

Environmental sustainability

Country groupings (terciles)

Top third	Middle third	Bottom third
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Three-colour coding is used to visualize partial grouping of countries by indicator. For each indicator countries are divided into three groups of approximately equal size (terciles): the top third, the middle third and the bottom third. Aggregates are colour coded using the same tercile cutoffs. See *Notes* after the table.

	SDG 12.c	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 12.2	SDG 3.9	SDG 3.9		SDG 15.3	SDG 15.5
										Environmental threats			
										Mortality rate attributed to			
	Fossil fuel energy consumption	Renewable energy consumption	Carbon dioxide emissions		Forest area		Fresh water withdrawals	Natural resource depletion	Household and ambient air pollution	Unsafe water, sanitation and hygiene services	Degraded land	Red List Index	
	(% of total energy consumption)	(% of total final energy consumption)	Per capita (tonnes)	(kg per 2010 US\$ of GDP)	(% of total land area ^a)	Change (%)	(% of total renewable water resources)	(% of GNI)	(per 100,000 population)		(% of total land area)	(value)	
HDI rank	2010–2015 ^b	2015	2016	2016	2016	1990/2016	2007–2017 ^b	2012–2017 ^b	2016	2016	2015	2018	
VERY HIGH HUMAN DEVELOPMENT													
1 Norway	57.0	57.8	6.8	0.11	33.2	−0.1	0.8	4.4	9	0.2	..	0.940	
2 Switzerland	50.2	25.3	4.5	0.08	31.8	9.3	3.8	0.0	10	0.1	..	0.974	
3 Ireland	85.3	9.1	7.9	0.12	11.0	63.4	1.5	0.1	12	0.1	..	0.925	
4 Germany	78.9	14.2	8.9	0.21	32.7	1.0	16.5	0.0	16	0.6	..	0.983	
4 Hong Kong, China (SAR)	93.2	0.9	6.2	0.11	..	..	..	..	..	..	..	0.821
6 Australia	89.6	9.2	16.2	0.35	16.3	−2.8	3.2	3.0	8	0.1	..	0.825	
6 Iceland	11.3	77.0	6.2	0.14	0.5	213.7	0.2	0.0	9	0.1	..	0.861	
8 Sweden	25.1	53.2	3.9	0.08	68.9	0.8	1.6	0.2	7	0.2	..	0.993	
9 Singapore	90.6	0.7	8.0	0.10	23.1	−5.5	..	0.0	26	0.1	..	0.860	
10 Netherlands	93.5	5.9	9.2	0.20	11.2	9.4	9.8	0.3	14	0.2	..	0.943	
11 Denmark	64.9	33.2	5.9	0.13	14.7	14.7	10.6	0.4	13	0.3	..	0.972	
12 Finland	40.2	43.2	8.3	0.21	73.1	1.8	..	0.1	7	0.1 ^c	1	0.990	
13 Canada	74.1	22.0	14.9	0.35	38.2	−0.4	1.2	0.7	7	0.4	..	0.969	
14 New Zealand	59.7	30.8	6.5	0.19	38.6	5.1	1.6	0.5	7	0.1	..	0.626	
15 United Kingdom	80.4	8.7	5.6	0.15	13.1	13.8	5.7	0.4	14	0.2	..	0.783	
