



Progress on Wastewater Treatment (SDG target 6.3)



of the world's domestic wastewater is safely treated (SDG indicator 6.3.1, 2022)

- Data provider: WHO and UN-Habitat, see country files for household wastewater
- Available time series: 2015-2022
- Number of countries (and areas) reporting in the last five years: 149
- Proportion of world population covered by reporting in the last five years: 90%
- Proportion of world economy covered by reporting in the last five years: 94%
- Proportion of world land area covered by reporting in the last five years: 88%
- Learn more about the indicator here
 Read the latest progress report here



Wastewater collection and treatment help protect freshwater systems, the oceans and also human health, as detrimental pathogens, nutrients and other types of pollution are prevented from entering the environment.

SDG target 6.3 is: 'By 2030, improve water quality by reducing pollution,





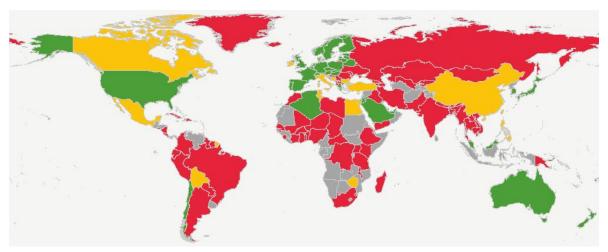
eliminating dumping and minimizing release of hazardous chemicals and materials, halving the proportion of untreated wastewater and substantially increasing recycling and safe reuse globally'.

To track progress towards the target, SDG indicator 6.3.1 monitors the proportion of total, industrial and domestic wastewater flows safely treated in compliance with national or local standards.





Global status of indicator 6.3.1 Proportion of wastewater flow (safely) treated > Domestic (2022) [1]

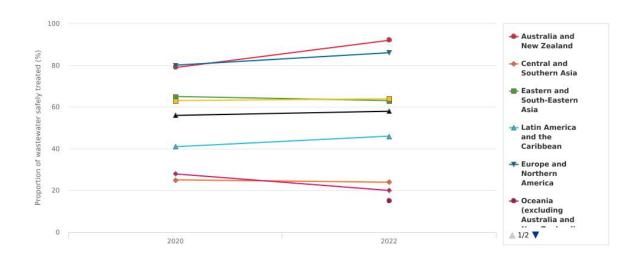


The designations employed and the presentation of material on this map do not imply the expression of any opinion whatsoever on the part of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines represents approximately the Line of Control in Jammu and Kashmir agreed upon by India and Pakistan. The final status of Jammu and Kashmir has not been agreed upon by the parties. Final boundary between the Republic of Sudan and the Republic of South Sudan has not yet been determined. Final status of the Abyei area is not yet determined. A dispute exists between the Governments of Argentina and the United Kingdom of Greater Britain and Northern Ireland concerning the sovereignty over the Falkland Islands (Malvinas).

Proportion of wastewater safely treated (%)



Progress over time of indicator 6.3.1 Proportion of wastewater flow (safely) treated > Domestic $^{[2]}$



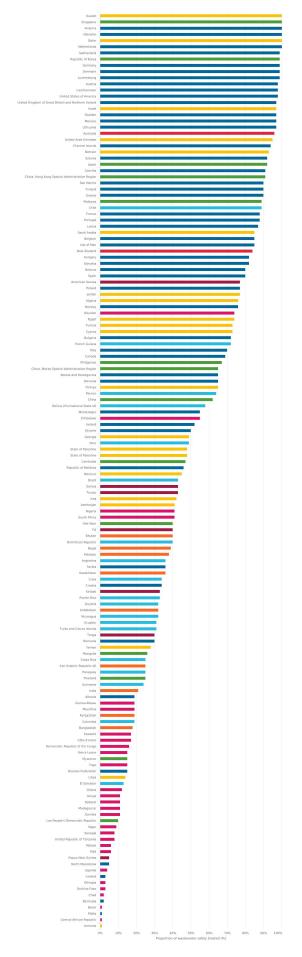




Status in different countries (or areas) on indicator 6.3.1 Proportion of wastewater flow (safely) treated > Domestic (2022) [4]





