

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Table Notes

Data on utilization are derived by dividing the data on electricity production shown in Table 32 by the net installed capacity shown in Table 30, and then by the total number of hours in a year to yield a percentage of theoretical maximal utilization.

For this table, **Other** under total producers refers to geothermal, tide, wave, marine and other non-specified sources. **Other** under autoproducers refers to nuclear (if any), wind, solar, tide, wave, marine and other non-specified sources. **Other** under main activity producers refers to wind, solar, tide, wave, marine and other non-specified sources.

For Austria data are given in gross maximum capacity.

Please refer to the Definitions Section on pages ix to xv for the appropriate product description /classification, and xvi to xvii for the descriptions of relevant flows.

Figure 74: Utilization of installed electric generating capacity by source and region, 2016

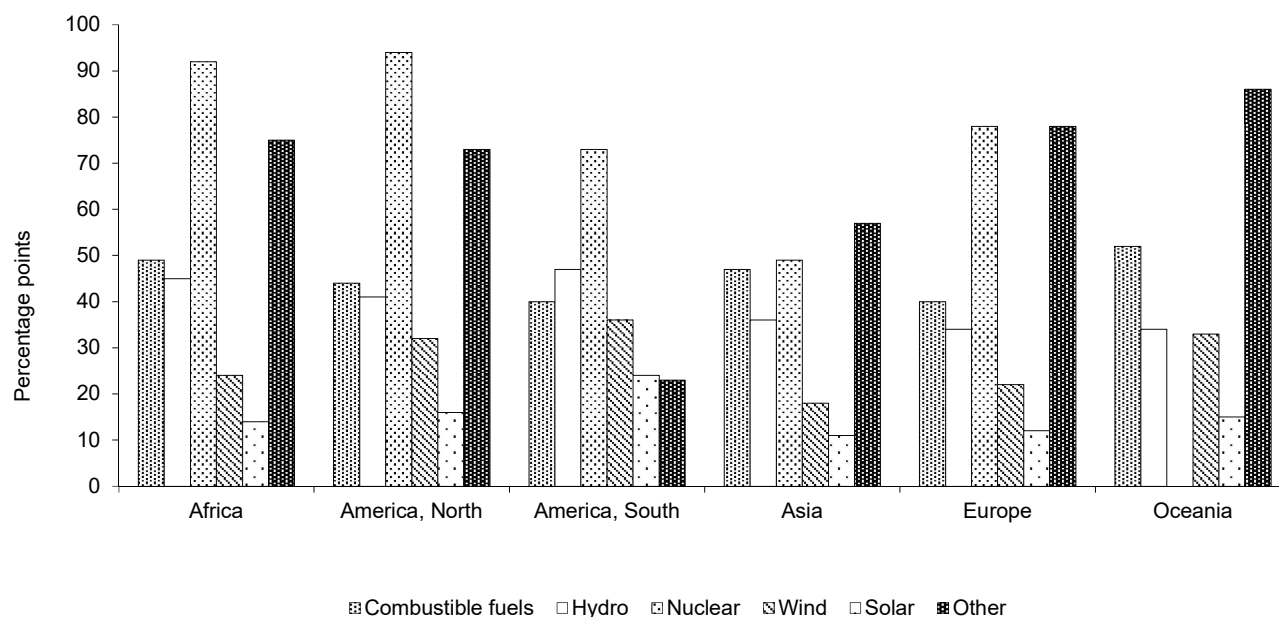


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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
World	2013	46	47	39	75	24	11	83
	2014	44	46	39	76	23	12	79
	2015	44	46	37	75	23	13	80
	2016	42	45	38	74	23	12	64
Africa	2013	53	53	53	89	27	12	75
	2014	52	52	53	84	24	14	56
	2015	51	52	50	75	19	15	79
	2016	48	49	45	92	24	14	75
Algeria	2013	45	46	17	..	..	..	..
	2014	45	46	13	..	..	..	..
	2015	46	46	7	..	22	17	..
	2016	43	43	7	..	22	1	..
Angola	2013	61	51	72	..	..	..	..
	2014	52	66	44	..	..	..	..
	2015	44	48	41	..	..	..	..
	2016	41	40	42	..	..	..	..
Benin	2013	5	5	..	..	..	..	..
	2014	11	11	..	..	..	..	..
	2015	10	12	2	..	..	11	..
	2016	11	12	3	..	..	11	..
Botswana	2013	12	12	..	..	..	11	..
	2014	43	44	..	..	..	11	..
	2015	55	55	..	..	..	11	..
	2016	49	49	..	..	..	18	..
Burkina Faso	2013	34	33	38	..	..	..	..
	2014	35	35	32	..	..	..	..
	2015	35	35	33	..	..	..	..
	2016	34	33	50	..	..	..	..
Burundi	2013	47	34	49	..	..	..	..
	2014	48	43	50	..	..	..	..
	2015	45	36	47	..	..	..	..
	2016	45	39	47	..	..	..	..
Cabo Verde	2013	32	34	..	..	33	11	..
	2014	30	32	..	..	29	8	..
	2015	30	30	..	..	35	9	..
	2016	30	30	..	..	34	9	..
Cameroon	2013	42	24	64	..	..	..	..
	2014	46	29	71	..	..	..	..
	2015	49	37	68	..	..	..	..
	2016	51	37	72	..	..	..	..
Central African Rep.	2013	36	1	63	..	..	..	..
	2014	44	1	78	..	..	..	..
	2015	44	1	78	..	..	..	..
	2016	45	1	78	..	..	..	..
Chad	2013	30	30	..	..	..	..	..
	2014	30	30	..	..	..	..	..
	2015	30	30	..	..	..	..	..
	2016	31	31	..	..	..	..	..
Comoros	2013	27	27	..	..	..	..	..
	2014	24	24	..	..	..	..	..
	2015	17	17
	2016	22	22
Congo	2013	50	50	50
	2014	51	53	49
	2015	57	65	51
	2016	53	53	52

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
43	47	36	20	46	47	39	75	23
40	44	35	18	45	46	39	76	22
39	43	33	17	44	46	38	75	21
40	46	30	18	43	45	38	74	21
33	33	15	8	55	55	54	89	32
29	30	18	14	54	54	54	84	33
28	32	12	14	53	54	51	75	33
29	33	9	16	50	51	46	92	35
10	10	..	..	59	60	17	..	..
10	10	..	..	58	59	13	..	..
11	11	..	..	57	58	7	..	18
13	13	..	..	51	53	7	..	2
42	42	..	..	63	53	72	..	..
48	48	..	..	53	69	44	..	..
35	35	..	..	45	50	41	..	..
31	31	..	..	42	42	42	..	..
27	27	..	..	4	4	..	..	..
28	28	..	..	7	7	..	..	..
28	28	..	..	8	9	2	..	11
29	29	..	..	8	9	3	..	11
..	..	..	..	12	12	..	..	11
..	..	..	..	45	45	..	..	11
..	..	..	..	56	56	..	..	11
..	..	..	..	51	51	..	..	18
..	..	..	..	34	33	38	..	..
..	..	..	..	35	35	32	..	..
..	..	..	..	35	35	33	..	..
..	..	..	..	34	33	50	..	..
..	..	..	..	47	34	49	..	..
..	..	..	..	48	43	50	..	..
..	..	..	..	45	36	47	..	..
..	..	..	..	45	39	47	..	..
17	17	..	..	32	34	..	..	28
15	15	..	..	30	32	..	..	24
15	15	..	..	30	30	..	..	29
14	14	..	..	30	30	..	..	29
47	47	..	..	40	8	64	..	..
49	49	..	..	45	9	71	..	..
61	61	..	..	43	8	68	..	..
64	64	..	..	45	8	72	..	..
..	..	..	..	36	1	63	..	..
..	..	..	..	44	1	78	..	..
..	..	..	..	44	1	78	..	..
..	..	..	..	45	1	78	..	..
..	..	..	..	30	30	..	..	..
..	30	30
..	30	30
..	31	31
..	27	27
..	24	24
..	17	17
..	22	22
53	53	48	..	50
56	56	47	..	49
92	92	42	..	51
57	57	50	..	52

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Côte d'Ivoire	2013	57	60	49	..	..	..	..
	2014	57	59	51	..	..	..	..
	2015	52	64	26	..	..	..	..
	2016	61	76	29	..	..	..	..
Dem. Rep. of the Congo	2013	38	3	39	..	..	..	..
	2014	40	3	42	..	..	..	..
	2015	40	4	42	..	..	..	..
	2016	39	3	41	..	..	..	..
Djibouti	2013	35	35	..	..	..	..	..
	2014	35	35	..	..	..	..	..
	2015	35	35	..	..	..	..	..
	2016	35	35	..	..	..	..	..
Egypt	2013	59	60	54	..	28	9	..
	2014	57	58	56	..	30	20	..
	2015	54	55	55	..	21	21	..
	2016	50	50	55	..	31	14	..
Equatorial Guinea	2013	24	31	11	..	..	..	..
	2014	27	33	18	..	..	..	..
	2015	28	33	18	..	..	..	..
	2016	28	33	18	..	..	..	..
Eritrea	2013	29	30	..	..	..	23	..
	2014	31	32	..	..	..	23	..
	2015	29	29	..	..	..	23	..
	2016	30	30	..	..	..	23	..
Eswatini	2013	38	35	43	..	..	..	..
	2014	34	26	47	..	..	..	..
	2015	30	26	36	..	..	..	..
	2016	24	26	19	..	..	..	..
Ethiopia	2013	43	0	49	..	24	..	28
	2014	47	0	53	..	33	..	31
	2015	49	0	57	..	27	..	..
	2016	30	0	31	..	29	..	..
Gabon	2013	47	39	63	..	..	23	..
	2014	45	41	53	..	..	23	..
	2015	48	41	62	..	..	23	..
	2016	51	45	64	..	..	23	..
Gambia	2013	33	33	..	..	..	..	..
	2014	28	28	..	..	..	..	..
	2015	29	29	..	..	..	..	..
	2016	30	31	..	..	..	..	..
Ghana	2013	49	38	59	..	..	14	..
	2014	49	37	61	..	..	18	..
	2015	34	29	42	..	..	2	..
	2016	38	36	40	..	..	14	..
Guinea	2013	19	7	43	..	..	..	..
	2014	29	21	39	..	..	..	..
	2015	23	15	27	..	..	..	..
	2016	31	26	34	..	..	..	..
Guinea-Bissau	2013	15	15	..	..	..	..	..
	2014	14	14	..	..	..	..	..
	2015	15	15	..	..	..	..	..
	2016	15	15	..	..	..	..	..
Kenya	2013	56	35	66	..	34	..	86
	2014	50	41	51	..	37	..	60
	2015	48	20	50	..	26	..	83
	2016	51	21	57	..	25	..	79