15 United States	82.4	8.7	15.0	0.29	33.9	2.7	14.5	0.2	13	0.2	..	0.836	
17 Belgium	75.9	9.2	8.1	0.20	22.6	..	32.8	0.0	16	0.3	11	0.986	
18 Liechtenstein	..	63.1	..	..	43.1	6.2	..	..	..	..	..	0.993
19 Japan	93.0	6.3	9.0	0.24	68.5	0.0	18.9	0.0	12	0.2	..	0.781	
20 Austria	65.7	34.4	7.2	0.17	46.9	2.6	4.5	0.1	15	0.1	..	0.894	
21 Luxembourg	80.6	9.0	14.6	0.16	35.7	..	1.3	0.0	12	0.1 ^c	4	0.987	
22 Israel	97.4	3.7	7.9	0.23	7.7	26.7	..	0.1	15	0.2	..	0.758	
22 Korea (Republic of)	81.0	2.7	11.6	0.33	63.4	−4.1	..	0.0	20	1.8	..	0.733	
24 Slovenia	61.1	20.9	6.5	0.23	62.0	5.1	2.8	0.0	23	0.1 ^c	5	0.937	
25 Spain	73.0	16.3	5.1	0.16	36.9	33.6	28.7	0.0	10	0.2	18	0.843	
26 Czechia	77.7	14.8	9.5	0.31	34.6	1.6	12.4	0.1	30	0.2	6	0.971	
26 France	46.5	13.5	4.5	0.12	31.2	18.5	13.9	0.0	10	0.3	12	0.873	
28 Malta	97.8	5.4	3.1	0.09	1.1	0.0	83.0	..	20	0.1 ^c	..	0.883	
29 Italy	79.9	16.5	5.4	0.16	31.8	23.2	17.9	0.0	15	0.1	13	0.902	
30 Estonia	13.1	27.5	12.4	0.47	51.3	−1.4	13.4	0.2	25	0.1 ^c	..	0.986	
31 Cyprus	92.9	9.9	5.4	0.24	18.7	7.2	28.0	0.0	20	0.3	19	0.983	
32 Greece	82.6	17.2	5.9	0.25	31.7	23.8	14.0	0.1	28	0.1 ^c	16	0.848	
32 Poland	90.3	11.9	7.7	0.31	30.9	6.5	17.5	0.4	38	0.1	5	0.971	
34 Lithuania	68.0	29.0	3.7	0.14	34.8	12.3	11.3	..	34	0.1	3	0.989	
35 United Arab Emirates	86.1	0.1	20.5	0.31	4.6	32.1	..	4.0	55	0.1 ^c	1	0.863	
36 Andorra	..	19.7	..	..	34.0	0.0	..	..	..	..	..	0.917
36 Saudi Arabia	99.9	0.0	16.3	0.33	0.5	0.0	871.7	7.9	84	0.1	4	0.908	
36 Slovakia	64.1	13.4	5.6	0.19	40.4	1.0	1.1	0.0	34	0.1 ^c	4	0.963	
39 Latvia	56.7	38.1	3.4	0.15	54.0	5.8	0.6	0.0	41	0.1 ^c	13	0.988	
40 Portugal	77.0	27.2	4.6	0.17	34.6	−7.8	11.8	0.1	10	0.2	32	0.854	
41 Qatar	100.0	0.0	29.8	0.27	0.0	0.0	..	7.4	47	0.1 ^c	6	0.826	
42 Chile	74.6	24.9	4.7	0.22	24.3	18.2	..	6.5	25	0.2	1	0.755	
43 Brunei Darussalam	100.0	0.0	15.1	0.21	72.1	−8.0	..	10.9	13	0.1 ^c	..	0.825	
43 Hungary	69.5	15.6	4.5	0.18	22.9	14.3	4.9	0.2	39	0.2	13	0.930	
45 Bahrain	99.4	0.0	20.8	0.49	0.8	145.9	132.2	3.2	40	0.1 ^c	..	0.844	
46 Croatia	70.7	33.1	3.8	0.19	34.4	3.8	0.6	0.3	35	0.1	..	0.901	
47 Oman	100.0	0.0	14.1	0.37	0.0	0.0	..	18.1	54	0.1 ^c	7	0.885	
48 Argentina	87.7	10.0	4.4	0.24	9.8	−22.9	4.3	1.0	27	0.4	39	0.861	
49 Russian Federation	92.1	3.3	9.9	0.45	49.8	0.8	1.5	5.8	49	0.1	6	0.955	
50 Belarus	92.4	6.8	5.6	0.34	42.6	11.1	2.5	0.6	61	0.1	1	0.972	

	SDG 12.c	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 12.2	SDG 3.9	SDG 3.9	SDG 15.3	SDG 15.5
										Environmental threats		
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	Fossil fuel energy consumption	Renewable energy consumption	Carbon dioxide emissions		Forest area		Fresh water withdrawals	Natural resource depletion	Household and ambient air pollution	Unsafe water, sanitation and hygiene services	Degraded land	Red List Index
	(% of total energy consumption)	(% of total final energy consumption)	Per capita (tonnes)	(kg per 2010 US\$ of GDP)	(% of total land area)	Change (%)	(% of total renewable water resources)	(% of GNI)	(per 100,000 population)		(% of total land area)	(value)
HDI rank	2010–2015 ^a	2015	2016	2016	2016	1990/2016	2007–2017 ^b	2012–2017 ^b	2016	2016	2015	2018
50 Kazakhstan	99.2	1.6	12.9	0.56	1.2	–3.3	19.8	8.7	63	0.4	36	0.871
52 Bulgaria	71.0	17.7	5.7	0.33	35.4	17.6	26.4	0.7	62	0.1	..	0.944
52 Montenegro	64.7	43.0	3.4	0.22	61.5	32.1	..	0.5	79	0.1 ^c	6	0.813
52 Romania	72.5	23.7	3.4	0.17	30.1	8.4	3.0	0.5	59	0.4	2	0.949
55 Palau	..	0.0	..	..	87.6	..	..	..	..	..	..	0.732
56 Barbados	..	2.8	..	..	14.7	0.0	..	0.0	31	0.2	..	0.914
57 Kuwait	93.7	0.0	22.8	0.33	0.4	81.2	..	8.1	104	0.1 ^c	64	0.845
57 Uruguay	46.3	58.0	1.8	0.09	10.7	134.1	..	1.2	18	0.4	26	0.832
59 Turkey	86.8	13.4	4.2	0.18	15.4	22.8	27.8	0.2	47	0.3	9	0.875
60 Bahamas	..	1.2	..	..	51.4	0.0	..	0.0	20	0.1	..	0.702
61 Malaysia	96.6	5.2	7.0	0.28	67.6	–0.7	..	3.1	47	0.4	16	0.677
62 Seychelles	..	1.4	..	..	88.4	0.0	..	0.0	49	0.2	12	0.664
HIGH HUMAN DEVELOPMENT												
63 Serbia	83.9	21.2	5.1	0.49	31.1	9.9	2.9	0.4	62	0.7	6	0.958
63 Trinidad and Tobago	99.9	0.3	15.3	0.52	46.0	–1.9	8.8	6.9	39	0.1	..	0.813
65 Iran (Islamic Republic of)	99.0	0.9	7.1	0.39	6.6	17.8	..	4.6	51	1.0	23	0.837
66 Mauritius	84.5	11.5	3.2	0.17	19.0	–6.0	..	0.0	38	0.6	27	0.396
67 Panama	80.7	21.2	2.5	0.12	61.9	–8.7	0.9	0.1	26	1.9	14	0.733
68 Costa Rica	49.9	38.7	1.5	0.10	54.6	8.7	2.8	0.3	23	0.9	9	0.818
69 Albania	61.4	38.6	1.3	0.12	28.1	–2.3	..	1.1	68	0.2	8	0.844
70 Georgia	72.2	28.7	2.2	0.26	40.6	2.6	2.9	0.7	102	0.2	6	0.864
71 Sri Lanka	50.5	52.9	1.0	0.09	32.9	–9.7	..	0.1	80	1.2	36	0.564
72 Cuba	85.6	19.3	2.1	0.10	31.3	63.2	18.3	0.5	50	1.0	..	0.651
73 Saint Kitts and Nevis	..	1.6	..	..	42.3	0.0	51.3	..	..	..	..	0.731
74 Antigua and Barbuda	..	0.0	..	..	22.3	–4.9	8.5	..	30	0.1	..	0.888
75 Bosnia and Herzegovina	77.5	40.8	6.5	0.58	42.7	–1.1	0.9	0.4	80	0.1	4	0.905
76 Mexico	90.4	9.2	3.6	0.21	33.9	–5.5	18.6	2.2	37	1.1	47	0.677
77 Thailand	79.8	22.9	3.5	0.23	32.2	17.3	13.1	1.6	61	3.5	21	0.795
78 Grenada	..	10.9	..	..	50.0	0.0	7.1	..	45	0.3	..	0.763
79 Brazil	59.1	43.8	2.0	0.15	58.9	–9.9	0.7	1.9	30	1.0	27	0.902
79 Colombia	76.7	23.6	1.8	0.14	52.7	–9.2	0.5	3.4	37	0.8	7	0.737
81 Armenia	74.6	15.8	1.7	0.21	11.7	–0.8	36.7	2.9	55	0.2	2	0.846
82 Algeria	100.0	0.1	3.1	0.23	0.8	17.8	77.8	9.3	50	1.9	1	0.904
82 North Macedonia	79.4	24.2	3.3	0.26	39.6	10.3	8.6	1.2	82	0.1	..	0.972
82 Peru	79.6	25.5	1.7	0.14	57.7	–5.3	0.7	5.5	64	1.3	..	0.724
85 China	87.7	12.4	6.4	0.47	22.4	33.6	20.9	0.9	113	0.6	27	0.744
85 Ecuador	86.9	13.8	2.1	0.21	50.2	–5.0	..	2.9	25	0.6	30	0.679
87 Azerbaijan	98.4	2.3	3.2	0.21	14.1	37.7	36.9	13.4	64	1.1	..	0.912
88 Ukraine	75.3	4.1	4.4	0.62	16.7	4.4	5.6	1.0	71	0.3	25	0.946
89 Dominican Republic	86.6	16.5	2.2	0.15	41.7	82.5	30.4	1.6	43	2.2	..	0.734
89 Saint Lucia	..	2.1	..	..	33.2	–7.2	14.3	0.0	30	0.6	..	0.842
91 Tunisia	88.9	12.6	2.2	0.21	6.8	63.5	103.3	1.6	56	1.0	13	0.974
92 Mongolia	93.2	3.4	5.9	0.53	8.0	–0.6	1.3	22.8	156	1.3	13	0.948
93 Lebanon	97.6	3.6	3.5	0.30	13.4	4.9	40.2	0.0	51	0.8	..	0.961
94 Botswana	74.7	28.9	3.2	0.20	18.9	–21.7	1.7	0.5	101	11.8	51	0.979
94 Saint Vincent and the Grenadines	..	5.8	..	..	69.2	8.0	7.9	0.0	48	1.3	..	0.772
96 Jamaica	81.0	16.8	2.5	0.31	30.9	–2.8	12.5	0.3	25	0.6	..	0.724
96 Venezuela (Bolivarian Republic of)	88.4	12.8	4.3	0.33	52.7	–10.6	1.7	1.0	35	1.4	15	0.825
98 Dominica	..	7.8	..	..	57.4	–13.9	10.0	0.0	..	..	..	0.672
98 Fiji	..	31.3	..	..	55.9	7.3	..	0.8	99	2.9	..	0.669
98 Paraguay	33.7	61.7	0.9	0.11	37.7	–29.1	0.6	1.6	57	1.5	52	0.948
98 Suriname	76.3	24.9	3.4	0.25	98.3	–0.7	..	28.1	57	2.0	21	0.983
102 Jordan	97.6	3.2	2.5	0.31	1.1	–0.6	96.4	0.1	51	0.6	4	0.963
103 Belize	..	35.0	..	..	59.7	–15.8	..	0.5	69	1.0	81	0.743
104 Maldives	..	1.0	..	..	3.3	0.0	15.7	0.0	26	0.3	..	0.843
105 Tonga	..	1.9	..	..	12.5	0.0	..	0.0	73	1.4	..	0.725
106 Philippines	62.4	27.5	1.1	0.16	27.8	26.3	17.8	0.7	185	4.2	38	0.644
107 Moldova (Republic of)	88.7	14.3	1.9	0.45	12.6	29.6	8.7	0.2	78	0.1	29	0.969

DASHBOARD 4 ENVIRONMENTAL SUSTAINABILITY

	SDG 12.c	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 12.2	SDG 3.9	SDG 15.3			SDG 15.5
										Environmental threats			
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	Fossil fuel energy consumption	Renewable energy consumption	Carbon dioxide emissions		Forest area		Fresh water withdrawals	Natural resource depletion	Household and ambient air pollution	Unsafe water, sanitation and hygiene services	Degraded land	Red List Index	
	(% of total energy consumption)	(% of total final energy consumption)	Per capita (tonnes)	(kg per 2010 US\$ of GDP)	(% of total land area ^a)	Change (%)	(% of total renewable water resources)	(% of GNI)	(per 100,000 population)		(% of total land area)	(value)	
HDI rank	2010–2015 ^b	2015	2016	2016	2016	1990/2016	2007–2017 ^b	2012–2017 ^b	2016	2016	2015	2018	
108 Turkmenistan	..	0.0	12.2	0.79	8.8	0.0	..	..	79	4.0	22	0.975
108 Uzbekistan	97.7	3.0	2.7	0.45	7.5	5.4	108.1	9.4	81	0.4	29	0.969	
110 Libya	99.1	2.0	6.7	0.96	0.1	0.0	822.9	6.7	72	0.6	..	0.969	
111 Indonesia	66.1	36.9	1.7	0.17	49.9	–23.8	11.0	1.9	112	7.1	21	0.754	
111 Samoa	..	34.3	..	..	60.4	31.5	..	0.0	85	1.5	..	0.806
113 South Africa	86.8	17.2	7.4	0.62	7.6	0.0	30.2	2.7	87	13.7	78	0.772	
114 Bolivia (Plurinational State of)	84.2	17.5	1.8	0.28	50.3	–13.2	0.4	5.8	64	5.6	18	0.870	
115 Gabon	22.8	82.0	1.7	0.10	90.0	5.5	..	10.5	76	20.6	16	0.961	
116 Egypt	97.9	5.7	2.2	0.21	0.1	67.3	114.1	4.0	109	2.0	1	0.909	
MEDIUM HUMAN DEVELOPMENT													
117 Marshall Islands	..	11.2	..	..	70.2	..	..	..	..	..	..	0.839
118 Viet Nam	69.8	35.0	2.0	0.35	48.1	67.1	..	1.0	64	1.6	31	0.733	
119 Palestine, State of	..	10.5	..	..	1.5	1.0	42.8	..	..	..	15	0.780
120 Iraq	96.0	0.8	3.8	0.24	1.9	3.4	42.9	10.9	75	3.0	26	0.799	
121 Morocco	88.5	11.3	1.6	0.22	12.6	13.5	35.7	0.3	49	1.9	19	0.887	
122 Kyrgyzstan	75.5	23.3	1.5	0.47	3.3	–24.8	..	6.3	111	0.8	24	0.984	
123 Guyana	..	25.3	..	..	83.9	–0.9	0.5	13.3	108	3.6	16	0.922
124 El Salvador	48.4	24.4	1.1	0.14	12.6	–30.9	..	1.0	42	2.0	16	0.826	
125 Tajikistan	46.0	44.7	0.6	0.20	3.0	1.9	..	3.5	129	2.7	97	0.985	
126 Cabo Verde	..	26.6	..	..	22.5	57.3	..	0.5	99	4.1	17	0.890
126 Guatemala	37.4	63.7	1.0	0.14	32.7	–26.2	..	1.7	74	6.3	24	0.721	
126 Nicaragua	40.7	48.2	0.8	0.17	25.9	–31.0	0.9	2.9	56	2.2	..	0.852	
129 India	73.6	36.0	1.6	0.26	23.8	10.8	33.9	1.0	184	18.6	30	0.678	
130 Namibia	66.7	26.5	1.7	0.17	8.3	–21.9	..	2.6	145	18.3	19	0.966	
131 Timor-Leste	..	18.2	..	..	45.4	–30.1	..	29.7	140	9.9	..	0.885
132 Honduras	52.5	51.5	1.0	0.23	40.0	–45.0	..	1.6	61	3.6	..	0.743	
132 Kiribati	..	4.3	..	..	15.0	0.0	..	0.0	140	16.7	..	0.760
134 Bhutan	..	86.9	..	..	72.5	35.1	0.4	2.7	124	3.9	10	0.799
135 Bangladesh	73.8	34.7	0.5	0.14	11.0	–4.5	2.9	0.6	149	11.9	65	0.760	
135 Micronesia (Federated States of)	..	1.2	..	..	91.9	..	..	..	152	3.6	..	0.686
137 Sao Tome and Principe	..	41.1	..	..	55.8	–4.3	1.9	0.0	162	11.4	..	0.785
138 Congo	40.5	62.4	0.5	0.10	65.4	–1.8	..	31.4	131	38.7	10	0.983	
138 Eswatini (Kingdom of)	..	66.1	..	..	34.3	25.1	..	1.7	137	27.9	13	0.817
140 Lao People's Democratic Republic	..	59.3	..	..	82.1	7.4	..	6.3	188	11.3	..	0.810
141 Vanuatu	..	36.1	..	..	36.1	0.0	..	0.0	136	10.4	..	0.662
142 Ghana	52.5	41.4	0.4	0.12	41.2	8.6	..	11.4	204	18.8	14	0.844	
143 Zambia	10.6	88.0	0.2	0.06	65.2	–8.2	..	8.3	127	34.9	7	0.879	
144 Equatorial Guinea	..	7.8	..	..	55.5	–16.3	..	22.9	178	22.3	19	0.813
145 Myanmar	44.3	61.5	0.4	0.08	43.6	–27.3	..	2.7	156	12.6	23	0.806	
146 Cambodia	30.6	64.9	0.6	0.17	52.9	–27.9	..	1.0	150	6.5	33	0.816	
147 Kenya	17.4	72.7	0.3	0.11	7.8	–5.8	13.1	2.5	78	51.2	40	0.797	
147 Nepal	15.5	85.3	0.3	0.13	25.4	–24.7	..	0.9	194	19.8	..	0.825	
149 Angola	48.3	49.6	0.7	0.12	46.3	–5.3	..	12.8	119	48.8	20	0.934	
150 Cameroon	38.3	76.5	0.3	0.08	39.3	–23.5	..	2.5	208	45.2	0	0.836	
150 Zimbabwe	29.1	81.8	0.7	0.35	35.5	–38.0	17.9	3.1	133	24.6	36	0.789	
152 Pakistan	61.6	46.5	0.8	0.17	1.9	–43.5	74.4	0.8	174	19.6	5	0.859	
153 Solomon Islands	..	63.3	..	..	77.9	–6.2	..	20.9	137	6.2	..	0.767
LOW HUMAN DEVELOPMENT													
154 Syrian Arab Republic	97.8	0.5	1.5	0.77	2.7	32.1	..	..	75	3.7	..	0.943
155 Papua New Guinea	..	52.5	..	..	74.1	–0.2	..	14.0	152	16.3	21	0.839
156 Comoros	..	45.3	..	..	19.7	–25.3	..	1.8	172	50.7	22	0.764
157 Rwanda	..	86.7	..	..	19.7	53.1	..	5.4	121	19.3	12	0.848
158 Nigeria	18.9	86.6	0.5	0.09	7.2	–61.8	4.4	4.4	307	68.6	32	0.874	
159 Tanzania (United Republic of)	14.4	85.7	0.2	0.08	51.6	–18.3	..	2.2	139	38.4	..	0.689	
159 Uganda	..	89.1	..	..	9.7	–59.3	1.1	14.1	156	31.6	22	0.751
161 Mauritania	..	32.2	..	..	0.2	–46.7	..	12.4	169	38.6	3	0.977
162 Madagascar	..	70.2	..	..	21.4	–9.1	..	0.8	160	30.2	30	0.788
163 Benin	36.7	50.9	0.5	0.27	37.8	–26.0	..	1.8	205	59.7	53	0.910	

	SDG 12.c	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 12.2	SDG 3.9	SDG 3.9		SDG 15.3	SDG 15.5
										Environmental threats			
										Mortality rate attributed to			
	Fossil fuel energy consumption	Renewable energy consumption	Carbon dioxide emissions		Forest area		Fresh water withdrawals	Natural resource depletion	Household and ambient air pollution	Unsafe water, sanitation and hygiene services	Degraded land	Red List Index	
	(% of total energy consumption)	(% of total final energy consumption)	Per capita (tonnes)	(kg per 2010 US\$ of GDP)	(% of total land area ^a)	Change (%)	(% of total renewable water resources)	(% of GNI)	(per 100,000 population)		(% of total land area)	(value)	
HDI rank	2010–2015 ^b	2015	2016	2016	2016	1990/2016	2007–2017 ^b	2012–2017 ^b	2016	2016	2015	2018	
164 Lesotho	..	52.1	..	..	1.6	25.0	..	5.1	178	44.4	20	0.953
165 Côte d'Ivoire	26.5	64.5	0.4	0.13	32.7	1.7	1.4	2.2	269	47.2	14	0.888	
166 Senegal	53.9	42.7	0.5	0.23	42.8	–11.9	..	1.0	161	23.9	6	0.943	
167 Togo	17.8	71.3	0.3	0.19	3.1	–75.4	..	13.4	250	41.6	12	0.854	
168 Sudan	31.7	61.6	0.5	0.11	..	..	71.2	2.8	185	17.3	12	0.933
169 Haiti	22.0	76.1	0.3	0.18	3.5	–17.1	10.3	1.2	184	23.8	..	0.721	
170 Afghanistan	..	18.4	..	..	2.1	0.0	..	0.3	211	13.9	8	0.837
171 Djibouti	..	15.4	..	..	0.2	0.0	..	0.7	159	31.3	..	0.816
172 Malawi	..	83.6	..	..	33.2	–19.7	..	8.2	115	28.3	17	0.808
173 Ethiopia	6.6	92.2	0.1	0.07	12.5	..	8.7	9.4	144	43.7	29	0.842	
174 Gambia	..	51.5	..	..	48.4	10.8	..	5.7	237	29.7	14	0.981
174 Guinea	..	76.3	..	..	25.8	–12.9	..	13.0	243	44.6	11	0.894
176 Liberia	..	83.8	..	..	43.1	–15.8	..	19.2	170	41.5	29	0.887
177 Yemen	98.5	2.3	0.3	0.15	1.0	0.0	..	0.2	194	10.2	..	0.884	
178 Guinea-Bissau	..	86.9	..	..	69.8	–11.5	..	11.4	215	35.3	15	0.960
179 Congo (Democratic Republic of the)	5.4	95.8	0.0	0.03	67.2	–5.0	..	23.2	164	59.8	6	0.891	
180 Mozambique	12.6	86.4	0.3	0.23	48.0	–13.0	0.7	1.3	110	27.6	..	0.825	
181 Sierra Leone	..	77.7	..	..	43.1	–0.3	..	12.9	324	81.3	18	0.911
182 Burkina Faso	..	74.2	..	..	19.3	–22.7	..	15.0	206	49.6	19	0.988
182 Eritrea	23.1	79.8	0.2	0.08	14.9	–7.1	..	..	174	45.6	35	0.907
184 Mali	..	61.5	..	..	3.8	–30.7	..	9.5	209	70.7	3	0.981
185 Burundi	..	95.7	..	..	10.9	–2.9	..	15.7	180	65.4	29	0.921
186 South Sudan	72.2	39.1	0.2	0.08	..	..	1.3	14.0	165	63.3	..	0.931
187 Chad	..	89.4	..	..	3.8	–29.2	..	13.1	280	101.0	34	0.920
188 Central African Republic	..	76.6	..	..	35.6	–1.8	..	0.1	212	82.1	13	0.943
189 Niger	24.1	78.9	0.1	0.11	0.9	–41.9	5.1	11.9	252	70.8	7	0.936	
OTHER COUNTRIES OR TERRITORIES													
.. Korea (Democratic People's Rep. of)	62.1	23.1	1.0	0.25	40.7	–40.2	..	..	207	1.4	..	0.899
.. Monaco	..	..	..	..	..	..	..	..	..	..	..	0.759
.. Nauru	..	0.1	..	..	0.0	0.0	..	..	..	..	..	0.772
.. San Marino	..	..	..	..	0.0	0.0	..	..	..	..	..	0.992
.. Somalia	..	94.3	..	..	10.0	–24.1	..	8.9	213	86.6	23	0.900
.. Tuvalu	..	0.0	..	..	33.3	0.0	..	..	..	..	..	0.840
Human development groups													
Very high human development	82.4	10.5	9.6	0.25	32.9	1.2	6.4	0.7	25	0.3	..	—	
High human development	84.9	15.8	4.7	0.36	31.6	–4.3	5.9	1.5	94	1.9	25	—	
Medium human development	69.0	39.8	1.3	0.23	30.9	–7.7	..	2.2	164	18.0	23	—	
Low human development	..	81.0	..	..	24.9	–12.0	..	6.4	202	46.5	16	—
Developing countries	80.5	23.5	3.1	0.32	27.1	–6.4	..	2.1	133	14.0	23	—	
Regions													
Arab States	95.5	4.0	4.4	0.29	1.8	–1.9	76.1	6.6	101	7.0	7	—	
East Asia and the Pacific	..	15.9	..	..	29.8	3.9	..	1.1	115	2.2	..	—
Europe and Central Asia	87.0	9.1	4.6	0.29	9.2	8.6	20.3	2.1	67	0.5	28	—	
Latin America and the Caribbean	74.5	27.7	2.6	0.19	46.2	–9.6	1.5	2.3	40	1.7	28	—	
South Asia	76.9	31.1	1.6	0.26	14.7	7.8	25.0	1.3	174	17.1	23	—	
Sub-Saharan Africa	39.2	70.2	0.8	0.25	28.1	–11.9	..	6.1	187	47.8	22	—	
Least developed countries	..	73.2	..	..	29.1	–11.3	..	5.7	167	34.3	16	—
Small island developing states	..	17.8	..	..	69.4	1.3	..	1.5	92	8.9	..	—
Organisation for Economic Co-operation and Development	79.6	12.0	9.0	0.24	31.4	1.6	9.1	0.4	19	0.4	..	—	
World	80.6	18.2	4.3	0.27	31.2	–3.0	7.7	1.1	114	11.7	20	—	

NOTES

Three-colour coding is used to visualize partial grouping of countries and aggregates by indicator. For each indicator countries are divided into three groups of approximately equal size (terciles): the top third, the middle third and the bottom third. Aggregates are colour coded using the same tercile cutoffs. See *Technical note 6* at http://hdr.undp.org/sites/default/files/hdr2019_technical_notes.pdf for details about partial grouping in this table.

- a This column is intentionally left without colour because it is meant to provide context for the indicator on change in forest area.
- b Data refer to the most recent year available during the period specified.
- c Less than 0.1.

DEFINITIONS

Fossil fuel energy consumption: Percentage of total energy consumption that comes from fossil fuels, which consist of coal, oil, petroleum and natural gas products.

Renewable energy consumption: Share of renewable energy in total final energy consumption. Renewable sources include hydroelectric, geothermal, solar, tides, wind, biomass and biofuels.

Carbon dioxide emissions: Human-originated carbon dioxide emissions stemming from the burning of fossil fuels, gas flaring and the production of cement. Carbon dioxide emitted by forest biomass through depletion of forest areas is included. Data are expressed in tonnes per capita (based on midyear population) and in kilograms per unit of gross domestic product (GDP) in constant 2010 US dollars.

Forest area: Land spanning more than 0.5 hectare with trees taller than 5 metres and a canopy cover of more than 10 percent or trees able to reach these thresholds in situ. It excludes land predominantly under agricultural or urban land use, tree stands in agricultural production systems (for example, in fruit plantations and agroforestry systems) and trees in urban parks and gardens. Areas under reforestation that have not yet reached but are expected to reach a canopy cover of 10 percent and a tree height of 5 metres are included, as are temporarily unstocked

areas resulting from human intervention or natural causes that are expected to regenerate.

Fresh water withdrawals: Total fresh water withdrawn, expressed as a percentage of total renewable water resources.

Natural resource depletion: Monetary valuation of energy, mineral and forest depletion, expressed as a percentage of gross national income (GNI).

Mortality rate attributed to household and ambient air pollution: Deaths resulting from exposure to ambient (outdoor) air pollution and household (indoor) air pollution from solid fuel use for cooking, expressed per 100,000 population. Ambient air pollution results from emissions from industrial activity, households, cars and trucks.

Mortality rate attributed to unsafe water, sanitation and hygiene services: Deaths attributable to unsafe water, sanitation and hygiene focusing on inadequate wash services, expressed per 100,000 population.

Degraded land: Rain-fed cropland, irrigated cropland, or range, pasture, forest and woodlands

that have experienced the reduction or loss of biological or economic productivity and complexity resulting from a combination of pressures, including land use and management practices.

Red List Index: Measure of the aggregate extinction risk across groups of species. It is based on genuine changes in the number of species in each category of extinction risk on the International Union for Conservation of Nature Red List of Threatened Species. It ranges from 0, all species categorized as extinct, to 1, all species categorized as least concern.

MAIN DATA SOURCES

- Columns 1, 2, 5 and 8:** World Bank (2019a).
- Columns 3, 4, 11 and 12:** United Nations Statistics Division (2019a).
- Column 6:** HDRO calculations based on data on forest area from World Bank (2019a).
- Column 7:** FAO (2019b).
- Columns 9 and 10:** WHO (2019).