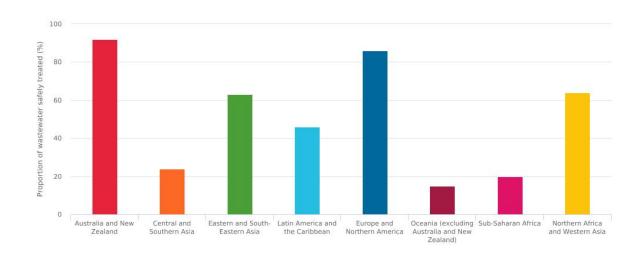








Status in different SDG regions of indicator 6.3.1 Proportion of wastewater flow (safely) treated > Domestic (2022) $^{[5]}$







Source data indicator 6.3.1 Proportion of wastewater flow (safely) treated^[6]

Country (or area), regional and world data for the latest year of reporting: 2015 - 2022

Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
Albania	2015-2022	10.95	19.47	
Algeria	2022		76.19	
American Samoa	2022		77.5	
Andorra	2015-2022	100	100	
Azerbaijan	2015-2022	49.58	41.34	
Argentina	2022		36.49	
Australia	2022		95.82	
Austria	2022		98.21	
Bahrain	2015-2022	98.73	93.27	79.31
Bangladesh	2015-2022	6.4	17.52	
Armenia	2015-2022	7.47	0.56	
Belgium	2015-2022	100	85.07	100
Bermuda	2022		1.5	
Bhutan	2022		39.61	
Bolivia (Plurinational State of)	2020		58.29	
Bosnia and Herzegovina	2015-2022	54.36	65.31	100
Brazil	2015-2022	9.35	43.41	
Bulgaria	2015-2022	100	72.09	53.82
Myanmar	2022		15.12	





Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
Belarus	2015-2022	65.82	80.31	
Cambodia	2022		46.79	
Canada	2022		68.89	
Central African Republic	2020		0.57	
Chad	2022		2.32	
Chile	2022		89.1	
China	2022		61.67	
Colombia	2015-2022	7.97	18.77	
Democratic Republic of the Congo	2022		15.53	
Costa Rica	2015-2022	83.34	25.43	
Croatia	2015-2022	63.62	33.97	24.74
Cuba	2022		34.04	
Cyprus	2022		72.63	
Czechia	2015-2022	85.68	91.29	35.8
Benin	2022		1.41	
Denmark	2022		98.79	
Dominican Republic	2022		39.56	
Ecuador	2015-2020	100	31.11	
El Salvador	2020		12.95	
Ethiopia	2022		3.04	
Estonia	2022		92.28	





Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
Faroe Islands	2020		0	
Fiji	2022		39.79	
Finland	2022		89.74	
France	2022		87.94	
French Guiana	2022		71.78	
Djibouti	2022		11.14	
Georgia	2022		48.76	
Gambia	2022		10.55	
State of Palestine	2020		48.36	
Germany	2022		98.96	
Ghana	2022		11.82	
Gibraltar	2020		100	
Kiribati	2022		33.23	
Greece	2022		89.68	
Greenland	2022		0	
Guyana	2022		32.48	
China, Hong Kong Special Administrative Region	2015-2022		91.12	47.18
Hungary	2015-2022	100	82.05	
Iceland	2022		3.05	
India	2022		20.71	





Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
Iran (Islamic Republic of)	2015-2022	35.16	25.23	
Iraq	2015-2022	71.8	41.96	
Ireland	2022		51.73	
Israel	2022		97.35	
Italy	2022		70.22	
Côte d'Ivoire	2022		16.81	
Japan	2022		91.67	
Kazakhstan	2015-2022	11.26	36.34	0.32
Jordan	2015-2022	89.26	76.83	
Kenya	2022		11.36	
Republic of Korea	2022		99.05	
Kuwait	2022		100	
Kyrgyzstan	2022		19.01	
Lao People's Democratic Republic	2022		10.25	
Latvia	2015-2022	64.83	87.42	50.37
Libya	2022		14.41	
Liechtenstein	2020		98.12	
Lithuania	2015-2022	59.35	96.75	23.59
Luxembourg	2022		98.63	
China, Macao Special Administrative Region	2022		65.31	





Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
Madagascar	2022		10.79	
Malawi	2022		6.33	
Malaysia	2022		89.32	
Mali	2022		6.12	
Malta	2022		1.08	
Mauritius	2022		19.06	
Mexico	2015-2022	45	64.35	33.28
Monaco	2015-2022	100	96.77	
Mongolia	2015-2022	100	26.14	
Republic of Moldova	2015-2022	16.62	46.16	
Montenegro	2022		55.28	
Morocco	2015-2022	40.14	44.63	
Nepal	2022		38.6	
Netherlands	2022		99.79	
New Zealand	2022		84.48	
Nicaragua	2022		31.8	
Niger	2022		8.63	
Nigeria	2022		41.3	
Norway	2022		75.81	
Pakistan	2022		38.11	
Panama	2015	53.4		
Papua New Guinea	2022		5.06	





Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
Paraguay	2022		25.15	
Peru	2015-2022	76.14	48.65	
Philippines	2022		66.59	
Poland	2015-2022	36.22	77.38	71.09
Portugal	2022		87.51	
Guinea-Bissau	2022		19.12	
Puerto Rico	2022		32.51	
Qatar	2022		99.95	
Réunion	2022		74.49	
Romania	2015-2022	62.46	30.09	30.8
Russian Federation	2022		14.74	
San Marino	2022		90.19	
Saudi Arabia	2015-2022	60.05	85.19	
Senegal	2015-2022	63.9	7.8	
Serbia	2022		36.48	
Sierra Leone	2022		15.33	
Singapore	2022		100	
Slovakia	2015-2022	100	81.97	100
Viet Nam	2022		39.92	
Slovenia	2022		65.22	
South Africa	2022		41.29	
Zimbabwe	2015-2022	61.23	54.78	





Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
Spain	2015-2022	100	79.9	
Suriname	2022		23.83	
Eswatini	2022		17.47	
Sweden	2022		96.98	
Switzerland	2022		99.29	
Thailand	2015-2022	8.54	24.61	
Togo	2022		14.96	
Tonga	2022		30.4	
United Arab Emirates	2022		94.96	
Tunisia	2022		72.9	
Türkiye	2015-2022	81.2	64.68	
Turks and Caicos Islands	2022		30.61	
Tuvalu	2022		42.63	
Uganda	2022		3.68	
Ukraine	2022		50.23	
North Macedonia	2022		4.86	
Egypt	2015-2022	32.12	73.84	
United Kingdom of Great Britain and Northern Ireland	2022		97.45	
Channel Islands	2022		93.53	
Isle of Man	2022		84.91	





Country (or area), SDG region, world	Year	6.3.1 Proportion of wastewater flow (safely) treated		
		Total	Domestic	Industrial
United Republic of Tanzania	2015-2022	22.7	7.67	
United States of America	2022		97.85	
Burkina Faso	2022		2.78	
Uzbekistan	2020		32.27	
Samoa	2022		42.86	
Yemen	2022		28.11	
Northern Africa and Western Asia	2022		63.77	
Oceania (excluding Australia and New Zealand)	2022		14.85	
Europe and Northern America	2022		86.48	
Eastern and South- Eastern Asia	2022		62.63	
Central and Southern Asia	2022		23.99	
World	2022		57.79	
Australia and New Zealand	2022		92.22	
Sub-Saharan Africa	2022		20.08	
Latin America and the Caribbean	2022		45.92	





Description of indicators

[1]

6.3.1 Proportion of wastewater flow (safely) treated > Domestic > Total

Proportion of wastewater flows from households that is treated and discharged in compliance with national and local standards (or in the absence of such data, treated by secondary or higher processes). Includes household wastewater transferred through sewers to a wastewater treatment plant ('treated sewage'), released into an on-site treatment system ('treated in-situ') and released into an on-site system for which faecal sludge is emptied and transported to a treatment plant ('treated from on-site').