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
35	35	..	..	58	60	49	..	..
36	36	..	..	57	60	51	..	..
52	52	..	..	52	65	26	..	..
86	86	..	..	61	76	29	..	..
0	17	0	..	45	1	47	..	..
1	19	0	..	48	1	50	..	..
1	14	0	..	49	1	51	..	..
0	11	..	..	49	1	52	..	..
..	..	..	..	35	35	..	..	..
..	..	..	..	35	35	..	..	..
..	..	..	..	35	35	..	..	..
..	..	..	..	35	35	..	..	..
91	91	..	..	58	59	54	..	24
91	91	..	..	57	57	56	..	28
91	91	..	..	53	54	55	..	21
93	93	..	..	49	49	55	..	29
..	..	..	..	24	31	11	..	..
..	..	..	..	27	33	18	..	..
..	..	..	..	28	33	18	..	..
..	..	..	..	28	33	18	..	..
21	21	..	..	30	30	..	..	11
21	21	..	..	32	32	..	..	11
13	13	..	..	30	30	..	..	11
13	13	..	..	31	31	..	..	11
36	37	..	..	41	10	46	..	..
28	29	..	..	44	0	50	..	..
28	29	..	..	34	0	38	..	..
28	29	..	..	18	0	20	..	..
..	..	..	..	43	0	49	..	24
..	..	..	..	47	0	53	..	33
..	..	..	..	49	0	57	..	26
..	..	..	..	30	0	31	..	28
34	34	..	23	49	40	63	..	..
35	35	..	23	46	42	53	..	..
36	36	..	23	49	42	62	..	..
36	36	..	23	53	47	64	..	..
10	10	..	..	46	46	..	..	..
10	10	..	..	35	36	..	..	..
10	10	..	..	37	37	..	..	..
10	10	..	..	38	39	..	..	..
10	10	..	..	52	42	59	..	14
10	10	..	..	52	42	61	..	18
10	10	..	..	36	31	42	..	2
10	10	..	..	39	39	40	..	14
6	6	..	..	21	8	43	..	..
35	35	..	..	28	14	39	..	..
38	38	..	..	22	6	27	..	..
36	36	..	..	29	5	34	..	..
47	47	12	12
47	47	12	12
47	47	12	12
47	47	13	13
..	56	35	66	..	85
..	50	41	51	..	59
..	48	20	50	..	81
..	51	21	57	..	77

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lesotho	2013	73	..	74	..	..	..	..
	2014	73	..	74	..	..	..	..
	2015	76	..	76	..	..	..	..
	2016	72	..	72	..	..	..	..
Liberia	2013	40	37	98	..	..	..	..
	2014	40	37	98	..	..	..	..
	2015	41	38	98	..	..	..	..
	2016	49	47	98	..	..	..	..
Libya	2013	46	46	..	..	..	18	..
	2014	46	46	..	..	..	18	..
	2015	46	46	..	..	..	18	..
	2016	41	41	..	..	..	18	..
Madagascar	2013	34	24	57	..	..	8	..
	2014	35	23	62	..	..	7	..
	2015	36	23	65	..	..	11	..
	2016	31	21	62	..	..	11	..
Malawi	2013	46	10	73	..	..	..	..
	2014	43	10	63	..	..	..	..
	2015	43	10	63	..	..	..	..
	2016	43	10	63	..	..	..	..
Mali	2013	20	15	24	..	..	..	..
	2014	21	18	23	..	..	..	..
	2015	23	22	24	..	..	17	..
	2016	25	25	26	..	..	22	..
Mauritania	2013	40	42	..	..	37	16	..
	2014	40	42	..	..	37	19	..
	2015	26	25	..	..	35	19	..
	2016	25	25	..	..	37	7	..
Mauritius	2013	42	44	18	..	32	13	..
	2014	43	46	17	..	29	16	..
	2015	43	46	23	..	24	16	..
	2016	41	44	19	..	31	13	..
Mayotte	2013	36	39	..	..	..	15	..
	2014	38	41	..	..	..	15	..
	2015	39	43	..	..	..	15	..
	2016	33	36	..	..	..	14	..
Morocco	2013	44	51	19	..	31	..	..
	2014	42	51	13	..	28	..	..
	2015	44	53	15	..	36	0	..
	2016	44	54	11	..	38	28	..
Mozambique	2013	67	27	74	..	..	..	..
	2014	75	44	80	..	..	10	..
	2015	89	71	93	..	..	10	..
	2016	86	86	86	..	..	14	..
Namibia	2013	40	5	56	..	..	..	..
	2014	35	1	51	..	..	..	..
	2015	35	3	51	..	..	..	..
	2016	33	5	44	..	..	..	..
Niger	2013	28	29	..	..	..	0	..
	2014	31	33	..	..	..	0	..
	2015	32	34	0	..
	2016	33	35	0	..
Nigeria	2013	34	34	32
	2014	33	34	31
	2015	34	35	33
	2016	29	28	32

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	73	..	74	..	..
..	..	..	..	73	..	74	..	..
..	..	..	..	76	..	76	..	..
..	..	..	..	72	..	72	..	..
33	33	..	..	59	51	98	..	..
33	33	..	..	59	51	98	..	..
33	33	..	..	61	53	98	..	..
43	43	..	..	61	55	98	..	..
..	..	..	..	46	46	..	..	18
..	..	..	..	46	46	..	..	18
..	..	..	..	46	46	..	..	18
..	..	..	..	41	41	..	..	18
61	61	..	..	32	20	57	..	1
61	61	..	..	33	20	62	..	1
61	61	..	..	34	20	65	..	1
61	61	..	..	29	18	62	..	10
10	10	11	..	74	30	74	..	..
10	10	13	..	64	30	64	..	..
10	10	11	..	63	63	63	..	..
10	10	11	..	64	63	64	..	..
6	6	..	..	22	18	24	..	..
5	5	..	..	23	23	23	..	..
6	6	..	..	25	27	24	..	17
6	6	..	..	28	32	26	..	22
52	52	..	..	35	37	..	..	20
47	47	..	..	37	40	..	..	22
49	49	..	..	21	19	..	..	29
51	51	..	..	19	19	..	..	22
70	71	..	12	27	28	18	..	32
69	72	..	16	27	29	17	..	29
65	69	..	16	29	30	23	..	24
61	65	..	13	28	29	19	..	31
..	..	..	..	36	39	..	..	15
..	..	..	..	38	41	..	..	15
..	..	..	..	39	43	..	..	15
..	..	..	..	33	36	..	..	14
..	..	..	..	42	51	19	..	31
..	..	..	..	40	50	13	..	28
..	..	..	..	42	53	15	..	30
..	..	..	..	43	54	11	..	37
60	..	60	..	68	27	74	..	..
62	..	63	10	76	44	81	..	..
40	25	60	10	90	74	93	..	..
28	25	61	14	86	90	86	..	..
..	..	..	..	40	5	56	..	..
..	..	..	..	35	1	51	..	..
..	..	..	..	35	3	51	..	..
..	..	..	..	33	5	44	..	..
11	12	..	0	33	34	..	..	..
30	34	..	0	32	33	..	..	..
30	33	..	0	33	35
31	34	..	0	34	36
28	28	31	..	35	36	32
21	21	31	..	38	41	31
22	21	33	..	40	42	33
20	19	33	..	32	32	32

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Réunion	2013	37	41	48	..	12	16	..
	2014	39	49	36	..	12	16	..
	2015	39	48	42	..	12	15	..
	2016	39	48	40	..	14	16	..
Rwanda	2013	45	59	32	..	..	6	..
	2014	39	59	29	..	..	7	..
	2015	35	32	40	..	..	18	..
	2016	38	40	38	..	..	19	..
Sao Tome and Principe	2013	36	36	34	..	..	..	..
	2014	39	39	44	..	..	..	..
	2015	36	36	38	..	..	..	..
	2016	38	39	38	..	..	..	..
Senegal	2013	43	45	..	..	..	2	..
	2014	47	49	..	..	..	2	..
	2015	49	52	..	..	..	2	..
	2016	52	55	..	..	..	3	..
Seychelles	2013	47	50	..	..	13	..	..
	2014	48	50	..	..	13	14	..
	2015	50	52	..	..	13	46	..
	2016	53	56	..	..	15	57	..
Sierra Leone	2013	25	25	24	..	..	..	..
	2014	27	27	27	..	..	..	..
	2015	18	12	25	..	..	..	..
	2016	17	12	24	..	..	..	..
Somalia	2013	50	50	..	..	..	..	..
	2014	50	50	..	..	..	..	..
	2015	50	50	..	..	..	..	..
	2016	50	50	..	..	..	..	..
South Africa	2013	66	65	63	89	10	11	..
	2014	61	61	64	84	16	12	..
	2015	60	64	57	75	11	17	..
	2016	60	64	62	92	17	15	..
South Sudan	2013	66	67	..	..	..	12	..
	2014	69	70	..	..	..	12	..
	2015	78	82	..	..	..	10	..
	2016	60	62	..	..	..	13	..
St. Helena and Depend.	2013	15	14	..	..	24	12	..
	2014	13	13	..	..	11	9	..
	2015	11	12	..	..	12	2	..
	2016	6	11	..	..	2	12	..
Sudan	2013	39	17	60	..	..	..	..
	2014	41	18	64	..	..	..	..
	2015	48	35	60	..	..	..	..
	2016	49	42	58	..	..	..	..
Togo	2013	18	20	13	..	..	..	..
	2014	18	17	21	..	..	..	..
	2015	22	27	10	..	..	..	..
	2016	51	54	43	..	..	..	..
Tunisia	2013	46	47	11	..	20	18	..
	2014	43	44	10	..	25	19	..
	2015	41	42	13	..	21	19	..
	2016	41	42	8	..	23	19	..
Uganda	2013	47	11	54
	2014	46	18	53
	2015	44	14	53
	2016	45	14	54	5	..

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	37	41	48	..	16
..	..	..	..	39	49	36	..	15
..	..	..	..	39	48	42	..	15
..	..	..	..	39	48	40	..	16
..	..	..	..	45	59	32	..	6
..	..	..	..	39	59	29	..	7
..	..	..	..	35	32	40	..	18
..	..	..	..	38	40	38	..	19
..	..	..	..	36	36	34	..	..
..	..	..	..	39	39	44	..	..
..	..	..	..	36	36	38	..	..
..	..	..	..	38	39	38	..	..
16	17	..	1	64	64	..	..	..
20	22	..	1	68	68	..	..	..
22	24	..	1	70	70	..	..	..
26	28	..	1	72	72	..	..	..
..	..	..	..	47	50	..	..	13
..	..	..	..	48	50	..	..	13
..	..	..	..	50	52	..	..	16
..	..	..	..	53	56	..	..	26
..	..	..	..	25	25	24	..	..
..	..	..	..	27	27	27	..	..
..	..	..	..	18	12	25	..	..
..	..	..	..	17	12	24	..	..
..	..	..	..	50	50	..	..	..
..	..	..	..	50	50	..	..	..
..	..	..	..	50	50	..	..	..
..	..	..	..	50	50	..	..	..
61	63	28	10	66	65	66	89	..
38	63	35	14	62	61	66	84	..
31	60	32	14	65	65	59	75	11
31	60	35	16	65	64	63	92	17
68	70	..	11	64	64	..	..	17
71	72	..	11	67	67	..	..	17
92	94	..	11	65	70	..	..	6
70	72	..	11	50	53	..	..	16
..	..	..	..	15	14	..	..	23
..	..	..	..	13	13	..	..	11
..	..	..	..	11	12	..	..	10
..	..	..	..	6	11	..	..	3
..	..	..	..	37	15	60	..	..
..	..	..	..	41	18	64	..	..
..	..	..	..	48	35	60	..	..
..	..	..	..	49	42	58	..	..
10	10	..	..	18	21	13	..	..
16	16	..	..	18	17	21	..	..
17	17	..	..	23	28	10	..	..
19	19	..	..	52	55	43	..	..
41	30	..	18	46	48	11	..	20
41	32	..	19	43	45	10	..	25
50	42	..	19	41	42	13	..	21
57	51	..	19	40	42	8	..	23
56	40	65	..	46	0	53
54	45	62	..	44	8	52
40	30	49	..	45	6	53
41	31	51	..	45	6	54	..	5

