated by the city (hectares) per 100 000 population	
	Annual flood prevention expenditure as a percentage of total expenditures	
	Percentage of wastewater receiving centralized treatment	
	Percentage of separated storm and sanitary sewers	
	Total domestic water consumption per capita (litres/day)	
	Total water consumption per capita (litres/day)	
	Percentage of water loss (unaccounted for water)	
	Environmental profile indicators	31
	•	
7—	-Social indicators	37
7.1 —	-General	37
7.2—	-Unemployment rate	37
7.3 —	Percentage of persons in full-time employment	37
7.4—	-Youth unemployment rate	38
7.5 —		39
7.6 —	-Average disposable household income	39
7.7	-Average annual consumer price index	40
7.8 —	-Annual percentage change in average annual total electrical bill for residential	
	customers per 500 kWh	40
7.9 —	-Annual percentage change in food costs	40
7.10 –	Percentage of students completing secondary education — Adjusted cohort rate	41
	Primary education student-teacher ratio	42
	Number of higher education degrees per 100 000 population	4 3
	Number of in-patient hospital beds per 100 000 population	
	Number of physicians per 100 000 population	44
	Number of nursing personnel per 100 000 population	44
	-Average emergency department wait time for physician initial assessment (minutes).	45
	Number of infectious disease outbreaks per year	
	Percentage of population living in affordable housing	
	Residential rental dwelling units as a percentage of total dwelling units	
	- Average wait time for either subsidised or social housing units, or both (months)	
	—Average wait time for either substailsed or social housing units, or both (months) —Number of either subsidised or social housing units, or both as a % of total dwelling u	
7.41	in the city	
7 22	Number of homeless persons per 100 000 population	
	-Average annual number of shelter beds per 100 000 population	
	Percentage of residential properties located in high-risk zones	
	Percentage of schools in high-risk zones	
	-Capacity of designated emergency shelters per 100 000 population	
	Percentage of city population living below the national poverty line	
7.28	Number of licensed early childhood education and care spaces per 1 000 pre-mandate	
	school-age population	
7 20	Porcontago of public buildings that are accessible to persons with enecial peeds	52

	—Percentage of marked pedestrian crossings equipped with accessible pedestrian sign	
	-Percentage of population enrolled in social assistance programmes	
	—Public indoor recreation space owned or operated by the city per capita (in m2)	
7.33	—Public outdoor recreation space owned or operated by the city per capita (in m2)	
7.34	-Number of homicides per 100 000 population	
	-Crimes against property per 100 000 population	
7.36-	Response time for emergency response services from initial call	57
7.37	-Number of police-reported violent crimes against women per 100 000 population	57
7.38	Percentage of city population covered by multi-hazard early warning system	58
7.39	Percentage of city area under a white zone/dead spot/not covered by	
	telecommunication connectivity	59
7.40	-Kilometres of public transit per 100 000 population	60
7.41	-Kilometres of bicycle paths and lanes per 100 000 population	61
7.42	—Annual number of public transport trips per capita	
7.43	-Annual number of public transit trips on vehicles designated for accessible transit	
	("paratransit") per capita	62
7.44	—Percentage of population living within 0,5 km of public transit running at least every	
	20 min during peak periods	63
7.45	Number of bicycles available through municipally provided bicycle-sharing services p	
	100 000 population	
7.46	Percentage of the city's population living within one kilometre of a grocery store	
	Compliance rate of drinking water quality	
	—Percentage of city population that can be supplied with drinking water by alternative	
,,,,	methods for the first 72 h of an emergency	
749	Social profile indicators	
	Governance indicators Standards Hensel	
8		
8.1—	—Survival rate of new businesses	70
8.2	Percentage of city owned/operated properties with insurance coverage for high-risk	
	hazards	
8.3—	Number of science, technology, engineering, and mathematics (STEM) higher education	
_ http	degrees per 100 000 population	71
8.4	Debt service ratio (debt service expenditure as a percentage of a city's own-source	
	revenue)	
8.5	Capital spending as a percentage of total expenditures	73
8.6—	V . I	
	grants as a percentage of total city expenditures	
8.7—	-Annual expenditure on invasive or alien species monitoring and control as a percenta	
	of total city expenditures	
8.8—	-Annual expenditure on upgrades and maintenance of city service assets as a percenta	
	of total city expenditures	75
8.9 —	-Annual expenditure on upgrades and maintenance of storm water infrastructure as a	
	percentage of total city expenditures	
8.10 –	-Voter participation in last municipal election (as a percentage of registered voters)	76
	Percentage of female elected city-level officers	
8.12 -	—Annual number of online engagements with the municipal open data portal per 100 0	
	population	77
8.13 –	-Average response time to inquiries made through the city's non-emergency inquiry	
	system (days)	
	-Average downtime of IT infrastructure due to security incident	
8.15	Percentage of city electronic data with secure and remote back-up storage	79

