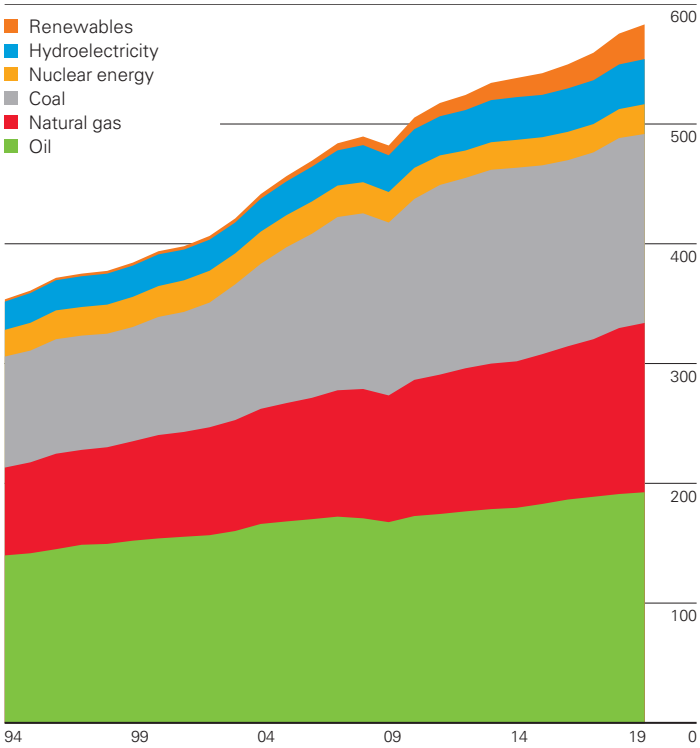
Primary energy: Consumption by fuel*

Exajoules	2018 Oil	2018 Natural gas	2018 Coal	2018 Nuclear energy	2018 Hydro-electricity	2018 Renew-ables	2018 Total	2019 Oil	2019 Natural gas	2019 Coal	2019 Nuclear energy	2019 Hydro-electricity	2019 Renew-ables	2019 Total
Canada	4.59	4.26	0.65	0.90	3.45	0.50	14.35	4.50	4.33	0.56	0.90	3.41	0.52	**14.21**
Mexico	3.48	3.15	0.57	0.12	0.29	0.22	7.83	3.29	3.26	0.51	0.10	0.21	0.35	**7.72**
US	37.11	29.52	13.28	7.60	2.59	5.50	95.60	36.99	30.48	11.34	7.60	2.42	5.83	**94.65**
Total North America	45.18	36.93	14.50	8.62	6.33	6.22	117.79	44.78	38.07	12.41	8.59	6.03	6.70	**116.58**
Argentina	1.20	1.75	0.05	0.06	0.37	0.10	3.54	1.19	1.71	0.02	0.08	0.33	0.14	**3.46**
Brazil	4.69	1.29	0.70	0.14	3.48	1.83	12.13	4.73	1.29	0.66	0.14	3.56	2.02	**12.40**
Chile	0.75	0.23	0.31	–	0.21	0.16	1.66	0.76	0.23	0.28	–	0.19	0.19	**1.66**
Colombia	0.69	0.48	0.16	–	0.51	0.02	1.85	0.70	0.48	0.26	–	0.46	0.02	**1.92**
Ecuador	0.51	0.03	–	–	0.19	0.01	0.73	0.49	0.02	–	–	0.22	0.01	**0.74**
Peru	0.50	0.29	0.03	–	0.28	0.05	1.14	0.51	0.30	0.02	–	0.28	0.05	**1.16**
Trinidad & Tobago	0.09	0.63	–	–	–	†	0.71	0.08	0.63	–	–	–	†	**0.71**
Venezuela	0.80	1.14	†	–	0.51	†	2.45	0.71	0.95	†	–	0.56	†	**2.23**
Other S. & Cent. America	2.68	0.29	0.18	–	0.89	0.27	4.31	2.69	0.33	0.24	–	0.77	0.29	**4.32**
Total S. & Cent. America	11.92	6.12	1.43	0.20	6.43	2.44	28.53	11.86	5.95	1.48	0.22	6.37	2.73	**28.61**
Austria	0.54	0.31	0.12	–	0.34	0.13	1.44	0.55	0.32	0.13	–	0.36	0.14	**1.50**
Belgium	1.42	0.61	0.13	0.26	†	0.17	2.59	1.38	0.63	0.13	0.39	†	0.19	**2.71**
Czech Republic	0.43	0.29	0.65	0.27	0.01	0.08	1.73	0.43	0.30	0.60	0.27	0.02	0.08	**1.71**
Finland	0.41	0.08	0.18	0.20	0.12	0.18	1.15	0.39	0.07	0.15	0.20	0.11	0.18	**1.10**
France	3.17	1.54	0.35	3.70	0.57	0.54	9.87	3.15	1.56	0.27	3.56	0.52	0.61	**9.68**
Germany	4.63	3.09	2.90	0.68	0.16	1.97	13.44	4.68	3.19	2.30	0.67	0.18	2.12	**13.14**
Greece	0.65	0.17	0.19	–	0.05	0.10	1.16	0.68	0.19	0.14	–	0.04	0.11	**1.15**
Hungary	0.37	0.35	0.09	0.14	†	0.04	0.98	0.37	0.35	0.08	0.15	†	0.05	**0.99**
Italy	2.60	2.49	0.37	–	0.42	0.64	6.53	2.49	2.55	0.30	–	0.40	0.64	**6.37**
Netherlands	1.68	1.27	0.34	0.03	†	0.19	3.53	1.65	1.33	0.27	0.03	†	0.23	**3.51**
Norway	0.41	0.16	0.03	–	1.24	0.05	1.90	0.39	0.16	0.03	–	1.12	0.07	**1.77**
Poland	1.33	0.72	2.08	–	0.04	0.21	4.38	1.34	0.73	1.91	–	0.04	0.25	**4.28**
Portugal	0.48	0.21	0.11	–	0.11	0.16	1.08	0.51	0.22	0.06	–	0.08	0.18	**1.04**
Romania	0.43	0.42	0.21	0.10	0.16	0.09	1.41	0.45	0.39	0.19	0.10	0.14	0.10	**1.37**
Spain	2.72	1.13	0.46	0.50	0.31	0.70	5.82	2.72	1.30	0.21	0.52	0.22	0.75	**5.72**
Sweden	0.56	0.04	0.08	0.61	0.56	0.32	2.17	0.57	0.04	0.08	0.60	0.59	0.36	**2.24**
Switzerland	0.43	0.12	†	0.22	0.31	0.04	1.13	0.44	0.12	†	0.21	0.31	0.04	**1.13**
Turkey	2.00	1.70	1.71	–	0.54	0.34	6.29	2.03	1.56	1.70	–	0.79	0.41	**6.49**
Ukraine	0.41	1.10	1.15	0.76	0.09	0.02	3.54	0.44	1.02	1.10	0.74	0.06	0.05	**3.41**
United Kingdom	3.17	2.85	0.32	0.58	0.05	0.99	7.96	3.11	2.84	0.26	0.50	0.05	1.08	**7.84**
Other Europe	2.61	1.09	1.41	0.33	0.70	0.51	6.66	2.63	1.08	1.43	0.34	0.62	0.56	**6.67**
Total Europe	30.46	19.73	12.92	8.37	5.79	7.50	84.76	30.40	19.95	11.35	8.28	5.66	8.18	**83.82**
Azerbaijan	0.21	0.39	†	–	0.02	†	0.62	0.21	0.42	†	–	0.01	†	**0.66**
Belarus	0.31	0.70	0.04	–	†	†	1.05	0.32	0.69	0.04	–	†	†	**1.06**
Kazakhstan	0.67	0.68	1.70	–	0.09	†	3.15	0.69	0.64	1.67	–	0.09	0.01	**3.10**
Russian Federation	6.50	16.36	3.63	1.83	1.71	0.01	30.04	6.57	16.00	3.63	1.86	1.73	0.02	**29.81**
