

DATA ANNEX

ENERGY ACCESS

Country	Access to electricity (% of population ^a)										Access to Clean Cooking (% of population)				
	Total					Urban ^b					Rural ^b				
	1990	2000	2010	2014	2016	2010	2014	2016	2010	2014	2016	2000	2010	2014	2016
Afghanistan	100	100	43	90	84	98	99	100	98	100	79	9	21	28	32
Albania	100	100	100	100	100	100	100	100	100	100	100	40	65	74	77
Algeria			99	99	99	100	100	100	100	100	99	86	92	93	93
American Samoa															
Andorra	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Angola			34	32	41	71	100	100	71	100	16	37	44	47	48
Anguilla		96	100	100	100	100	100	100	100	100	100				
Antigua and Barbuda			94	96	97	100	100	100	100	100	97	97	98	99	99
Argentina			99	100	100	100	100	100	100	100	100	95	98	98	98
Armenia		99	100	100	100	100	100	100	100	100	100	82	94	96	97
Aruba		92	93	95	96	100	100	100	100	100	92				
Australia	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Austria	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Azerbaijan		99	100	100	100	100	100	100	100	100	100	73	91	94	96
Bahamas			100	100	100	100	100	100	100	100	100	100	100	100	100
Bahrain			100	100	100	100	100	100	100	100	100	100	100	100	100
Bangladesh		32	55	62	76	94	99	99	94	99	69	7	13	16	18
Barbados		100	100	100	100	100	100	100	100	100	100	97	99	99	99
Belarus	100	100	100	100	100	100	100	100	100	100	100	94	97	98	98
Belgium	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Belize			90	92	92	97	100	100	97	100	88	78	83	85	85
Benin		21	34	34	41	71	100	100	71	100	18	2	5	6	6
Bermuda	100	100	100	100	100	100	100	100	100	100	100				
Bhutan			73	97	100	100	100	100	100	100	100	32	46	51	53
Bolivia (Plurinational State of)		70	84	90	93	99	100	100	99	100	79	65	77	80	64
Bosnia and Herzegovina			100	100	100	100	100	100	100	100	100	38	54	60	63
Botswana		27	48	56	61	78	100	100	78	100	37	45	58	62	64
Brazil	87	94	99	100	100	100	100	100	100	100	100	87	94	95	96
British Virgin Islands															
Brunei Darussalam	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Bulgaria	100	100	100	100	100	100	100	100	100	100	100	65	86	88	89
Burkina Faso		9	13	19	19	61	100	100	61	100	1	3	6	8	9
Burundi		3	5	7	8	50	100	100	50	100	2	1	1	1	1
Cambodia		17	31	56	50	100	100	100	56	100	36	5	11	15	18
Cameroon		41	53	57	60	92	100	100	92	100	21	10	18	21	23

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	Total					Urban ^b					Total			
	1990	2000	2010	2014	2016	2010	2014	2016	2010	2014	2016	2010	2014	2016
Canada	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Cabo Verde	100	100	81	e	88	93	93	93	92	92	92	67	70	71
Cayman Islands	100	100	100	100	100	100	100	100	100	100	100	0	0	0
Central African Republic	6	c	10	c	13	14	34	34	0	0	1	1	1	1
Chad	3		6	c	8	9	31	31	2	2	3	3	3	3
Channel Islands	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Chile	92	h	99	h	100	100	100	100	100	100	86	91	92	92
China	100	100	100	g	100	100	100	100	100	100	47	55	58	59
Colombia	90	d	97	h	98	h	99	100	96	96	80	88	91	92
Comoros	40		63		73	78	92	92	72	72	1	4	7	9
Democratic Republic of the Congo	7	c	13	c	14	d	17	47	0	0	4	4	4	4
Congo	43		43		52	57	74	74	23	23	10	18	22	24
Cook Islands	99		99		100	100	100	100	100	100	83	85	85	84
Costa Rica	99	h	99	h	100	100	100	100	100	100	88	92	93	93
Cote d'Ivoire	49		59		62	e	64	c	38	c	18	18	18	18
Croatia	100	k	100	h	100	100	100	100	100	100	80	90	92	93
Cuba	97	g	100	g	100	100	100	100	100	100	68	77	79	79
Curapao	100	k	100	h	100	100	100	100	100	100	100	100	100	100
Cyprus	100	k	100	h	100	100	100	100	100	100	100	100	100	100
Czech Republic	100	k	100	h	100	100	100	100	100	100	93	97	97	97
Denmark	100	k	100	h	100	100	100	100	100	100	100	100	100	100
Djibouti	57		53		52	52	67	67	0	0	5	8	10	12
Dominica	81		95		100	100	100	100	100	100	78	87	90	91
Dominican Republic	89	h	98	h	98	h	100	100	100	100	80	87	90	90
Ecuador	93		97	h	99	h	100	100	100	100	87	94	95	96
Egypt	98	d	100	d	100	100	100	100	100	100	83	96	97	98
El Salvador	85	h	92	h	95	h	99	99	99	99	57	78	84	86
Equatorial Guinea	29		40		44	47	75	75	39	39	23	31	34	34
Eritrea	29		40		44	47	75	75	39	39	6	12	15	16
Estonia	100	k	100	h	100	100	100	100	100	100	79	90	92	93
Ethiopia	13	d	25	d	27	f	43	f	27	f	1	3	3	4
Faeroe Islands	100	k	100	h	100	100	100	100	100	100	100	100	100	100
Fiji	75		90		96	99	99	99	98	98	31	37	39	40
Finland	100	k	100	h	100	100	100	100	100	100	100	100	100	100
France incl. Monaco	100	k	100	h	100	100	100	100	100	100	100	100	100	100
French Polynesia	100	k	100	h	100	100	100	100	100	100	100	100	100	100
Gabon	74	d	85	d	89	91	97	97	55	55	59	74	77	79
Gambia	34	c	40	c	45	48	69	69	16	16	3	3	3	3
Georgia	99		99		100	100	100	100	100	100	41	66	74	78
Germany	100	k	100	h	100	100	100	100	100	100	100	100	100	100
Ghana	45		65		78	d	79	d	67	d	6	14	19	22
Gibraltar	100	k	100	h	100	100	100	100	100	100	100	100	100	100
Greece	100	k	100	h	100	100	100	100	100	100	88	94	94	94

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	Total					Urban ^b					Rural ^b						
	1990	2000	2010	2014	2016	2000	2010	2014	2016	2000	2010	2014	2016	2000	2010	2014	2016
Greenland	100	100	100	100	100	100	100	100	100	100	100	100	100	93	96	96	97
Grenada	86	86	90	91	92	90	90	91	92	90	90	90	90	93	96	96	97
Guam	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Guatemala	73	73	84	85	85	73	73	84	85	73	73	84	85	39	43	45	45
Guinea	17	17	26	30	34	17	17	26	30	17	17	26	30	1	1	1	1
Guinea-Bissau	6	6	6	17	15	6	6	6	17	6	6	6	15	1	1	2	2
Guyana	75	75	80	87	84	75	75	80	87	75	75	80	84	36	62	71	74
Haiti	34	34	36	38	39	34	34	36	38	34	34	36	39	3	4	4	4
Honduras	68	68	81	89	88	68	68	81	89	68	68	81	88	30	46	51	53
Hong Kong (SAR, China)	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Hungary	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Iceland	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Ireland	59	59	76	81	85	59	59	76	81	59	59	76	85	22	34	39	41
India	86	86	94	97	98	86	86	94	97	86	86	94	98	5	40	54	58
Indonesia	98	98	99	100	100	98	98	99	100	98	98	99	100	86	97	98	98
Iran (Islamic Republic of)	98	98	98	100	100	98	98	98	100	98	98	98	100	75	95	97	98
Iraq	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Ireland	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Isle of Man	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Israel	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Italy and San Marino	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Jamaica	70	70	85	93	96	70	70	85	93	70	70	85	96	73	86	89	91
Japan	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Jordan	97	97	100	100	100	97	97	100	100	97	97	100	100	97	99	99	99
Kazakhstan	99	99	100	100	100	99	99	100	100	99	99	100	100	83	93	95	95
Kenya	16	16	19	36	56	16	16	19	36	16	16	19	56	2	8	12	13
Kiribati	63	63	63	81	85	63	63	63	81	63	63	63	85	2	3	4	6
Democratic People's Republic of Korea	29	29	29	36	39	29	29	29	36	29	29	29	39	3	7	10	11
Republic of Korea	100	100	100	100	100	100	100	100	100	100	100	100	100	96	97	97	97
Kosovo	99	99	99	100	100	99	99	99	100	99	99	99	100	96	97	97	97
Kuwait	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Kyrgyzstan	100	100	100	100	100	100	100	100	100	100	100	100	100	52	72	78	81
Lao People's Democratic Republic	43	43	70	81	87	43	43	70	81	43	43	70	87	4	5	5	6
Latvia	100	100	100	100	100	100	100	100	100	100	100	100	100	86	93	95	95
Lebanon	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Lesotho	4	4	19	28	30	4	4	19	28	4	4	19	30	18	30	34	36
Liberia	5	5	5	9	20	5	5	5	9	5	5	5	20	1	1	1	1
Libya	100	100	100	99	99	100	100	100	99	100	100	100	99	100	100	100	100
Liechtenstein	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Lithuania	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
Luxembourg	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
China, Macao Special Administrative Region	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
The former Yugoslav Republic of Macedonia	100	100	100	100	100	100	100	100	100	100	100	100	100	44	59	64	66
Madagascar	14	14	17	19	23	14	14	17	19	14	14	17	23	1	1	1	1
Malawi	5	5	9	12	11	5	5	9	12	5	5	9	11	2	2	2	3