[2]

6.3.1 Proportion of wastewater flow (safely) treated > Domestic > Total

Proportion of wastewater flows from households that is treated and discharged in compliance with national and local standards (or in the absence of such data, treated by secondary or higher processes). Includes household wastewater transferred through sewers to a wastewater treatment plant ('treated sewage'), released into an on-site treatment system ('treated in-situ') and released into an on-site system for which faecal sludge is emptied and transported to a treatment plant ('treated from on-site').

[3]

6.3.1 Proportion of wastewater flow (safely) treated > Domestic > Total

Proportion of wastewater flows from households that is treated and discharged in compliance with national and local standards (or in the absence of such data, treated by secondary or higher processes). Includes household wastewater transferred through sewers to a wastewater treatment plant ('treated sewage'), released into an on-site treatment system ('treated in-situ') and released into an on-site system for which faecal sludge is emptied and transported to a treatment plant ('treated from on-site').

[4]

6.3.1 Proportion of wastewater flow (safely) treated > Domestic > Total

Proportion of wastewater flows from households that is treated and discharged in compliance with national and local standards (or in the absence of such data, treated by secondary or higher processes). Includes household wastewater transferred through sewers to a wastewater treatment plant ('treated sewage'), released into an on-site treatment system ('treated in-situ') and released into an on-site system for which faecal sludge is emptied and transported to a treatment plant ('treated from on-site').

[5]

6.3.1 Proportion of wastewater flow (safely) treated > Total > Total

Proportion of total wastewater that receives at least some treatment, measured as the ratio of volume treated to volume generated. Includes wastewater generated from households and economic activities (services and industries) as per the International Standard Industrial Classification (ISIC).

6.3.1 Proportion of wastewater flow (safely) treated > Domestic > Total

Proportion of wastewater flows from households that is treated and discharged in compliance with national





and local standards (or in the absence of such data, treated by secondary or higher processes). Includes household wastewater transferred through sewers to a wastewater treatment plant ('treated sewage'), released into an on-site treatment system ('treated in-situ') and released into an on-site system for which faecal sludge is emptied and transported to a treatment plant ('treated from on-site').

6.3.1 Proportion of wastewater flow (safely) treated > Industrial > Total

Proportion of industrial wastewater that receives at least some treatment, measured as the ratio of volume treated to volume generated. Includes wastewater from the following economic activities as per the International Standard Industrial Classification (ISIC): mining and quarrying (05-09); manufacturing (10-33); electricity, gas, steam and air conditioning supply (excluding cooling water) (35); and construction (41-43).





About

Through the UN-Water Integrated Monitoring Initiative for Sustainable Development Goal (SDG) 6, the United Nations seeks to support countries in monitoring water- and sanitation-related issues within the framework of the 2030 Agenda for Sustainable Development, and in compiling country data to report on global progress towards SDG 6. The Initiative brings together the United Nations agencies who are formally mandated to compile country data for the purpose of global reporting on SDG 6.

To learn more about water and sanitation in the 2030 Agenda for Sustainable Development, and the Integrated Monitoring Initiative for SDG 6, visit our website: www.sdg6monitoring.org

Monitoring SDG 6 involves a wide range of stakeholders across different sectors and levels of government. To enable a comprehensive assessment and analysis of the state of water resources and possible development paths, one of the monitoring effort's key objectives is to collate all the information, in support of an integrated management approach that helps reduce institutional fragmentation. For this reason, the Integrated Monitoring Initiative has developed the SDG 6 Data Portal, which brings together data on all the SDG 6 global indicators, as well as other key social, economic and environmental data.

To explore the data and assess progress towards SDG 6, and generate snapshots such as this one, visit our portal: www.sdg6data.org.





















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