Turkmenistan	0.29	1.02	–	–	†	†	1.31	0.31	1.14	–	–	†	†	**1.45**
Uzbekistan	0.09	1.60	0.09	–	0.05	†	1.83	0.09	1.56	0.07	–	0.06	†	**1.78**
Other CIS	0.18	0.21	0.09	0.02	0.32	†	0.81	0.18	0.20	0.12	0.02	0.32	†	**0.83**
Total CIS	8.24	20.96	5.54	1.85	2.19	0.02	38.81	8.37	20.65	5.53	1.88	2.21	0.03	**38.68**
Iran	3.54	8.07	0.06	0.06	0.10	†	11.83	3.92	8.05	0.05	0.06	0.26	†	**12.34**
Iraq	1.46	0.53	–	–	0.02	†	2.00	1.49	0.72	–	–	0.02	†	**2.23**
Israel	0.49	0.38	0.20	–	†	0.02	1.09	0.50	0.39	0.21	–	†	0.03	**1.13**
Kuwait	0.80	0.76	0.01	–	–	†	1.57	0.78	0.85	0.01	–	–	†	**1.64**
Oman	0.58	0.90	†	–	–	†	1.49	0.61	0.90	0.01	–	–	†	**1.51**
Qatar	0.50	1.49	–	–	–	†	1.99	0.54	1.48	–	–	–	†	**2.02**
Saudi Arabia	6.86	4.04	†	–	–	†	10.91	6.92	4.09	†	–	–	0.02	**11.04**
United Arab Emirates	2.01	2.68	0.10	–	–	0.01	4.80	1.95	2.74	0.10	–	–	0.04	**4.83**
Other Middle East	1.06	0.81	0.02	–	0.01	0.03	1.93	1.08	0.89	0.02	–	0.02	0.03	**2.04**
Total Middle East	17.31	19.65	0.39	0.06	0.13	0.07	37.61	17.80	20.10	0.40	0.06	0.30	0.12	**38.78**
Algeria	0.83	1.56	0.02	–	†	0.01	2.42	0.88	1.63	0.02	–	†	0.01	**2.54**
Egypt	1.53	2.15	0.09	–	0.12	0.03	3.92	1.50	2.12	0.08	–	0.12	0.06	**3.89**
Morocco	0.55	0.04	0.22	–	0.02	0.04	0.86	0.57	0.04	0.28	–	0.01	0.06	**0.95**
South Africa	1.16	0.16	3.76	0.10	0.01	0.11	5.30	1.18	0.15	3.81	0.13	0.01	0.12	**5.40**
Other Africa	4.01	1.45	0.32	–	1.02	0.10	6.90	4.14	1.46	0.28	–	1.04	0.17	**7.10**
Total Africa	8.07	5.36	4.41	0.10	1.17	0.29	19.39	8.28	5.40	4.47	0.13	1.18	0.41	**19.87**
Australia	2.16	1.49	1.84	–	0.16	0.35	6.00	2.14	1.93	1.78	–	0.13	0.42	**6.41**
Bangladesh	0.38	0.99	0.10	–	0.01	†	1.48	0.37	1.24	0.14	–	0.01	†	**1.76**
China	26.58	10.19	79.83	2.64	10.73	5.81	135.77	27.91	11.06	81.67	3.11	11.32	6.63	**141.70**
China Hong Kong SAR	0.93	0.11	0.26	–	–	†	1.30	0.87	0.11	0.26	–	–	†	**1.24**
India	9.95	2.09	18.56	0.35	1.25	1.10	33.30	10.24	2.15	18.62	0.40	1.44	1.21	**34.06**
Indonesia	3.38	1.60	2.84	–	0.15	0.25	8.23	3.38	1.58	3.41	–	0.15	0.39	**8.91**
Japan	7.63	4.17	4.99	0.44	0.72	0.89	18.84	7.53	3.89	4.91	0.59	0.66	1.10	**18.67**
Malaysia	1.54	1.48	0.93	–	0.24	0.03	4.21	1.57	1.52	0.90	–	0.24	0.03	**4.26**
New Zealand	0.36	0.16	0.05	–	0.24	0.09	0.90	0.36	0.17	0.06	–	0.23	0.10	**0.92**
Pakistan	1.02	1.57	0.50	0.09	0.26	0.05	3.48	0.90	1.64	0.55	0.08	0.32	0.06	**3.56**
Philippines	0.89	0.15	0.68	–	0.08	0.15	1.96	0.91	0.15	0.73	–	0.09	0.15	**2.02**
Singapore	3.13	0.44	0.02	–	–	0.01	3.61	3.06	0.46	0.03	–	–	0.01	**3.55**
South Korea	5.37	2.08	3.63	1.19	0.03	0.24	12.55	5.30	2.01	3.44	1.30	0.02	0.29	**12.37**
Sri Lanka	0.23	–	0.06	–	0.06	0.01	0.35	0.25	–	0.06	–	0.04	0.01	**0.36**
Taiwan	2.04	0.85	1.70	0.25	0.04	0.06	4.93	1.93	0.84	1.63	0.29	0.05	0.07	**4.81**
Thailand	2.68	1.80	0.80	–	0.07	0.24	5.60	2.72	1.83	0.71	–	0.06	0.29	**5.61**
Vietnam	1.02	0.35	1.59	–	0.76	†	3.72	1.07	0.35	2.07	–	0.58	0.04	**4.12**
Other Asia Pacific	0.97	0.41	1.23	–	0.53	0.01	3.14	1.03	0.37	1.25	–	0.56	0.01	**3.22**
Total Asia Pacific	70.27	29.92	119.62	4.96	15.31	9.29	249.35	71.54	31.32	122.22	5.77	15.90	10.81	**257.56**
Total World	**191.45**	**138.66**	**158.79**	**24.16**	**37.34**	**25.83**	**576.23**	**193.03**	**141.45**	**157.86**	**24.92**	**37.66**	**28.98**	**583.90**
of which: OECD	90.32	63.24	36.19	17.62	12.75	15.27	235.39	89.63	64.84	32.10	17.77	12.32	16.77	**233.43**
Non-OECD	101.13	75.42	122.61	6.54	24.59	10.55	340.84	103.40	76.61	125.75	7.16	25.34	12.21	**350.47**
European Union	26.49	16.46	9.37	7.40	3.12	6.97	69.81	26.39	16.90	7.69	7.33	2.94	7.54	**68.81**