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	1990	2000	2010	2014	2016	2000	2010	2014	2016	2016	2000	2010	2014	2016	
Malaysia			99	100	100	100	100	100	100	100	95	96	96	96	
Maldives		84	^e 97	100	100	^e 100	100	100	100	100	32	84	92	94	
Mali		10	25	32	35	84	84	2	1	1	1	1	1	1	
Malta	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	100	100	100	100	
Marshall Islands		68	83	90	93	95	95	89	89	13	55	64	65		
Mauritania			33	39	42	81	81	0	0	29	40	44	47		
Mauritius			99	99	99	99	99	92	100	87	92	93	93		
Mexico		98	^h 99	^h 99	^h 100	100	100	100	100	81	84	85	85		
Micronesia, Federated States of		46	^e 65	^e 72	^e 75	92	92	71	71	11	12	12	12		
Republic of Moldova			100	100	100	100	100	100	100	68	87	91	92		
Monaco	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	100	100	100	100		
Mongolia		67	^e 79	^c 81	82	96	96	44	44	22	34	40	43		
Montenegro			100	100	100	100	100	100	100	55	65	68	69		
Morocco		70	91	92	^e 100	100	100	100	100	90	96	96	97		
Mozambique		7	17	22	24	64	64	5	5	3	3	4	4		
Myanmar			49	^g 52	^e 57	89	89	40	40	5	11	15	18		
Namibia		37	^d 45	50	52	77	77	29	29	33	39	41	42		
Nauru			99	99	99	99	99	99	99	74	89	91	91		
Nepal		28	67	85	^c 91	^d 95	^d 95	85	85	15	22	26	28		
Netherlands	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	100	100	100	100		
New Caledonia		100	100	100	100	100	100	100	100	100	100	100	100		
New Zealand	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	100	100	100	100		
Nicaragua		73	78	82	^h 82	99	99	57	57	34	46	50	52		
Niger		6	^c 13	15	16	65	65	5	5	1	2	2	2		
Nigeria	27	^d 43	48	^d 56	^g 59	^g 86	^g 86	41	41	1	2	4	5		
Niue			100	100	100	100	100	100	100						
Northern Mariana Islands		100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100						
Norway including Svalbard and Jan Mayen Islands	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	100	100	100	100		
Oman			100	100	100	100	100	100	100	85	94	95	95		
Pakistan		75	90	96	99	100	100	99	99	23	36	41	43		
Palau			99	100	100	100	100	97	97	64	83	86	87		
Panama	70	^e 81	^e 87	^e 92	93	99	99	81	81	79	86	88	89		
Papua New Guinea		12	20	^g 21	23	73	73	15	15	7	11	12	13		
Paraguay		89	97	^h 99	^h 98	^c 100	^c 100	96	96	44	58	64	66		
Peru		72	^h 88	^h 93	^h 95	100	100	76	76	35	66	72	75		
Philippines		73	84	89	91	97	97	86	86	36	42	43	43		
Poland	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	100	100	100	100		
Portugal	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	100	100	100	100		
Puerto Rico			100	100	100	100	100	100	100	100	100	100	100		
Qatar	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	92	98	98	98		
Romania	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	65	81	85	86		
Russian Federation	100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	^k 100	93	97	98	98		
Rwanda		6	^d 10	^d 20	^g 29	^j 80	^j 80	18	18	0	0	1	1		
Samoa		88	97	98	100	100	100	100	100	20	29	32	32		

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	Total					Urban ^b					Rural ^b			
	1990	2000	2010	2014	2016	2000	2010	2014	2016	2000	2010	2014	2016	
San Marino	100	100	100	100	100	100	100	100	100	100	100	100	100	
Sao Tome and Principe		53	60	69	65	73	51			18	22	19	17	
Saudi Arabia		38	54	61	65	88	38			32	32	32	32	
Senegal		100	100	100	100	100	100			52	69	74	76	
Serbia		94	97	99	100	99	100			77	88	90	90	
Seychelles			11	16	20	47	3			0	1	1	1	
Sierra Leone	100	100	100	100	100	100	100			100	100	100	100	
Singapore	100	100	100	100	100	100	100			100	100	100	100	
Sint Maarten (Dutch part)	100	100	100	100	100	100	100							
Slovak Republic	100	100	100	100	100	100	100			94	97	97	97	
Slovenia	100	100	100	100	100	100	100			89	95	96	96	
Solomon Islands		7	32	43	48	70	42			6	8	8	8	
Somalia			20	27	30	57	12			1	1	2	2	
South Africa		71	83	86	84	93	68			56	77	82	85	
South Sudan			2	7	9	22	6			1	1	1	1	
Spain	100	100	100	100	100	100	100			100	100	100	100	
Sri Lanka		85	85	92	96	100	95			16	22	25	26	
Saint Kitts and Nevis		98	98	100	100	100	100			100	100	100	100	
Saint Lucia		94	94	97	98	95	98			86	95	97	97	
Sint Maarten (French part)			64	70	72	90	100							
Saint Vincent and the Grenadines		80	93	99	100	97	100			95	96	96	96	
Sudan	33	23	35	45	39	70	22			14	29	37	41	
Suriname		97	91	88	87	96	69			80	87	89	90	
Swaziland			46	65	66	83	61			27	42	47	50	
Sweden	100	100	100	100	100	100	100			100	100	100	100	
Switzerland-Liechtenstein	100	100	100	100	100	100	100			100	100	100	100	
Syrian Arab Republic			93	99	100	100	100			97	99	99	99	
Tajikistan		98	99	100	100	100	100			39	67	77	80	
Tanzania		10	15	19	33	65	17			1	2	2	2	
Thailand		82	100	100	100	100	100			68	72	74	74	
Timor-Leste			38	58	63	92	49			2	5	6	7	
Togo		17	31	46	47	87	19			0	4	6	7	
Tonga		85	92	95	97	99	97			48	56	58	59	
Trinidad and Tobago		91	99	100	100	100	100			99	99	99	99	
Tunisia		95	100	100	100	100	100			93	98	99	99	
Turkey			100	100	100	100	100							
Turkmenistan		100	100	100	100	100	100			96	99	99	99	
Turks and Caicos Islands	89	96	94	95	96	100	43							
Tuvalu			97	99	99	100	99			19	38	47	50	
Uganda		8	15	20	27	58	18			1	1	1	1	
Ukraine			100	100	100	100	100			88	94	95	96	
United Arab Emirates	100	100	100	100	100	100	100			97	98	99	99	
United Kingdom	100	100	100	100	100	100	100			100	100	100	100	
United States	100	100	100	100	100	100	100			100	100	100	100	

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	1990	2000	2010	2014	2016	2010	2014	2016	2010	2014	2016	2000	2010	2014	2016
Uruguay			99	100	100	h	100	100	100	100	100	96	98	98	98
Uzbekistan		100	100	100	100	100	100	100	100	100	100	80	89	91	92
Vanuatu		22	37	43	58	e	91	e	46	e		12	13	13	13
Venezuela (Bolivarian Republic of)		98	99	99	99	c	100	100	100	100	100	96	97	97	96
Viet Nam		86	98	99	99	c	100	100	100	100	100	14	47	61	67
United States Virgin Islands	100	k	100	100	100	h	100	100	100	100	100	100	100	100	100
Palestine (State of)		100	g	100	g	100	c	100	100	100	100				
Yemen		50	63	66	72	g	97	97	58			52	61	64	65
Zambia	14	e	17	e	22	e	28	d	27	62	3	14	15	16	16
Zimbabwe		34	36	32	32	c	38	86	16			32	30	30	29
World	70	77	80	84	87	87	97	97	76			50	56	58	59
High income	93	97	100	100	100	100	100	100	100	100	100	97	98	99	99
Low income	4	13	16	23	35	65	22	4	5	6	7				
Lower middle income	48	63	69	76	84	96	76	33	38	42	47				
Upper middle income	91	95	96	98	99	100	99	67	73	78	81				
Central Asia and Southern Asia	45	60	68	77	87	98	80	26	37	41	43				
Eastern Asia and South-eastern Asia	82	91	93	96	97	99	95	45	55	59	60				
Latin America and the Caribbean	85	91	94	96	98	99	91	78	85	87	87				
Northern America and Europe	100	100	100	100	100	100	100	96	98	98	99				
Oceania	80	81	82	82	83	83	46	78	78	78	78				
Sub-Saharan Africa	15	26	29	33	43	76	23	9	11	13	13				
Western Asia and Northern Africa	76	80	89	92	93	99	85	77	87	88	89				

Note: Unless otherwise noted, data are World Bank estimates based on the statistical model described in chapter 2 in the main report.

a. Most surveys report data on the percentage of households with access to electricity rather than on the percentage of the population with access.

b. Data are calculated based on the urban and total population with access and are not based on a statistical model.

c. Based on Multi-Indicator Cluster Survey (MICS)

d. Based on Demographic and Health Survey (DHS)

e. Based on Census

f. Based on Living Standards Measurement Survey (LSMS)

g. Based on other National Surveys conducted by national statistical agencies

h. Based on Socio-Economic Database for Latin America and the Caribbean (SEDLAC)

i. Based on Europe and Central Asia Poverty Database (ECAPOV)

j. Based on Multi-Tier Framework (MTF)

k. Based on assumption for countries considered "developed" by the UN or which are classified as High Income Countries (HIC)