8.16-	Frequency of disaster-management plan updates80
8.17	Percentage of emergency responders with disaster response training80
8.18 –	Percentage of city population that can be provided with city food reserves for the first
	72 h in an emergency81
8.19	-Average time for building permit approval (days)81
8.20-	Percentage of city area covered by publicly available hazard maps82
8.21	Percentage of city land area in high-risk zones where risk-reduction measures have been
	implemented 82
8.22	Percentage of city departments and utility services that conduct risk assessment in their
	planning and investment83
8.23	Annual expenditure on capacity building and leadership training of indigenous peoples
	as a percentage of total city expenditures84
8.24	Number of environmental assessments that include evaluation of social, spiritual, and
	cultural impact on lands and territories as a percentage of total environmental
	assessments 85
8.25	Percentage of service contracts evaluated for green procurement principles85
8.26	Governance profile indicators86

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ISO/PRF 37125

https://standards.iteh.ai/catalog/standards/iso/8412698b-4a08-4b25-b537-f91b339f2598/iso-prf-37125

Foreword

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This document was prepared by Technical Committee ISO/TC 268, Sustainable cities and communities.

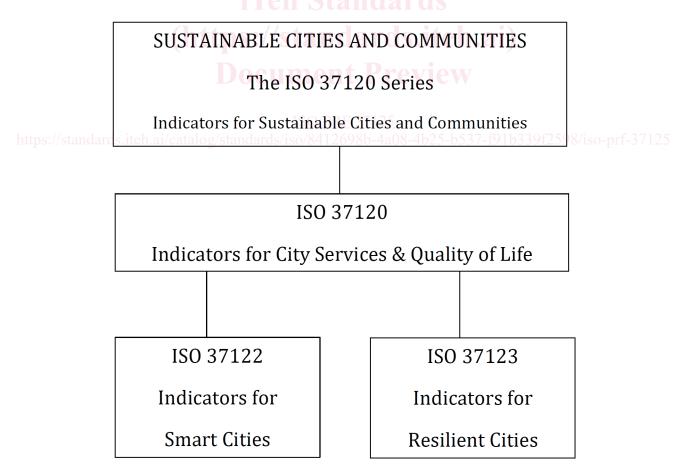
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Introduction

On a global scale, environmental, social environmental, social and governance (ESG) principles are at the core of the discussion on responsible leadership in governments and private industries alike. Cities can leverage these principles to foster a more sustainable and inclusive prosperity for their citizens guided by data-driven management for sound governance into the future. However, a critical weakness has been identified in this field: a lack of standards and codes on how to measure ESG with comparable data, governed by standardized criteria and a trusted measurement platform. This lack of standardization has created a sense of skepticism in ESG assessments and organizations are seeking new guidance on how best to measure ESG performance.

It is within this global context of an evolving ESG ecosystem that cities are stepping up – understanding the need for standardization across ESG principles to ensure much-needed successes in municipal programming, planning and service delivery. To be successful in adopting ESG programs and strategies, city leaders need to be equipped with standardized criteria to build trusted measurement platforms. With standardized city-level data, city managers, planners, mayors and sector leaders will be better able to assess and track advances in a city's ESG profile. A subset of these key performance indicators (KPIs) can also be applied to measure results in regions, counties, provinces, states, countries, and other geographic levels.

Worldwide, cities are already utilizing the ISO 37120, ISO 37122, and ISO 37123 standards for cities—to build standardized data sets to support their work in delivering services to their residents, in advancing quality of life, and in building smarter and more resilient futures for their cities. These municipal leaders recognize the importance of standardized data to support and validate their commitments to ESG. Figure 1 shows the relationship between the ISO 37120, ISO 37122 and ISO 37123 standards for cities.



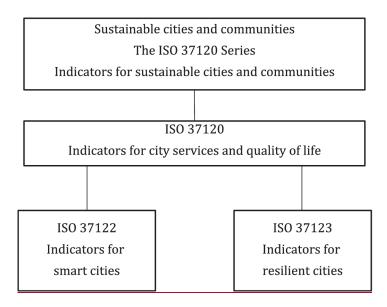


Figure 1—<u>Sustainable cities and communities</u>—Relationship between the ISO 37120, ISO 37122 and ISO 37123 standards for cities

While KPIs (252 in total plus a set of -profile indicators) exist across the ISO 37120, ISO 37122, and ISO 37123 standards for cities that can support ESG measurements in cities, there are also gaps within these indicators. This document is designed to draw on both a sub-set of KPIs in the ISO 37120, ISO 37122, and ISO 37123 standards for cities (see Annex A) Annex A) and also to include new KPIs developed with full definitions and methodologies to fill these critical gaps, making this document a comprehensive ESG measurement platform for cities. This document includes a core set of fully numeric KPIs that will help city leaders worldwide to direct ESG-informed and ESG-driven municipal programming, planning and service delivery. This document, in conjunction with ISO 37120, ISO 37122 and ISO 37123 is intended to provide a complete set of indicators to better assess and track advances in a city's ESG profile.

