

# 3rd pillar Infrastructure

## 3.01 Electricity production

Electricity production (kWh) per capita | 2013 or most recent

RANK	COUNTRY/ECONOMY	VALUE	RANK	COUNTRY/ECONOMY	VALUE
1	Iceland.....	55,954.3	71	Azerbaijan.....	2,480.0
2	Norway.....	26,319.9	72	Thailand.....	2,456.7
3	Bahrain.....	19,205.2	73	Kyrgyz Republic.....	2,449.6
4	Canada.....	18,539.2	74	Albania.....	2,401.8
5	Kuwait.....	16,969.2	75	Mexico.....	2,400.8
6	Qatar.....	16,498.5	76	Panama.....	2,353.8
7	Sweden.....	15,940.1	77	Mauritius.....	2,294.5
8	United States.....	13,544.8	78	Georgia.....	2,241.7
9	Finland.....	13,100.1	79	Costa Rica.....	2,174.7
10	United Arab Emirates.....	11,750.2	80	Tajikistan.....	2,109.9
11	Australia.....	10,765.5	81	Egypt.....	1,915.4
12	Korea, Rep.....	10,710.8	82	Lao PDR <sup>1</sup> .....	1,869.3
13	Taiwan, China.....	10,646.5	83	Mongolia.....	1,755.8
14	Estonia.....	10,072.1	84	Dominican Republic.....	1,719.6
15	Bhutan.....	10,004.8	85	Tunisia.....	1,688.4
16	New Zealand.....	9,737.7	86	Algeria.....	1,568.4
17	Saudi Arabia.....	9,404.2	87	Jamaica.....	1,530.5
18	Paraguay.....	9,338.7	88	Ecuador.....	1,485.1
19	Singapore.....	8,883.5	89	Gabon.....	1,454.2
20	France.....	8,606.2	90	Lithuania.....	1,424.8
21	Switzerland.....	8,505.6	91	Peru.....	1,419.0
22	Czech Republic.....	8,194.6	92	Vietnam.....	1,416.0
23	Japan.....	8,155.2	93	Colombia.....	1,366.3
24	Germany.....	7,779.4	94	Moldova.....	1,262.0
25	Slovenia.....	7,666.7	95	Guyana <sup>1</sup> .....	1,054.8
26	Austria.....	7,611.3	96	Honduras.....	1,028.7
27	Israel.....	7,437.3	97	El Salvador.....	958.2
28	Russian Federation.....	7,369.6	98	India.....	932.8
29	Belgium.....	7,342.8	99	Zambia.....	873.5
30	Trinidad and Tobago.....	7,049.9	100	Indonesia.....	858.0
31	Oman.....	6,716.3	101	Morocco.....	834.9
32	Montenegro.....	6,350.5	102	Bolivia.....	775.3
33	Denmark.....	6,188.7	103	Philippines.....	771.4
34	Netherlands.....	6,002.9	104	Nicaragua.....	700.2
35	Spain.....	5,990.4	105	Zimbabwe.....	636.5
36	Bulgaria.....	5,928.2	106	Guatemala.....	632.2
37	Ireland.....	5,605.8	107	Cape Verde <sup>1</sup> .....	612.9
38	Kazakhstan.....	5,598.3	108	Sri Lanka.....	587.0
39	United Kingdom.....	5,557.2	109	Namibia.....	567.2
40	Serbia.....	5,475.5	110	Mozambique.....	562.8
41	Hong Kong SAR.....	5,447.7	111	Pakistan.....	539.7
42	Malta.....	5,323.9	112	Ghana.....	491.9
43	Slovak Republic.....	5,267.3	113	Botswana.....	400.2
44	Greece.....	5,179.2	114	Côte d'Ivoire.....	350.0
45	Portugal.....	4,832.4	115	Swaziland <sup>1</sup> .....	345.1
46	Italy.....	4,779.8	116	Bangladesh.....	337.5
47	South Africa.....	4,763.1	117	Cameroon.....	308.4
48	Malaysia.....	4,695.3	118	Mauritania <sup>1</sup> .....	274.0
49	Bosnia and Herzegovina.....	4,564.1	119	Senegal.....	261.0
50	Poland.....	4,311.2	120	Lesotho <sup>1</sup> .....	236.2
51	Ukraine.....	4,258.2	121	Myanmar.....	224.4
52	Chile.....	4,157.1	122	Kenya.....	203.1
53	Venezuela.....	4,067.9	123	Nigeria.....	167.6
54	Lebanon.....	4,039.9	124	Malawi <sup>1</sup> .....	138.8
55	China.....	4,005.2	125	Nepal.....	131.0
56	Cyprus.....	3,757.7	126	Gambia, The <sup>1</sup> .....	130.0
57	Seychelles <sup>1</sup> .....	3,578.6	127	Cambodia.....	117.9
58	Iran, Islamic Rep.....	3,504.4	128	Tanzania.....	111.0
59	Uruguay.....	3,422.0	129	Haiti.....	105.9
60	Luxembourg.....	3,402.9	130	Ethiopia.....	92.2
61	Argentina.....	3,271.7	131	Madagascar <sup>1</sup> .....	90.8
62	Turkey.....	3,201.6	132	Uganda <sup>1</sup> .....	86.0
63	Croatia.....	3,131.3	133	Guinea <sup>1</sup> .....	83.5
64	Latvia.....	3,085.0	134	Liberia <sup>1</sup> .....	71.6
65	Hungary.....	3,060.0	135	Mali <sup>1</sup> .....	58.9
66	Macedonia, FYR.....	2,940.3	136	Rwanda <sup>1</sup> .....	28.7
67	Romania.....	2,929.2	137	Burundi <sup>1</sup> .....	20.0
68	Brazil.....	2,792.2	138	Benin.....	16.8
69	Jordan.....	2,672.3	139	Chad <sup>1</sup> .....	16.1
70	Armenia.....	2,576.7			