l. Based on the World Health Organization Global Health Observatory

ENERGY EFFICIENCY

Country	Energy Intensity (MJ/USD 2011 PPP)						Compound annual growth rate of Energy Intensity (%)					
	1990	2000	2010	2014	2015		1990-2000	2000-2010	2010-2014	2014-2015		
Afghanistan	1.9	1.7	2.9	2.3	2.5		-11%	5.7%	-5.8%	6.1%	a	
Albania	7.5	4.4	3.1	3.2	2.9		-51%	-3.6%	0.7%	-8.6%	b	
Algeria	3.5	3.5	3.6	4.1	4.1		0.1%	0.2%	3.2%	0.7%	b	
Andorra												
Angola	4.6	5.2	3.7	3.6	3.6		1.3%	-3.4%	-0.4%	-1.1%	b	
Anguilla												
Antigua and Barbuda	3.8	3.2	4.1	4.0	3.9		-1.8%	2.6%	-1.2%	-1.6%	a	
Argentina	5.4	4.7	4.3	4.3	4.3		-1.5%	-0.9%	0.4%	-0.1%	b	
Armenia	24.4	9.4	5.4	5.3	5.4		-9.1%	-5.4%	-0.2%	0.7%	b	
Aruba	2.4	7.6	7.6	3.3	3.3		12.4%	0.0%	-19.1%	1.4%	a	
Australia	7.4	6.4	5.9	5.2	5.0		-1.5%	-0.9%	-3.2%	-2.3%	b	
Austria	4.3	3.9	3.9	3.6	3.6		-1.2%	0.2%	-2.4%	1.5%	b	
Azerbaijan	15.6	13.2	3.4	3.8	3.7		-1.7%	-12.8%	2.9%	-0.9%	b	
Bahamas	4.1	3.5	4.2	4.0	4.0		-1.5%	1.8%	-1.2%	1.3%	a	
Bahrain	12.4	11.0	10.4	9.9	9.8		-1.2%	-0.6%	-1.3%	-1.4%	b	
Bangladesh	3.9	3.5	3.4	3.1	3.1		-1.0%	-0.3%	-2.3%	0.3%	b	
Barbados	4.6	4.2	4.7	3.8	3.8		-1.0%	1.1%	-5.0%	-0.6%	a	
Belarus	22.4	13.6	7.5	6.8	6.5		-4.8%	-5.8%	-2.2%	-5.3%	b	
Belgium	6.6	6.4	5.6	4.8	4.7		-0.3%	-1.2%	-4.0%	-0.9%	b	
Belize	8.5	6.4	5.1	4.6	5.1		-2.9%	-2.3%	-2.5%	11.5%	a	
Benin	9.6	7.3	9.3	8.6	9.1		-2.7%	2.5%	-1.8%	5.3%	b	
Bermuda	2.9	2.3	2.4	2.4	2.0		-2.5%	0.5%	-0.3%	-14.9%	a	
Bhutan	30.0	21.8	12.6	11.2	10.4		-3.1%	-5.4%	-2.7%	-7.4%	a	
Bolivia	4.3	5.6	4.9	5.2	4.9		2.6%	-1.3%	1.2%	-4.2%	b	
Bosnia and Herzegovina	39.1	7.6	7.5	8.8	8.7		-15.1%	-0.2%	3.9%	-0.3%	b	
Botswana	4.6	4.2	3.4	3.3	3.4		-0.9%	-2.2%	-0.5%	1.7%	b	
Brazil	3.8	3.9	3.9	4.0	4.1		0.4%	-0.1%	1.0%	2.1%	b	
Brunei Darussalam	3.3	3.7	4.3	4.7	3.7		1.0%	1.7%	2.3%	-23.1%	b	
Bulgaria	14.6	10.6	6.6	6.4	6.4		-3.1%	-4.6%	-1.0%	0.4%	b	
Burkina Faso	12.9	6.8	6.5	6.1	6.0		-6.2%	-0.4%	-1.7%	-1.1%	a	
Burundi	9.8	11.3	13.3	7.5	7.7		1.5%	1.6%	-13.4%	3.0%	a	
Cambodia	8.5	6.2	5.8	5.6	5.8		-3.2%	-2.5%	-2.5%	3.3%	b	
Cameroon	6.2	6.9	5.5	4.9	4.8		1.0%	-2.2%	-3.1%	-1.7%	b	
Canada	10.2	9.2	8.0	7.6	7.3		-1.0%	-1.4%	-4.0%	-4.0%	b	
Cabo Verde	4.0	2.7	3.2	2.8	2.8		-4.0%	1.7%	-3.3%	0.4%	a	
Cayman Islands												
Central African Republic	11.3	7.3	5.7	8.5	8.1		-4.3%	-2.4%	10.4%	-4.4%	a	
Chad	6.8	6.9	3.2	2.8	2.8		0.2%	-7.5%	-3.2%	-0.2%	a	
Channel Islands												
Chile	4.9	4.8	3.9	3.8	3.8		-0.2%	-2.1%	-0.9%	0.2%	b	
China	21.0	10.1	8.3	7.1	6.7		-7.1%	-1.9%	-3.9%	-5.8%	b	
Colombia	3.9	3.2	2.6	2.3	2.3		-2.0%	-2.1%	-2.7%	-3.6%	b	
Comoros	3.2	4.0	4.8	4.5	4.7		2.3%	1.7%	-1.4%	4.2%	a	

Country	Energy Intensity (MJ/USD 2011 PPP)					Compound annual growth rate of Energy Intensity (%)				
	1990	2000	2010	2014	2015	1990-2000	2000-2010	2010-2014	2014-2015	
Democratic Republic of the Congo	11.1	23.4	21.1	22.6	20.9	7.7%	-1.0%	1.7%	-7.3%	b
Congo	2.6	2.1	3.1	4.1	4.0	-2.4%	4.1%	7.2%	-1.5%	b
Cook Islands										
Costa Rica	2.9	3.1	3.3	3.0	2.9	0.6%	0.6%	-2.2%	-4.4%	b
Côte d'Ivoire	4.6	5.8	7.8	8.4	7.2	2.2%	3.0%	2.1%	-14.3%	b
Croatia	6.8	5.0	4.4	3.9	4.1	-2.9%	-1.3%	-2.8%	2.7%	b
Cuba	5.0	4.2	2.5	2.1	2.1	-1.7%	-5.2%	-3.7%	-1.2%	b
Curaçao										
Cyprus	4.2	4.3	3.6	3.3	3.3	0.1%	-1.6%	-2.7%	0.4%	b
Czechia	10.1	8.0	6.4	5.7	5.5	-2.4%	-2.2%	-2.6%	-3.9%	b
Denmark	3.5	3.5	3.3	2.7	2.6	-1.9%	-0.3%	-5.6%	-1.7%	b
Djibouti	4.2	5.2	4.8	4.1	3.4	4.0%	-0.9%	-3.5%	-17.4%	a
Dominica	2.0	2.9	3.4	3.3	3.6	3.6%	1.5%	-0.5%	9.3%	a
Dominican Republic	4.4	4.4	2.8	2.4	2.5	0.0%	-4.5%	-3.7%	1.3%	b
Ecuador	3.5	4.0	3.5	3.4	3.6	1.3%	-1.1%	-0.8%	6.0%	b
Egypt	4.0	3.3	3.7	3.7	3.5	-1.9%	1.2%	0.1%	-5.5%	b
El Salvador	4.3	4.4	4.1	3.5	3.6	0.2%	-0.9%	-3.5%	3.8%	b
Equatorial Guinea	11.8	1.4	2.1	2.1	2.2	-19.3%	4.4%	-0.8%	7.2%	a
Eritrea	5.2	5.0	5.0	4.7	4.8	-0.4%	-0.4%	-1.3%	1.8%	b
Estonia	31.3	9.0	7.8	7.1	6.3	-11.7%	-1.5%	-2.3%	-10.7%	b
Ethiopia	30.6	32.3	19.0	14.7	13.7	0.5%	-5.2%	-6.2%	-6.8%	b
Faroe Islands										
Fiji	4.8	4.0	3.5	4.0	4.9	-1.8%	-1.5%	3.9%	20.3%	a
Finland	8.2	7.5	7.2	6.7	6.4	-0.9%	-0.5%	-1.7%	-5.0%	b
France	5.4	5.0	4.6	4.1	4.1	-0.9%	-0.8%	-2.7%	0.5%	b
French Polynesia										
Gabon	2.7	2.8	8.4	6.7	6.5	0.5%	11.6%	-5.6%	-2.4%	b
Gambia	5.0	4.9	4.4	4.6	4.5	-0.2%	-1.0%	1.2%	-2.6%	a
Georgia	13.5	8.3	4.9	5.6	5.8	-4.7%	-5.1%	3.3%	2.5%	b
Germany	5.9	4.7	4.1	3.6	3.6	-2.4%	-1.2%	-3.1%	-1.0%	b
Ghana	7.9	6.1	4.2	3.6	3.7	-2.5%	-3.7%	-4.2%	5.0%	b
Gibraltar										
Greece	4.3	4.2	3.6	3.7	3.7	-0.1%	-1.5%	0.6%	0.5%	b
Greenland										
Grenada	2.3	3.0	3.4	2.9	3.0	2.5%	1.4%	-3.8%	0.9%	a
Guam										
Guatemala	3.9	4.2	4.3	4.9	4.5	0.6%	0.4%	2.9%	-7.8%	b
Guinea	15.5	12.8	11.4	10.2	10.6	-1.9%	-1.2%	-2.8%	4.1%	a
Guinea-Bissau	12.6	13.7	12.9	12.4	12.0	0.8%	-0.6%	-1.0%	-2.9%	a
Guyana	11.6	9.3	7.4	6.6	6.4	-2.2%	-2.3%	-2.6%	-3.8%	a
Haiti	5.2	5.7	10.6	9.9	10.1	0.8%	6.5%	-1.5%	1.6%	b
Honduras	6.3	5.8	5.9	6.0	6.2	-0.9%	0.2%	0.6%	2.3%	b
Hong Kong (SAR, China)	2.3	2.5	1.7	1.6	1.5	0.7%	-3.9%	-2.1%	-4.2%	b
Hungary	8.4	5.7	5.0	4.2	4.3	-3.8%	-1.4%	-4.1%	2.6%	b
Iceland	12.8	13.6	18.4	18.1	16.6	0.6%	3.0%	-0.4%	-8.6%	b
India	8.4	7.0	5.4	5.0	4.7	-1.8%	-2.7%	-1.9%	-4.6%	b
Indonesia	4.9	5.3	4.3	3.7	3.5	0.8%	-2.1%	-3.9%	-4.3%	b
Iran (Islamic Republic of)	5.1	6.6	6.6	7.7	7.8	2.6%	0.0%	4.0%	1.3%	b
Iraq	4.2	3.8	4.0	4.0	3.7	-1.0%	0.6%	0.1%	-7.7%	b