Cities of all sizes and in line with their own purposes can use their ESG profile for setting benchmarks and milestones for their growth and development. Cities, governments and researchers can also make use of the ESG profiles for inter-city comparison. This document is a flexible tool designed to support cities across objectives. Furthermore, indicators can be useful tools for other levels of government, including regional and other upper-tier governments when considering ESG objectives.

This document is developed with the understanding that cities are increasingly on the frontline in delivering services that improve quality of life for citizens, that protect the environment, consider equity and social needs, and prioritize social responsibility, underpinned by a strong model of governance and enduring legislation. This document will equip city leaders with data to nurture prosperous, inclusive, and liveable cities, with a high quality of life for residents, now, and into in the future.

Sustainable cities and communities— Environmental, social, and governance (ESG) indicators for cities

1 Scope

This document specifies and establishes definitions and methodologies for a set of indicators to inform an environmental, social environmental, social and governance (ESG) profile for cities.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at https://www.iso.org/obp
- IEC Electropedia: available at https://www.electropedia.org/

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city

municipality

local government

urban or rural community falling under a specific administrative boundary

3.32

city population

number of residents living in a particular city or municipality, typically determined by census every 5 or 10-years

Note-1-to-entry:-City populations determined by census exclude temporary residents but include residents temporarily absent.

3.43

community

group of people with an arrangement of responsibilities, activities and relationships

Note-1-to entry:-In many, but not all, contexts, a community has a defined geographical boundary.

Note- 2- to entry:- A city is a type of community.

3.64

disaster

serious disruption to a city or community due to hazardous events interacting with conditions of exposure, vulnerability and capacity, leading to human, material, economic and/or environmental losses and impacts

Note-1-to-entry:-Disasters can be frequent or infrequent, depending on the probability of occurrence and the return period of the relevant hazard. 3.7

<u>3.5</u>

drinking water

water intended for human consumption

Note-1-to-entry:-The term "potable water" is used instead of "drinking water" in ISO 37120 because it was published before ISO 24513. Both terms can be used interchangeably, but "potable water" is deprecated according to ISO 24513.

[SOURCE: ISO 24513:2019, 3.2.2.1, modified — Note 1 to entry replaced.]

3.<mark>86</mark>

full-time enrolment

enrolment in an education programme whose intended study load amounts to at least 75 % of the normal full-time annual study load

3.97

gigajoule

measure of the energy that is equivalent to 1-X-109-Joules (J), where 1 J is the amount of energy required to send an electrical current of one ampere through a resistance of one ohm for one second

Note-1-to-entry:-One gigajoule (GJ) is equivalent to 277,8 kilowatt hours (kWh).

3.108

hazard

phenomenon, human activity or process that can cause loss of life, injury or other health impacts, property damage, social and economic disruption or environmental degradation

Note—1—to—entry:—Hazards include biological, environmental, geological, hydro-meteorological and technological processes and phenomena. Biological hazards include pathogenic microorganisms, toxins and bioactive substances (e.g. bacteria, viruses, parasites, venomous wildlife and insects, poisonous plants, mosquitoes carrying disease-causing agents). Environmental hazards can be chemical, natural, radiological or biological, and are created by environmental degradation, physical or chemical pollution in the air, water and soil. However, many of the processes and phenomena that fall into this category can be "drivers" of hazard and risk rather than hazards themselves (e.g. soil degradation, deforestation, biodiversity loss, sea level rise). With respect to drinking water, 'hazard' can be understood as a microbiological, chemical, physical or radiological agent that causes harm to human health. Geological or geophysical hazards originate from internal earth processes (e.g. earthquakes, volcanic activity, landslides, rockslides, mud flows). Hydro-meteorological hazards are of atmospheric, hydrological or oceanographic origin (e.g. cyclones, typhoons, hurricanes, floods, drought, heatwaves, cold spells, coastal storm surges). Hydro-meteorological conditions can also be a factor in other hazards such as landslides, wildland fires and epidemics. Technological hazards originate from industrial or technological conditions, dangerous procedures, infrastructure failures or specific human activities (e.g. industrial pollution, nuclear radiation, toxic waste, dam failures, transport accidents, factory explosions, fires, chemical spills).

3.119

hazard map

map developed to illuminate areas that are affected or vulnerable to a particular hazard (e.g. earthquakes, landslides, rockslides)

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