**SOURCES:** Authors' calculations based on International Energy Agency (IEA), World Energy Statistics and Balances 2015, [www.iea.org/statistics/](http://www.iea.org/statistics/); The World Bank, World Development Indicators (retrieved January 4, 2016), <http://data.worldbank.org>; US Central Intelligence Agency (CIA), The World Factbook (retrieved January 5, 2016), <https://www.cia.gov/library/publications/the-world-factbook/>

<sup>1</sup> 2012

## 3.02 Mobile network coverage rate

Percentage of total population covered by a mobile network signal | 2014 or most recent

RANK	COUNTRY/ECONOMY	VALUE	RANK	COUNTRY/ECONOMY	VALUE
1	Armenia	100.0	67	Benin	99.0
1	Azerbaijan	100.0	67	Cambodia <sup>8</sup>	99.0
1	Bahrain	100.0	67	Canada	99.0
1	Bhutan	100.0	67	France	99.0
1	Bolivia	100.0	67	Germany	99.0
1	Taiwan, China	100.0	67	Hungary	99.0
1	Colombia	100.0	67	Iceland	99.0
1	Costa Rica	100.0	67	Ireland	99.0
1	Croatia	100.0	67	Jordan	99.0
1	Estonia	100.0	67	Luxembourg	99.0
1	Guatemala	100.0	67	Mauritius	99.0
1	Hong Kong SAR	100.0	67	Moldova	99.0
1	Indonesia <sup>6</sup>	100.0	67	Oman	99.0
1	Israel <sup>8</sup>	100.0	67	Philippines	99.0
1	Italy <sup>8</sup>	100.0	67	Portugal	99.0
1	Kuwait <sup>5</sup>	100.0	67	Tunisia	99.0
1	Lithuania	100.0	87	Latvia <sup>8</sup>	98.8
1	Malta	100.0	88	Dominican Republic	98.5
1	Namibia	100.0	89	Cape Verde	98.4
1	Netherlands	100.0	90	Botswana	98.0
1	Nicaragua <sup>4</sup>	100.0	90	Seychelles	98.0
1	Norway	100.0	90	Sri Lanka <sup>8</sup>	98.0
1	Peru	100.0	90	Turkey	98.0
1	Qatar	100.0	94	Côte d'Ivoire	97.9
1	Singapore	100.0	95	Kyrgyz Republic	97.7
1	Slovak Republic	100.0	96	Guyana <sup>8</sup>	97.1
1	Switzerland	100.0	97	New Zealand	97.0
1	Trinidad and Tobago	100.0	97	Thailand	97.0
1	Uganda <sup>7</sup>	100.0	99	Ecuador	96.9
1	United Arab Emirates	100.0	100	Swaziland <sup>7</sup>	96.8
1	Uruguay <sup>8</sup>	100.0	101	Lao PDR	96.0
32	Bulgaria	100.0	101	Panama	96.0
32	Finland	100.0	103	Malaysia	95.4