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
United Rep. of Tanzania	2013	61	88	35	..	..	24	..
	2014	64	75	53	..	..	29	..
	2015	53	61	42	..	..	34	..
	2016	58	65	48	..	..	25	..
Zambia	2013	75	2	80	..	..	..	..
	2014	67	24	71	..	..	..	..
	2015	64	33	66	..	..	..	..
	2016	47	17	53	..	..	..	..
Zimbabwe	2013	51	38	75	..	..	..	..
	2014	56	41	81	..	..	..	..
	2015	55	42	74	..	..	..	..
	2016	40	38	44	..	..	..	..
America, North	2013	47	44	43	93	31	14	66
	2014	47	44	42	95	32	16	62
	2015	47	44	40	94	30	17	73
	2016	46	44	41	94	32	16	73
Anguilla	2013	31	31	..	..	..	..	..
	2014	31	31	..	..	..	..	..
	2015	33	33	..	..	..	..	..
	2016	36	36	..	..	..	..	..
Antigua and Barbuda	2013	32	32	..	..	..	..	..
	2014	32	32	..	..	..	..	..
	2015	33	33	..	..	..	..	..
	2016	33	33	..	..	..	..	..
Aruba	2013	37	35	..	..	53	..	..
	2014	36	34	..	..	53	..	..
	2015	37	35	..	..	53	..	..
	2016	38	36	..	..	53	..	..
Bahamas	2013	36	36	..	..	..	..	..
	2014	38	38	..	..	..	..	..
	2015	40	40	..	..	..	..	..
	2016	39	39	..	..	..	..	..
Barbados	2013	48	48	..	..	..	..	..
	2014	47	47	..	..	..	..	..
	2015	47	47	..	..	..	..	..
	2016	48	48	..	..	..	..	..
Belize	2013	30	21	43	..	..	..	..
	2014	30	23	43	..	..	..	..
	2015	31	26	40	..	..	..	..
	2016	31	26	39	..	..	..	..
Bermuda	2013	45	45	..	..	..	..	..
	2014	44	44	..	..	..	..	..
	2015	45	45	..	..	..	..	..
	2016	44	44	..	..	..	..	..
Bonaire, St Eustatius, Saba	2013	49	56	..	..	39	..	..
	2014	51	56	..	..	44	..	..
	2015	54	61	..	..	42	..	..
	2016	56	68	..	..	38	..	..
British Virgin Islands	2013	50	51	..	..	24	11	..
	2014	50	51	..	..	24	11	..
	2015	50	51	..	..	24	11	..
	2016	51	52	..	..	24	11	..
Canada	2013	56	46	59	84	26	14	54
	2014	55	46	58	87	27	13	50
	2015	51	43	55	83	27	13	25
	2016	53	47	55	82	29	13	25

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Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
6	..	..	24	62	91	35	..	..
8	..	..	29	65	78	53	..	..
9	..	..	34	54	62	42	..	..
9	..	..	25	59	67	48	..	..
..	..	..	..	75	2	80	..	..
..	..	..	..	67	24	71	..	..
..	..	..	..	64	33	66	..	..
..	..	..	..	47	17	53	..	..
47	47	..	..	51	38	75	..	..
7	7	..	..	57	42	81	..	..
14	14	..	..	56	43	74	..	..
70	70	..	..	39	36	44	..	..
52	58	66	17	47	43	42	93	32
51	57	65	18	47	43	41	95	32
52	59	71	19	46	44	39	94	30
47	56	67	17	46	43	41	94	31
..	..	..	..	31	31	..	..	..
..	..	..	..	31	31	..	..	..
..	..	..	..	33	33	..	..	..
..	..	..	..	36	36	..	..	..
11	11	..	..	32	32	..	..	..
11	11	..	..	32	32	..	..	..
11	11	..	..	33	33	..	..	..
11	11	..	..	33	33	..	..	..
..	..	..	..	37	35	..	..	53
..	..	..	..	36	34	..	..	53
..	..	..	..	37	35	..	..	53
..	..	..	..	38	36	..	..	53
15	15	..	..	39	39	..	..	..
22	22	..	..	39	39	..	..	..
22	22	..	..	41	41	..	..	..
22	22	..	..	40	40	..	..	..
17	17	..	..	48	48	..	..	..
16	16	..	..	48	48	..	..	..
20	20	..	..	48	48	..	..	..
20	20	..	..	49	49	..	..	..
32	32	..	..	29	18	43	..	..
23	23	..	..	32	23	43	..	..
24	24	..	..	33	27	40	..	..
24	24	..	..	33	27	39	..	..
36	36	..	..	45	45	..	..	..
36	36	..	..	44	44	..	..	..
36	36	..	..	45	45	..	..	..
36	36	..	..	45	45	..	..	..
..	..	..	..	49	56	..	..	39
..	..	..	..	51	56	..	..	44
..	..	..	..	54	61	..	..	42
..	..	..	..	56	68	..	..	38
..	..	..	..	50	51	..	..	19
..	..	..	..	50	51	..	..	16
..	..	..	..	50	51	..	..	16
..	..	..	..	51	52	..	..	17
71	79	67	3	55	42	59	84	26
74	84	67	20	53	41	57	87	26
85	101	73	35	49	36	54	83	24
71	88	70	11	51	41	54	82	28

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Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cayman Islands	2013	47	47	..	..	..	..	..
	2014	54	54	..	..	..	..	..
	2015	55	55	..	..	..	..	..
	2016	47	47	..	..	..	..	..
Costa Rica	2013	42	25	45	..	24	28	80
	2014	36	22	37	..	23	28	71
	2015	34	5	43	..	22	29	64
	2016	33	7	39	..	19	28	74
Cuba	2013	36	36	23	..	..	..	..
	2014	36	36	19	..	..	..	..
	2015	37	37	9	..	..	..	..
	2016	36	36	11	..	..	..	..
Curaçao	2013	39	42	..	..	12	..	..
	2014	38	42	..	..	12	..	..
	2015	34	36	..	..	12	..	..
	2016	33	28	..	..	76	24	..
Dominica	2013	40	36	63	..	..	..	..
	2014	41	38	53	..	..	..	..
	2015	42	42	42	..	..	..	..
	2016	43	40	63	..	..	..	..
Dominican Republic	2013	38	38	35	..	32	19	82
	2014	36	38	24	..	32	16	81
	2015	39	42	17	..	39	16	82
	2016	41	44	28	..	27	13	81
El Salvador	2013	47	39	43	..	..	..	87
	2014	45	38	41	..	..	..	87
	2015	41	36	33	..	..	..	86
	2016	41	37	30	..	..	..	88
Greenland	2013	29	11	47	..	..	..	..
	2014	30	11	50	..	..	..	..
	2015	32	12	53	..	..	..	..
	2016	30	10	50	..	..	..	..
Grenada	2013	46	46	..	..	..	..	..
	2014	47	47	..	..	..	..	..
	2015	49	49	..	..	..	..	..
	2016	51	51	..	..	..	..	..
Guadeloupe	2013	35	38	25	..	24	17	64
	2014	36	38	35	..	23	17	59
	2015	35	38	28	..	22	17	65
	2016	37	41	35	..	20	16	65
Guatemala	2013	46	39	56	..	..	..	71
	2014	46	39	57	..	..	16	83
	2015	41	41	43	..	16	20	86
	2016	39	42	35	..	32	26	98
Haiti	2013	35	40	21	..	..	..	..
	2014	37	42	17	..	..	..	..
	2015	36	40	16	..	..	..	..
	2016	37	42	13	..	..	..	..
Honduras	2013	49	47	56	..	35	..	..
	2014	51	55	48	..	30	..	..
	2015	45	59	42	..	50	12	..
	2016	41	48	40	..	37	25	..
Jamaica	2013	52	52	62	..	31	..	..
	2014	50	51	53	..	33	..	..
	2015	49	50	49	..	34	..	..
	2016	46	50	45	..	21	5	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	47	47	..	..	..
..	..	..	..	54	54	..	..	..
..	..	..	..	55	55	..	..	..
..	..	..	..	47	47	..	..	..
66	84	74	50	38	22	41	..	51
63	82	73	49	32	20	33	..	40
61	82	98	35	29	2	37	..	34
55	78	88	34	28	4	35	..	31
21	21	..	..	37	37	23	..	..
19	19	..	..	37	38	19	..	..
19	19	..	..	38	39	9	..	..
22	22	..	..	37	38	11	..	..
41	41	..	..	37	44	..	..	12
41	41	..	..	36	43	..	..	12
36	36	..	..	32	37	..	..	12
37	37	..	..	29	18	..	..	59
35	35	..	..	43	36	63	..	..
35	35	..	..	44	41	53	..	..
35	35	..	..	46	47	42	..	..
35	35	..	..	48	43	63	..	..
17	17	53	30	46	48	35	..	32
15	15	51	24	45	49	23	..	32
15	15	49	22	49	56	17	..	39
16	16	51	19	50	56	28	..	24
39	39	..	..	48	39	43	..	87
39	39	..	..	46	38	41	..	87
28	28	..	..	44	39	33	..	86
29	29	..	..	44	40	30	..	88
..	..	..	..	32	14	47	..	..
..	..	..	..	33	13	50	..	..
..	..	..	..	35	14	53	..	..
..	..	..	..	32	12	50	..	..
..	..	..	..	46	46	..	..	..
..	..	..	..	47	47	..	..	..
..	..	..	..	49	49	..	..	..
44	44	..	..	51	51	..	..	..
9	9	..	..	39	43	25	..	25
12	12	..	..	38	43	35	..	24
11	11	..	..	38	42	28	..	25
10	10	..	..	40	46	35	..	23
16	16	73	..	55	54	56	..	71
21	20	73	..	52	47	57	..	74
14	14	73	..	48	56	42	..	30
15	15	52	..	45	57	35	..	41
6	6	..	..	47	59	21	..	..
11	11	..	..	47	59	17	..	..
25	25	..	..	40	49	16	..	..
25	25	..	..	42	51	13	..	..
17	17	..	..	52	51	56	..	35
22	22	..	..	53	60	48	..	30
32	32	..	..	47	64	42	..	23
31	31	..	..	42	52	40	..	28
73	78	..	34	42	41	62	..	..
63	67	..	35	44	43	53	..	..
69	74	..	37	40	39	49	..	..
60	74	..	22	38	39	45	..	5

