Table 1: 64 Countries/Territories That Generated 50-100% of Their Grid Electricity Supply, 14 That Generated 95-100% of Their Supply, and 10 That Generated 100-257% of Their Demand With Wind-Water-Solar (WWS) in 2025

Table 2: 13 U.S. States That Generated 51% to 127% of Their Grid + Behind-the-Meter Electricity Demand With WWS From Q3 2025-Q2 2026

By Mark Z. Jacobson, August 27, 2026

Table 1. (a) 2025 population by country. (b) grid electricity generation by country. (c) percentage of total electricity generated within a country that is generated by a WWS technology (hydropower, wind, geothermal + marine, or utility-scale solar). (d) grid electricity demand by country. (e) percentage of grid demand met by WWS supplied within the country. Energy data are for 2025, except for the countries footnoted.

		(a)	(b)	(c) Percentage of All Electricity Generated by WWS Technology					(d)	(e)
		2025 Pop (mil.)	Electricity generation (GWh/y)	Hydro-power (%)	Wind (%)	Geothermal + marine (%)	Utility PV+ CSP (%)	Total WWS as % of supply	Electricity demand (GWh/y)	Total WWS as % of demand
1	Albania	2.77	7,110	94.37	0.00	0.00	5.63	**100.00**	7,990	88.99
2	Bhutan[1]	0.797	11,000	100.00	0.00	0.00	0.00	**100.00**	12,500	88.00
3	Nepal[1]	29.6	11,130	98.83	0.09	0.00	1.08	**100.00**	11,000	**101.18**
4	Iceland	0.398	19,050	70.66	0.05	29.24	0.05	**100.00**	19,100	99.74
5	Lesotho[2]	2.363	481	99.90	0.00	0.00	0.10	**100.00**	480	**100.15**
6	Ethiopia	135	33,370	96.46	3.30	0.12	0.09	**99.97**	31,000	**107.61**
7	Congo, Dem. Rep.[1]	113	15,920	84.17	0.00	0.00	15.77	**99.94**	17,400	91.44
8	Paraguay	7.01	45,350	99.47	0.00	0.00	0.00	**99.47**	29,600	**152.40**
9	Costa Rica	5.15	12,820	74.73	12.09	11.93	0.70	**99.45**	12,400	**102.82**
10	Norway	5.62	160,840	90.01	8.44	0.06	0.33	**98.85**	138,000	**115.21**
11	S. Georgia/S. SW Is.[2]	.00003	0.77	97.40	1.30	0.00	0.00	**98.70**	0.77	98.70
12	Namibia[1]	3.09	1,640	60.98	1.22	0.00	35.37	**97.56**	4,040	39.60
13	Central African Rep.[2]	5.51	202	69.25	0.00	0.00	28.18	**97.43**	140	**140.29**
14	Sierra Leone[1]	8.82	210	85.71	0.00	0.00	9.52	**95.24**	210	95.24
15	Tajikistan	10.8	23,940	94.19	0.00	0.00	0.00	**94.19**	18,700	**120.59**
16	Tokelau[2]	0.0026	1.78	0.00	2.25	0.00	91.57	**93.82**	1.78	93.82
17	Malawi[1]	22.2	1,830	92.35	0.00	0.00	0.55	**92.90**	1,810	93.92
18	Venezuela[1]	28.5	80,130	91.10	0.02	0.00	0.01	**91.14**	80,100	91.17
19	Uganda[1]	51.3	5,810	86.06	0.00	0.00	2.93	**88.98**	5,330	97.00
20	Kenya	57.5	14,040	20.94	16.38	45.94	4.63	**87.89**	15,600	79.10
21	New Zealand	5.25	43,340	54.85	9.74	21.78	0.85	**87.22**	43,300	87.30
22	Zambia[1]	21.9	19,720	86.21	0.00	0.00	0.86	**87.07**	16,600	**103.43**