32	Sweden	100.0	104	Chile <sup>7</sup>	95.0
35	Brazil <sup>8</sup>	100.0	104	Jamaica <sup>2</sup>	95.0
35	Cyprus	100.0	104	Russian Federation <sup>1</sup>	95.0
37	Belgium	99.9	104	Tanzania	95.0
37	Greece	99.9	108	Iran, Islamic Rep.	94.2
37	Japan <sup>8</sup>	99.9	109	Argentina <sup>2</sup>	94.1
37	Korea, Rep.	99.9	110	Gambia, The	94.0
37	Macedonia, FYR <sup>5</sup>	99.9	111	India <sup>8</sup>	93.5
37	Mexico <sup>8</sup>	99.9	112	Lesotho	92.7
37	Poland	99.9	113	Madagascar <sup>8</sup>	92.2
37	Romania	99.9	114	Senegal	91.6
37	Rwanda	99.9	115	Mongolia <sup>7</sup>	91.3
37	South Africa	99.9	116	Ethiopia	90.0
37	Ukraine	99.9	116	Venezuela <sup>2</sup>	90.0
37	United States	99.9	118	Honduras <sup>2</sup>	89.9
49	Albania	99.8	119	Kenya	89.1
49	Bosnia and Herzegovina	99.8	120	Zimbabwe	88.0
49	Czech Republic	99.8	121	El Salvador	87.6
49	Egypt	99.8	122	Ghana <sup>7</sup>	87.0
49	Spain	99.8	123	Kazakhstan	86.6
54	Serbia	99.8	124	Chad	86.0
55	Paraguay <sup>8</sup>	99.7	125	Pakistan	81.5
55	Slovenia	99.7	126	Guinea <sup>3</sup>	80.0
55	United Kingdom	99.7	126	Nepal	80.0
58	Malawi	99.6	128	Zambia	78.0
59	Denmark	99.5	129	Myanmar	73.0
59	Montenegro	99.5	130	Mozambique	72.0
61	China <sup>8</sup>	99.5	131	Vietnam <sup>1</sup>	70.0
62	Saudi Arabia	99.4	132	Haiti	63.3
63	Nigeria	99.4	133	Mauritania <sup>3</sup>	62.0
64	Morocco	99.2	134	Liberia <sup>8</sup>	60.0
65	Lebanon <sup>7</sup>	99.1	135	Cameroon <sup>1</sup>	58.0
66	Georgia <sup>6</sup>	99.1	136	Burundi	30.0
67	Algeria	99.0	137	Mali <sup>1</sup>	20.0
67	Australia	99.0	138	Gabon	1.9
67	Austria	99.0	n/a	Tajikistan	n/a
67	Bangladesh	99.0			

SOURCE: International Telecommunication Union (ITU), *ITU World Telecommunication/ICT Indicators Database 2015* (December 2015 edition), <http://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>

<sup>1</sup> 2006 <sup>2</sup> 2007 <sup>3</sup> 2008 <sup>4</sup> 2009 <sup>5</sup> 2010 <sup>6</sup> 2011 <sup>7</sup> 2012 <sup>8</sup> 2013