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Martinique	2013	39	43	..	..	16	14	..
	2014	36	39	..	..	16	15	..
	2015	36	39	..	..	24	14	..
	2016	37	40	..	..	13	14	..
Mexico	2013	53	59	27	96	23	15	84
	2014	52	56	36	79	29	22	84
	2015	53	58	29	88	31	16	80
	2016	51	56	28	75	29	14	76
Montserrat	2013	58	58	..	..	..	..	..
	2014	44	44	..	..	..	..	..
	2015	50	50	..	..	..	..	..
	2016	42	42	..	..	..	..	..
Nicaragua	2013	37	32	43	..	44	..	50
	2014	38	34	38	..	52	..	49
	2015	39	36	24	..	53	..	50
	2016	38	34	34	..	45	..	52
Panama	2013	40	42	39	..	..	..	..
	2014	37	41	35	..	24	6	..
	2015	36	34	41	..	19	4	..
	2016	37	34	42	..	26	9	..
Puerto Rico	2013	41	42	10	..	16	8	..
	2014	40	41	9	..	20	8	..
	2015	40	41	6	..	22	12	..
	2016	38	40	8	..	18	11	..
Sint Maarten (Dutch part)	2013	42	42	..	..	..	..	..
	2014	42	42	..	..	..	..	..
	2015	43	43	..	..	..	..	..
	2016	44	44	..	..	..	..	..
St. Kitts-Nevis	2013	42	43	..	..	42	15	..
	2014	42	43	..	..	42	19	..
	2015	41	42	..	..	42	19	..
	2016	38	39	..	..	42	29	..
St. Lucia	2013	51	51	..	..	..	..	..
	2014	49	49	..	..	..	..	..
	2015	49	49	..	..	..	..	..
	2016	51	51	..	..	..	..	..
St. Pierre-Miquelon	2013	19	19	..	..	19	..	..
	2014	21	21	..	..	..	..	..
	2015	22	22	..	..	..	..	..
	2016	22	22	..	..	..	..	..
St. Vincent-Grenadines	2013	27	29	22	..	..	..	..
	2014	31	33	22	..	..	..	..
	2015	36	35	46	..	..	..	..
	2016	29	27	53	..	..	..	..
Trinidad and Tobago	2013	42	42	..	..	..	18	..
	2014	43	43	..	..	..	18	..
	2015	45	45	..	..	..	18	..
	2016	47	47	..	..	..	18	..
Turks and Caicos Islands	2013	31	31	..	..	..	..	..
	2014	33	33	..	..	..	..	..
	2015	33	33	..	..	..	..	..
	2016	35	35	..	..	..	..	..
United States	2013	46	43	33	95	32	14	63
	2014	46	43	31	96	33	17	58
	2015	46	44	30	96	30	17	73
	2016	45	43	32	96	32	17	73

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
45	45	..	..	39	43	..	..	14
64	64	..	..	36	39	..	..	15
76	76	..	..	36	39	..	..	14
78	78	..	..	36	40	..	..	14
41	46	51	18	55	62	27	96	63
42	45	44	25	54	59	35	79	65
43	48	45	27	55	61	29	88	64
37	40	44	26	54	62	28	75	62
..	..	..	..	58	58	..	..	..
..	..	..	..	44	44	..	..	..
..	..	..	..	50	50	..	..	..
..	..	..	..	42	42	..	..	..
45	46	13	..	36	30	44	..	47
46	46	13	..	37	31	38	..	50
43	43	13	..	38	35	25	..	51
38	38	13	..	37	33	34	..	48
2	2	..	..	44	49	41	..	..
1	2	..	..	41	50	37	..	23
2	2	..	..	39	40	43	..	17
2	2	..	..	39	39	44	..	22
47	47	..	..	41	42	10	..	13
47	47	..	..	40	41	9	..	15
47	47	..	..	39	41	6	..	18
47	47	..	..	38	40	8	..	14
..	..	..	..	42	42	..	..	..
..	..	..	..	42	42	..	..	..
..	..	..	..	43	43	..	..	..
..	..	..	..	44	44	..	..	..
3	3	..	..	45	46	..	..	35
3	3	..	..	45	46	..	..	33
3	3	..	..	44	44	..	..	33
3	3	..	..	41	41	..	..	37
..	..	..	..	51	51	..	..	..
..	..	..	..	49	49	..	..	..
..	..	..	..	49	49	..	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	19	19	..	..	19
..	..	..	..	21	21	..	..	..
..	..	..	..	22	22	..	..	..
..	..	..	..	22	22	..	..	..
..	..	..	..	27	29	22	..	..
..	..	..	..	31	33	22	..	..
..	..	..	..	36	35	46	..	..
..	..	..	..	29	27	53	..	..
5	5	..	18	45	45	..	..	..
5	5	..	18	47	47	..	..	..
5	5	..	18	49	49	..	..	..
5	5	..	18	50	50	..	..	..
..	..	..	..	31	31	..	..	..
..	..	..	..	33	33	..	..	..
..	..	..	..	33	33	..	..	..
..	..	..	..	35	35	..	..	..
54	64	60	16	46	43	32	95	32
52	63	50	16	46	43	31	96	32
50	63	54	16	46	43	30	96	31
47	63	49	15	45	42	32	96	31

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
United States Virgin Is.	2013	29	30	..	..	..	15	..
	2014	27	28	..	..	..	15	..
	2015	27	28	..	..	..	15	..
	2016	27	28	..	..	..	15	..
America, South	2013	50	44	54	82	32	21	0
	2014	49	46	52	80	27	22	0
	2015	47	45	48	67	31	23	0
	2016	44	40	47	73	36	24	23
Argentina	2013	41	41	38	70	27	21	..
	2014	44	42	47	65	36	23	..
	2015	44	44	44	46	32	19	..
	2016	45	45	43	54	29	18	..
Bolivia (Plur. State of)	2013	49	46	59	..	23	17	..
	2014	45	42	56	..	30	14	..
	2015	43	40	57	..	17	16	..
	2016	44	45	40	..	12	16	..
Brazil	2013	51	49	52	89	34	16	..
	2014	50	57	48	88	29	12	..
	2015	47	53	45	85	32	32	..
	2016	44	41	45	91	38	11	..
Chile	2013	45	50	37	..	21	6	..
	2014	39	40	41	..	22	25	..
	2015	40	41	42	..	27	25	..
	2016	37	37	40	..	27	27	..
Colombia	2013	53	59	51	..	37	..	..
	2014	54	57	53	..	37	..	..
	2015	46	51	45	..	37	..	..
	2016	49	51	48	..	32	..	..
Ecuador	2013	53	49	59	..	34	11	..
	2014	52	48	58	..	43	7	..
	2015	53	47	62	..	53	16	..
	2016	40	39	41	..	85	17	..
Falkland Is. (Malvinas)	2013	17	14	..	..	28	..	..
	2014	17	14	..	..	28	..	..
	2015	17	13	..	..	32	..	..
	2016	17	11	..	..	36	..	..
French Guiana	2013	35	29	47	..	..	15	..
	2014	36	29	48	..	..	18	..
	2015	36	31	47	..	..	16	..
	2016	37	36	46	..	..	16	..
Guyana	2013	29	29	..	..	..	..	..
	2014	29	29	..	..	..	..	..
	2015	31	31	..	..	..	..	..
	2016	31	31	..	..	..	..	..
Paraguay	2013	78	2	78	..	..	..	..
	2014	72	5	72	..	..	..	..
	2015	72	1	72	..	..	..	..
	2016	83	29	83	..	..	..	..
Peru	2013	45	32	72	..	20	28	..
	2014	46	36	69	..	20	24	..
	2015	46	36	66	..	28	26	..
	2016	41	34	55	..	51	28	..
Suriname	2013	43	31	67	..	..	..	..
	2014	48	47	48	..	..	..	..
	2015	47	51	42	..	..	10	..
	2016	46	46	47	..	..	10	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Total	Autoproducers			Main activity producers				
	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
15	..	..	15	30	30	..	..	15
15	..	..	15	28	28	..	..	15
15	..	..	15	27	28	..	..	15
15	..	..	15	27	28	..	..	15
46	44	52	8	50	44	54	82	31
47	46	51	11	49	46	52	80	27
45	45	49	8	47	45	48	67	31
43	42	49	6	44	40	47	73	35
41	41	30	..	41	41	38	70	27
40	41	21	..	44	42	47	65	36
43	43	21	..	44	44	44	46	31
43	43	16	6	45	46	43	54	29
16	20	..	17	52	48	62	..	23
13	16	..	14	48	45	60	..	30
12	14	..	16	46	42	60	..	17
18	21	..	16	46	48	42	..	12
49	48	52	11	52	50	52	89	34
51	51	52	11	50	62	48	88	29
48	48	49	48	47	58	45	85	32
46	46	49	11	43	37	45	91	38
61	64	24	20	44	48	37	..	20
52	51	65	..	39	38	41	..	23
53	53	63	34	39	39	42	..	26
32	32	51	0	37	38	40	..	27
64	72	15	..	53	57	51	..	8
69	78	17	..	53	54	53	..	8
69	78	17	..	45	48	45	..	8
70	82	0	..	48	48	49	..	32
56	54	77	..	53	47	58	..	30
51	48	80	..	53	49	58	..	23
48	46	62	..	54	47	62	..	33
45	42	66	..	40	38	40	..	48
11	11	..	..	18	15	..	..	28
11	11	..	..	18	15	..	..	28
11	11	..	..	18	13	..	..	32
11	11	..	..	18	11	..	..	36
..	..	..	..	35	29	47	..	15
..	..	..	..	36	29	48	..	18
..	..	..	..	36	31	47	..	16
..	..	..	..	37	36	46	..	16
14	14	..	..	53	53	..	..	..
10	10	..	..	61	61	..	..	..
14	14	..	..	59	59	..	..	..
13	13	..	..	59	59	..	..	..
..	..	..	..	78	2	78	..	..
..	..	..	..	72	5	72	..	..
..	..	..	..	72	1	72	..	..
..	..	..	..	83	29	83	..	..
21	18	66	..	48	35	72	..	28
21	18	61	..	50	40	69	..	22
19	15	65	..	50	40	66	..	28
17	14	63	..	44	37	54	..	44
54	35	67	..	28	28	..	..	..
48	49	48	..	47	47	..	..	..
48	58	42	..	46	47	..	..	10
53	62	47	..	35	36	..	..	10