Country	Energy Intensity (MJ/USD 2011 PPP)					Compound annual growth rate of Energy Intensity (%)				
	1990	2000	2010	2014	2015	1990-2000	2000-2010	2010-2014	2014-2015	2015-2015
Ireland	5.3	3.7	2.9	2.4	1.9	-3.5%	-2.5%	-4.9%	-17.6%	b
Isle of Man										
Israel	5.2	4.7	4.3	3.4	3.6	-11%	-0.8%	-5.5%	4.4%	b
Italy	3.5	3.5	3.4	3.0	3.1	-0.1%	-0.2%	-3.2%	3.2%	b
Jamaica	6.6	7.6	5.0	5.1	5.2	1.4%	-4.1%	0.7%	2.0%	b
Japan	4.9	5.0	4.6	3.9	3.7	0.3%	-1.0%	-4.0%	-3.3%	b
Jordan	6.1	5.5	4.4	4.5	4.6	-1.0%	-2.3%	0.8%	3.0%	b
Kazakhstan	14.4	10.1	8.8	7.9	7.9	-3.5%	-1.3%	-2.8%	0.7%	b
Kenya	8.1	8.7	8.0	7.8	7.8	0.8%	-0.9%	-0.5%	0.3%	b
Kiribati	3.3	2.8	4.8	4.0	4.1	-1.7%	5.7%	-4.4%	2.6%	a
Democratic People's Republic of Korea										
Republic of Korea	7.8	8.1	7.0	6.6	6.5	0.3%	-1.5%	-1.2%	-1.2%	b
Kosovo										
Kuwait	4.9	5.5	6.0	5.0	5.3	1.1%	0.9%	-4.4%	7.0%	b
Kyrgyzstan	20.5	9.6	7.6	9.2	8.6	-7.4%	-2.3%	5.0%	-6.2%	b
Lao People's Democratic Republic	8.7	5.6	4.8	3.9	5.2	-4.3%	-1.6%	-4.7%	31.3%	a
Latvia	21.4	6.1	4.9	4.1	3.9	-11.8%	-2.1%	-4.5%	-4.4%	b
Lebanon	3.9	5.1	3.8	4.2	4.2	2.8%	-2.9%	2.4%	0.6%	b
Lesotho	16.4	14.4	10.8	10.3	9.7	-1.3%	-2.8%	-1.2%	-5.7%	a
Liberia	20.7	20.2	27.0	25.4	26.0	-0.2%	3.0%	-1.6%	2.4%	a
Libya	5.2	5.6	4.8	4.4	4.2	0.9%	-1.7%	-1.7%	-5.3%	b
Liechtenstein										
Lithuania	28.9	7.0	4.5	3.8	3.9	-13.2%	-4.3%	-4.2%	1.4%	b
Luxembourg	6.4	3.9	3.8	3.1	2.9	-4.8%	-0.3%	-5.2%	-6.3%	b
Macao (SAR, China)	1.0	1.3	0.6	0.4	0.7	2.2%	-7.8%	-6.9%	50.5%	a
Macedonia, FYR	5.4	6.4	5.1	4.4	4.2	1.7%	-2.2%	-3.6%	-4.1%	b
Madagascar	4.4	5.2	5.1	5.3	5.4	1.6%	-0.1%	0.7%	1.8%	a
Malawi	9.1	6.6	4.9	4.3	4.1	-3.2%	-2.9%	-3.2%	-5.6%	a
Malaysia	4.8	5.4	5.2	5.1	4.7	1.2%	-0.4%	-0.2%	-8.8%	b
Maldives	17.2	3.6	3.5	4.0	3.8	-14.5%	-0.3%	3.3%	-2.9%	a
Malta	4.0	3.5	2.8	2.9	2.8	-1.3%	-2.4%	0.9%	-1.6%	b
Malta	5.1	2.9	3.0	2.3	1.8	-5.3%	0.1%	-5.9%	-2.9%	b
Marshall Islands		10.6	11.8	10.9	11.3		1.1%	-1.9%	3.7%	a
Mauritania	4.0	3.9	3.7	3.6	3.6	-0.4%	-0.3%	-0.6%	-1.6%	a
Mauritius	3.6	3.2	2.8	2.5	2.6	-1.0%	-1.5%	-2.0%	0.1%	b
Mexico	4.8	4.1	4.1	3.9	3.7	-1.5%	-0.1%	-1.5%	-3.0%	b
Micronesia (Federated States of)										
Moldova	81.2	14.3	10.5	8.2	8.4	-16.0%	-3.0%	-6.2%	2.8%	b
Monaco										
Mongolia	12.8	9.0	7.9	6.7	6.1	-3.4%	-1.3%	-4.1%	-8.5%	b
Montenegro										
Morocco	3.2	3.5	3.4	3.2	3.2	0.8%	-0.4%	-1.1%	-2.6%	b
Mozambique	49.4	29.6	18.8	16.6	17.3	-5.0%	-4.5%	-3.0%	4.4%	b
Myanmar	14.8	8.9	3.0	3.1	3.1	-4.9%	-10.2%	0.8%	-0.2%	b
Namibia										
Nauru										
Nepal	10.8	9.3	8.0	7.6	7.4	-1.5%	-1.5%	-1.2%	-2.4%	b
Netherlands	5.9	4.8	4.6	4.0	3.9	-2.1%	-0.3%	-3.8%	-0.7%	b

Country	Energy Intensity (MJ/USD 2011 PPP)					Compound annual growth rate of Energy Intensity (%)				
	1990	2000	2010	2014	2015	1990-2000	2000-2010	2010-2014	2014-2015	
New Caledonia										
New Zealand	6.7	6.6	5.5	5.5	5.4	-0.2%	-1.8%	0.2%	-1.7%	b
Nicaragua	6.8	6.1	5.4	5.2	5.4	-11%	-1.2%	-0.5%	3.5%	b
Niger	7.2	7.0	7.0	7.1	6.9	-0.3%	-0.3%	0.3%	-1.8%	b
Nigeria	9.6	10.3	6.1	5.6	5.7	0.7%	-5.1%	-2.2%	0.9%	b
Niue										
Northern Mariana Islands										
Norway	4.9	4.2	4.7	3.6	3.8	-1.4%	1.0%	-6.4%	4.8%	b
Oman	2.8	3.2	5.7	6.4	6.3	1.3%	6.0%	2.9%	-1.3%	b
Pakistan	5.5	5.5	4.8	4.5	4.4	0.1%	-1.3%	-1.6%	-2.5%	b
Palau	11.1	11.1	11.4	11.7	10.2	0.2%	0.2%	0.6%	-12.2%	a
Panama	3.2	3.4	2.7	2.3	2.2	0.4%	-2.2%	-4.1%	-4.4%	b
Papua New Guinea	13.2	9.9	9.5	7.7	9.3	-2.9%	-0.4%	-5.0%	20.1%	a
Paraguay	5.1	5.0	4.4	3.9	4.0	-0.1%	-1.2%	-3.3%	1.8%	b
Peru	3.5	3.0	2.8	2.8	2.8	-1.5%	-0.7%	-0.1%	0.3%	b
Philippines	4.8	5.1	3.2	3.0	3.1	0.5%	-4.4%	-1.5%	2.9%	b
Poland	11.0	6.6	5.1	4.3	4.1	-5.0%	-2.6%	-4.3%	-2.8%	b
Portugal	3.5	3.8	3.4	3.3	3.3	1.0%	-1.2%	-1.1%	2.1%	b
Puerto Rico	0.0	0.1	0.2	0.4	0.4	24.5%	7.8%	15.9%	5.2%	a
Qatar	9.3	7.1	5.2	6.5	6.4	-2.7%	-3.1%	5.7%	-1.1%	b
Romania	47093.5	6.4	4.1	3.4	3.3	-58.9%	-4.5%	-4.5%	-2.5%	b
Russian Federation	12.0	5.0	8.7	8.3	8.4	-8.5%	5.8%	-1.1%	0.8%	b
Rwanda	5.6	8.5	6.1	5.2	4.9	4.2%	-3.3%	-3.6%	-6.6%	a
Samoa	4.3	4.4	4.5	4.3	5.2	0.2%	0.2%	-1.4%	21.6%	a
San Marino										
Sao Tome and Principe	32.4	5.9	5.2	4.7	4.7	-15.6%	-1.3%	-2.5%	-1.1%	a
Saudi Arabia	3.5	4.6	6.2	5.8	5.8	2.7%	3.1%	-1.7%	-0.2%	b
Senegal	5.1	5.3	5.7	5.1	5.0	0.5%	0.7%	-2.9%	-1.6%	b
Serbia	18.9	9.6	7.1	5.9	6.6	-6.6%	-3.0%	-4.3%	10.5%	b
Seychelles	2.2	5.4	3.3	2.6	2.6	9.2%	-4.6%	-6.4%	2.9%	a
Sierra Leone	9.3	13.1	7.6	5.8	7.0	3.5%	-5.3%	-6.7%	20.8%	a
Singapore	4.6	3.8	2.9	2.5	2.4	-2.0%	-2.5%	-3.8%	-3.6%	b
Sint Maarten (Dutch part)										
Slovak Republic	18.6	8.8	5.5	4.5	4.5	-7.2%	-4.6%	-4.8%	-1.0%	b
Slovenia	7.1	5.9	5.2	4.7	4.6	-1.8%	-1.3%	-2.4%	-3.4%	b
Solomon Islands	9.4	7.7	6.3	5.2	5.0	-2.0%	-2.0%	-4.5%	-3.7%	a
Somalia										
South Africa	10.5	10.5	9.7	9.0	8.7	0.0%	-0.8%	-1.7%	-3.7%	b
South Sudan										
Spain	4.1	4.2	3.5	3.3	3.3	0.3%	-1.7%	-1.6%	0.6%	b
Sri Lanka	3.7	3.3	2.4	2.0	2.1	-1.0%	-3.4%	-3.7%	1.5%	b
Saint Kitts and Nevis										
Saint Lucia	3.7					-100.0%				
Saint Maarten (Dutch part)	2.0	3.1	3.1	3.2	3.2	4.7%	0.1%	0.6%	-1.3%	a
Saint Vincent and the Grenadines										
Saint Vincent and the Grenadines	2.2	2.8	3.1	2.9	2.9	2.4%	1.1%	-1.3%	-0.5%	a
Sudan	9.8	7.2	4.7	4.0	4.0	-3.1%	-4.2%	-4.0%	-0.3%	b
Suriname	5.7	5.7	4.0	3.4	3.4	-3.5%	-3.5%	-3.8%	-1.4%	b
Swaziland	4.3	6.6	5.0	4.5	4.6	4.5%	-2.8%	-2.5%	2.3%	a

