

Supplementary Materials

E-Wastes: Bridging the Knowledge Gaps on its Production Budgets at Global Scales, Composition, Recycling and Implications in Sustainability

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Table S1. Global population and e-waste generation during the period of 2015 to 2019. Source of population [1]. Global e-waste for a particular year is obtained by adding e-wastes of all the continents for the very year taken from the source [2].

Year	Population (million)	E-Waste (Mt)	E-Waste Generated Per Capita (kg/inh)
2015	7379.797	46.35	6.3
2016	7464.022	48.20	6.5
2017	7547.859	50.01	6.6
2018	7631.091	51.78	6.8
2019	7713.468	53.60	6.9

Table S2. Continental population and e-waste generation in different years. Sources of population and e-waste generation [1,2].

Year	Population (Million)	E-Waste (kt)	E-Waste Generated Per Capita (kg/inh)	Year	Population (million)	E-Waste (kt)	E-Waste Generated Per Capita (kg/inh)
Asia				Americas			
2015	4433.475	20081	4.5	2015	980.965	11885	12.1
2016	4476.608	21247	4.7	2016	989.670	12228	12.4
2017	4519.04	22436	5	2017	998.175	12544	12.6
2018	4560.667	23628	5.2	2018	1006.51	12835	12.8
2019	4601.731	24896	5.4	2019	1014.72	13120	12.9
Europe				Africa			
2015	743.059	11393	15.3	2015	1182.439	2383	2
2016	744.269	11580	15.6	2016	1213.041	2515	2.1
2017	745.415	11738	15.8	2017	1244.222	2650	2.1
2018	746.419	11878	15.9	2018	1275.921	2780	2.2
2019	747.183	12013	16.1	2019	1308.064	2905	2.2
Oceania							
2015	39.859	611	15.3				
2016	40.436	628	15.5				
2017	41.006	642	15.7				
2018	41.571	654	15.7				
2019	42.128	667	15.8				

Table S3. Annual population and e-waste generation of different countries in the period between 2015 and 2019. Sources of population and e-waste generation [1,2].

Year	Population (Million)	E-Waste (kt)	E-Waste Generated Per Capita (kg/inh)	Year	Population (million)	E-Waste (kt)	E-Waste Generated Per Capita (kg/inh)
China				United States			
2015	1406.848	8045	5.7	2015	320.878	6502	20.3
2016	1414.049	8574	6.1	2016	323.016	6618	20.5
2017	1421.022	9086	6.4	2017	325.085	6721	20.7
2018	1427.648	9589	6.7	2018	327.096	6817	20.8
2019	1433.784	10129	7.1	2019	329.065	6918	21
Germany				United Kingdom			
2015	81.787	1607	19.6	2015	65.860	1483	22.5
2016	82.194	1611	19.6	2016	66.298	1512	22.8
2017	82.658	1612	19.5	2017	66.727	1540	23.1
2018	83.124	1610	19.4	2018	67.142	1568	23.4
2019	83.517	1607	19.2	2019	67.530	1598	23.7
France				Italy			
2015	64.453	1292	20	2015	60.578	1085	17.9
2016	64.668	1314	20.3	2016	60.663	1082	17.8
2017	64.843	1334	20.6	2017	60.674	1077	17.8
2018	64.991	1350	20.8	2018	60.627	1070	17.6
2019	65.130	1362	20.9	2019	60.550	1063	17.6
Canada				Russia			
2015	36.027	703	19.5	2015	144.985	1494	10.3
2016	36.383	718	19.7	2016	145.275	1534	10.6
2017	36.732	732	19.9	2017	145.530	1568	10.8
2018	37.075	745	20.1	2018	145.734	1599	11
2019	37.411	757	20.2	2019	145.872	1631	11.2
Japan				Australia			
2015	127.985	2532	19.8	2015	23.932	509	21.3
2016	127.763	2552	20	2016	24.263	523	21.6
2017	127.503	2560	20.1	2017	24.585	534	21.7
2018	127.202	2564	20.2	2018	24.898	543	21.8
2019	126.860	2569	20.3	2019	25.203	554	22
India				Brazil			
2015	1310.152	1973	1.5	2015	204.472	1813	8.9
2016	1324.517	2225	1.7	2016	206.163	1907	9.2
2017	1338.677	2529	1.9	2017	207.834	1993	9.6
2018	1352.642	2863	2.1	2018	209.469	2070	9.9
2019	1366.418	3230	2.4	2019	211.050	2143	10.2
Mexico				South Africa			
2015	121.858	1065	8.7	2015	55.386	373	6.7
2016	123.333	1106	9	2016	56.208	384	6.8
2017	124.777	1146	9.2	2017	57.010	395	6.9
2018	126.191	1183	9.4	2018	57.793	406	7
2019	127.576	1220	9.6	2019	58.558	416	7.1

References

1. United Nations World Population Prospects 2019. Available online: <https://population.un.org/wpp/Download/Standard/Population/> (accessed on 31 March 2020)
2. ITU. The Global E-Waste Statistics Partnership. 2020. Available online: <https://globalewaste.org/country-sheets/> (accessed on 5 July 2020).