### 3.03 International Internet bandwidth

International Internet bandwidth (kb/s) per Internet user | 2014 or most recent

RANK	COUNTRY/ECONOMY	VALUE	RANK	COUNTRY/ECONOMY	VALUE
1	Luxembourg	6,887.7	71	Mauritius	33.0
2	Hong Kong SAR	3,721.8	72	Algeria	32.9
3	Malta	1,178.8	73	Azerbaijan	32.2
4	Singapore	616.5	74	Albania	32.1
5	Sweden	627.4	75	Russian Federation	29.9
6	Iceland	519.9	76	Seychelles	28.9
7	United Kingdom	429.8	77	Myanmar	28.7
8	Switzerland	352.2	78	Estonia	28.7
9	Denmark	341.7	79	Philippines	27.7
10	Netherlands	281.1	80	Guatemala	27.5
11	Belgium	263.9	81	Malaysia	27.2
12	France	221.7	82	Tunisia	26.0
13	Portugal	218.9	83	Kenya	25.2
14	Finland	218.7	84	Dominican Republic	24.9
15	Norway	203.9	85	Lebanon	24.0
16	Ireland	161.0	86	Nicaragua	23.0
17	Moldova	152.4	87	Honduras	21.8
18	South Africa	149.5	88	Mexico	20.9
19	Germany	146.0	89	Vietnam	20.7
20	Bulgaria	135.1	90	Gabon	19.7
21	Canada	129.2	91	Botswana	16.4
22	Lithuania	125.5	92	Cambodia	16.3
23	Slovenia	121.1	93	Bolivia	15.5
24	Romania	117.3	94	Venezuela	14.4
25	Czech Republic	116.8	95	Jamaica	14.2
26	Serbia	112.4	96	Sri Lanka	12.7
27	Spain	111.5	97	Paraguay	12.6
28	Greece	99.5	98	Cape Verde	12.3
29	Israel	98.4	99	Slovak Republic	11.5
30	New Zealand	95.1	100	Gambia, The	10.9
31	Latvia	93.7	101	Morocco	10.8
32	Italy	92.5	102	Guyana	10.0
33	Poland	90.4	103	Egypt	9.3
34	Mongolia	90.0	104	Mozambique	9.2
35	United Arab Emirates	79.6	105	Rwanda	8.9
36	Austria	79.6	106	Senegal	8.3
37	Montenegro	77.0	107	Kyrgyz Republic	8.2
38	Australia	75.1	108	Jordan	7.9
39	Cyprus	75.1	109	Burundi	6.9
40	Chile	73.1	110	Bangladesh	6.6
41	Panama	72.7	111	Liberia	6.3
42	United States	71.0	112	Indonesia	6.2
43	Georgia	71.0	113	Tanzania	6.1
44	Qatar	67.5	114	Iran, Islamic Rep.	6.1
45	Uruguay	60.7	115	Pakistan	5.7
46	Taiwan, China	60.4	116	India	5.7
47	Croatia	58.0	117	Côte d'Ivoire	5.2
48	Thailand	54.8	118	Ethiopia	5.0
49	Kazakhstan	51.5	119	China	5.0
50	El Salvador	50.3	120	Lesotho	4.3
51	Kuwait	50.1	121	Malawi	4.2
52	Bahrain	49.1	122	Zambia	4.2
53	Trinidad and Tobago	48.9	123	Uganda	4.0
54	Japan	48.6	124	Tajikistan	3.9
55	Costa Rica	48.2	125	Zimbabwe	3.9
56	Argentina	48.1	126	Ghana	3.6
57	Korea, Rep.	45.2	127	Nigeria	3.1
58	Armenia	44.5	128	Nepal	3.1
59	Bosnia and Herzegovina	43.0	129	Lao PDR	2.8
60	Brazil	43.0	130	Benin	2.8
61	Turkey	42.9	131	Bhutan	2.5
62	Macedonia, FYR	41.8	132	Guinea	2.4
63	Ukraine	40.7	133	Mali	1.9
64	Hungary	37.0	134	Cameroon	1.8
65	Ecuador	36.9	135	Swaziland	1.7
66	Peru	36.4	136	Mauritania	1.5
67	Colombia	35.0	137	Chad	0.7
68	Namibia	34.5	138	Madagascar	0.3
69	Saudi Arabia	34.0	139	Haiti <sup>1</sup>	0.1
70	Oman	33.7			

SOURCE: International Telecommunication Union (ITU), *ITU World Telecommunication/ICT Indicators Database 2015* (December 2015 edition), <http://www.itu.int/en/ITU-D/Statistics/Pages/publications/wtid.aspx>