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Uruguay	2013	40	22	61	..	27	..	..
	2014	40	18	72	..	17	10	..
	2015	39	25	61	..	28	9	..
	2016	40	31	58	..	28	9	..
Venezuela (Bolivar. Rep.)	2013	48	36	63	..	20	23	15
	2014	48	35	62	..	26	26	10
	2015	46	36	57	..	17	23	23
	2016	41	35	47	..	22	23	23
Asia	2013	46	51	35	43	21	8	106
	2014	45	50	35	44	18	9	94
	2015	43	48	35	47	16	11	86
	2016	42	47	36	49	18	11	57
Afghanistan	2013	27	22	29	..	..	..	..
	2014	28	15	32	..	..	..	..
	2015	23	12	26	..	..	..	..
	2016	24	13	28	..	..	..	..
Armenia	2013	21	15	19	66	11	..	..
	2014	22	16	18	69	11	..	..
	2015	22	13	20	78	11	11	..
	2016	20	12	20	67	8	11	..
Azerbaijan	2013	36	40	16	..	4	11	..
	2014	38	43	14	..	3	11	..
	2015	36	39	17	..	7	11	..
	2016	36	39	20	..	16	16	..
Bahrain	2013	50	50	..	..	..	..	..
	2014	51	51	..	..	..	..	..
	2015	49	49	..	..	..	21	..
	2016	49	49	..	..	11	21	..
Bangladesh	2013	71	72	44	..	46	65	..
	2014	68	69	29	..	46	69	..
	2015	61	62	28	..	46	73	..
	2016	62	63	28	..	57	78	..
Bhutan	2013	57	1	58	..	..	..	..
	2014	55	0	55	..	..	..	..
	2015	55	0	55	..	..	..	..
	2016	56	0	56	..	14	..	..
Brunei Darussalam	2013	62	62	..	..	..	19	..
	2014	63	63	..	..	..	19	..
	2015	59	59	..	..	..	19	..
	2016	59	60	..	..	..	10	..
Cambodia	2013	18	18	17	..	..	17	..
	2014	23	24	23	..	..	17	..
	2015	30	38	25	..	..	17	..
	2016	38	45	32	..	..	17	..
China	2013	46	51	36	87	21	4	45
	2014	44	48	39	75	18	7	46
	2015	41	45	39	72	16	10	50
	2016	40	44	40	72	18	9	17
China, Hong Kong SAR	2013	35	35	..	..	..	..	..
	2014	36	36	..	..	..	..	..
	2015	34	34	..	..	..	..	..
	2016	34	34	..	..	..	..	..
China, Macao SAR	2013	9	9	..	..	..	..	..
	2014	14	14	..	..	..	..	..
	2015	21	21	..	..	..	..	..
	2016	22	22	..	..	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
24	25	..	2	43	21	61	..	42
33	34	..	3	41	12	72	..	18
36	42	..	1	40	18	61	..	29
38	52	..	2	40	22	58	..	29
13	13	..	..	50	38	63	..	20
13	13	..	..	49	37	62	..	26
23	23	..	..	47	37	57	..	17
22	22	..	..	41	36	47	..	22
43	46	16	27	47	52	35	43	20
40	43	16	22	45	50	35	44	18
37	41	16	19	44	50	36	47	16
40	45	9	22	42	47	37	49	16
17	1	24	..	34	41	32	..	..
19	1	27	..	34	28	36	..	..
18	1	26	..	26	23	26	..	..
19	1	27	..	27	24	28	..	..
..	..	..	..	21	15	19	66	11
..	..	..	..	22	16	18	69	11
..	..	..	..	22	13	20	78	11
..	..	..	..	20	12	20	67	9
87	87	..	..	35	38	16	..	6
95	95	..	..	36	41	14	..	5
37	37	..	..	36	40	17	..	9
35	35	..	24	36	39	20	..	14
42	42	..	..	59	59	..	..	..
41	41	..	..	62	62	..	..	..
42	42	..	..	54	54	..	..	17
42	42	..	..	54	54	..	..	19
71	71	..	..	71	72	44	..	64
76	76	..	..	66	67	29	..	68
77	77	..	..	57	57	28	..	72
86	86	..	..	57	57	28	..	78
..	..	..	..	57	1	58	..	..
..	..	..	..	55	0	55	..	..
..	..	..	..	55	0	55	..	..
..	..	..	..	56	0	56	..	11
48	48	..	..	64	64	..	..	19
51	51	..	..	65	65	..	..	19
48	48	..	..	60	60	..	..	19
44	44	..	..	62	62	..	..	10
..	..	..	..	18	18	17	..	17
..	..	..	..	23	24	23	..	17
..	..	..	..	30	38	25	..	17
..	..	..	..	38	45	32	..	17
47	52	..	..	46	51	37	87	19
43	48	..	..	44	48	40	75	17
39	44	..	..	41	45	40	72	15
37	41	..	..	40	44	41	72	15
..	..	..	..	35	35	..	..	..
..	..	..	..	36	36	..	..	..
..	..	..	..	34	34	..	..	..
..	..	..	..	34	34	..	..	..
61	61	..	..	5	5	..	..	..
60	60	..	..	11	11	..	..	..
60	60	..	..	18	18	..	..	..
57	57	..	..	19	19	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Cyprus	2013	29	30	..	..	18	15	..
	2014	29	31	..	..	14	13	..
	2015	29	31	..	..	16	15	..
	2016	31	34	..	..	16	15	..
Georgia	2013	33	30	34	..	..	..	..
	2014	34	34	34	..	..	..	..
	2015	33	30	34	..	..	..	..
	2016	34	28	36	..	5	..	..
India	2013	46	49	40	82	18	17	..
	2014	47	53	37	71	12	15	..
	2015	54	63	34	74	14	15	..
	2016	43	51	31	64	11	11	38
Indonesia	2013	46	45	35	..	3	7	105
	2014	44	43	38	..	..	8	114
	2015	41	42	32	..	..	6	67
	2016	45	44	50	..	17	8	80
Iran (Islamic Rep. of)	2013	43	47	16	51	39	8	34
	2014	43	48	15	50	14	2	46
	2015	43	49	14	33	16	1	14
	2016	45	50	16	74	15	1	..
Iraq	2013	25	25	22	..	..	..	..
	2014	30	32	13	..	..	..	..
	2015	25	26	12	..	..	..	..
	2016	28	30	15	..	..	..	..
Israel	2013	47	48	46	..	11	12	..
	2014	43	44	21	..	11	14	..
	2015	43	44	39	..	13	17	..
	2016	43	45	..	..	..	20	..
Japan	2013	40	55	20	2	22	11	556
	2014	38	53	20	0	22	11	546
	2015	37	52	21	3	23	12	528
	2016	36	50	19	5	21	14	520
Jordan	2013	58	58	52	..	24	..	..
	2014	50	50	55	..	20	..	..
	2015	49	50	50	..	12	4	..
	2016	47	50	39	..	22	20	15
Kazakhstan	2013	53	54	40	..	14	11	..
	2014	48	49	38	..	15	11	..
	2015	48	49	42	..	15	11	..
	2016	48	48	53	..	18	19	..
Korea, Dem.Ppl's.Rep.	2013	29	17	37	..	..	..	..
	2014	28	19	35	..	..	..	..
	2015	21	14	26	..	..	..	..
	2016	25	16	31	..	..	..	..
Korea, Republic of	2013	68	72	15	76	23	12	31
	2014	63	63	14	86	21	12	38
	2015	61	61	10	87	18	13	41
	2016	58	58	12	80	18	13	40
Kuwait	2013	44	44	..	..	..	..	..
	2014	47	47	..	..	..	..	..
	2015	44	44	..	..	..	..	..
	2016	42	42	..	..	..	11	..
Kyrgyzstan	2013	41	13	49	..	..	..	..
	2014	43	18	50	..	..	..	..
	2015	38	28	41	..	..	..	..
	2016	39	25	43	..	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Total	Autoproducers			Main activity producers				
	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
19	18	..	23	29	30	..	..	17
21	21	..	23	29	31	..	..	13
16	12	..	24	30	32	..	..	15
16	13	..	20	32	35	..	..	15
..	..	..	..	33	30	34	..	..
..	..	..	..	34	34	34	..	..
..	..	..	..	33	30	34	..	..
..	..	..	..	34	28	36	..	5
57	59	24	18	45	48	40	82	18
41	43	20	12	48	55	37	71	13
30	31	32	20	63	83	34	74	13
43	46	27	12	43	52	31	64	17
66	62	44	23,284	42	41	33	..	74
73	67	54	32,837	39	38	35	..	72
69	66	67	23,967	32	33	23	..	36
40	35	67	102	48	48	44	..	57
13	13	..	..	45	51	16	51	39
13	13	..	..	45	51	15	50	16
13	13	..	..	46	52	14	33	15
13	13	..	..	47	53	16	74	12
..	..	..	..	25	25	22	..	..
..	..	..	..	30	32	13	..	..
..	..	..	..	25	26	12	..	..
..	..	..	..	28	30	15	..	..
29	50	29	12	48	48	53	..	11
33	62	29	14	44	44	18	..	11
35	61	51	17	43	43	34	..	13
33	55	..	20	44	44	..	..	..
29	28	44	29	44	65	18	2	49
27	29	45	22	42	62	18	0	50
28	32	44	19	41	59	19	3	48
33	50	63	22	37	50	19	5	13
16	16	..	..	61	61	52	..	24
22	22	..	..	51	51	55	..	20
27	27	..	..	50	51	50	..	12
32	32	..	..	47	50	39	..	21
11	..	..	11	53	54	40	..	14
11	..	..	11	48	49	38	..	15
11	..	..	11	48	49	42	..	14
11	..	..	11	48	48	53	..	19
..	..	..	..	29	17	37	..	..
..	..	..	..	28	19	35	..	..
..	..	..	..	21	14	26	..	..
..	..	..	..	25	16	31	..	..
51	54	..	7	69	74	15	76	20
49	53	..	7	64	64	14	86	19
45	52	..	5	62	62	10	87	19
54	59	..	9	58	58	12	80	17
..	..	..	..	45	45	..	..	..
..	..	..	..	47	47	..	..	..
..	..	..	..	44	44	..	..	..
..	..	..	..	42	42	..	..	11
40	40	..	..	41	13	49	..	..
46	46	..	..	43	18	50	..	..
46	46	..	..	38	27	41	..	..
49	49	..	..	39	25	43	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Lao People's Dem. Rep.	2013	59	2	59	..	..	15	..
	2014	58	2	58	..	..	16	..
	2015	33	15	42	..	..	16	..
	2016	45	43	45	..	..	16	..
Lebanon	2013	56	57	53	..	..	..	..
	2014	58	62	8	..	..	..	..
	2015	60	63	20	..	..	..	..
	2016	68	74	16	..	..	..	..
Malaysia	2013	50	53	31	..	..	10	..
	2014	56	61	32	..	..	16	..
	2015	56	66	28	..	..	14	..
	2016	54	60	37	..	..	13	..
Maldives	2013	31	31	..	..	..	11	..
	2014	23	23	..	..	..	6	..
	2015	25	26	..	..	..	14	..
	2016	27	27	..	..	..	14	..
Mongolia	2013	45	48	..	..	..	..	..
	2014	46	49	..	..	..	..	..
	2015	47	50	..	..	..	..	..
	2016	48	51	..	..	..	..	..
Myanmar	2013	34	34	34	..	..	..	..
	2014	34	38	32	..	..	..	..
	2015	35	36	34	..	..	..	..
	2016	38	43	34	..	..	..	..
Nepal	2013	46	2	50	..	..	..	..
	2014	48	2	51	..	..	..	..
	2015	50	..	54	..	11	11	..
	2016	49	..	53	..	11	11	..
Oman	2013	45	45	..	..	..	..	..
	2014	40	40	..	..	..	..	..
	2015	48	48	..	..	..	..	..
	2016	49	49	..	..	..	..	..
Other Asia	2013	60	61	21	92	30	10	..
	2014	62	65	18	94	27	10	..
	2015	61	66	18	81	27	12	..
	2016	61	67	24	70	24	11	..
Pakistan	2013	50	48	53	77	43	..	..
	2014	51	50	53	88	21	..	..
	2015	49	47	56	70	20	..	..
	2016	47	45	52	73	25	..	..
Philippines	2013	50	54	32	..	5	16	59
	2014	49	55	29	..	6	8	61
	2015	51	57	27	..	20	10	66
	2016	49	55	27	..	26	16	66
Qatar	2013	45	45	..	..	..	..	..
	2014	50	50	..	..	..	..	..
	2015	54	54	..	..	..	..	..
	2016	55	55	..	..	..	..	..
Saudi Arabia	2013	55	55	..	..	..	18	..
	2014	54	54	..	..	..	17	..
	2015	56	56	..	..	..	17	..
	2016	53	53	..	..	..	16	..
Singapore	2013	48	48	..	..	..	..	..
	2014	43	43	..	..	..	..	..
	2015	44	44	..	..	..	..	..
	2016	44	44	..	..	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	59	2	59	..	15
..	..	..	..	58	2	58	..	16
..	..	..	..	33	15	42	..	16
..	..	..	..	45	43	45	..	16
84	84	..	..	46	46	53	..	..
67	67	..	..	55	60	8	..	..
68	68	..	..	56	61	20	..	..
73	73	..	..	66	74	16	..	..
19	19	..	..	53	57	31	..	10
23	23	..	..	59	65	32	..	16
19	26	..	..	61	70	28	..	9
22	28	..	..	58	64	37	..	8
18	18	..	..	42	43	..	..	6
19	19	..	..	26	26	..	..	5
19	19	..	..	31	31	..	..	11
20	20	..	..	33	34	..	..	11
..	..	..	..	52	55	..	..	..
..	..	..	..	54	57	..	..	..
..	..	..	..	55	58	..	..	..
..	..	..	..	56	59	..	..	..
27	26	30	..	34	36	34	..	..
54	57	45	..	31	30	31	..	..
33	28	45	..	35	38	33	..	..
50	52	39	..	36	40	34	..	..
10	..	10	..	55	2	60	..	..
9	..	9	..	59	2	64	..	..
18	..	18	..	55	..	60	..	11
6	..	6	..	67	..	73	..	11
..	..	..	..	45	45	..	..	..
..	..	..	..	40	40	..	..	..
..	..	..	..	48	48	..	..	..
..	..	..	..	49	49	..	..	..
57	57	..	..	60	62	21	92	22
59	59	..	..	63	66	18	94	19
55	55	..	..	63	69	18	81	18
54	54	..	..	62	70	24	70	12
58	58	..	..	46	36	53	77	43
63	63	..	..	45	34	53	88	21
57	57	..	..	45	35	56	70	20
53	53	..	..	43	36	52	73	25
15	19	12	..	50	54	32	..	55
15	19	12	..	50	55	29	..	54
15	19	12	..	51	57	27	..	54
15	19	12	..	49	55	27	..	48
55	55	..	..	16	16	..	..	..
61	61	..	..	18	18	..	..	..
68	68	..	..	13	13	..	..	..
69	69	..	..	13	13	..	..	..
78	78	..	..	52	52	..	..	18
67	67	..	..	52	52	..	..	17
78	78	..	..	52	52	..	..	17
80	80	..	..	48	48	..	..	16
64	64	..	..	47	47	..	..	..
68	68	..	..	42	42	..	..	..
89	89	..	..	42	43	..	..	..
96	96	..	..	42	42	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Sri Lanka	2013	42	35	49	..	33	25	..
	2014	36	41	31	..	24	31	..
	2015	38	37	40	..	31	23	..
	2016	41	53	28	..	30	12	..
State of Palestine	2013	44	44	..	..	..	..	..
	2014	28	28	..	..	..	..	..
	2015	42	42	..	..	..	..	..
	2016	44	44	..	..	..	..	..
Syrian Arab Republic	2013	36	36	40	..	..	..	..
	2014	26	26	23	..	..	..	..
	2015	22	26	3	..	..	..	..
	2016	21	24	7	..	..	..	..
Tajikistan	2013	32	2	33	..	..	..	..
	2014	30	4	32	..	..	..	..
	2015	31	8	33	..	..	..	..
	2016	30	10	32	..	..	..	..
Thailand	2013	36	39	19	..	17	3	38
	2014	35	39	18	..	17	4	38
	2015	35	38	18	..	16	8	38
	2016	36	38	27	..	17	11	38
Timor-Leste	2013	24	24	..	..	..	..	..
	2014	14	14	..	..	..	..	..
	2015	25	25	..	..	..	..	..
	2016	17	17	..	..	..	..	..
Turkey	2013	43	51	30	..	31	..	51
	2014	41	55	20	..	27	5	62
	2015	41	49	30	..	30	9	62
	2016	40	48	29	..	31	14	66
Turkmenistan	2013	57	57	..	..	..	..	..
	2014	58	58	..	..	..	..	..
	2015	64	64	..	..	..	..	..
	2016	55	55	..	..	..	..	..
United Arab Emirates	2013	46	46	..	..	..	10	..
	2014	46	46	..	..	..	55	..
	2015	51	51	..	..	..	55	..
	2016	51	51	..	..	..	59	..
Uzbekistan	2013	49	45	71	..	..	..	..
	2014	50	46	73	..	..	..	..
	2015	51	48	73	..	..	..	..
	2016	52	48	73	..	..	..	..
Viet Nam	2013	52	45	63	..	28	..	..
	2014	49	52	45	..	31	..	..
	2015	47	50	42	..	22	..	..
	2016	49	51	46	..	15	..	..
Yemen	2013	63	63	..	..	..	..	..
	2014	58	57	..	..	..	..	..
	2015	45	41	..	..	..	..	..
	2016	38	32	..	..	..	..	..
Europe	2013	41	41	35	80	23	12	73
	2014	39	38	35	81	23	12	75
	2015	39	39	33	80	24	13	78
	2016	39	40	34	78	22	12	78
Albania	2013	41	..	45	..	..	..	..
	2014	29	..	31	..	..	..	..
	2015	35	..	37	..	..	..	..
	2016	42	..	45	..	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Total	Autoproducers			Main activity producers				
	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
1	0	0	28	45	35	58	..	33
2	0	0	34	39	41	38	..	24
38	33	40	24	38	37	41	..	31
5	43	1	16	45	53	35	..	26
..	..	..	..	44	44	..	..	..
..	..	..	..	28	28	..	..	..
..	..	..	..	42	42	..	..	..
..	..	..	..	44	44	..	..	..
6	6	..	..	40	40	40	..	..
5	5	..	..	28	30	23	..	..
5	5	..	..	25	30	3	..	..
7	7	..	..	23	26	7	..	..
..	..	..	..	32	2	33	..	..
..	..	..	..	30	4	32	..	..
..	..	..	..	31	8	33	..	..
..	..	..	..	30	10	32	..	..
19	21	..	5	44	49	19	..	3
21	22	..	7	43	47	18	..	3
23	24	..	12	40	44	18	..	4
33	35	..	17	38	40	27	..	5
..	..	..	..	24	24	..	..	..
..	..	..	..	14	14	..	..	..
..	..	..	..	25	25	..	..	..
..	..	..	..	17	17	..	..	..
43	47	23	51	43	51	31	..	33
48	53	18	41	41	55	20	..	31
48	51	26	59	40	49	30	..	32
45	50	18	27	40	47	29	..	34
..	..	..	..	57	57	..	..	..
..	..	..	..	58	58	..	..	..
..	..	..	..	64	64	..	..	..
..	..	..	..	55	55	..	..	..
..	..	..	..	46	46	..	..	10
..	..	..	..	46	46	..	..	55
..	..	..	..	51	51	..	..	55
..	..	..	..	51	51	..	..	59
14	14	..	..	49	45	71	..	..
15	15	..	..	50	46	73	..	..
15	15	..	..	52	48	73	..	..
16	16	..	..	52	49	73	..	..
17	17	4	4	56	50	63	..	33
15	17	3	4	52	59	46	..	33
15	17	3	4	50	55	43	..	23
15	16	3	4	54	60	47	..	16
24	24	..	..	67	67	..	..	..
34	23	..	..	60	60	..	..	..
70	17	..	..	43	43	..	..	..
86	15	..	..	34	34	..	..	..
40	45	40	14	41	40	35	80	20
36	41	42	13	40	37	35	81	20
37	43	40	14	40	38	33	80	21
37	44	37	13	40	39	34	78	20
..	..	..	..	42	..	45	..	..
..	..	..	..	29	..	31	..	..
..	..	..	..	35	..	37	..	..
..	..	..	..	43	..	45	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Andorra	2013	26	33	26	..	..	..	..
	2014	29	34	29	..	..	..	..
	2015	23	35	22	..	..	..	..
	2016	23	36	21	..	..	..	..
Austria	2013	33	26	40	..	22	11	0
	2014	31	23	39	..	21	11	0
	2015	30	28	35	..	22	11	0
	2016	31	30	36	..	22	11	0
Belarus	2013	39	39	46	..	46	..	..
	2014	39	39	41	..	42	4	..
	2015	40	40	36	..	42	30	..
	2016	38	39	22	..	14	7	..
Belgium	2013	45	42	14	82	24	10	31
	2014	40	39	12	65	27	11	23
	2015	38	45	11	50	29	11	31
	2016	45	42	12	84	26	11	31
Bosnia and Herzegovina	2013	46	53	39	..	..	..	..
	2014	45	56	33	..	..	..	..
	2015	41	53	30	..	..	..	..
	2016	46	63	30	..	..	30	..
Bulgaria	2013	43	54	17	82	23	15	..
	2014	47	61	18	92	22	14	..
	2015	51	71	22	89	24	15	..
	2016	47	66	16	92	23	15	..
Croatia	2013	37	30	45	..	23	7	..
	2014	35	22	49	..	24	12	..
	2015	27	21	34	..	24	11	..
	2016	31	26	37	..	24	14	..
Czechia	2013	47	47	18	82	21	11	..
	2014	45	44	15	81	20	12	..
	2015	44	45	16	71	23	12	..
	2016	43	46	16	64	20	12	..
Denmark	2013	29	31	16	..	26	10	..
	2014	27	26	19	..	31	11	..
	2015	24	20	29	..	32	9	..
	2016	24	24	24	..	28	10	..
Estonia	2013	52	55	37	..	24	..	..
	2014	47	49	62	..	25	..	..
	2015	42	43	51	..	27	..	..
	2016	54	59	67	..	22	..	..
Faeroe Islands	2013	29	32	26	..	23	..	..
	2014	28	25	35	..	24	..	..
	2015	28	21	39	..	32	..	..
	2016	28	26	31	..	30	..	..
Finland	2013	49	37	45	98	20	8	..
	2014	48	35	47	98	20	8	..
	2015	47	31	59	96	26	7	..
	2016	48	35	56	96	22	6	..
France	2013	51	23	34	77	22	11	62
	2014	50	16	31	79	22	12	59
	2015	50	21	27	79	24	12	61
	2016	49	28	29	73	21	13	55
Germany	2013	39	53	29	92	18	10	47
	2014	36	48	26	92	17	11	51
	2015	36	48	25	97	20	11	52
	2016	36	50	26	89	18	11	62