Country	Energy Intensity (MJ/USD 2011 PPP)						Compound annual growth rate of Energy Intensity (%)					
	1990	2000	2010	2014	2015		1990-2000	2000-2010	2010-2014	2014-2015		
Sweden	7.5	6.1	5.3	4.7	4.3		-2.0%	-1.4%	-2.9%	-2.9%	-9.4%	
Switzerland	3.2	2.9	2.5	2.3	2.2		-0.9%	-1.4%	-2.7%	-2.7%	-2.9%	
Syrian Arab Republic	11.6	10.4	10.0	4.4	4.0		-1.1%	-0.5%	-18.3%	-18.3%	-9.5%	
Tajikistan	11.5	12.3	5.7	5.1	5.0		0.6%	-7.4%	-2.7%	-2.7%	-11%	
Tanzania	11.2	11.5	9.2	8.5	8.3		0.2%	-2.1%	-2.0%	-2.0%	-2.2%	
Thailand	4.7	5.2	5.4	5.6	5.4		1.1%	0.4%	0.5%	0.5%	-2.6%	
Timor-Leste												
Togo	10.3	13.9	16.6	14.6	14.3		3.0%	1.8%	-3.1%	-3.1%	-1.9%	
Tonga	3.3	3.2	3.2	3.0	3.0		-0.1%	-0.1%	-1.8%	-1.8%	1.5%	
Trinidad and Tobago	16.7	17.7	20.2	19.1	19.1		0.6%	1.3%	-1.4%	-1.4%	-0.3%	
Tunisia	4.5	4.2	3.9	3.7	3.8		-0.7%	-0.7%	-1.2%	-1.2%	2.0%	
Turkey	3.6	3.6	3.4	2.9	2.9		0.1%	-0.5%	-3.8%	-3.8%	0.0%	
Turkmenistan	23.9	25.9	18.8	14.3	13.9		0.8%	-3.2%	-6.6%	-6.6%	-3.0%	
Turks and Caicos Islands												
Tuvalu	3.5	3.3	3.9	3.7	3.9		-0.3%	1.5%	-1.3%	-1.3%	6.0%	
Uganda	20.6	12.4	10.0	9.7	9.6		-4.9%	-2.1%	-0.9%	-0.9%	-0.2%	
Ukraine	19.4	23.7	15.4	12.5	11.8		2.0%	-4.2%	-5.2%	-5.2%	-5.5%	
United Arab Emirates	4.1	4.1	5.5	5.3	5.1		-0.2%	3.1%	-1.2%	-1.2%	-3.6%	
United Kingdom	5.6	4.8	3.8	3.1	3.0		-1.6%	-2.4%	-4.9%	-4.9%	-1.7%	
United States	8.7	7.3	6.1	5.6	5.4		-1.7%	-1.9%	-1.9%	-1.9%	-3.8%	
Uruguay	3.1	3.0	3.0	2.9	3.1		-0.2%	-0.2%	-0.6%	-0.6%	6.9%	
Uzbekistan	30.8	34.5	14.9	11.1	10.0		1.1%	-8.0%	-7.2%	-7.2%	-9.7%	
Vanuatu	3.1	4.0	3.9	4.3	3.9		2.4%	-0.3%	2.4%	2.4%	-9.3%	
Venezuela	5.8	6.1	6.3	5.5	4.7		0.5%	0.4%	-3.5%	-3.5%	-13.7%	
Vietnam	7.5	5.8	6.3	5.7	5.9		-2.5%	0.8%	-2.4%	-2.4%	3.5%	
United States Virgin Islands												
Palestine (State of)												
Yemen	2.6	2.9	3.1	3.2	2.1		0.9%	0.8%	1.0%	1.0%	-36.2%	
Zambia	12.1	12.0	7.8	7.4	7.3		-0.1%	-4.2%	-1.2%	-1.2%	-0.7%	
Zimbabwe	14.7	13.3	19.5	15.7	15.8		-1.0%	3.9%	-5.3%	-5.3%	0.3%	
World	7.8	6.6	5.9	5.4	5.3		-1.6%	-1.2%	-2.1%	-2.1%	-2.9%	
High income	7.1	6.2	5.4	5.0	4.8		-1.3%	-1.4%	-2.1%	-2.1%	-2.3%	
Low income	12.9	13.1	10.9	10.0	9.8		0.2%	-1.8%	-2.2%	-2.2%	-2.3%	
Lower middle income	8.5	7.0	5.3	4.8	4.6		-2.0%	-2.7%	-2.6%	-2.6%	-3.8%	
Upper middle income	9.0	6.9	6.5	6.0	5.8		-2.7%	-0.5%	-2.2%	-2.2%	-3.8%	
Central Asia and Southern Asia	8.2	7.1	5.7	5.4	5.2		-1.4%	-2.2%	-1.4%	-1.4%	-3.6%	
Eastern Asia and South-eastern Asia	8.7	7.1	6.7	5.9	5.6		-2.0%	-0.7%	-3.0%	-3.0%	-4.4%	
Latin America and the Caribbean	4.5	4.3	4.1	3.9	3.9		-0.5%	-0.5%	-0.8%	-0.8%	-1.4%	
Northern America and Europe	8.1	6.7	5.6	5.2	5.0		-1.9%	-1.7%	-2.1%	-2.1%	-2.6%	
Oceania	7.4	6.4	5.9	5.2	5.1		-1.3%	-1.0%	-2.7%	-2.7%	-1.8%	
Sub-Saharan Africa	9.2	9.8	7.8	7.3	7.2		0.6%	-2.2%	-1.6%	-1.6%	-1.5%	
Western Asia and Northern Africa	4.5	4.4	5.0	4.4	4.8		-0.3%	1.2%	-3.2%	-3.2%	8.6%	

a. Source: Energy Balances, UN Statistics Division (2017)

b. Source: World Energy Balances, IEA (2017)

c. Sources: World Bank analysis based on World Energy Statistics and Balances, IEA (2017); Energy Balances, UN Statistics Division (2017)

RENEWABLE ENERGY

Country	Share in total final energy consumption (%)																				Final use of renewable energy (petajoules)				Total final energy consumption (petajoules)	
	Renewable Energy										Solid biofuels					Other (Biogas, renewable waste, marine)					Electricity	Heat	Transport	2015	2015	
	2010		2014		2015		2015		2015		2015		2015		2015		2015		2015							
	1990	2010	2014	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015	2015			
Afghanistan	a	15.92%	14.84%	19.31%	18.42%	9.60%	0.00%	8.83%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	12.04	13.09	-	-	136				
Albania	b	25.52%	37.12%	38.69%	38.62%	8.20%	2.27%	25.98%	1.53%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	21.23	9.07	1	1	82				
Algeria	a	0.18%	0.26%	0.07%	0.06%	0.01%	0.01%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.58	0.25	-	-	1,414				
American Samoa	a	0.00%	0.00%	0.70%	0.89%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	-	-	-	1				
Andorra	a	14.27%	19.09%	19.89%	19.75%	0.27%	0.00%	18.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.50	0.14	-	-	8				
Angola	b	72.26%	54.19%	50.80%	49.57%	45.19%	1.10%	3.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	16.13	227.64	-	-	492				
Anguilla	a	0.30%	0.12%	0.13%	0.11%	0.11%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.00	-	-	2				
Antigua and Barbuda	a	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	-	5				
Argentina	a	8.92%	8.96%	10.90%	10.04%	0.50%	2.28%	5.14%	2.04%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	131.36	59.50	49	49	2,385				
Armenia	b	2.12%	9.36%	7.72%	15.79%	9.35%	0.00%	6.43%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.48	7.96	-	-	85				
Aruba	a	0.27%	5.46%	6.93%	6.73%	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.42	0.02	-	-	7				
Australia	b	8.01%	8.11%	9.28%	9.18%	0.00%	5.31%	1.25%	0.32%	1.07%	1.63%	1.05%	0.08%	0.22%	0.00%	0.00%	0.00%	103.77	182.77	10	10	3,233				
Austria	b	25.14%	30.66%	35.39%	34.39%	0.00%	15.74%	12.47%	2.72%	1.63%	1.05%	0.08%	0.71%	0.07%	0.00%	0.00%	0.00%	167.49	167.80	27	27	1,054				
Azerbaijan	b	0.72%	4.45%	2.12%	2.31%	0.66%	0.31%	1.27%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.47	3.21	0	0	332				
Bahamas	a	0.00%	1.66%	1.09%	1.21%	0.00%	1.21%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.31	-	-	26				
Bahrain	b	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	-	192				
Bangladesh	b	71.66%	41.05%	37.63%	34.75%	34.55%	0.00%	0.15%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	2.15	383.91	-	-	1,111				
Barbados	a	18.94%	9.03%	3.16%	2.79%	0.09%	2.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.32	-	-	11				
Belarus	b	0.82%	7.02%	6.63%	6.77%	2.11%	4.44%	0.05%	0.12%	0.01%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.86	43.58	0	0	658				
Belgium	b	1.27%	5.84%	9.07%	9.20%	0.00%	4.66%	0.10%	0.84%	1.69%	1.00%	0.00%	0.91%	0.00%	0.00%	0.00%	0.00%	61.20	56.21	11	11	1,395				
Belize	a	38.01%	33.71%	36.91%	35.02%	0.18%	26.99%	7.85%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.96	3.32	-	-	12				
Benin	b	93.70%	48.12%	52.54%	50.86%	42.08%	8.64%	0.11%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22	76.25	-	-	150				
Bermuda	a	0.00%	2.39%	1.99%	2.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.36%	0.00%	0.00%	0.00%	0.00%	-	0.12	-	-	5				
BES Islands	a	0.00%	0.00%	3.03%	2.97%	0.10%	0.00%	0.00%	0.00%	2.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.11	0.00	-	-	4				
Bhutan	a	95.90%	90.89%	87.03%	86.90%	74.98%	0.15%	11.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	7.41	47.21	-	-	63				
Bolivia	b	37.36%	20.07%	16.82%	17.54%	6.96%	7.61%	2.94%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.90	39.93	-	-	278				
Bosnia and Herzegovina	b	7.30%	19.57%	41.75%	40.75%	31.88%	1.29%	7.58%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	13.65	59.70	-	-	180				
Botswana	b	47.58%	30.19%	28.80%	28.88%	28.87%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	23.15	-	-	80				
British Virgin Islands	a	1.45%	47.01%	1.22%	1.23%	0.88%	0.00%	0.00%	0.00%	0.21%	0.13%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.01	0.01	-	-	2				
Brazil	b	49.86%	47.01%	41.84%	43.79%	3.21%	18.60%	12.33%	8.55%	0.74%	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1,309.41	1,819.04	759	759	8,877				
Brunei Darussalam	b	0.67%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01	0.00	-	-	39				
Bulgaria	b	19.2%	14.37%	16.97%	17.65%	7.66%	3.13%	3.03%	1.53%	0.78%	0.97%	0.00%	0.36%	0.00%	0.00%	0.00%	0.00%	18.35	44.71	6	6	391				
Burkina Faso	a	93.16%	81.45%	75.24%	74.17%	73.46%	0.43%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.40	108.52	-	-	147				
Burundi	a	95.20%	96.76%	94.60%	93.07%	93.07%	1.12%	1.49%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.77	48.69	-	-	52				
Cambodia	b	0.00%	68.52%	68.01%	64.92%	46.47%	15.13%	3.32%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	8.33	151.48	-	-	246				
Cameroon	b	81.59%	78.60%	76.98%	76.54%	64.49%	6.55%	5.49%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.85	201.72	-	-	284				
Canada	b	22.02%	22.08%	22.02%	22.03%	0.00%	5.46%	14.26%	1.03%	0.99%	0.13%	0.00%	0.14%	0.00%	0.00%	0.00%	0.00%	1,141.36	371.38	74	74	7,206				
Cape Verde	a	36.63%	21.74%	26.20%	26.58%	22.91%	0.26%	0.00%	0.00%	3.16%	0.25%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22	1.51	-	-	6				