<sup>1</sup> 2010

## 3.04 Secure Internet servers

Secure Internet servers per million population | 2014

RANK	COUNTRY/ECONOMY	VALUE	RANK	COUNTRY/ECONOMY	VALUE
1	Iceland	3,214.4	71	Georgia	37.1
2	Switzerland	2,820.4	72	Bosnia and Herzegovina	35.9
3	Luxembourg	2,645.3	73	Ecuador	34.5
4	Netherlands	2,635.1	74	Mexico	34.1
5	Korea, Rep.	2,178.3	75	Jordan	30.4
6	Denmark	2,080.8	76	Mongolia	28.5
7	Norway	1,942.0	77	Dominican Republic	28.3
8	Finland	1,791.3	78	Peru	28.1
9	Taiwan, China	1,752.0	79	Paraguay	24.1
10	Malta	1,691.6	80	Albania	23.8
11	Sweden	1,602.2	81	Thailand	23.3
12	United States	1,548.2	82	Namibia	22.5
13	Germany	1,420.0	83	El Salvador	22.1
14	Australia	1,348.6	84	Tunisia	17.9
15	United Kingdom	1,291.2	85	Guatemala	17.5
16	Austria	1,267.7	86	Kazakhstan	14.5
17	New Zealand	1,211.2	87	Bhutan	14.4
18	Canada	1,210.0	88	Azerbaijan	13.5
19	Estonia	927.2	89	Bolivia	12.9
20	Japan	911.7	90	Venezuela	12.2
21	Belgium	854.2	91	Vietnam	11.9
22	Singapore	822.3	92	Sri Lanka	11.4
23	Hong Kong SAR	790.6	93	Honduras	11.4
24	Ireland	775.0	94	Nicaragua	11.3
25	Czech Republic	691.6	95	Botswana	11.3
26	France	683.4	96	Philippines	10.9
27	Slovenia	648.3	97	Gabon	10.7
28	Cyprus	606.8	98	Guyana	10.5
29	Seychelles	469.8	99	Swaziland	10.2
30	Poland	429.7	100	Kyrgyz Republic	9.1
31	Latvia	360.7	101	Kenya	7.8
32	Slovak Republic	321.3	102	China	7.0
33	Spain	316.8	103	Indonesia	6.2
34	Hungary	300.8	104	Gambia, The	5.7
35	United Arab Emirates	294.4	105	India	5.5
36	Portugal	262.9	106	Morocco	4.9
37	Israel	254.3	107	Egypt	4.8
38	Italy	249.2	108	Zimbabwe	4.5
39	Qatar	231.6	109	Rwanda	3.9
40	Croatia	219.5	110	Ghana	3.7
41	Lithuania	206.9	111	Senegal	3.5
42	Kuwait	198.8	112	Zambia	3.4
43	Bahrain	177.0	113	Cambodia	3.0
44	Bulgaria	176.7	114	Nepal	3.0
45	Mauritius	154.6	115	Côte d'Ivoire	2.6
46	Greece	147.4	116	Mauritania	2.5
47	Chile	127.6	117	Liberia	2.5
48	Romania	125.1	118	Nigeria	2.3
49	Panama	116.6	119	Benin	2.2
50	South Africa	115.6	120	Iran, Islamic Rep.	2.1
51	Trinidad and Tobago	111.5	121	Lao PDR	2.1
52	Costa Rica	99.4	122	Algeria	2.0
53	Uruguay	95.3	123	Pakistan	1.8
54	Malaysia	88.5	124	Mozambique	1.8
55	Russian Federation	84.4	125	Haiti	1.7
56	Oman	79.3	126	Cameroon	1.7
57	Macedonia, FYR	76.6	127	Uganda	1.6
58	Brazil	68.6	128	Tanzania	1.5
59	Turkey	57.3	129	Tajikistan	1.4
60	Jamaica	57.0	130	Lesotho	1.4
61	Montenegro	56.3	131	Mali	1.3
62	Lebanon	54.5	132	Malawi	1.1
63	Argentina	52.7	133	Madagascar	0.9
64	Cape Verde	50.6	134	Bangladesh	0.9
65	Moldova	48.4	135	Burundi	0.6
66	Colombia	47.1	136	Myanmar	0.5
67	Saudi Arabia	45.9	137	Guinea	0.3
68	Ukraine	45.5	138	Ethiopia	0.2
69	Serbia	43.8	139	Chad	0.1
70	Armenia	40.9			

SOURCES: The World Bank, World Development Indicators (retrieved January 4, 2016), <http://data.worldbank.org>; national sources