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Total	Autoproducers			Main activity producers				
	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	26	33	26	..	..
..	..	..	..	29	34	29	..	..
..	..	..	..	23	35	22	..	..
..	..	..	..	23	36	21	..	..
39	47	12	..	32	20	41	..	19
39	47	12	..	30	16	40	..	18
40	49	10	..	30	22	36	..	19
40	49	11	..	31	24	37	..	19
48	48	13	23	38	38	53	..	68
44	45	13	46	38	38	46	..	18
48	49	11	74	39	39	41	..	30
46	46	27	14	38	38	21	..	11
24	51	..	10	51	40	14	82	23
25	53	..	11	43	37	12	65	27
26	56	..	11	41	42	11	50	29
26	57	..	11	51	39	12	84	26
18	18	..	..	48	57	39	..	..
18	18	..	..	46	61	33	..	..
21	21	..	..	43	56	30	..	..
20	20	..	..	48	68	30	..	30
27	44	..	..	43	54	17	82	18
30	45	..	..	48	61	18	92	17
18	30	..	..	52	72	22	89	19
16	28	..	..	48	68	16	92	19
24	24	29	..	38	30	46	..	22
25	25	40	..	35	21	49	..	23
22	21	34	..	28	21	34	..	22
23	23	40	..	31	26	37	..	23
52	53	38	..	47	46	17	82	12
55	57	34	..	44	42	13	81	13
56	59	34	..	43	43	14	71	14
57	59	36	..	42	45	14	64	13
24	38	..	10	29	31	16	..	26
24	37	..	11	27	25	19	..	31
22	38	..	9	24	18	29	..	32
21	35	..	10	25	23	24	..	28
58	58	..	57	52	55	37	..	24
27	28	..	23	47	49	59	..	25
58	65	..	27	41	43	51	..	27
88	103	..	25	54	58	67	..	22
..	..	..	..	29	32	26	..	23
..	..	..	..	28	25	35	..	24
..	..	..	..	28	21	39	..	32
..	..	..	..	28	26	31	..	30
56	55	60	8	48	34	45	98	20
56	55	57	8	47	30	46	98	20
56	54	66	7	46	25	58	96	27
53	51	64	6	48	30	55	96	22
27	37	41	15	53	20	34	77	20
26	37	44	15	52	12	31	79	20
26	38	34	15	52	17	27	79	21
25	37	37	14	50	27	29	73	20
53	53	49	51	39	53	29	92	14
53	53	42	53	35	48	26	92	14
53	54	42	54	35	48	25	97	16
59	59	47	62	34	49	26	89	15