Country	Share in total final energy consumption (%)														Final use of renewable energy (petajoules)						Total final energy consumption (petajoules)				
	Renewable Energy						Solid biofuels				Hydro				Solar		Geothermal		Other (Biogas, renewable waste, marine)		Electricity	Heat	Transport	2015	2015
	1990	2010	2014	2015	2015	2015	Traditional use	Modern use	Hydro	Liquid Biofuels	Wind	2015	2015	2015	2015	2015	2015	2015							
Cayman Islands																							5		
Central African Republic	a	93.49%	79.81%	76.90%	76.57%	38.13%	35.17%	32.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.58	12.94	-	-	18		
Chad	a	98.16%	90.79%	89.24%	89.36%	88.02%	1.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	59.32	-	-	66		
Channel Islands																									
Chile	b	34.03%	27.04%	26.72%	24.88%	0.00%	16.35%	7.31%	0.00%	0.65%	0.50%	0.00%	0.00%	0.00%	0.07%	104.94	154.67	-	-	-	-	-	1,043		
China	b	34.08%	12.88%	12.22%	12.41%	4.61%	0.23%	4.58%	0.12%	0.76%	1.40%	0.28%	0.43%	0.30%	0.43%	4,201.42	4,797.34	86	73,183	-	-	-	-		
Chinese Taipei	b	1.94%	1.55%	2.04%	2.12%	0.00%	0.31%	0.74%	0.15%	0.25%	0.37%	0.00%	0.00%	0.00%	0.30%	29.34	12.20	0	1,967	-	-	-	-		
Christmas Island																									
Cocos Islands																									
Colombia	b	38.25%	27.93%	24.44%	23.56%	5.73%	6.37%	11.35%	0.10%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	127.39	123.48	1	1,069	-	-	-	-		
Comoros	a	49.84%	46.41%	46.62%	45.33%	45.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	1.61	-	4	-	-	-	-	-	
Congo, Dem. Rep.	b	92.05%	96.83%	92.87%	95.82%	78.68%	14.24%	2.90%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	26.12	836.40	-	900	-	-	-	-	-	
Congo, Rep.	b	65.41%	55.15%	62.40%	62.40%	59.81%	0.80%	1.80%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.53	51.62	-	85	-	-	-	-	-	
Cook Islands	a	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01	(0.01)	-	1	-	-	-	-	-	
Costa Rica	b	45.38%	42.31%	37.84%	38.73%	34.3%	13.52%	16.69%	0.00%	2.23%	0.01%	2.85%	0.00%	0.00%	0.00%	33.60	25.16	-	152	-	-	-	-	-	
Côte d'Ivoire	b	73.58%	75.37%	72.22%	64.53%	56.93%	6.41%	11.9%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.62	178.65	-	282	-	-	-	-	-	
Croatia	b	21.92%	29.78%	33.65%	33.13%	17.98%	0.90%	11.62%	0.37%	1.45%	0.26%	0.17%	0.39%	0.00%	0.00%	36.92	51.68	1	270	-	-	-	-	-	
Cuba	b	42.89%	13.16%	18.80%	19.28%	0.13%	15.93%	0.05%	3.13%	0.02%	0.03%	0.00%	0.00%	0.00%	0.00%	2.30	55.44	-	299	-	-	-	-	-	
Curaçao	b	0.00%	0.24%	0.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.35%	0.00%	0.00%	0.00%	0.00%	0.00%	0.09	0.00	-	25	-	-	-	-	-	
Cyprus	b	0.50%	6.35%	9.36%	9.94%	0.56%	0.65%	0.00%	0.69%	1.22%	5.52%	0.11%	1.20%	0.00%	0.00%	1.29	4.16	0	59	-	-	-	-	-	
Czech Republic	b	3.57%	10.92%	14.83%	14.83%	0.00%	10.78%	0.44%	1.29%	0.14%	0.64%	0.00%	1.54%	0.00%	0.00%	22.37	107.99	12	963	-	-	-	-	-	
Denmark	b	7.04%	21.35%	30.27%	33.17%	0.00%	16.93%	0.01%	1.85%	9.87%	0.85%	0.01%	3.85%	0.00%	0.00%	72.41	99.29	10	547	-	-	-	-	-	
Djibouti	a	26.59%	34.43%	34.15%	15.38%	15.38%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.76	-	5	-	-	-	-	-	
Dominica	a	14.60%	8.91%	7.83%	4.13%	0.00%	0.00%	3.70%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.06	0.06	-	1	-	-	-	-	-	
Dominican Republic	b	28.01%	16.98%	18.02%	16.48%	9.13%	4.35%	1.57%	0.00%	0.97%	0.46%	0.00%	0.00%	0.00%	0.00%	6.51	30.84	-	227	-	-	-	-	-	
Ecuador	b	24.20%	12.11%	12.22%	13.82%	1.80%	3.36%	8.44%	0.11%	0.06%	0.02%	0.02%	0.00%	0.00%	0.00%	43.48	24.31	1	495	-	-	-	-	-	
Egypt	b	8.50%	5.72%	5.87%	5.71%	1.72%	1.79%	1.96%	0.00%	0.20%	0.04%	0.00%	0.00%	0.00%	0.00%	45.86	73.24	-	2,086	-	-	-	-	-	
El Salvador	b	67.14%	30.77%	28.27%	24.40%	10.57%	4.00%	4.52%	0.00%	0.00%	0.00%	0.00%	0.16%	0.00%	0.00%	11.94	13.23	-	103	-	-	-	-	-	
Equatorial Guinea	a	84.71%	5.95%	7.64%	7.82%	5.65%	0.00%	2.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.46	3.81	-	67	-	-	-	-	-	
Eritrea	b	0.00%	81.25%	79.93%	79.77%	75.84%	3.90%	0.00%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.01	18.74	-	23	-	-	-	-	-	
Estonia	b	3.36%	25.13%	25.33%	27.48%	0.00%	25.49%	0.06%	0.12%	1.47%	0.00%	0.00%	0.34%	0.00%	0.00%	3.56	27.88	0	115	-	-	-	-	-	
Ethiopia	b	96.64%	94.52%	92.07%	92.16%	89.53%	0.87%	1.62%	0.01%	0.13%	0.00%	0.00%	0.00%	0.00%	0.00%	29.92	1,544.11	0	1,708	-	-	-	-	-	
Falkland Islands (Malvinas)	a	113%	3.71%	3.87%	3.89%	0.86%	0.00%	0.00%	0.00%	3.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02	0.01	-	1	-	-	-	-	-	
Faroe Islands	a	2.54%	3.38%	6.54%	7.51%	0.00%	0.00%	5.29%	0.00%	2.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.62	0.00	-	8	-	-	-	-	-	
Fiji	a	53.09%	29.61%	34.57%	31.26%	1.15%	24.53%	5.51%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	1.34	6.15	-	24	-	-	-	-	-	
Finland	b	24.51%	33.58%	41.24%	43.24%	0.00%	31.67%	7.14%	2.18%	0.99%	0.01%	0.00%	1.25%	0.00%	0.00%	125.72	271.83	21	968	-	-	-	-	-	
France	b	10.41%	11.85%	13.35%	13.50%	0.00%	6.60%	2.62%	2.19%	1.02%	0.42%	0.07%	0.57%	0.00%	0.00%	242.62	394.21	123	5,632	-	-	-	-	-	
French Guiana	a	5.73%	29.55%	30.03%	32.44%	10.02%	3.71%	16.89%	0.00%	1.82%	0.00%	0.00%	0.00%	0.00%	0.00%	1.69	1.24	-	9	-	-	-	-	-	
French Polynesia	a	4.73%	11.57%	10.16%	9.83%	0.41%	0.00%	8.97%	0.00%	0.00%	0.45%	0.00%	0.00%	0.00%	0.00%	0.73	0.03	-	8	-	-	-	-	-	
Gabon	b	78.28%	85.88%	81.35%	82.01%	21.98%	58.57%	1.46%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.92	159.26	-	198	-	-	-	-	-	
Gambia	a	61.44%	54.71%	51.93%	51.51%	51.51%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	5.26	-	10	-	-	-	-	-	
Georgia	b	12.77%	39.15%	31.89%	28.66%	10.37%	0.20%	17.65%	0.00%	0.00%	0.06%	0.38%	0.00%	0.00%	0.00%	27.84	17.36	-	158	-	-	-	-	-	
Germany	b	21.0%	10.29%	13.38%	14.21%	0.00%	5.00%	0.66%	1.38%	2.75%	1.68%	0.05%	2.69%	0.00%	0.00%	541.77	533.79	107	8,328	-	-	-	-	-	
Ghana	b	80.63%	49.78%	45.05%	41.41%	27.88%	7.94%	5.59%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.85	101.41	-	283	-	-	-	-	-	