23	Afghanistan[1]	43.8	990	75.76	0.00	0.00	11.11	**86.87**	7,190	11.96
24	Kyrgyzstan	7.3	15,700	85.16	0.00	0.00	0.00	**85.16**	19,200	69.64
25	Mozambique[1]	35.6	19,790	82.36	0.00	0.00	0.40	**82.77**	16,500	99.27
26	Georgia	3.81	13,500	78.81	0.59	0.00	0.22	**79.63**	14,700	73.13
27	Brazil	213	750,530	51.78	15.67	0.00	11.81	**79.26**	762,000	78.06
28	Sudan[1]	51.7	14,770	77.86	0.00	0.00	1.08	**78.94**	15,600	74.74
29	Ecuador	18.3	36,600	77.90	0.52	0.00	0.11	**78.52**	36,600	78.52
30	Greenland[1]	0.056	600	78.33	0.00	0.00	0.00	**78.33**	600	78.33
31	Austria	9.11	73,280	51.76	11.34	0.00	14.07	**77.17**	77,400	73.06
32	Lao, PDR[1]	7.87	52,310	76.47	0.00	0.00	0.17	**76.64**	15,600	**256.99**
33	Montenegro	0.633	2,460	58.54	11.38	0.00	5.69	**75.61**	3,490	53.30
34	Guinea[1]	15.1	4,030	74.44	0.00	0.00	0.74	**75.19**	4,030	75.19
35	El Salvador	6.37	6,460	30.34	3.10	20.74	20.28	**74.46**	6,270	76.71
36	Colombia	53.4	90,360	69.17	0.17	0.00	5.09	**74.42**	91,600	73.42
37	Portugal	10.4	51,140	29.72	26.75	0.39	17.32	**74.19**	60,440	62.77
38	Burundi[1]	14.4	490	73.47	0.00	0.00	0.00	**73.47**	570	63.16
39	Angola[1]	39	15,590	70.56	0.00	0.00	2.82	**73.38**	15,600	73.33
40	Uruguay	3.38	11,940	27.22	40.62	0.00	5.11	**72.95**	14,800	58.85
41	Cameroon[1]	29.9	7,260	72.04	0.00	0.00	0.55	**72.59**	7,320	71.99
42	Denmark	6	34,530	0.06	58.73	0.00	13.35	**72.14**	41,900	59.45
43	Croatia	3.85	14,700	39.32	21.36	0.00	8.78	**69.46**	20,000	51.05
44	Panama[1]	4.57	13,430	53.09	7.15	0.00	7.37	**67.61**	13,300	68.27
45	Lithuania	2.83	8,880	3.94	44.82	0.00	18.81	**67.57**	12,500	48.00
46	Switzerland	8.97	65,020	52.28	0.22	1.60	12.13	**66.23**	65,100	66.14
47	Sweden	10.7	170,280	40.08	22.84	0.00	2.60	**65.52**	137,000	81.44
48	Luxembourg	0.68	1,540	3.25	30.52	0.00	30.52	**64.29**	6,470	15.30
49	Latvia	1.85	6,330	46.92	3.63	0.00	12.95	**63.51**	7,730	52.01
50	Korea, North[1]	26.6	27,100	62.73	0.00	0.00	0.63	**63.36**	26,700	64.31
51	Peru	34.6	60,440	56.06	3.49	0.00	3.03	**62.57**	60,500	62.51
52	Eswatini[1]	2.26	610	57.38	0.00	0.00	4.92	**62.30**	1,650	23.03
53	Canada	40.1	652,430	52.84	7.89	0.00	1.56	**62.29**	646,000	62.91
54	Chile	19.7	88,500	22.24	13.08	0.31	25.06	**60.69**	88,500	60.69
55	Sri Lanka	23.2	17,250	38.20	5.39	0.23	16.46	**60.29**	17,300	60.12
56	French Guiana[2]	0.31	980	53.06	0.00	0.00	6.12	**59.18**	980	59.18
57	Zimbabwe[1]	17	10,260	55.56	0.00	0.00	0.39	**55.95**	12,100	47.44
58	Liberia[1]	5.73	570	52.63	0.00	0.00	1.75	**54.39**	570	54.39
59	Spain	47.9	287,970	11.38	20.40	0.00	21.85	**53.63**	275,000	56.16
60	Belize[1]	0.42	470	51.06	0.00	0.00	2.13	**53.19**	850	29.41
61	Fiji[1]	0.93	1,150	52.17	0.00	0.00	0.87	**53.04**	1,150	53.04
62	North Macedonia	1.81	7,100	17.46	4.23	0.00	31.13	**52.82**	8,480	44.22
63	Suriname[1]	0.64	1,740	51.72	0.00	0.00	0.57	**52.30**	1,740	52.30
64	Cook Islands[1]	0.013	40	0.00	0.00	0.00	50.00	**50.00**	40	50.00
65	Rwanda[1]	14.6	1,130	46.02	0.00	0.00	3.54	**49.56**	1,220	45.90
66	Germany	84.1	500,470	3.91	27.18	0.00	17.91	**49.00**	520,000	47.16
67	Honduras[1]	11	12,480	30.45	6.01	2.80	9.46	**48.72**	12,600	48.25
68	Myanmar[1]	54.9	21,710	46.06	0.00	0.00	0.55	**46.61**	21,900	46.21
69	Greece	9.94	57,920	5.90	20.86	0.00	19.79	**46.55**	55,400	48.66
70	Pakistan	255	177,120	23.28	2.52	0.00	20.67	**46.47**	178,000	46.24
71	Guatemala[1]	18.7	15,790	39.90	2.34	2.15	1.77	**46.17**	16,400	44.45