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Gibraltar	2013	50	50	..	..	..	..	..
	2014	53	53	..	..	..	..	..
	2015	53	53	..	..	..	..	..
	2016	55	55	..	..	..	..	..
Greece	2013	35	44	23	..	26	16	..
	2014	30	40	16	..	21	17	..
	2015	31	39	21	..	25	17	..
	2016	32	42	19	..	25	17	..
Guernsey	2013	29	29	..	..	..	..	..
	2014	22	22	..	..	..	..	..
	2015	16	16	..	..	..	..	..
	2016	9	9	..	..	..	..	..
Hungary	2013	41	27	43	88	25	8	37
	2014	39	23	60	89	23	8	48
	2015	40	25	47	90	24	8	51
	2016	42	27	52	92	24	10	24
Iceland	2013	75	1	74	..	17	..	90
	2014	75	0	74	..	30	..	90
	2015	77	0	79	..	42	..	86
	2016	76	0	77	..	34	..	87
Ireland	2013	34	37	20	..	27	11	..
	2014	33	36	21	..	27	6	..
	2015	34	36	24	..	31	11	..
	2016	35	40	21	..	25	8	..
Isle of Man	2013	21	21	34	..	..	..	..
	2014	21	21	34	..	..	..	..
	2015	20	20	34	..	..	..	..
	2016	20	20	34	..	..	..	..
Italy	2013	27	29	28	..	20	14	70
	2014	26	28	31	..	20	14	68
	2015	28	33	24	..	19	14	71
	2016	29	37	23	..	22	13	73
Jersey	2013	7	7	..	..	..	..	..
	2014	5	5	..	..	..	..	..
	2015	2	2	..	..	..	..	..
	2016	3	3	..	..	..	..	..
Kosovo	2013	55	56	38	..	..	..	..
	2014	55	56	40	..	..	..	..
	2015	55	56	38	..	..	..	..
	2016	56	56	66	..	..	..	..
Latvia	2013	24	29	21	..	20	..	..
	2014	20	27	14	..	23	..	..
	2015	22	32	13	..	24	..	..
	2016	25	33	18	..	21	..	..
Liechtenstein	2013	70	39	79	..	..	48	..
	2014	32	29	25	..	..	47	..
	2015	50	25	56	..	..	43	..
	2016	64	27	77	..	..	44	..
Lithuania	2013	13	10	14	..	25	8	..
	2014	12	10	14	..	25	12	..
	2015	16	14	13	..	21	12	..
	2016	13	9	14	..	25	11	..
Luxembourg	2013	18	34	12	..	16	9	..
	2014	17	35	10	..	16	10	..
	2015	16	23	13	..	18	10	..
	2016	15	39	13	..	10	9	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	50	50	..	..	..
..	..	..	..	53	53	..	..	..
..	..	..	..	53	53	..	..	..
..	..	..	..	55	55	..	..	..
41	41	..	..	34	44	23	..	20
41	41	..	..	30	40	16	..	19
48	48	..	..	31	39	21	..	21
39	39	..	..	32	42	19	..	21
..	..	..	..	29	29	..	..	..
..	..	..	..	22	22	..	..	..
..	..	..	..	16	16	..	..	..
..	..	..	..	9	9	..	..	..
35	41	..	14	41	26	43	88	25
29	36	..	14	39	23	60	89	23
23	32	..	12	41	25	47	90	24
23	36	..	12	43	27	52	92	24
..	..	..	..	75	1	74	..	90
..	..	..	..	75	0	74	..	90
..	..	..	..	77	0	79	..	86
..	..	..	..	76	0	77	..	87
69	70	..	11	32	35	20	..	27
69	69	..	6	31	34	21	..	27
71	72	..	11	33	34	24	..	31
68	70	..	8	34	39	21	..	25
..	..	..	..	21	21	34	..	..
..	..	..	..	21	21	34	..	..
..	..	..	..	20	20	34	..	..
..	..	..	..	20	20	34	..	..
43	42	60	32	26	29	28	..	18
44	44	71	29	26	27	31	..	18
41	41	57	32	27	33	24	..	17
44	43	55	42	28	36	22	..	18
14	14	..	..	7	7	..	..	..
15	15	..	..	4	4	..	..	..
17	17	..	..	0	0	..	..	..
18	18	..	..	1	1	..	..	..
..	..	..	..	55	56	38	..	..
..	..	..	..	55	56	40	..	..
..	..	..	..	55	56	38	..	..
..	..	..	..	56	56	66	..	..
56	57	17	..	24	28	21	..	20
68	68	40	..	19	26	14	..	23
69	70	11	..	21	30	13	..	24
54	58	11	11	25	32	18	..	21
..	..	..	..	70	39	79	..	48
..	..	..	..	32	29	25	..	47
..	..	..	..	50	25	56	..	43
..	..	..	..	64	27	77	..	44
26	18	..	..	12	10	14	..	21
31	23	..	..	11	8	14	..	23
39	31	..	..	14	12	13	..	20
36	28	..	..	11	7	14	..	24
19	36	34	9	18	34	12	..	16
18	33	34	10	17	36	10	..	16
17	30	34	10	15	22	13	..	18
16	27	46	9	14	54	13	..	10

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Malta	2013	38	41	..	..	..	7	..
	2014	35	40	..	..	..	7	..
	2015	20	23	..	..	..	6	..
	2016	13	15	..	..	..	8	..
Montenegro	2013	52	75	44	..	..	..	..
	2014	42	74	31	..	..	..	..
	2015	39	79	26	..	..	..	..
	2016	41	68	32	..	..	..	..
Netherlands	2013	38	40	35	68	24	7	37
	2014	37	39	35	96	23	9	40
	2015	37	39	29	96	25	8	46
	2016	38	42	31	93	22	9	60
Norway	2013	46	23	47	..	26	..	..
	2014	48	24	50	..	29	..	..
	2015	49	24	50	..	33	..	..
	2016	50	34	52	..	27	..	..
Poland	2013	52	59	15	..	20	6	46
	2014	50	57	13	..	23	3	46
	2015	50	58	12	..	25	6	51
	2016	50	58	13	..	25	8	57
Portugal	2013	31	33	30	..	30	18	90
	2014	32	33	33	..	28	17	90
	2015	30	43	18	..	27	20	93
	2016	33	43	28	..	28	20	79
Republic of Moldova	2013	65	21	32	..	11	..	..
	2014	84	22	42	..	11	11	..
	2015	99	21	36	..	23	23	..
	2016	104	22	28	..	17	11	..
Romania	2013	29	27	26	94	19	6	..
	2014	31	27	33	94	22	13	..
	2015	32	29	29	94	26	16	..
	2016	31	28	31	91	25	14	..
Russian Federation	2013	50	49	42	78	6	..	64
	2014	47	44	40	82	11	8	67
	2015	47	45	38	85	17	9	67
	2016	47	43	42	83	18	10	65
Serbia	2013	64	78	42	..	..	..	..
	2014	53	60	44	..	..	11	..
	2015	59	73	41	..	..	14	..
	2016	61	73	43	..	17	12	..
Slovakia	2013	39	24	23	93	14	13	32
	2014	39	25	20	91	23	13	54
	2015	39	29	19	89	23	11	38
	2016	40	30	21	87	23	11	46
Slovenia	2013	54	51	43	88	11	13	..
	2014	58	41	56	106	11	13	..
	2015	51	51	36	94	14	13	..
	2016	53	50	42	95	14	13	..
Spain	2013	29	24	24	93	28	21	0
	2014	28	23	25	88	26	22	0
	2015	28	26	18	88	25	22	27
	2016	28	23	22	90	24	21	14
Sweden	2013	45	20	43	81	27	9	..
	2014	44	17	46	78	25	9	..
	2015	45	18	53	66	32	11	..
	2016	43	20	43	74	27	11	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
17	23	..	17	39	41	..	..	0
14	27	..	13	37	40	..	..	..
12	27	..	12	21	23	..	..	..
14	18	..	14	13	15	..	..	..
..	..	..	..	52	75	44	..	..
..	..	..	..	42	74	31	..	..
..	..	..	..	39	79	26	..	..
..	..	..	..	41	68	32	..	..
44	51	..	14	36	37	35	68	24
37	44	..	14	37	37	35	96	23
37	46	..	13	37	38	29	96	25
35	47	..	12	39	41	31	93	22
50	50	..	..	46	9	47	..	25
53	53	..	..	48	8	50	..	28
54	54	..	..	49	8	50	..	32
54	54	..	..	50	13	52	..	26
56	56	34	26	52	59	15	..	20
55	55	34	6	50	57	13	..	23
50	52	34	7	50	58	12	..	25
57	62	34	8	49	58	13	..	25
50	53	38	15	29	27	30	..	30
46	49	44	17	30	28	33	..	28
46	49	29	19	29	41	18	..	27
47	50	38	19	32	41	28	..	28
4	4	..	..	90	28	32	..	21,404
6	6	..	..	115	29	42	..	14,909
3	3	..	..	138	29	36	..	18,858
4	4	..	..	137	28	28	..	9,501
24	29	28	6	30	27	26	94	18
22	25	41	11	33	28	33	94	20
28	31	42	13	32	29	29	94	24
29	33	41	10	32	26	31	91	23
37	38	37	..	52	51	42	78	58
30	30	36	..	49	46	40	82	20
33	33	36	..	49	47	38	85	17
33	33	34	..	48	45	42	83	17
38	38	..	..	64	79	42	..	..
43	43	..	..	53	60	44	..	11
47	47	..	..	60	73	41	..	14
40	40	..	..	61	74	43	..	15
26	36	40	13	41	22	23	93	13
30	40	44	15	40	21	20	91	13
31	45	36	11	41	24	19	89	16
32	47	36	13	41	25	21	87	17
21	67	16	13	57	51	46	88	11
22	62	22	13	62	40	59	106	13
20	65	15	13	55	51	38	94	13
22	66	22	13	57	49	44	95	13
60	61	54	4	27	19	24	93	26
50	51	61	5	26	19	25	88	25
52	53	43	28	26	22	17	88	24
53	54	46	17	26	19	22	90	24
56	56	13	..	44	14	43	81	27
55	55	15	..	44	11	46	78	25
55	56	16	..	45	12	53	66	31
54	55	10	..	43	14	43	74	27