Country	Share in total final energy consumption (%)														Final use of renewable energy (petajoules)						Total final energy consumption (petajoules)
	Renewable Energy						Solid biofuels				Other (Biogas, renewable waste, marine)				Electricity	Heat	Transport	2015	2015		
	Traditional use		Modern use		Hydro	Liquid Biofuels	Wind	Solar	Geothermal	Other (Biogas, renewable waste, marine)	2015	2015	2015	2015							
	1990	2010	2014	2015											2015	2015	2015	2015	2015	2015	2015
Macao (SAR, China)	a	0.66%	5.81%	10.02%	7.05%	0.00%	0.09%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.41	-	34		
Macedonia, FYR	b	2.41%	22.33%	21.20%	24.22%	12.24%	0.58%	10.11%	0.00%	0.66%	0.12%	0.40%	0.00%	0.00%	0.00%	0.00%	8.58	10.31	-	78	
Madagascar	a	85.65%	81.93%	72.03%	70.17%	31.59%	36.79%	1.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.35	89.60	-	131	
Malawi	a	84.03%	79.47%	79.95%	83.65%	36.36%	38.94%	8.36%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	5.07	45.66	-	61	
Malaysia	b	11.98%	3.82%	4.77%	5.19%	1.86%	0.11%	2.32%	0.85%	0.00%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	47.52	35.51	16	1,912	
Maldives	a	4.46%	11.6%	0.90%	1.01%	0.91%	0.00%	0.00%	0.00%	0.10%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02	0.14	-	16	
Mali	a	88.64%	69.13%	64.59%	61.53%	57.20%	1.62%	2.71%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	2.11	45.71	-	78	
Malta	b	0.00%	1.39%	3.93%	5.36%	0.25%	0.00%	0.00%	0.96%	0.00%	3.77%	0.00%	0.00%	0.00%	0.00%	0.00%	0.58	0.26	0	19	
Marshall Islands	a	0.00%	13.31%	12.02%	11.16%	11.13%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.19	-	2	
Martinique	a	2.13%	2.63%	2.43%	2.45%	0.31%	0.97%	0.00%	0.00%	0.03%	0.75%	0.00%	0.00%	0.00%	0.00%	0.00%	0.14	0.30	-	18	
Mauritania	a	47.00%	34.00%	32.02%	32.16%	31.08%	0.00%	0.00%	0.00%	0.83%	0.24%	0.00%	0.00%	0.00%	0.00%	0.00%	0.45	12.97	-	42	
Mauritius	b	47.07%	13.66%	10.63%	11.54%	0.65%	9.19%	1.21%	0.00%	0.03%	0.26%	0.00%	0.00%	0.00%	0.00%	0.00%	2.27	1.59	-	33	
Mayotte	a	33.41%	9.96%	10.55%	10.24%	8.45%	0.00%	0.00%	0.00%	0.00%	1.79%	0.00%	0.00%	0.00%	0.00%	0.00%	0.05	0.28	-	3	
Mexico	b	14.41%	9.36%	9.76%	9.22%	0.00%	6.15%	1.92%	0.00%	0.54%	0.20%	0.39%	0.00%	0.00%	0.00%	0.00%	142.70	299.02	-	4,793	
Micronesia (Federated States of)	a	0.00%	1.50%	1.16%	1.20%	0.36%	0.66%	0.02%	0.00%	0.00%	0.16%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.02	-	2	
Moldova	b	11.4%	8.44%	13.05%	14.27%	12.21%	11.4%	0.86%	0.00%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.88	12.84	-	96	
Monaco																					
Mongolia	b	1.89%	4.35%	3.27%	3.43%	2.08%	0.89%	0.00%	0.00%	0.45%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.59	3.88	-	130	
Montenegro	b	0.00%	49.09%	45.99%	43.00%	23.35%	2.33%	17.29%	0.00%	0.00%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	4.79	7.12	-	28	
Montserrat	a	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	1	
Morocco	b	19.48%	14.41%	11.72%	11.32%	4.04%	4.73%	1.09%	0.00%	1.46%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	15.42	52.94	-	604	
Mozambique	b	93.10%	91.30%	88.86%	86.40%	67.84%	8.96%	9.60%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	41.84	334.86	-	436	
Myanmar	b	90.91%	84.40%	66.13%	61.53%	55.84%	1.80%	3.88%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	28.39	421.60	-	731	
Namibia	b	0.00%	26.37%	27.62%	26.47%	6.00%	1.65%	18.68%	0.00%	0.00%	0.15%	0.00%	0.00%	0.00%	0.00%	0.00%	13.32	5.55	-	71	
Nauru	a	0.00%	0.08%	0.08%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	-	-	0	
Nepal	b	95.12%	87.29%	84.37%	85.26%	78.91%	1.04%	2.90%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	14.03	398.30	-	484	
Netherlands	b	1.20%	3.87%	5.66%	5.89%	0.00%	1.92%	0.02%	0.74%	1.40%	0.27%	0.13%	0.00%	0.00%	0.00%	0.00%	46.19	48.73	12	1,823	
New Caledonia	a	10.16%	4.48%	3.98%	4.76%	0.01%	0.00%	3.60%	0.00%	0.65%	0.50%	0.00%	0.00%	0.00%	0.00%	0.00%	1.44	0.14	-	33	
New Zealand	b	30.03%	31.32%	30.32%	30.79%	0.00%	8.21%	14.75%	0.02%	1.42%	0.09%	6.11%	0.00%	0.00%	0.00%	0.00%	112.84	50.31	0	530	
Nicaragua	b	68.77%	52.64%	51.84%	48.20%	36.46%	7.02%	7.06%	0.00%	2.23%	0.00%	1.74%	0.00%	0.00%	0.00%	0.00%	6.12	43.92	-	104	
Niger	b	0.00%	80.71%	78.14%	78.94%	78.92%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.03	89.80	-	114	
Nigeria	b	87.78%	86.78%	87.30%	86.64%	80.49%	5.81%	0.33%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	16.44	4,304.33	-	4,987	
Niue	a	0.57%	26.70%	23.14%	22.37%	0.56%	0.00%	0.00%	0.00%	0.00%	21.80%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.02	-	0	
Northern Mariana Islands	a	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	1	
Norway	b	59.17%	56.42%	57.20%	57.77%	0.00%	4.64%	50.54%	0.79%	0.92%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	389.70	40.89	6	756	
Oman	b	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	754	
Pakistan	b	57.50%	46.72%	46.60%	46.48%	38.44%	4.80%	31.5%	0.00%	0.08%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.57	1,345.67	-	3,112	
Palau	a	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	2	
Palestine (State of)	a	22.08%	14.06%	10.53%	10.47%	6.01%	0.25%	0.00%	0.00%	0.00%	4.21%	0.00%	0.00%	0.00%	0.00%	0.00%	-	6.70	-	64	
Panama	a	43.59%	19.94%	19.77%	21.23%	4.87%	2.55%	12.91%	0.00%	0.86%	0.03%	0.00%	0.00%	0.00%	0.00%	0.00%	20.08	10.64	-	145	
Papua New Guinea	a	71.70%	55.25%	52.50%	43.53%	4.53%	5.03%	2.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.55	56.19	-	116	
Paraguay	b	78.51%	64.25%	63.12%	61.68%	17.94%	22.60%	18.59%	2.55%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	38.08	83.10	5	205	
Peru	b	39.43%	30.80%	26.00%	25.50%	11.49%	1.08%	10.14%	2.25%	0.25%	0.24%	0.00%	0.00%	0.00%	0.00%	0.00%	80.34	93.53	15	739	
Philippines	b	50.95%	28.81%	28.58%	27.45%	13.42%	7.44%	2.15%	1.49%	0.19%	0.03%	2.74%	0.00%	0.00%	0.00%	0.00%	62.05	249.51	17	1,195	

Country	Share in total final energy consumption (%)														Final use of renewable energy (petajoules)						Total final energy consumption (petajoules)
	Renewable Energy						Solid biofuels				Other (Biogas, renewable waste, marine)				Electricity	Heat	Transport				
	Traditional use			Modern use			Hydro	Liquid Biofuels	Wind	Solar	Geothermal	Other (Biogas, renewable waste, marine)									
	1990	2010	2014	2015	2015	2015							2015	2015	2015	2015	2015	2015	2015	2015	
Poland	2.50%	9.49%	11.57%	11.91%	0.00%	0.00%	8.80%	0.20%	1.29%	1.20%	0.08%	0.04%	0.31%	63.52	206.10	33	2,538				
Portugal	26.94%	27.83%	30.46%	27.16%	0.00%	0.00%	13.01%	4.45%	2.31%	5.97%	0.95%	0.12%	0.36%	78.40	777.3	14	625				
Puerto Rico	1.75%	0.57%	1.63%	1.84%	0.00%	0.00%	0.00%	0.26%	0.00%	1.13%	0.44%	0.00%	0.00%	1.16	(0.00)	-	63				
Qatar	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	578				
Reunion	37.52%	16.45%	16.79%	17.49%	1.42%	7.32%	4.12%	4.37%	0.95%	1.86%	0.52%	0.11%	0.05%	61.58	141.72	8	894				
Romania	3.36%	24.10%	24.33%	23.70%	13.82%	2.01%	4.37%	0.95%	0.00%	0.00%	0.00%	0.00%	0.00%	414.66	107.71	-	15,809				
Russian Federation	3.75%	3.34%	3.42%	3.30%	0.28%	0.40%	2.61%	1.03%	0.00%	0.00%	0.05%	0.00%	0.00%	0.86	68.07	-	80				
Rwanda	80.09%	90.66%	88.18%	86.66%	78.45%	7.13%	1.03%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01	0.01	-	0				
Saint Helena	15.07%	9.17%	8.74%	12.60%	5.19%	0.00%	0.00%	0.00%	0.00%	7.05%	0.36%	0.00%	0.00%	0.13	1.30	-	4				
Samoa	46.20%	46.75%	42.34%	34.32%	29.53%	1.73%	2.44%	0.00%	0.00%	0.02%	0.61%	0.00%	0.00%	0.13	1.30	-	4				
San Marino																					
São Tomé and Príncipe	50.93%	43.76%	41.81%	41.06%	40.03%	0.00%	1.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02	0.78	-	2				
Saudi Arabia	0.04%	0.01%	0.01%	0.01%	0.01%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00	0.28	-	4,774				
Senegal	55.55%	50.26%	43.36%	42.71%	40.07%	1.71%	0.92%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	1.26	47.51	-	114				
Serbia	15.49%	20.60%	23.43%	21.17%	10.74%	2.39%	7.91%	0.00%	0.00%	0.00%	0.01%	0.08%	0.05%	26.23	43.71	-	330				
Seychelles	4.25%	0.63%	1.30%	1.35%	0.70%	0.00%	0.00%	0.00%	0.00%	0.51%	0.14%	0.00%	0.00%	0.03	0.03	-	4				
Sierra Leone	91.28%	84.18%	73.05%	77.66%	53.45%	23.77%	0.44%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.24	42.31	-	55				
Singapore	0.19%	0.48%	0.62%	0.71%	0.00%	0.17%	0.00%	0.00%	0.00%	0.00%	0.05%	0.00%	0.04%	3.12	0.00	-	440				
Slovak Republic	2.23%	10.28%	12.24%	13.41%	0.00%	6.86%	3.38%	1.60%	0.01%	0.01%	0.50%	0.04%	1.02%	19.90	24.59	6	377				
Slovenia	12.35%	19.50%	22.30%	20.88%	0.00%	12.21%	6.06%	6.64%	0.01%	0.67%	0.90%	0.00%	0.38%	13.53	26.00	1	195				
Solomon Islands	59.01%	63.49%	62.99%	63.31%	63.17%	0.00%	0.00%	0.00%	0.00%	0.00%	0.13%	0.00%	0.00%	0.01	3.21	-	5				
Somalia	87.20%	93.57%	94.43%	94.29%	60.51%	33.78%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	98.91	-	105				
South Africa	16.63%	17.08%	16.59%	17.15%	13.59%	2.88%	0.08%	0.00%	0.00%	0.22%	0.38%	0.00%	0.00%	16.11	488.60	-	2,943				
South Sudan	0.00%	0.00%	29.83%	39.07%	36.56%	2.48%	0.00%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.01	6.89	-	18				
Spain	10.54%	14.40%	17.35%	16.25%	0.00%	5.62%	2.68%	1.30%	4.70%	1.69%	0.02%	0.00%	0.25%	292.00	181.21	40	3,159				
Sri Lanka	78.09%	61.84%	57.59%	52.88%	28.90%	19.08%	4.61%	0.00%	0.00%	0.27%	0.02%	0.00%	0.00%	20.49	198.86	-	415				
Saint Barthelemy	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	-				
St. Kitts and Nevis	40.03%	0.99%	1.70%	1.64%	0.01%	0.00%	0.00%	0.00%	0.00%	1.27%	0.36%	0.00%	0.00%	0.03	0.00	-	2				
St. Lucia	5.47%	2.20%	2.15%	2.13%	2.13%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.08	-	4				
Sint Maarten (Dutch part)	0.00%	0.00%	0.05%	0.05%	0.05%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.00	-	8				
St. Martin (French part)	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	-				
Saint Pierre and Miquelon	0.00%	1.34%	1.14%	1.12%	0.74%	0.00%	0.00%	0.00%	0.00%	0.38%	0.00%	0.00%	0.00%	0.00	0.01	-	1				
St. Vincent and the Grenadines	15.44%	5.49%	5.80%	5.81%	2.32%	0.00%	3.48%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.08	0.06	-	2				
St. Vincent	73.27%	61.44%	62.44%	61.60%	36.88%	19.08%	5.64%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	24.58	244.03	-	436				
Suriname	0.00%	24.54%	25.38%	24.91%	6.15%	1.76%	17.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	4.28	1.99	-	25				
Swaziland	85.25%	62.68%	67.69%	66.10%	15.32%	45.72%	5.06%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.80	21.72	-	36				
Sweden	34.06%	45.98%	49.69%	53.25%	0.00%	26.83%	16.38%	3.59%	3.54%	0.06%	0.00%	0.00%	2.85%	284.41	347.32	48	1,277				
Switzerland	17.12%	21.46%	23.42%	25.29%	0.00%	4.90%	15.71%	0.24%	0.05%	1.86%	0.76%	1.76%	1.76%	130.43	63.05	2	772				
Syrian Arab Republic	2.36%	1.41%	2.35%	0.52%	0.00%	0.09%	0.43%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	1.08	0.22	-	249				
Tajikistan	29.64%	61.83%	45.76%	44.66%	0.00%	0.00%	44.66%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	44.13	(0.00)	-	99				
Tanzania	94.78%	90.32%	86.67%	85.71%	65.95%	19.08%	0.67%	0.00%	0.00%	0.00%	0.01%	0.00%	0.00%	6.46	798.08	-	939				
Thailand	33.64%	22.65%	24.10%	22.86%	8.50%	10.50%	0.53%	2.03%	0.04%	0.27%	0.00%	0.00%	0.99%	53.76	604.11	64	3,158				
Timor-Leste	0.00%	34.69%	18.42%	18.22%	18.22%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.89	-	5				