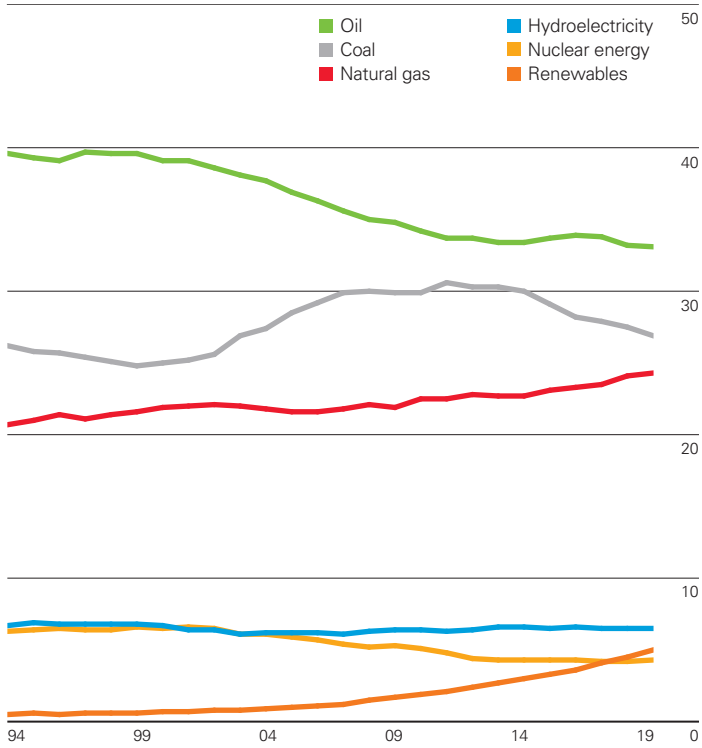
*In this review, primary energy comprises commercially traded fuels, including modern renewables used to generate electricity.
Energy from all sources of non-fossil power generation is accounted for on an input-equivalent basis. See the appendix or *bp.com/statisticalreview* for more details on this methodology.
†Less than 0.005.

World consumption
Exajoules



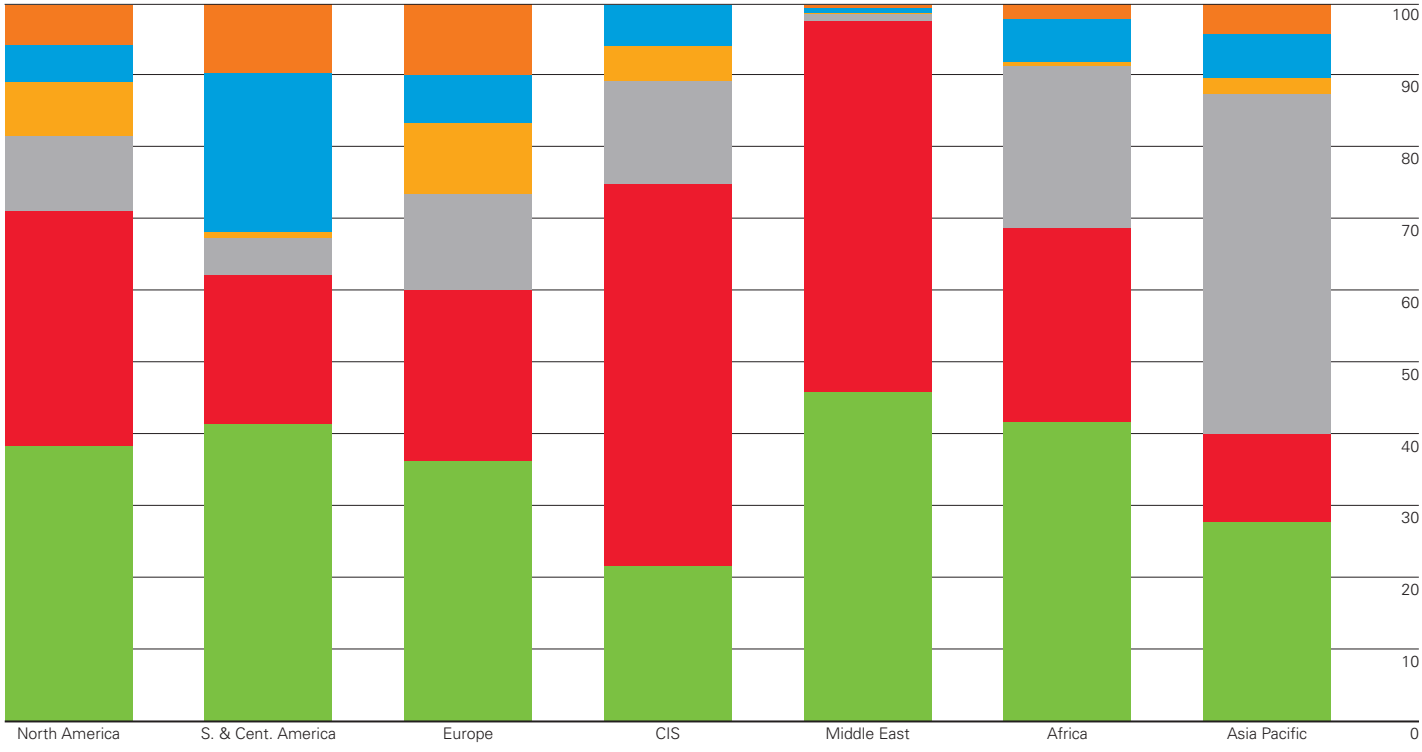
Primary energy consumption rose by 1.3% last year, less than half its rate in 2018 (2.8%). Growth was driven by renewables (3.2 EJ) and natural gas (2.8 EJ), which together contributed three quarters of the increase. All fuels grew at a slower rate than their 10-year averages, apart from nuclear, with coal consumption falling for the fourth time in six years (-0.9 EJ). By region, consumption fell in North America, Europe and CIS and growth was below average in South & Central America. In the other regions, growth was roughly in line with historical averages. China was the biggest individual driver of primary energy growth, accounting for more than three quarters of net global growth.

Shares of global primary energy
Percentage



Oil continues to hold the largest share of the energy mix (33.1%). Coal is the second largest fuel but lost share in 2019 to account for 27.0%, its lowest level since 2003. The share of both natural gas and renewables rose to record highs of 24.2% and 5.0% respectively. Renewables has now overtaken nuclear which makes up only 4.3% of the energy mix. The share of hydroelectricity has been stable at around 6% for several years.

Regional consumption pattern 2019
Percentage



Oil remains the dominant fuel in Africa, Europe and the Americas, while natural gas dominates in CIS and the Middle East, accounting for more than half of the energy mix in both regions. Coal is the dominant fuel in the Asia Pacific region. In 2019 coal's share of primary energy fell to its lowest level in our data series in North America and Europe.