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Switzerland	2013	42	41	33	91	17	8	..
	2014	43	41	33	95	19	9	..
	2015	39	40	33	79	21	9	..
	2016	35	46	28	72	17	9	..
T.F.Yug.Rep. Macedonia	2013	40	46	29	..	..	15	..
	2014	35	43	22	..	22	11	..
	2015	36	38	32	..	37	15	58
	2016	36	38	33	..	34	16	82
Ukraine	2013	40	31	30	69	20	11	..
	2014	37	27	18	73	31	12	..
	2015	33	22	14	72	29	13	..
	2016	33	23	17	67	25	13	..
United Kingdom	2013	44	44	19	81	29	8	7
	2014	40	41	22	73	28	8	3
	2015	40	41	23	85	32	9	3
	2016	40	44	21	86	26	10	0
Oceania	2013	44	49	34	..	29	12	89
	2014	43	48	35	..	32	11	84
	2015	44	50	31	..	32	13	90
	2016	46	52	34	..	33	15	86
American Samoa	2013	43	44	..	..	..	13	..
	2014	43	44	..	..	..	13	..
	2015	43	46	..	..	..	6	..
	2016	43	46	..	..	..	6	..
Australia	2013	44	50	24	..	28	12	11
	2014	42	48	24	..	31	11	11
	2015	43	51	18	..	31	13	11
	2016	45	53	20	..	32	15	0
Cook Islands	2013	31	32	..	..	..	16	..
	2014	37	42	..	..	..	16	..
	2015	26	28	..	..	..	15	..
	2016	28	30	..	..	..	19	..
Fiji	2013	32	23	45	..	6	..	..
	2014	32	32	34	..	5	..	..
	2015	35	39	34	..	6	..	..
	2016	34	30	44	..	2	..	..
French Polynesia	2013	32	29	45	..	..	27	..
	2014	31	26	50	..	..	28	..
	2015	31	26	50	..	..	28	..
	2016	28	24	54	..	..	6	..
Guam	2013	36	36	..	..	..	..	..
	2014	36	36	..	..	..	..	..
	2015	39	41	..	..	..	10	..
	2016	39	40	..	..	21	23	..
Kiribati	2013	38	45	..	..	..	..	..
	2014	38	45	..	..	..	..	..
	2015	35	39	..	..	..	15	..
	2016	33	38	..	..	..	19	..
Marshall Islands	2013	28	29	..	..	..	5	..
	2014	29	29	..	..	..	23	..
	2015	27	27	..	..	..	11	..
	2016	26	27	..	..	..	11	..
Micronesia (Fed. States of)	2013	24	24	..	..	..	16	..
	2014	23	24	0	..	..	16	..
	2015	22	24	1	..	..	16	..
	2016	22	24	1	..	..	15	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
35	47	55	8	43	27	32	91	17
33	49	59	9	44	20	32	95	19
30	47	64	9	41	19	32	79	21
26	49	43	9	36	36	28	72	17
6	6	..	..	40	47	29	..	15
3	3	..	..	35	43	22	..	19
..	..	..	..	36	38	32	..	32
..	..	..	..	36	38	33	..	33
11	11	50	2	42	33	30	69	14
11	11	54	9	39	28	18	73	22
9	9	39	8	35	23	14	72	21
19	19	53	34	34	23	17	67	19
39	59	54	15	44	42	18	81	30
32	55	57	13	41	40	20	73	29
31	57	53	14	42	39	21	85	30
30	62	46	13	42	41	19	86	25
35	47	41	14	46	50	34	..	40
33	47	41	13	45	48	35	..	41
33	47	40	14	46	50	31	..	41
33	46	41	16	47	53	34	..	40
..	..	..	..	43	44	..	..	13
..	..	..	..	43	44	..	..	13
..	..	..	..	43	46	..	..	6
..	..	..	..	43	46	..	..	6
32	45	..	12	45	50	24	..	28
30	45	..	11	44	49	24	..	31
30	45	..	13	45	51	18	..	31
30	44	..	15	47	54	20	..	31
..	..	..	..	31	32	..	..	16
..	..	..	..	37	42	..	..	16
..	..	..	..	26	28	..	..	15
..	..	..	..	28	30	..	..	19
11	11	..	..	36	28	45	..	6
11	11	..	..	36	40	34	..	5
7	7	..	..	39	48	34	..	6
3	3	..	..	38	37	44	..	2
..	..	..	..	32	29	45	..	27
..	..	..	..	31	26	50	..	28
..	..	..	..	31	26	50	..	28
..	..	..	..	28	24	54	..	6
..	..	..	..	36	36	..	..	..
..	..	..	..	36	36	..	..	..
..	..	..	..	39	41	..	..	9
..	..	..	..	39	40	..	..	23
23	23	..	..	40	49	..	..	..
23	23	..	..	40	49	..	..	..
23	23	..	..	36	41	..	..	15
21	21	..	..	34	41	..	..	19
..	..	..	..	28	29	..	..	5
..	..	..	..	29	29	..	..	23
..	..	..	..	27	27	..	..	11
..	..	..	..	26	27	..	..	11
..	..	..	..	24	24	..	..	16
..	..	..	..	23	24	0	..	16
..	..	..	..	22	24	1	..	16
..	..	..	..	22	24	1	..	15

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Country or area	Year	Total producers						
		Total	Combustible fuels	Hydro	Nuclear	Wind	Solar	Other
Nauru	2013	50	52	..	..	..	6	..
	2014	46	48	..	..	..	6	..
	2015	46	48	..	..	..	6	..
	2016	43	48	..	..	..	4	..
New Caledonia	2013	41	40	67	..	16	14	..
	2014	50	54	42	..	18	14	..
	2015	33	33	50	..	19	11	..
	2016	36	37	34	..	14	13	..
New Zealand	2013	52	49	49	..	37	11	89
	2014	51	40	52	..	37	10	84
	2015	53	45	52	..	39	10	90
	2016	53	38	55	..	38	14	86
Niue	2013	18	18	..	..	..	15	..
	2014	15	17	..	..	..	2	..
	2015	16	18	..	..	..	2	..
	2016	16	18	..	..	..	2	..
Northern Mariana Islands	2013	52	52	..	..	..	..	..
	2014	51	51	..	..	..	..	..
	2015	52	52	..	..	..	..	..
	2016	47	47	..	..	..	..	..
Palau	2013	33	33	..	..	..	..	..
	2014	34	34	..	..	..	..	..
	2015	34	34	..	..	..	..	..
	2016	36	36	..	..	..	..	..
Papua New Guinea	2013	52	53	44	..	..	..	86
	2014	55	55	47	..	..	..	86
	2015	58	60	46	..	..	..	91
	2016	59	62	46	..	..	..	90
Samoa	2013	31	31	31	..	..	..	..
	2014	38	42	29	..	..	7	..
	2015	35	44	32	..	4	6	..
	2016	38	45	34	..	4	22	..
Solomon Islands	2013	28	28	..	..	..	..	..
	2014	29	29	..	..	..	25	..
	2015	30	30	..	..	..	25	..
	2016	32	32	..	..	..	25	..
Tonga	2013	41	43	..	..	8	16	..
	2014	40	43	..	..	17	18	..
	2015	38	40	..	..	11	23	..
	2016	35	36	..	..	10	22	..
Tuvalu	2013	21	21	..	..	..	..	..
	2014	21	21	..	..	..	..	..
	2015	21	21	..	..	..	23	..
	2016	18	29	..	..	..	11	..
Vanuatu	2013	25	24	67	..	11	21	..
	2014	24	24	67	..	11	21	..
	2015	23	21	67	..	21	29	..
	2016	25	24	67	..	21	23	..
Wallis and Futuna Is.	2013	19	19	..	..	..	..	..
	2014	19	19	..	..	..	..	..
	2015	24	25	..	..	..	..	..
	2016	26	27	..	..	..	..	..

Table 31

Utilization of installed electricity capacity - by type

Kilowatt-hours per kilowatt divided by 8760

Autoproducers				Main activity producers				
Total	Combustible fuels	Hydro	Other	Total	Combustible fuels	Hydro	Nuclear	Other
..	..	..	..	50	52	..	..	6
..	..	..	..	46	48	..	..	6
..	..	..	..	46	48	..	..	6
..	..	..	..	43	48	..	..	4
..	..	..	..	45	44	67	..	16
..	..	..	..	55	60	42	..	18
..	..	..	..	35	35	50	..	18
..	..	..	..	38	40	34	..	14
66	70	46	42	51	47	49	..	67
63	69	34	35	50	38	52	..	65
61	70	34	28	53	42	52	..	70
57	66	34	29	53	35	55	..	67
..	..	..	..	18	18	..	..	15
..	..	..	..	15	17	..	..	2
..	..	..	..	16	18	..	..	2
..	..	..	..	16	18	..	..	2
..	..	..	..	52	52	..	..	..
..	..	..	..	51	51	..	..	..
..	..	..	..	52	52	..	..	..
..	..	..	..	47	47	..	..	..
34	34	..	..	33	33	..	..	..
35	35	..	..	34	34	..	..	..
35	35	..	..	34	34	..	..	..
35	35	..	..	36	36	..	..	..
60	61	40	86	37	25	46	..	..
61	62	42	86	40	28	50	..	..
65	67	40	91	41	28	50	..	..
67	70	41	90	41	30	49	..	..
..	..	..	..	33	34	31	..	..
..	..	..	..	40	47	29	..	7
..	..	..	..	37	49	32	..	6
..	..	..	..	40	50	34	..	21
18	18	..	..	30	30	..	..	..
18	18	..	..	31	31	..	..	25
21	21	..	..	31	32	..	..	25
21	21	..	..	34	34	..	..	25
..	..	..	..	41	43	..	..	16
..	..	..	..	40	43	..	..	18
..	..	..	..	38	40	..	..	23
..	..	..	..	35	36	..	..	22
..	..	..	..	21	21	..	..	..
..	..	..	..	21	21	..	..	..
..	..	..	..	21	21	..	..	23
..	..	..	..	18	29	..	..	11
..	..	..	..	25	24	67	..	12
..	..	..	..	24	24	67	..	12
..	..	..	..	23	21	67	..	22
..	..	..	..	25	24	67	..	21
..	..	..	..	19	19	..	..	..
..	..	..	..	19	19	..	..	..
..	..	..	..	24	25	..	..	..
..	..	..	..	26	27	..	..	..