72	Netherlands	18.3	134,960	0.04	24.97	0.00	21.12	**46.12**	121,000	51.45
73	Romania	18.9	49,780	24.27	11.99	0.00	9.78	**46.04**	53,600	42.76
74	Viet Nam	102	309,990	33.02	4.64	0.00	7.43	**45.09**	314,000	44.51
75	Ireland	5.31	30,950	2.10	38.00	0.00	4.81	**44.91**	37,600	36.97
76	Finland	5.62	82,300	15.12	27.44	0.16	1.19	**43.90**	87,900	41.10
77	Lebanon[1]	5.85	5,340	13.11	0.19	0.00	29.96	**43.26**	5,340	43.26
78	Bosnia & Herzegovina	3.14	14,520	36.43	2.55	0.00	4.06	**43.04**	12,200	51.23
79	Italy	59.1	264,940	15.74	8.11	2.15	16.85	**42.84**	312,000	36.38
80	Nicaragua[1]	7.01	4,520	14.38	12.39	15.27	0.66	**42.70**	5,420	35.61
81	Madagascar[1]	32.7	2,430	37.04	0.00	0.00	4.12	**41.15**	2,480	40.32
82	Faroe Islands	0.056	560	23.21	17.86	0.00	0.00	**41.07**	560	41.07
83	Türkiye	87.7	353,860	16.18	11.14	3.01	10.53	**40.86**	351,930	41.08
84	Cambodia	17.8	17,760	29.90	0.00	0.00	10.64	**40.54**	22,400	32.14
85	Palestinian Territory[1]	5.59	990	0.00	0.00	0.00	39.39	**39.39**	7,990	4.88
86	Estonia	1.34	6,190	0.48	18.58	0.00	19.71	**38.77**	8,900	26.97
87	United Kingdom	69.6	292,310	1.90	29.37	0.00	6.61	**37.87**	321,000	34.49
88	Slovenia	2.12	14,880	27.28	0.07	0.00	10.35	**37.70**	14,400	38.96
89	Australia	27	286,700	4.26	13.70	0.00	19.68	**37.65**	287,000	37.61
90	Samoa[1]	0.22	160	18.75	0.00	0.00	18.75	**37.50**	160	37.50
91	Belgium	11.8	66,880	0.73	20.02	0.00	15.64	**36.39**	80,300	30.31
92	Ghana[1]	35.1	24,270	35.43	0.00	0.00	0.70	**36.14**	21,800	40.23
93	China	1,416	10,577,710	13.19	10.73	0.00	11.11	**35.03**	10,558,000	35.09
94	Gabon[1]	2.59	2,600	35.00	0.00	0.00	0.00	**35.00**	3,180	28.62
95	Djibouti[1]	1.18	200	0.00	35.00	0.00	0.00	**35.00**	710	9.86
96	French Polynesia[1]	0.28	720	26.39	0.00	0.00	8.33	**34.72**	720	34.72
97	Bolivia	28.5	13,630	27.88	2.05	0.00	2.93	**32.87**	13,600	32.94
98	Argentina	45.9	153,130	17.14	12.16	0.00	3.36	**32.66**	162,000	30.87
99	Tanzania[1]	70.5	8,840	31.67	0.00	0.00	0.45	**32.13**	9,030	31.45
100	Nigeria	238	41,540	30.86	0.00	0.00	0.31	**31.17**	39,200	33.04
101	Cabo Verde[1]	0.53	520	0.00	15.38	0.00	15.38	**30.77**	520	30.77
102	Armenia	2.95	8,620	22.04	0.00	0.00	8.47	**30.51**	7,030	37.41
103	Togo[1]	9.72	710	11.27	0.00	0.00	18.31	**29.58**	2,210	9.50
104	Hungary	9.63	40,240	0.57	1.49	0.02	27.29	**29.37**	49,200	24.02
105	Bulgaria	6.71	37,980	6.66	3.48	0.00	18.19	**28.33**	36,700	29.32
106	Côte d'Ivoire[1]	32.7	10,790	27.80	0.00	0.00	0.19	**27.99**	10,100	29.90
107	Moldova	3	2,900	12.07	7.93	0.00	7.93	**27.93**	5,520	14.67
108	New Caledonia[1]	0.3	3,120	17.31	1.28	0.00	8.33	**26.92**	3,120	26.92
109	Equatorial Guinea[1]	1.94	1,490	26.85	0.00	0.00	0.00	**26.85**	1,490	26.85
110	Cyprus	1.37	5,910	0.00	3.55	0.00	23.18	**26.73**	5,910	26.73
111	Serbia	6.69	36,670	22.25	4.01	0.00	0.44	**26.70**	38,000	25.76
112	Poland	38.1	172,580	0.99	13.90	0.13	11.33	**26.34**	174,000	26.13
113	Kiribati[1]	0.14	40	0.00	0.00	0.00	25.00	**25.00**	40	25.00
114	Vanuatu[2]	0.34	80	12.50	0.00	0.00	12.50	**25.00**	80	25.00
115	United States	347	4,519,790	5.35	10.27	0.39	8.60	**24.62**	4,536,000	24.53
116	France	66.7	570,140	10.42	8.15	0.10	5.61	**24.28**	477,000	29.03
117	Jordan[1]	11.5	23,670	0.08	7.39	0.00	16.60	**24.08**	23,700	24.05
118	Papua New Guinea[1]	10.8	4,730	21.14	0.00	2.11	0.21	**23.47**	4,730	23.47
119	Morocco	38.4	44,150	2.08	15.27	0.00	5.84	**23.19**	47,900	21.38
120	India	1,464	2,081,600	8.55	5.00	0.00	9.42	**22.96**	2,083,000	22.94