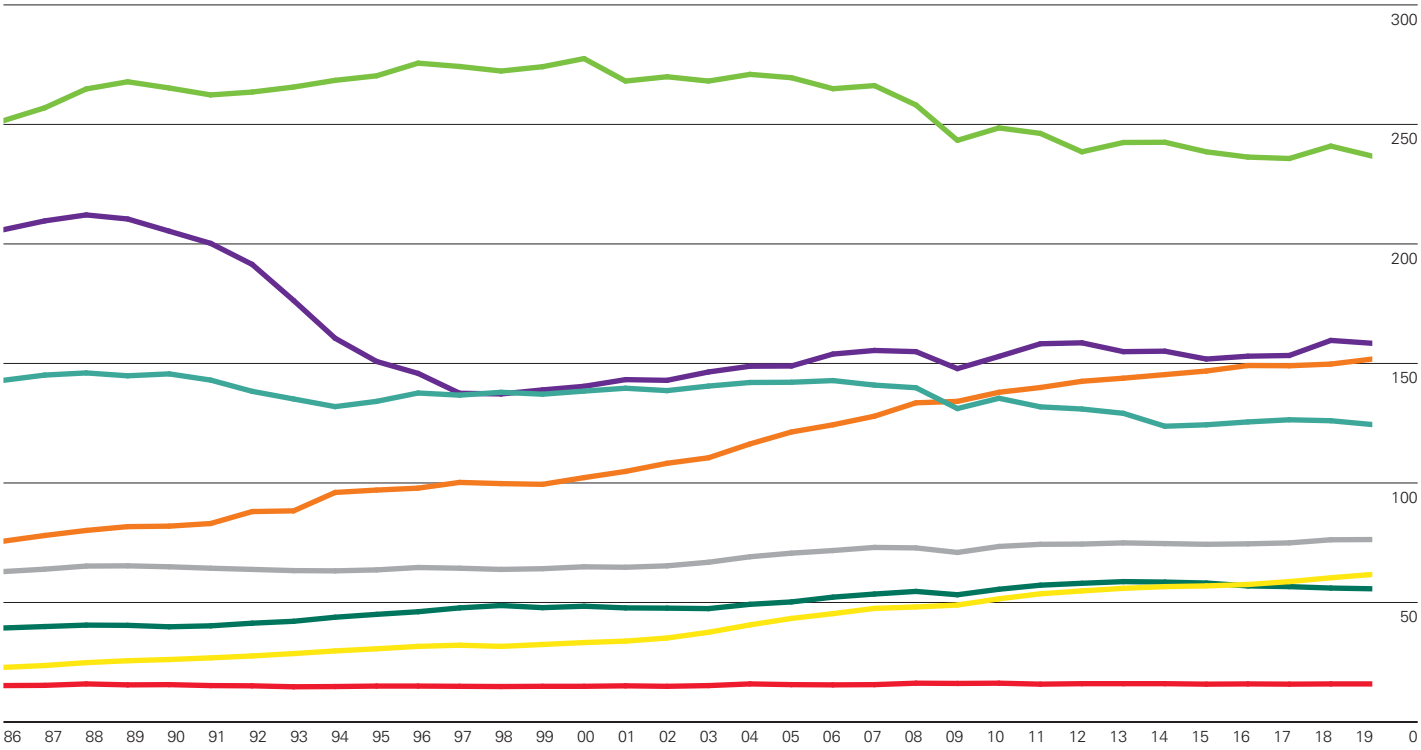
Primary energy: Consumption per capita*

Gigajoules per capita	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	**2019**	Growth rate per annum 2019	Growth rate per annum 2008-18
Canada	377.4	380.9	393.9	385.7	393.3	393.4	388.4	383.1	384.1	387.0	**379.9**	-1.8%	-0.4%
Mexico	63.1	64.1	66.2	65.7	65.1	64.0	63.1	63.1	63.3	62.1	**60.5**	-2.5%	-0.4%
US	293.6	300.9	295.5	285.6	291.1	292.0	287.2	284.9	284.0	292.3	**287.6**	-1.6%	-0.6%
Total North America	242.6	247.8	245.5	237.8	241.7	241.8	237.8	235.6	235.0	240.2	**236.0**	-1.8%	-0.7%
Argentina	75.8	78.9	79.6	81.0	83.5	82.2	83.2	82.2	81.2	79.8	**77.3**	-3.1%	0.2%
Brazil	51.5	56.1	58.1	58.7	60.3	61.2	59.8	57.8	58.0	57.9	**58.8**	1.5%	1.0%
Chile	78.3	77.9	83.8	84.9	84.9	82.4	83.2	86.2	85.5	88.7	**87.4**	-1.5%	0.9%
Colombia	29.7	31.5	32.6	34.6	34.7	36.2	36.0	37.5	37.6	37.3	**38.2**	2.5%	1.7%
Ecuador	33.6	36.8	38.4	39.9	40.6	42.0	41.2	40.2	41.0	42.5	**42.8**	0.8%	2.0%
Peru	24.7	27.6	30.9	31.1	31.5	31.9	33.5	35.1	34.6	35.7	**35.7**	0.2%	3.9%
Trinidad & Tobago	589.9	633.9	618.8	605.3	612.4	605.4	584.0	515.4	544.4	513.3	**511.6**	-0.3%	-1.5%
Venezuela	125.9	117.0	120.5	123.4	118.6	113.7	109.5	100.1	97.1	85.0	**78.1**	-8.1%	-4.0%
Other S. & Cent. America	34.8	35.1	35.5	35.6	35.4	34.8	36.0	37.3	36.9	37.6	**37.3**	-0.8%	0.4%
Total S. & Cent. America	52.5	54.8	56.5	57.3	58.0	57.8	57.4	56.2	55.9	55.3	**55.0**	-0.6%	0.3%
Austria	171.0	176.0	163.9	171.0	168.8	160.7	159.7	163.7	166.3	161.7	**167.5**	3.6%	-0.9%
Belgium	242.9	256.8	237.7	226.9	231.3	214.3	216.1	231.4	232.7	225.4	**235.1**	4.3%	-1.5%
Czech Republic	168.1	174.3	170.0	168.7	165.3	161.6	158.6	155.9	162.6	161.9	**159.5**	-1.5%	-0.9%
Finland	228.9	247.8	229.6	221.3	221.7	212.7	210.1	214.7	207.2	207.7	**198.4**	-4.5%	-1.7%
France	165.4	169.4	162.0	160.9	161.4	153.8	154.0	151.0	149.6	151.9	**148.6**	-2.2%	-1.5%
Germany	162.6	169.6	163.3	165.1	169.3	161.6	163.8	165.7	166.8	161.7	**157.3**	-2.7%	-0.7%
Greece	130.6	125.1	122.5	116.4	110.7	104.5	105.7	104.4	110.4	110.4	**109.4**	-0.9%	-1.9%
Hungary	97.5	99.8	99.6	92.8	88.4	88.9	93.6	95.4	100.4	101.3	**102.6**	1.2%	-0.4%
Italy	119.6	122.8	119.4	115.6	109.6	103.1	105.1	106.0	107.0	107.7	**105.3**	-2.3%	-1.8%
Netherlands	232.7	245.5	234.2	225.8	218.4	205.7	207.6	210.8	207.4	206.7	**205.4**	-0.6%	-1.4%
Norway	372.5	355.6	354.9	388.0	358.4	363.6	364.3	364.6	362.9	356.7	**328.5**	-7.9%	-1.3%
Poland	102.3	109.1	109.8	106.6	107.1	103.3	104.5	109.3	113.7	115.6	**112.9**	-2.3%	0.9%
Portugal	96.9	101.7	97.3	89.3	98.1	99.3	99.2	104.9	104.4	105.0	**102.0**	-2.9%	0.9%
Romania	68.4	69.4	71.7	69.4	64.8	67.5	68.2	68.6	70.4	72.2	**70.8**	-2.0%	-0.7%
Spain	128.1	130.2	127.4	126.7	120.3	118.4	120.3	121.5	123.0	124.6	**122.4**	-1.8%	-1.2%
Sweden	218.8	230.0	225.3	236.8	220.5	217.8	222.8	217.7	223.1	217.3	**223.4**	2.8%	-1.0%
Switzerland	163.7	157.4	147.6	153.8	155.9	146.8	142.0	132.3	131.4	132.3	**131.5**	-0.6%	-2.3%
Turkey	60.0	62.2	65.5	68.4	66.7	67.7	72.9	75.3	78.6	76.4	**77.8**	1.9%	2.5%
Ukraine	103.3	110.9	115.6	113.1	107.7	95.1	79.0	83.2	77.7	80.1	**77.4**	-3.3%	-4.1%
United Kingdom	138.8	140.8	132.0	132.6	131.0	122.6	123.1	120.9	119.8	118.6	**116.1**	-2.1%	-2.2%
Other Europe	103.0	106.8	104.5	100.2	101.5	98.4	100.7	103.4	105.5	107.7	**108.0**	0.2%	-0.1%
Total Europe	130.4	134.7	131.1	130.2	128.4	123.0	123.6	124.8	125.7	125.3	**123.6**	-1.4%	-1.0%
Azerbaijan	53.2	51.9	57.0	58.0	58.8	59.2	64.0	62.6	60.7	61.9	**65.3**	5.5%	0.1%
Belarus	108.8	115.6	115.1	124.3	109.5	113.0	102.6	102.0	104.0	110.9	**111.9**	0.9%	-0.3%
Kazakhstan	132.9	141.4	153.5	156.6	156.0	155.8	151.5	151.6	158.0	172.1	**167.1**	-2.9%	1.5%
Russian Federation	187.8	195.1	201.2	201.3	198.2	198.4	194.1	198.0	198.4	206.1	**204.3**	-0.9%	0.4%
Turkmenistan	166.5	176.6	192.7	206.4	180.0	183.1	215.3	209.5	203.9	224.6	**243.6**	8.4%	8.0%
Uzbekistan	66.8	65.3	67.3	64.6	63.8	65.3	61.1	56.6	56.0	56.3	**54.1**	-4.0%	-1.8%
Other CIS	33.2	33.4	35.3	36.2	34.0	34.3	33.6	33.3	34.0	36.2	**36.7**	1.4%	0.4%
Total CIS	147.1	152.2	157.5	157.9	154.2	154.4	151.1	152.3	152.6	158.9	**157.5**	-0.9%	0.3%
Iran	122.1	121.1	125.1	124.6	128.8	132.7	130.2	135.7	140.1	144.6	**148.9**	2.9%	1.9%
Iraq	47.1	48.9	50.0	51.2	53.1	48.9	47.2	53.0	50.9	52.2	**56.6**	8.6%	1.9%
Israel	130.2	135.1	135.6	139.3	127.3	123.2	127.9	128.0	131.6	129.6	**132.2**	2.0%	-0.7%
Kuwait	461.0	471.4	446.7	469.5	462.2	405.0	422.9	426.0	388.9	379.9	**389.2**	2.5%	-2.1%
Oman	255.5	283.9	290.2	293.2	304.4	283.3	282.5	270.1	287.8	307.8	**304.3**	-1.1%	1.4%
Qatar	628.3	651.6	687.6	723.5	731.3	746.5	798.0	751.7	705.6	715.8	**714.3**	-0.2%	◆
Saudi Arabia	305.4	325.2	325.6	334.7	326.0	339.7	341.6	338.3	332.5	323.7	**322.0**	-0.5%	0.8%
United Arab Emirates	422.8	410.3	413.5	425.0	445.2	442.4	484.2	497.6	497.1	498.5	**494.4**	-0.8%	0.4%
Other Middle East	40.5	39.4	36.6	34.1	32.3	31.6	29.2	28.8	29.0	28.0	**29.2**	4.3%	-3.9%
Total Middle East	133.4	137.2	139.2	141.8	143.1	144.6	146.1	148.4	148.4	149.0	**151.1**	1.4%	1.2%
Algeria	45.7	43.8	45.6	48.9	50.7	54.2	56.0	54.8	54.2	57.3	**59.0**	2.9%	2.7%
Egypt	38.5	39.7	39.4	40.5	39.3	38.4	38.4	39.6	39.9	39.8	**38.7**	-2.7%	0.5%
Morocco	19.7	21.6	22.4	22.4	22.7	22.7	22.8	22.7	23.5	24.0	**26.0**	8.5%	1.6%
South Africa	103.7	103.3	100.3	97.2	96.0	95.7	91.1	94.3	92.1	91.6	**92.2**	0.7%	-1.4%
Other Africa	6.1	6.2	6.0	6.2	6.4	6.5	6.6	6.4	6.5	6.6	**6.6**	0.2%	0.7%
Total Africa	15.4	15.5	15.1	15.3	15.3	15.3	15.1	15.2	15.1	15.2	**15.2**	-0.1%	-0.2%
Australia	251.8	248.1	252.7	245.7	243.8	243.7	243.9	242.5	238.8	240.8	**254.3**	5.6%	-0.7%
Bangladesh	6.0	6.1	6.6	6.9	7.1	7.3	8.5	8.5	8.7	9.2	**10.8**	17.4%	5.2%
China	71.6	76.2	81.8	84.6	87.2	88.7	89.1	89.8	92.1	95.1	**98.8**	3.9%	3.3%
China Hong Kong SAR	160.6	166.0	169.2	161.7	165.1	160.3	163.6	166.6	177.1	176.6	**166.9**	-5.5%	1.8%
India	17.7	18.3	19.1	19.8	20.4	21.5	22.0	22.7	23.4	24.6	**24.9**	1.2%	4.0%
Indonesia	24.1	26.1	28.1	29.3	30.1	27.8	27.5	27.9	28.6	30.7	**32.9**	7.2%	2.7%
Japan	154.3	164.4	156.1	155.1	153.9	150.1	148.2	146.0	148.2	148.1	**147.2**	-0.6%	-1.3%
Malaysia	117.2	118.8	121.1	128.2	132.4	131.9	132.0	137.1	137.4	133.5	**133.4**	◆	0.8%
New Zealand	187.9	190.0	188.6	187.5	186.1	192.8	192.7	192.0	192.7	189.3	**191.6**	1.2%	-0.1%
Pakistan	15.0	14.8	14.4	13.2	15.1	14.2	14.7	15.7	16.2	16.4	**16.4**	0.3%	0.8%
Philippines	12.8	13.0	13.0	13.2	13.9	14.4	15.6	16.7	18.1	18.3	**18.7**	2.1%	3.6%
Singapore	537.9	559.5	567.1	558.3	561.8	570.4	599.4	615.2	628.7	626.2	**611.6**	-2.3%	1.9%
South Korea	205.9	220.8	229.7	230.5	229.4	230.0	233.6	238.5	242.1	245.2	**241.5**	-1.5%	1.8%
Sri Lanka	11.0	11.7	12.2	12.2	12.3	11.0	13.9	14.7	15.5	16.4	**16.8**	2.4%	4.4%
Taiwan	191.1	201.0	198.1	197.6	201.2	205.2	202.4	205.3	205.6	207.8	**202.3**	-2.6%	0.6%
Thailand	61.7	65.3	67.5	71.8	72.7	74.3	76.3	77.7	78.8	80.7	**80.6**	◆	3.0%
Vietnam	18.9	21.3	24.0	24.9	26.3	28.5	31.2	33.2	35.1	38.9	**42.7**	9.6%	7.6%
Other Asia Pacific	10.6	11.6	11.3	11.7	11.4	12.2	12.6	13.4	13.6	16.8	**17.0**	1.3%	3.7%
Total Asia Pacific	48.2	50.8	52.9	54.1	55.2	55.9	56.2	56.8	58.0	59.7	**61.1**	2.4%	2.3%
Total World	**70.2**	**72.7**	**73.6**	**73.7**	**74.2**	**73.9**	**73.6**	**73.8**	**74.2**	**75.5**	**75.7**	**0.2%**	**0.4%**
of which: OECD	182.3	187.8	184.6	181.5	182.0	179.4	178.7	178.4	179.1	180.9	**178.5**	-1.3%	-0.7%
Non-OECD	45.8	47.7	49.7	50.6	51.2	51.6	51.5	52.0	52.5	53.8	**54.7**	1.6%	1.7%
European Union	142.8	147.5	142.2	140.6	139.1	133.4	134.7	135.7	136.9	136.4	**134.3**	-1.6%	-1.1%

*In this review, primary energy comprises commercially traded fuels, including modern renewables used to generate electricity.
Energy from all sources of non-fossil power generation is accounted for on an input-equivalent basis. See the appendix or *bp.com/statisticalreview* for more details on this methodology.
◆Less than 0.05%.

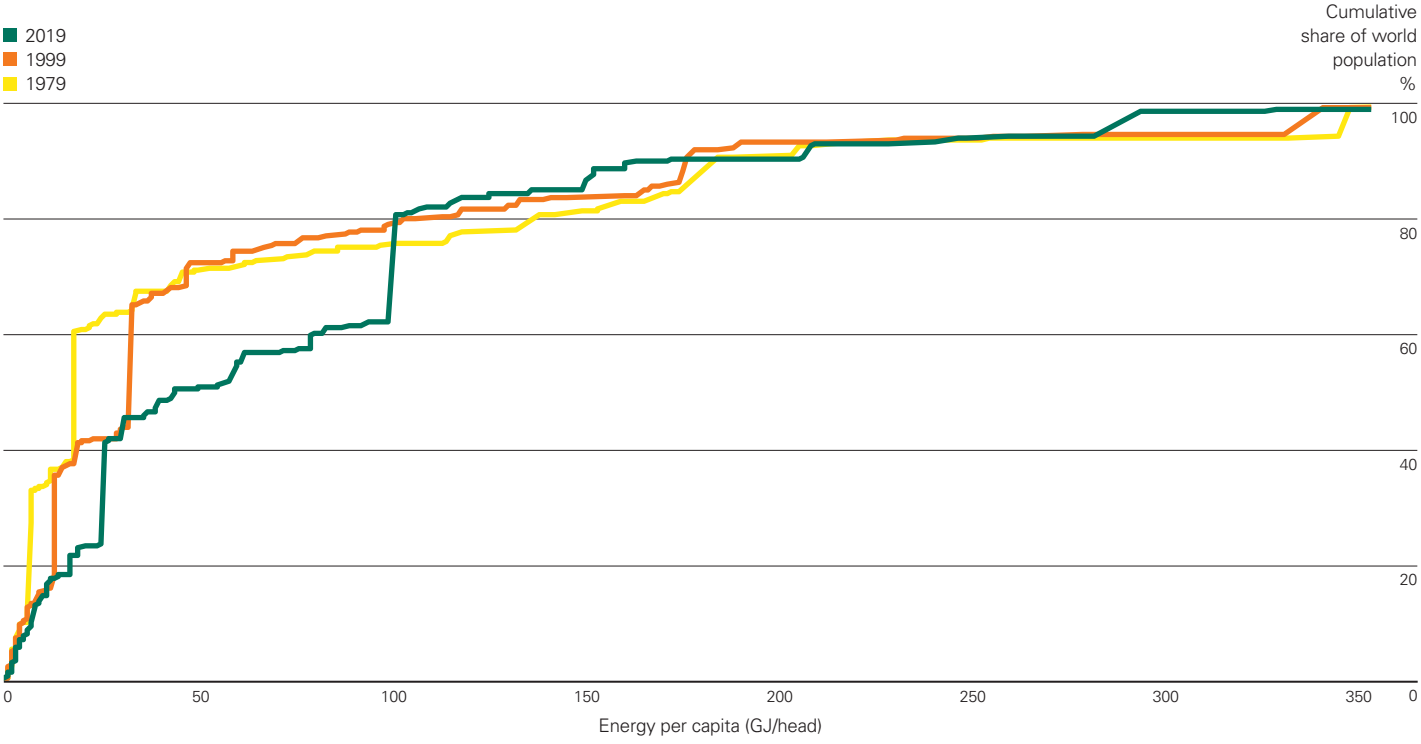
Energy per capita by region

Gigajoules per head



Average global energy consumption per capita increased by only 0.2% in 2019 to 75.7 GJ/head, driven by growth in the Middle East (1.4%) and Asia Pacific (2.4%). Energy demand per head fell in all other regions. North America is the region with the highest consumption per capita (236 GJ/head), followed by CIS (158 GJ/head) and the Middle East (151 GJ/head). Africa remains the region with the lowest average consumption (15 GJ/head).

Energy per capita: Distribution across countries



In 2019 81% of the global population lived in countries where average energy demand per capita was less than 100 GJ/head, two percentage points more than 20 years ago. However, the share of the global population consuming less than 75 GJ/head declined from 76% in 1999 to 57% last year. Average energy demand per capita in China increased from 17 GJ/head in 1979 to 99 GJ/head in 2019.

Carbon dioxide emissions

Million tonnes of carbon dioxide	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	**2019**	Growth rate per annum 2019	Growth rate per annum 2008-18	Share 2019
Canada	503.8	530.1	541.0	526.3	544.1	553.5	546.2	537.8	549.1	565.6	**556.2**	-1.7%	0.4%	1.6%
Mexico	433.5	442.6	465.8	474.0	472.8	459.6	463.1	468.8	476.9	466.6	**455.0**	-2.5%	0.8%	1.3%
US	5289.1	5485.7	5336.4	5090.0	5249.6	5254.6	5141.4	5042.4	4983.9	5116.8	**4964.7**	-3.0%	-1.1%	14.5%
Total North America	6226.4	6458.4	6343.3	6090.3	6266.5	6267.7	6150.8	6049.0	6009.9	6149.0	**5975.9**	-2.8%	-0.8%	17.5%
Argentina	154.5	166.0	168.7	175.3	182.8	182.7	186.0	185.8	182.8	180.4	**174.9**	-3.1%	1.2%	0.5%
Brazil	350.5	398.3	423.8	442.9	482.9	503.8	487.0	450.4	457.2	442.3	**441.3**	-0.2%	1.7%	1.3%
Chile	74.4	76.1	87.0	89.4	91.1	88.4	88.9	94.1	92.4	94.3	**92.4**	-2.0%	2.0%	0.3%
Colombia	65.2	72.6	71.2	79.7	83.5	89.2	89.8	95.1	89.4	90.0	**100.6**	11.8%	2.9%	0.3%
Ecuador	27.9	32.1	32.8	34.3	36.5	38.5	37.6	35.4	34.3	37.0	**35.6**	-3.8%	3.0%	0.1%
Peru	34.5	39.4	45.6	45.3	46.5	47.2	50.6	54.8	51.6	53.4	**53.7**	0.7%	4.5%	0.2%
Trinidad & Tobago	23.0	25.2	24.8	24.7	26.0	25.8	24.3	22.0	21.5	20.4	**20.1**	-1.3%	-1.9%	0.1%
Venezuela	172.9	167.2	172.0	182.1	177.0	171.1	164.4	151.4	142.7	119.6	**102.4**	-14.4%	-3.6%	0.3%
Other S. & Cent. America	193.8	196.1	200.7	201.1	200.4	201.4	212.2	219.4	217.5	225.9	**233.9**	3.5%	1.2%	0.7%
Total S. & Cent. America	1096.5	1173.0	1226.7	1274.7	1326.6	1348.0	1340.8	1308.4	1289.4	1263.1	**1254.9**	-0.7%	1.1%	3.7%
Austria	63.7	68.0	64.9	62.5	63.1	58.9	60.9	61.9	64.7	62.8	**64.7**	3.0%	-1.1%	0.2%
Belgium	127.5	136.4	123.0	119.0	120.0	111.7	118.3	120.1	122.1	125.1	**124.5**	-0.5%	-1.3%	0.4%
Czech Republic	113.6	116.5	113.2	109.4	105.1	102.1	103.2	105.0	103.1	102.2	**98.8**	-3.3%	-1.6%	0.3%
Finland	57.4	65.5	57.7	51.5	52.6	48.1	45.2	48.6	45.5	46.8	**43.0**	-8.2%	-2.5%	0.1%
France	354.8	360.4	334.1	335.6	334.9	301.3	306.7	312.1	318.1	307.2	**299.2**	-2.6%	-1.8%	0.9%
Germany	753.6	783.2	763.7	773.0	797.6	751.1	755.6	770.5	760.9	731.3	**683.8**	-6.5%	-1.0%	2.0%
Greece	104.2	96.1	95.5	89.8	81.4	77.8	75.2	72.0	76.6	74.4	**71.7**	-3.6%	-3.8%	0.2%
Hungary	48.0	48.7	49.3	45.1	42.6	41.9	44.3	45.2	47.3	47.5	**47.4**	-0.1%	-1.3%	0.1%
Italy	391.6	396.4	386.4	369.9	340.5	317.7	329.8	329.9	333.4	332.1	**325.4**	-2.0%	-2.8%	1.0%
Netherlands	217.7	226.5	219.4	212.2	208.2	197.6	206.7	209.8	202.9	198.2	**192.0**	-3.1%	-1.4%	0.6%
Norway	36.1	36.8	36.3	36.0	36.0	35.4	35.5	34.3	34.1	34.8	**33.6**	-3.5%	-0.4%	0.1%
Poland	305.3	323.8	324.0	308.1	310.4	293.3	293.3	306.0	315.5	319.5	**303.9**	-4.9%	◆	0.9%
Portugal	56.9	51.5	51.4	50.7	49.3	48.6	53.1	52.5	57.8	54.6	**51.4**	-5.9%	-0.5%	0.2%
Romania	80.6	78.2	85.1	81.7	69.8	71.1	71.9	69.5	72.9	73.2	**70.5**	-3.7%	-2.6%	0.2%
Spain	317.4	301.5	309.9	308.0	276.2	273.6	289.2	282.2	299.8	293.6	**278.5**	-5.1%	-1.9%	0.8%
Sweden	53.2	56.7	51.8	48.9	47.9	46.1	46.5	46.6	45.8	45.0	**46.3**	2.9%	-2.1%	0.1%
Switzerland	44.2	42.1	40.1	41.4	43.6	38.7	39.5	38.0	38.8	37.2	**38.2**	2.7%	-1.6%	0.1%
Turkey	275.3	276.3	298.8	314.4	303.3	335.1	340.6	359.0	397.1	392.1	**383.3**	-2.2%	3.6%	1.1%
Ukraine	271.5	286.8	302.9	297.4	284.8	244.8	192.3	213.2	185.8	193.1	**185.4**	-4.0%	-4.8%	0.5%
United Kingdom	513.5	530.1	495.6	512.1	500.0	458.1	439.7	415.8	404.1	396.9	**387.1**	-2.5%	-3.4%	1.1%
Other Europe	387.3	399.9	400.5	377.3	370.5	352.4	362.1	370.2	379.1	378.6	**382.2**	1.0%	-0.9%	1.1%
Total Europe	4573.5	4681.2	4603.7	4544.0	4437.9	4205.4	4209.5	4262.5	4305.4	4246.1	**4110.8**	-3.2%	-1.5%	12.0%
Azerbaijan	25.9	24.9	28.5	29.6	30.2	31.0	33.6	33.1	32.1	32.8	**34.9**	6.5%	1.0%	0.1%
Belarus	57.1	60.2	57.0	58.5	58.1	57.1	53.0	53.3	54.4	58.4	**59.0**	1.0%	-0.2%	0.2%
Kazakhstan	170.9	183.9	202.5	209.7	211.0	212.5	207.5	208.5	219.4	243.8	**239.9**	-1.6%	2.6%	0.7%
Russian Federation	1445.0	1492.2	1555.8	1569.1	1527.7	1530.8	1491.0	1504.8	1486.9	1548.4	**1532.6**	-1.0%	◆	4.5%
Turkmenistan	50.3	54.3	59.9	65.2	58.3	60.5	71.5	70.9	70.2	78.2	**85.8**	9.8%	9.3%	0.3%
Uzbekistan	103.2	101.3	107.5	104.5	105.7	109.6	104.1	97.3	97.5	101.8	**98.5**	-3.2%	-0.2%	0.3%
Other CIS	23.6	23.1	24.6	26.6	25.5	27.1	28.2	28.7	28.8	32.3	**34.7**	7.3%	2.8%	0.1%
Total CIS	1876.1	1939.7	2035.9	2063.1	2016.5	2028.6	1989.0	1996.7	1989.3	2095.7	**2085.3**	-0.5%	0.5%	6.1%
Iran	516.7	518.1	531.6	535.1	564.6	578.2	570.2	596.6	612.6	644.1	**670.7**	4.1%	2.5%	2.0%
Iraq	93.2	99.1	104.0	111.1	119.5	115.6	115.7	132.7	130.7	136.3	**148.6**	9.0%	5.2%	0.4%
Israel	68.4	71.6	72.8	78.9	69.3	66.7	69.8	69.1	71.0	70.7	**73.1**	3.4%	-0.1%	0.2%
Kuwait	81.2	87.0	85.9	96.0	100.5	90.4	98.5	102.9	94.7	94.3	**97.3**	3.2%	1.7%	0.3%
Oman	42.1	48.9	52.3	57.5	65.6	65.1	68.6	69.0	77.4	84.7	**86.7**	2.4%	7.2%	0.3%
Qatar	51.4	60.3	68.7	77.8	84.7	92.2	104.0	101.5	97.0	100.2	**102.5**	2.3%	7.0%	0.3%
Saudi Arabia	443.8	486.3	501.7	526.4	535.3	570.9	588.4	599.5	593.0	573.8	**579.9**	1.1%	3.0%	1.7%
United Arab Emirates	205.5	215.3	222.3	233.5	248.9	245.1	267.1	276.9	280.7	285.0	**282.6**	-0.8%	3.0%	0.8%
Other Middle East	155.7	152.1	145.3	137.7	130.5	130.1	119.9	118.0	120.1	117.2	**122.8**	4.8%	-2.8%	0.4%
Total Middle East	1658.0	1738.5	1784.6	1854.0	1918.9	1954.4	2002.1	2066.3	2077.3	2106.2	**2164.1**	2.8%	2.6%	6.3%
Algeria	95.7	94.2	100.6	108.9	115.4	123.6	129.0	127.7	130.7	140.4	**147.1**	4.7%	4.5%	0.4%
Egypt	177.2	188.8	189.5	200.4	199.0	203.5	207.6	216.7	218.8	221.3	**217.4**	-1.7%	2.6%	0.6%
Morocco	45.2	49.1	52.9	53.9	54.3	56.5	56.7	57.0	60.0	61.6	**68.2**	10.8%	2.4%	0.2%
South Africa	475.0	476.7	467.8	463.8	464.2	469.1	451.7	470.5	465.8	470.4	**478.8**	1.8%	-0.1%	1.4%
Other Africa	277.2	292.4	291.8	309.9	329.3	345.4	355.9	359.3	375.6	390.8	**396.9**	1.6%	3.7%	1.2%
Total Africa	1070.2	1101.1	1102.6	1136.9	1162.2	1198.0	1200.9	1231.1	1250.9	1284.5	**1308.5**	1.9%	2.0%	3.8%
Australia	410.5	402.6	409.7	402.6	399.0	405.7	411.3	411.8	409.6	411.1	**428.3**	4.2%	-0.2%	1.3%
Bangladesh	49.2	50.6	56.5	60.4	62.7	65.5	79.6	80.4	84.1	90.5	**106.5**	17.7%	7.4%	0.3%
China	7710.1	8143.4	8824.3	9001.3	9244.0	9239.9	9186.0	9137.6	9298.0	9507.1	**9825.8**	3.4%	2.6%	28.8%
China Hong Kong SAR	86.5	88.3	92.0	88.7	91.5	89.7	90.5	92.7	98.9	99.5	**94.7**	-4.8%	2.3%	0.3%
India	1596.2	1660.7	1735.2	1848.1	1929.4	2083.5	2149.4	2242.9	2329.8	2452.5	**2480.4**	1.1%	5.3%	7.3%
Indonesia	388.3	428.0	480.1	513.0	532.9	486.1	497.9	502.0	527.0	580.7	**632.1**	8.8%	4.4%	1.8%
Japan	1130.0	1201.8	1210.3	1296.1	1282.9	1249.3	1209.9	1193.2	1187.5	1164.2	**1123.1**	-3.5%	-1.1%	3.3%
Malaysia	190.3	213.0	213.6	226.8	233.1	242.2	245.7	251.4	241.4	243.5	**244.5**	0.4%	2.1%	0.7%
New Zealand	34.8	34.7	34.6	36.2	35.6	35.7	36.5	35.6	37.4	37.0	**38.4**	3.8%	-0.2%	0.1%
Pakistan	146.0	145.7	144.1	145.5	145.5	152.3	159.9	175.7	189.6	197.7	**198.3**	0.3%	3.1%	0.6%
Philippines	74.5	79.9	80.7	83.1	91.9	97.3	106.2	116.4	128.9	133.7	**140.1**	4.7%	6.1%	0.4%
Singapore	176.7	185.3	192.7	192.0	191.4	190.9	202.7	217.0	228.9	225.3	**218.9**	-2.8%	3.3%	0.6%
South Korea	534.2	590.9	617.7	614.6	619.5	614.9	624.2	629.6	645.2	662.2	**638.6**	-3.6%	2.2%	1.9%
Sri Lanka	13.2	13.1	14.8	16.1	14.0	14.2	17.9	20.2	21.7	21.6	**23.4**	8.6%	5.5%	0.1%
Taiwan	251.2	264.2	270.0	266.2	269.2	275.2	271.7	280.3	288.4	287.0	**278.6**	-2.9%	1.0%	0.8%
Thailand	236.5	248.7	253.5	270.6	273.9	280.7	291.4	298.2	299.0	306.1	**301.7**	-1.4%	2.6%	0.9%
Vietnam	102.4	121.9	135.0	132.7	140.8	157.4	183.4	195.5	196.1	237.0	**285.9**	20.6%	8.6%	0.8%
Other Asia Pacific	113.9	120.5	112.0	116.5	109.7	121.9	129.8	141.5	145.5	206.7	**210.3**	1.8%	4.8%	0.6%
Total Asia Pacific	13244.5	13993.5	14876.6	15310.6	15666.9	15802.6	15894.1	16022.1	16357.1	16863.3	**17269.5**	2.4%	2.7%	50.5%
Total World	**29745.2**	**31085.5**	**31973.4**	**32273.5**	**32795.6**	**32804.7**	**32787.2**	**32936.1**	**33279.5**	**34007.9**	**34169.0**	**0.5%**	**1.1%**	**100.0%**
of which: OECD	12507.6	12957.5	12783.1	12580.3	12661.9	12441.5	12347.8	12270.1	12300.2	12372.3	**12012.0**	-2.9%	-0.8%	35.2%
Non-OECD	17237.6	18128.0	19190.3	19693.2	20133.6	20363.3	20439.4	20666.0	20979.2	21635.6	**22157.0**	2.4%	2.5%	64.8%
European Union	3830.3	3922.9	3800.4	3737.7	3653.5	3445.6	3486.9	3498.5	3527.1	3466.5	**3330.4**	-3.9%	-1.8%	9.7%

◆Less than 0.05%.

Note: The carbon emissions above reflect only those through consumption of oil, gas and coal for combustion related activities, and are based on 'Default CO_2 Emissions Factors for Combustion' listed by the IPCC in its Guidelines for National Greenhouse Gas Inventories (2006). This does not allow for any carbon that is sequestered, for other sources of carbon emissions, or for emissions of other greenhouse gases. Our data is therefore not comparable to official national emissions data.