Country	Share in total final energy consumption (%)														Final use of renewable energy (petajoules)						Total final energy consumption (petajoules)	
	Renewable Energy						Solid biofuels				Other (Biogas, renewable waste, marine)				Electricity	Heat	Transport	2015	2015			
	Traditional use		Modern use		Hydro	Liquid Biofuels	Wind	Solar	Geothermal	Other (Biogas, renewable waste, marine)	2015	2015	2015	2015								
	2010	2014	2015	2015											2015	2015	2015	2015	2015	2015	2015	2015
Togo	78.70%	65.83%	72.16%	71.26%	58.55%	9.45%	3.26%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	3.28	62.68	-	93				
Tokelau																						
Tonga	1.49%	1.01%	1.70%	1.88%	1.05%	0.00%	0.00%	0.00%	0.00%	0.82%	0.00%	0.00%	0.00%	0.00%	0.01	0.01	-	1				
Trinidad and Tobago	11.9%	0.33%	0.28%	0.28%	0.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.49	-	172				
Turkey	14.48%	12.69%	12.93%	12.56%	11.29%	0.16%	0.06%	0.00%	0.40%	0.85%	0.00%	0.00%	0.00%	0.00%	1.58	38.41	-	318				
Turks and Caicos Islands	24.51%	14.33%	11.61%	13.37%	0.00%	3.26%	5.47%	0.12%	0.95%	0.97%	2.46%	0.00%	0.00%	0.00%	247.17	233.73	5	3,630				
Turkmenistan	0.28%	0.07%	0.04%	0.04%	0.04%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.31	0.31	-	753				
Turks and Caicos Islands	1.79%	0.52%	0.58%	0.57%	0.57%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	0.01	-	1				
Tuvalu	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.01	(0.01)	-	0				
Uganda	96.02%	91.61%	90.22%	89.06%	70.33%	16.97%	1.77%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	9.34	461.67	-	529				
United Kingdom	6.65%	3.64%	7.40%	8.71%	0.00%	3.48%	0.41%	0.79%	2.65%	0.54%	0.00%	0.00%	0.83%	0.00%	270.87	119.23	39	4,926				
Ukraine	0.65%	2.88%	3.50%	4.14%	0.82%	0.01%	2.96%	0.00%	0.00%	0.00%	0.00%	0.00%	0.02%	0.00%	18.77	62.25	1	1,989				
United Arab Emirates	0.00%	0.11%	0.15%	0.14%	0.00%	0.09%	0.00%	0.00%	0.00%	0.04%	0.00%	0.00%	0.00%	0.00%	0.93	1.94	-	2,093				
Uruguay	44.81%	52.82%	55.39%	58.02%	6.64%	34.09%	12.38%	1.75%	3.09%	0.07%	0.00%	0.00%	0.00%	0.00%	33.61	70.54	3	184				
United States Virgin Islands	0.00%	0.00%	2.76%	3.88%	0.00%	0.00%	0.00%	0.00%	0.00%	3.88%	0.00%	0.00%	0.00%	0.00%	0.09	-	-	2				
United States	4.18%	7.51%	8.75%	8.72%	0.00%	3.24%	1.36%	2.41%	1.05%	0.36%	0.12%	0.18%	0.00%	0.00%	1,800.87	1,910.77	1,386	58,483				
Uzbekistan	1.33%	2.64%	2.90%	2.97%	0.00%	0.01%	2.96%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	34.56	0.17	-	1,169				
Vanuatu	24.16%	38.38%	32.14%	36.11%	33.54%	0.00%	0.95%	0.73%	0.75%	0.14%	0.00%	0.00%	0.00%	0.00%	0.04	0.83	-	2				
Venezuela	11.98%	11.44%	12.32%	12.84%	0.61%	1.42%	10.81%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	164.58	30.89	-	1,522				
Vietnam	76.08%	34.80%	37.04%	35.00%	21.70%	5.01%	8.27%	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	189.78	610.41	-	2,286				
Wallis and Futuna Islands	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	0				
Western Sahara	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	-	-	-				
Yemen	2.15%	0.96%	0.97%	2.28%	0.00%	2.28%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-	2.43	-	107				
Zambia	82.98%	92.10%	88.03%	87.99%	56.73%	19.60%	11.66%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	39.99	261.69	-	343				
Zimbabwe	63.98%	82.88%	81.05%	81.80%	72.77%	5.53%	3.21%	0.29%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	13.05	310.22	1	397				
World	16.65%	16.67%	17.30%	17.46%	7.88%	3.67%	3.26%	0.91%	0.70%	0.56%	0.18%	0.29%	0.29%	0.29%	16,595.98	42,690.54	3,182	357,871				
High Income	6%	10%	11%	11%	0.06%	4.41%	2.75%	1.51%	1.19%	0.60%	0.16%	0.49%	0.49%	0.49%	7,376	6,439	2,081	142,272				
Low Income	69%	81%	82%	82%	69.44%	9.85%	2.62%	0.02%	0.03%	0.00%	0.00%	0.16%	0.16%	0.16%	200	5,961	1	7,505				
Lower Middle Income	45%	40%	40%	40%	31.02%	5.77%	2.14%	0.15%	0.27%	0.09%	0.16%	0.01%	0.01%	0.01%	1,490	19,814	76	53,983				
Upper Middle Income	19%	14%	13%	13%	3.84%	2.36%	4.42%	0.75%	0.53%	0.83%	0.24%	0.26%	0.26%	0.26%	7,380	9,799	1,016	137,623				
Central Asia and Southern Asia	39.06%	30.03%	28.57%	28.38%	21.01%	5.03%	1.83%	0.04%	0.31%	0.11%	0.00%	0.04%	0.04%	885.99	9,849.93	16.05	37,890.91					
Eastern Asia and South-eastern Asia	27.49%	14.02%	13.98%	14.09%	6.49%	1.29%	3.79%	0.23%	0.55%	1.11%	0.28%	0.35%	0.35%	5,378.17	9,384.93	242.21	106,515.63					
Latin America and Caribbean	32.64%	28.48%	27.20%	27.73%	4.41%	10.76%	8.14%	3.56%	0.51%	0.13%	0.13%	0.20%	0.20%	2,381.48	3,372.55	832.75	23,757.27					
Northern America and Europe	5.79%	10.08%	11.68%	11.87%	0.35%	4.40%	3.06%	1.64%	1.26%	0.50%	0.14%	0.50%	0.50%	7,006.59	6,253.05	2,066.72	129,134.81					
Oceania	13.37%	12.83%	13.57%	13.51%	1.41%	5.72%	3.15%	0.26%	1.07%	0.85%	0.85%	0.20%	0.20%	220.91	305.16	10.42	3,972.40					
Sub-Saharan Africa	71.04%	71.26%	70.14%	69.98%	60.05%	7.97%	1.76%	0.01%	0.05%	0.07%	0.07%	0.00%	0.00%	321.30	12,184.62	1.39	17,907.79					
Western Asia and Northern Africa	9.30%	6.20%	5.05%	5.42%	1.45%	1.35%	1.54%	0.02%	0.24%	0.35%	0.44%	0.03%	0.03%	377.82	731.32	4.93	20,550.68					

a. Source: Energy Balances, UN Statistics Division (2017)

b. Source: World Energy Balances, IEA (2017)

c. Sources: World Bank analysis based on World Energy Statistics and Balances, IEA (2017); Energy Balances, UN Statistics Division (2017)