121	Dominican Republic	11.5	22,680	6.75	6.26	0.00	9.92	**22.93**	22,700	22.91
122	Mauritania[1]	5.32	2,070	10.14	4.83	0.00	7.73	**22.71**	2,370	19.83
123	Philippines	117	123,120	10.32	1.19	8.20	2.44	**22.13**	123,000	22.15
124	Mexico	132	356,970	8.05	5.99	0.00	7.38	**21.42**	357,000	21.42
125	Somalia[1]	19.7	430	0.00	2.33	0.00	18.60	**20.93**	430	20.93
126	Congo[1]	6.48	5,460	20.15	0.00	0.00	0.18	**20.33**	5,380	20.63
127	Nauru[1]	0.012	50	0.00	0.00	0.00	20.00	**20.00**	50	20.00
128	Malaysia	36	201,090	17.52	0.00	0.00	2.24	**19.77**	200,000	19.88
129	Guadeloupe[2]	0.374	1,670	0.60	5.99	6.59	6.59	**19.76**	1,670	19.76
130	Uzbekistan	37.1	86,700	7.27	4.61	0.00	7.50	**19.38**	89,600	18.75
131	Haiti[1]	11.9	860	18.60	0.00	0.00	0.00	**18.60**	860	18.60
132	Senegal[1]	18.9	7,630	4.06	5.37	0.00	8.91	**18.35**	8,130	17.22
133	Mali[1]	25.2	5,960	15.44	0.00	0.00	2.85	**18.29**	5,460	19.96
134	Japan	123	1,029,970	7.17	1.25	0.00	9.81	**18.23**	1,030,000	18.23
135	Russia	144	1,192,790	16.74	0.31	0.00	0.24	**17.29**	1,176,110	17.53
136	Aruba[1]	0.11	1,000	0.00	14.00	0.00	3.00	**17.00**	1,000	17.00
137	Israel	9.52	82,100	0.00	0.56	0.00	16.18	**16.74**	75,700	18.15
138	Seychelles[1]	0.13	630	0.00	1.59	0.00	14.29	**15.87**	630	15.87
139	Malta	0.55	2,190	0.00	0.00	0.00	15.53	**15.53**	3,220	10.56
140	Ukraine[2]	39	96,261	8.52	1.15	0.00	5.28	**14.95**	96,260	14.95
141	Kazakhstan	20.8	123,690	8.50	4.71	0.00	1.65	**14.86**	126,000	14.59
142	Tonga[1]	0.1	70	0.00	0.00	0.00	14.29	**14.29**	70	14.29
143	South Africa	64.7	242,760	0.75	4.66	0.00	8.02	**13.44**	237,000	13.77
144	Dominica[2]	0.066	150	13.33	0.00	0.00	0.00	**13.33**	150	13.33
145	St. