

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.

HDI rank	SDG 12.c	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 3.9		SDG 15.5
	Fossil fuel energy consumption (% of total energy consumption) 2010–2015 ^a	Renewable energy consumption (% of total final energy consumption) 2015	Carbon dioxide emissions		Forest area		Fresh water withdrawals (% of total renewable water resources) 2006–2016 ^b	Environmental threats		Red List Index (value) 2017
			Per capita (tonnes) 2014	(kg per 2011 PPP \$ of GDP) 2014	(% of total land area) 2015	Change (%) 1990/2015		Household and ambient air pollution (per 100,000 population) 2016	Unsafe water, sanitation and hygiene services 2016	
	Mortality rate attributed to									
VERY HIGH HUMAN DEVELOPMENT										
1 Norway	58.5	57.8	9.3	0.15	33.2	-0.2	0.8	8.6	0.2	0.943
2 Switzerland	50.1	25.3	4.3	0.08	31.7	9.0	3.7	10.1	0.1	0.982
3 Australia	93.4	9.2	15.4	0.35	16.2	-2.9	3.4	8.4	0.1 ^c	0.828
4 Ireland	85.4	9.1	7.3	0.15	10.9	62.2	1.5	11.9	0.1 ^c	0.917
5 Germany	79.8	14.2	8.9	0.20	32.7	1.1	21.4	16.0	0.6	0.983
6 Iceland	11.5	77.0	6.1	0.15	0.5	205.6	0.2	8.7	0.1	0.872
7 Hong Kong, China (SAR)	93.2	0.9	6.4	0.12	..	..	..	..	..	0.823
7 Sweden	26.8	53.2	4.5	0.10	68.9	0.8	1.5	7.2	0.2	0.992
9 Singapore	97.5	0.7	10.3	0.13	23.1	-5.5	..	25.9	0.1 ^c	0.862
10 Netherlands	91.4	5.9	9.9	0.22	11.2	9.2	11.8	13.7	0.2	0.943
11 Denmark	65.7	33.2	5.9	0.13	14.6	13.8	10.6	13.2	0.3	0.972
12 Canada	73.6	22.0	15.1	0.35	38.2	-0.3	1.3	7.0	0.4	0.971
13 United States	82.8	8.7	16.5	0.32	33.9	2.7	13.6	13.3	0.2	0.840
14 United Kingdom	80.7	8.7	6.5	0.17	13.0	13.2	5.5	13.8	0.2	0.789
15 Finland	39.7	43.2	8.7	0.22	73.1	1.8	6.0	7.2	0.1 ^c	0.989
16 New Zealand	59.4	30.8	7.7	0.22	38.6	5.1	1.6	7.2	0.1	0.634
17 Belgium	75.8	9.2	8.3	0.20	22.6	..	32.8	15.7	0.3	0.986
17 Liechtenstein	..	63.1	1.2	..	43.1	6.2	..	..	..	0.993
19 Japan	93.7	6.3	9.5	0.26	68.5	0.0	18.9	11.9	0.2	0.785
20 Austria	66.0	34.4	6.9	0.16	46.9	2.5	4.5	15.3	0.1	0.896
21 Luxembourg	80.9	9.0	17.4	0.19	33.5	..	1.2	11.6	0.1 ^c	0.987
22 Israel	96.3	3.7	7.9	0.25	7.6	25.0	..	15.4	0.2	0.748
22 Korea (Republic of)	82.0	2.7	11.6	0.35	63.4	-3.9	..	20.5	1.8	0.782
24 France	46.6	13.5	4.6	0.12	31.0	17.7	14.1	9.7	0.3	0.875
25 Slovenia	60.9	20.9	6.2	0.22	62.0	5.1	3.6	22.6	0.1 ^c	0.937
26 Spain	72.9	16.3	5.0	0.16	36.8	33.2	33.0	9.9	0.2	0.845
27 Czechia	76.0	14.8	9.2	0.31	34.5	1.5	12.6	29.6	0.2	0.971
28 Italy	79.2	16.5	5.3	0.16	31.6	22.5	28.1	15.0	0.1	0.917
29 Malta	97.8	5.4	5.4	0.17	1.1	0.0	44.4	20.2	0.1 ^c	0.883
30 Estonia	12.3	27.5	14.8	0.55	52.7	1.2	13.4	25.0	0.1 ^c	0.984
31 Greece	85.1	17.2	6.2	0.26	31.5	22.9	14.0	27.6	0.1 ^c	0.848
32 Cyprus	92.9	9.9	5.3	0.24	18.7	7.2	28.4	20.1	0.3	0.983
33 Poland	89.9	11.9	7.5	0.31	30.8	6.3	19.0	37.9	0.1 ^c	0.970
34 United Arab Emirates	99.8	0.1	23.3	0.36	3.9	31.7	..	54.7	0.1 ^c	0.866
35 Andorra	..	19.7	5.8	..	34.0	0.0	..	..	..	0.919
35 Lithuania	68.0	29.0	4.4	0.17	34.8	12.1	2.6	34.0	0.1 ^c	0.988
37 Qatar	100.0	0.0	45.4	0.38	0.0	0.0	..	47.4	0.1 ^c	0.833
38 Slovakia	64.6	13.4	5.7	0.21	40.3	1.0	1.1	33.5	0.1 ^c	0.962
39 Brunei Darussalam	100.0	0.0	22.1	0.29	72.1	-8.0	..	13.3	0.1 ^c	0.828
39 Saudi Arabia	100.0	0.0	19.5	0.39	0.5	0.0	943.3	83.7	0.1 ^c	0.908
41 Latvia	56.7	38.1	3.5	0.16	54.0	5.8	0.7	41.3	0.1 ^c	0.988
41 Portugal	76.9	27.2	4.3	0.17	34.7	-7.5	11.8	9.8	0.2	0.856
43 Bahrain	100.0	0.0	23.4	0.53	0.8	144.1	..	40.1	0.1 ^c	0.849
44 Chile	73.3	24.9	4.7	0.21	23.9	16.2	3.8	25.3	0.2	0.763
45 Hungary	69.3	15.6	4.3	0.18	22.9	14.0	4.9	38.8	0.2	0.929
46 Croatia	70.7	33.1	4.0	0.20	34.3	3.8	0.6	35.5	0.1	0.899
47 Argentina	88.5	10.0	4.7	0.25	9.9	-22.1	4.3	26.6	0.4	0.861
48 Oman	100.0	0.0	15.4	0.38	0.0	0.0	..	53.9	0.1 ^c	0.885
49 Russian Federation	90.2	3.3	11.9	0.46	49.8	0.8	1.3	49.4	0.1	0.956
50 Montenegro	64.7	43.0	3.6	0.24	61.5	32.1	..	78.6	0.1 ^c	0.816

HDI rank	SDG 12.c	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 3.9		SDG 15.5	
	Fossil fuel energy consumption (% of total energy consumption)	Renewable energy consumption (% of total final energy consumption)	Carbon dioxide emissions		Forest area		Fresh water withdrawals (% of total renewable water resources)	Environmental threats		Red List Index (value)	
			Per capita (tonnes)	(kg per 2011 PPP \$ of GDP)	(% of total land area ^a)	Change (%)		Household and ambient air pollution (per 100,000 population)	Unsafe water, sanitation and hygiene services (per 100,000 population)		
	2010–2015 ^b	2015					2014			2014	2015	1990/2015	2006–2016^{b}	2016	2016	2017
51	Bulgaria	71.0	17.7	5.9	0.36	35.2	17.1	26.4	61.8	0.1	0.941
52	Romania	72.8	23.7	3.5	0.18	29.8	7.3	3.0	59.3	0.4	0.947
53	Belarus	92.4	6.8	6.7	0.37	42.5	10.9	2.6	60.7	0.1 ^c	0.970
54	Bahamas	..	1.2	6.3	0.22	51.4	0.0	..	19.9	0.1 ^c	0.703
55	Uruguay	46.8	58.0	2.0	0.10	10.5	131.3	..	17.5	0.4	0.833
56	Kuwait	100.0	0.0	25.2	0.36	0.4	81.2	..	103.8	0.1 ^c	0.868
57	Malaysia	96.6	5.2	8.0	0.33	67.6	-0.8	..	47.4	0.4	0.687
58	Barbados	..	2.8	4.5	0.27	14.7	0.0	..	31.1	0.2	0.914
58	Kazakhstan	99.2	1.6	14.4	0.61	1.2	-3.3	18.4	62.7	0.4	0.873
HIGH HUMAN DEVELOPMENT											
60	Iran (Islamic Republic of)	99.0	0.9	8.3	0.49	6.6	17.8	..	50.9	1.0	0.835
60	Palau	..	0.0	12.3	0.96	87.6	..	..	..	..	0.750
62	Seychelles	..	1.4	5.4	0.22	88.4	0.0	..	49.3	0.2	0.670
63	Costa Rica	49.5	38.7	1.6	0.11	54.0	7.5	2.1	23.3	0.9	0.820
64	Turkey	87.6	13.4	4.5	0.20	15.2	21.8	19.8	46.6	0.3	0.876
65	Mauritius	84.5	11.5	3.4	0.18	19.0	-6.1	..	38.3	0.6	0.401
66	Panama	80.7	21.2	2.3	0.11	62.1	-8.4	0.7	25.8	1.9	0.735
67	Serbia	83.9	21.2	5.3	0.40	31.1	9.9	2.6	62.5	0.7	0.957
68	Albania	61.4	38.6	2.0	0.18	28.2	-2.2	4.3	68.0	0.2	0.855
69	Trinidad and Tobago	99.9	0.3	34.2	1.10	45.7	-2.6	8.8	38.6	0.1	0.816
70	Antigua and Barbuda	..	0.0	5.4	0.27	22.3	-4.9	8.5	29.9	0.1	0.891
70	Georgia	72.2	28.7	2.4	0.28	40.6	2.6	2.9	101.8	0.2	0.863
72	Saint Kitts and Nevis	..	1.6	4.3	0.18	42.3	0.0	51.3	..	..	0.732
73	Cuba	85.8	19.3	3.0	..	30.8	60.5	18.3	49.5	1.0	0.651
74	Mexico	90.4	9.2	3.9	0.23	34.0	-5.3	18.6	36.7	1.1	0.678
75	Grenada	..	10.9	2.3	0.19	50.0	0.0	7.1	45.3	0.3	0.762
76	Sri Lanka	50.3	52.9	0.9	0.08	33.0	-9.4	..	79.8	1.2	0.569
77	Bosnia and Herzegovina	77.5	40.8	6.2	0.59	42.7	-1.5	0.9	79.8	0.1 ^c	0.904
78	Venezuela (Bolivarian Republic of)	88.4	12.8	6.0	0.36	52.9	-10.3	1.7	34.6	1.4	0.827
79	Brazil	59.1	43.8	2.6	0.17	59.0	-9.7	0.9	29.9	1.0	0.901
80	Azerbaijan	98.4	2.3	3.9	0.24	13.8	34.6	34.5	63.9	1.1	0.910
80	Lebanon	97.6	3.6	4.3	0.31	13.4	4.8	..	51.4	0.8	0.918
80	The former Yugoslav Republic of Macedonia	79.3	24.2	3.6	0.29	39.6	10.3	8.6	82.2	0.1 ^c	0.971
83	Armenia	74.6	15.8	1.9	0.24	11.7	-0.9	42.1	54.8	0.2	0.845
83	Thailand	79.8	22.9	4.6	0.31	32.1	17.1	13.1	61.5	3.5	0.798
85	Algeria	100.0	0.1	3.7	0.28	0.8	17.3	66.9	49.7	1.9	0.904
86	China	87.5	12.4	7.5	0.59	22.2	32.6	20.9	112.7	0.6	0.746
86	Ecuador	86.9	13.8	2.8	0.25	50.5	-4.4	..	24.5	0.6	0.686
88	Ukraine	75.3	4.1	5.0	0.64	16.7	4.1	8.5	70.7	0.3	0.945
89	Peru	79.6	25.5	2.0	0.17	57.8	-5.1	0.7	63.9	1.3	0.723
90	Colombia	76.7	23.6	1.8	0.14	52.7	-9.2	0.5	37.0	0.8	0.740
90	Saint Lucia	..	2.1	2.3	0.19	33.3	-6.9	14.3	30.0	0.6	0.846
92	Fiji	..	31.3	1.3	0.16	55.7	6.7	..	99.0	2.9	0.671
92	Mongolia	94.1	3.4	7.1	0.63	8.1	0.1	1.6	155.9	1.3	0.946
94	Dominican Republic	86.5	16.5	2.1	0.16	41.0	79.5	30.4	43.0	2.2	0.735
95	Jordan	97.6	3.2	3.0	0.35	1.1	-0.6	117.8	51.2	0.6	0.959
95	Tunisia	88.4	12.6	2.6	0.24	6.7	61.9	69.7	56.1	1.0	0.974
97	Jamaica	81.0	16.8	2.6	0.32	31.0	-2.7	7.5	25.4	0.6	0.724
98	Tonga	..	1.9	1.1	0.23	12.5	0.0	..	73.3	1.4	0.711
99	Saint Vincent and the Grenadines	..	5.8	1.9	0.19	69.2	8.0	7.9	47.6	1.3	0.772
100	Suriname	76.3	24.9	3.6	0.24	98.3	-0.6	0.6	56.7	2.0	0.985
101	Botswana	74.7	28.9	3.2	0.20	19.1	-21.0	..	101.3	11.8	0.980
101	Maldives	..	1.0	3.3	0.24	3.3	0.0	15.7	25.6	0.3	0.846
103	Dominica	..	7.8	1.9	0.18	57.8	-13.3	10.0	..	..	0.669
104	Samoa	..	34.3	1.0	0.19	60.4	31.5	..	85.0	1.5	0.819
105	Uzbekistan	97.7	3.0	3.4	0.64	7.6	5.7	..	81.1	0.4	0.970
106	Belize	..	35.0	1.4	0.18	59.9	-15.5	..	68.6	1.0	0.744
106	Marshall Islands	..	11.2	1.9	0.53	70.2	..	..	..	..	0.841

DASHBOARD 4 ENVIRONMENTAL SUSTAINABILITY

HDI rank	SDG 12.e	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 3.9		SDG 15.5	
	Fossil fuel energy consumption (% of total energy consumption)	Renewable energy consumption (% of total final energy consumption)	Carbon dioxide emissions		Forest area		Fresh water withdrawals (% of total renewable water resources)	Environmental threats		Red List Index (value)	
			Per capita (tonnes)	(kg per 2011 PPP \$ of GDP)	(% of total land area ^a)	Change (%)		Household and ambient air pollution (per 100,000 population)	Unsafe water, sanitation and hygiene services		
	2010–2015 ^b	2015	2014	2014	2015	1990/2015	2006–2016 ^b	2016	2016	2017	
108	Libya	99.1	2.0	9.2	0.56	0.1	0.0	822.9	71.9	0.6	0.971
108	Turkmenistan	..	0.0	12.5	0.87	8.8	0.0	..	79.3	4.0	0.974
110	Gabon	24.2	82.0	2.8	0.17	89.3	4.5	..	76.0	20.6	0.961
110	Paraguay	33.7	61.7	0.9	0.10	38.6	-27.6	0.6	57.5	1.5	0.949
112	Moldova (Republic of)	88.7	14.3	1.4	0.29	12.4	28.2	8.7	78.3	0.1 ^c	0.968
MEDIUM HUMAN DEVELOPMENT											
113	Philippines	62.0	27.5	1.1	0.16	27.0	22.7	17.0	185.2	4.2	0.648
113	South Africa	86.9	17.2	9.0	0.72	7.6	0.0	30.2	86.7	13.7	0.778
115	Egypt	96.0	5.7	2.2	0.22	0.1	65.9	126.6	108.9	2.0	0.914
116	Indonesia	65.6	36.9	1.8	0.18	50.2	-23.2	..	112.4	7.1	0.763
116	Viet Nam	69.8	35.0	1.8	0.34	47.6	65.6	..	64.5	1.6	0.740
118	Bolivia (Plurinational State of)	85.2	17.5	1.9	0.31	50.6	-12.8	0.4	63.7	5.6	0.871
119	Palestine, State of	..	10.5	0.6 ^d	0.13 ^d	1.5	1.0	..	..	..	0.787
120	Iraq	97.3	0.8	4.8	0.32	1.9	3.3	..	75.1	3.0	0.819
121	El Salvador	48.4	24.4	1.0	0.15	12.8	-29.7	..	41.9	2.0	0.829
122	Kyrgyzstan	69.3	23.3	1.6	0.52	3.3	-23.8	32.6	110.7	0.8	0.984
123	Morocco	88.5	11.3	1.7	0.24	12.6	13.7	35.7	49.1	1.9	0.886
124	Nicaragua	40.9	48.2	0.8	0.17	25.9	-31.0	0.9	55.7	2.2	0.854
125	Cabo Verde	..	26.6	0.9	0.16	22.3	55.7	..	99.5	4.1	0.881
125	Guyana	..	25.3	2.6	0.38	84.0	-0.8	0.5	107.8	3.6	0.922
127	Guatemala	37.4	63.7	1.2	0.16	33.0	-25.4	2.6	73.8	6.3	0.722
127	Tajikistan	54.9	44.7	0.6	0.24	3.0	1.8	51.1	129.3	2.7	0.984
129	Namibia	66.7	26.5	1.6	0.16	8.4	-21.0	..	145.0	18.3	0.966
130	India	73.5	36.0	1.7	0.32	23.8	10.5	33.9	184.3	18.6	0.684
131	Micronesia (Federated States of)	..	1.2	1.4	0.46	91.8	..	..	151.8	3.6	0.691
132	Timor-Leste	..	18.2	0.4	0.06	46.1	-29.0	..	139.8	9.9	0.889
133	Honduras	52.5	51.5	1.1	0.25	41.0	-43.6	..	60.7	3.6	0.744
134	Bhutan	..	86.9	1.3	0.18	72.3	34.7	0.4	124.5	3.9	0.799
134	Kiribati	..	4.3	0.6	0.31	15.0	0.0	..	140.2	16.7	0.770
136	Bangladesh	73.8	34.7	0.5	0.15	11.0	-4.4	2.9	149.0	11.9	0.766
137	Congo	40.5	62.4	0.6	0.11	65.4	-1.7	..	130.7	38.7	0.984
138	Vanuatu	..	36.1	0.6	0.21	36.1	0.0	..	135.6	10.4	0.665
139	Lao People's Democratic Republic	..	59.3	0.3	0.05	81.3	6.3	..	188.5	11.3	0.810
140	Ghana	52.3	41.4	0.5	0.14	41.0	8.2	..	203.8	18.8	0.844
141	Equatorial Guinea	..	7.8	4.7	0.15	55.9	-15.7	..	177.7	22.3	0.813
142	Kenya	17.2	72.7	0.3	0.11	7.8	-6.6	10.5	78.1	51.2	0.801
143	Sao Tome and Principe	..	41.1	0.6	0.20	55.8	-4.3	..	162.4	11.4	0.788
144	Eswatini (Kingdom of)	..	66.1	0.9	0.12	34.1	24.2	..	137.0	27.9	0.818
144	Zambia	10.6	88.0	0.3	0.08	65.4	-7.9	..	127.2	34.9	0.879
146	Cambodia	30.7	64.9	0.4	0.14	53.6	-26.9	0.5	149.8	6.5	0.823
147	Angola	48.3	49.6	1.3	0.21	46.4	-5.1	..	118.5	48.8	0.936
148	Myanmar	39.3	61.5	0.4	0.09	44.5	-25.9	..	156.4	12.6	0.807
149	Nepal	15.8	85.3	0.3	0.13	25.4	-24.7	4.5	193.8	19.8	0.825
150	Pakistan	59.7	46.5	0.9	0.20	1.9	-41.7	74.4	173.6	19.6	0.862
151	Cameroon	29.9	76.5	0.3	0.10	39.8	-22.6	..	208.1	45.2	0.836
LOW HUMAN DEVELOPMENT											
152	Solomon Islands	..	63.3	0.4	0.16	78.1	-6.0	..	137.0	6.2	0.769
153	Papua New Guinea	..	52.5	0.8	0.22	74.1	-0.2	..	152.0	16.3	0.839
154	Tanzania (United Republic of)	14.4	85.7	0.2	0.09	52.0	-17.6	..	139.0	38.4	0.691
155	Syrian Arab Republic	97.7	0.5	1.6	..	2.7	32.1	..	75.2	3.7	0.953
156	Zimbabwe	29.1	81.8	0.8	0.41	36.4	-36.6	17.9	133.0	24.6	0.789
157	Nigeria	19.0	86.6	0.5	0.10	7.7	-59.4	4.4	307.4	68.6	0.874
158	Rwanda	..	86.7	0.1	0.05	19.5	50.9	..	121.4	19.3	0.849
159	Lesotho	..	52.1	1.2	0.43	1.6	22.5	..	177.6	44.4	0.966
159	Mauritania	..	32.2	0.7	0.18	0.2	-45.9	..	169.5	38.6	0.978
161	Madagascar	..	70.2	0.1	0.10	21.4	-8.9	4.0	159.6	30.2	0.795
162	Uganda	..	89.1	0.1	0.08	10.4	-56.4	1.1	155.7	31.6	0.752
163	Benin	44.4	50.9	0.6	0.31	38.2	-25.2	..	205.0	59.7	0.910

HDI rank	SDG 12.c	SDG 7.2	SDG 9.4		SDG 15.1		SDG 6.4	SDG 3.9		SDG 15.5
	Fossil fuel energy consumption (% of total energy consumption)	Renewable energy consumption (% of total final energy consumption)	Carbon dioxide emissions		Forest area		Fresh water withdrawals (% of total renewable water resources) 2006–2016 ^b	Environmental threats		Red List Index (value)
			Per capita (tonnes)	(kg per 2011 PPP \$ of GDP)	(% of total land area ^a)	Change (%)		Household and ambient air pollution (per 100,000 population)	Unsafe water, sanitation and hygiene services	
	2010–2015 ^a	2015	2014	2014	2015	1990/2015	2016	2016	2017	
164 Senegal	53.7	42.7	0.6	0.27	43.0	-11.5	..	160.7	23.9	0.945
165 Comoros	..	45.3	0.2	0.14	19.9	-24.5	..	172.4	50.7	0.764
165 Togo	17.2	71.3	0.4	0.28	3.5	-72.6	..	249.6	41.6	0.854
167 Sudan	31.8	61.6	0.3	0.10	8.1	-37.5	71.2	184.9	17.3	0.934
168 Afghanistan	..	18.4	0.3	0.16	2.1	0.0	..	211.1	13.9	0.837
168 Haiti	22.0	76.1	0.3	0.16	3.5	-16.4	10.3	184.3	23.8	0.721
170 Côte d'Ivoire	26.5	64.5	0.5	0.16	32.7	1.8	..	269.1	47.2	0.889
171 Malawi	..	83.6	0.1	0.07	33.4	-19.2	..	115.0	28.3	0.806
172 Djibouti	..	15.4	0.8	0.20 ^e	0.2	0.0	..	159.0	31.3	0.822
173 Ethiopia	6.1	92.2	0.1	0.08	12.5	-17.8	8.6	144.4	43.7	0.840
174 Gambia	..	51.5	0.3	0.17	48.2	10.4	..	237.0	29.7	0.981
175 Guinea	..	76.3	0.2	0.12	25.9	-12.4	..	243.3	44.6	0.896
176 Congo (Democratic Republic of the)	5.4	95.8	0.1	0.08	67.3	-4.9	..	163.9	59.8	0.891
177 Guinea-Bissau	..	86.9	0.2	0.11	70.1	-11.0	..	214.7	35.3	0.960
178 Yemen	98.5	2.3	0.9	0.23	1.0	0.0	..	194.2	10.2	0.881
179 Eritrea	22.3	79.8	0.1 ^e	0.09 ^e	15.0	..	..	173.7	45.6	0.909
180 Mozambique	12.6	86.4	0.3	0.29	48.2	-12.5	0.7	110.0	27.6	0.830
181 Liberia	..	83.8	0.2	0.26	43.4	-15.2	..	170.2	41.5	0.890
182 Mali	..	61.5	0.1	0.04	3.9	-29.5	4.3	209.1	70.7	0.982
183 Burkina Faso	..	74.2	0.2	0.10	19.6	-21.9	..	206.2	49.6	0.989
184 Sierra Leone	..	77.7	0.2	0.11	42.2	-2.4	..	324.1	81.3	0.913
185 Burundi	..	95.7	0.0	0.06	10.7	-4.5	..	179.9	65.4	0.921
186 Chad	..	89.4	0.1	0.03	3.9	-27.3	..	280.1	101.0	0.920
187 South Sudan	72.2	39.1	0.1	0.07	..	..	1.3	165.1	63.3	0.932
188 Central African Republic	..	76.6	0.1	0.11	35.6	-1.7	..	211.9	82.1	0.944
189 Niger	24.1	78.9	0.1	0.12	0.9	-41.3	..	251.8	70.8	0.939
OTHER COUNTRIES OR TERRITORIES										
.. Korea (Democratic People's Rep. of)	81.4	23.1	1.6	..	41.8	-38.7	..	207.2	1.4	0.913
.. Monaco	..	..	..	..	..	..	..	..	..	0.753
.. Nauru	..	0.1	4.0	0.32	0.0	0.0	..	..	..	0.773
.. San Marino	..	..	..	..	0.0	0.0	..	..	..	0.992
.. Somalia	..	94.3	0.0	..	10.1	-23.2	..	212.8	86.6	0.902
.. Tuvalu	..	0.0	1.0	0.32	33.3	0.0	..	..	..	0.832
Human development groups										
Very high human development	82.6	10.4	10.7	0.28	33.1	1.1	6.1	23.6	0.3	—
High human development	85.8	14.6	6.1	0.46	31.5	-1.7	4.8	86.2	0.8	—
Medium human development	71.2	35.8	1.7	0.28	30.5	-9.7	..	156.2	15.6	—
Low human development	..	81.0	0.3	0.12	23.1	-14.5	..	200.2	45.9	—
Developing countries	80.5	23.5	3.4	0.38	26.6	-6.7	..	133.1	14.0	—
Regions										
Arab States	97.2	4.0	4.9	0.32	3.0	-23.7	..	101.2	7.0	—
East Asia and the Pacific	..	15.9	5.8	0.50	29.8	3.8	..	114.4	2.2	—
Europe and Central Asia	87.2	9.1	5.1	0.35	9.1	8.3	14.3	66.5	0.5	—
Latin America and the Caribbean	74.5	27.7	3.0	0.21	46.3	-9.3	1.6	39.3	1.7	—
South Asia	76.7	31.1	1.8	0.32	14.7	7.6	23.8	173.7	17.1	—
Sub-Saharan Africa	39.2	70.2	0.8	0.24	28.2	-11.7	..	186.4	47.7	—
Least developed countries	..	73.2	0.3	0.13	26.8	-12.4	..	166.5	34.3	—
Small island developing states	..	26.4	2.4	0.29	69.5	1.3	..	100.1	10.0	—
Organisation for Economic Co-operation and Development	80.0	12.0	9.5	0.25	31.3	1.5	8.6	18.9	0.4	—
World	80.6	18.2	4.6	0.33	30.8	-3.2	7.2	114.1	11.7	—

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/hdr2018_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.
- d** Refers to 2013.
- e** Refers to 2011.

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 2011 purchasing power parity (PPP) 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.

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.

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 1–5: World Bank (2018a).

Column 6: HDRO calculations based on data on forest area from World Bank (2018a).

Column 7: FAO (2018b).

Columns 8 and 9: WHO (2018).

Column 10: United Nations Statistics Division (2018a).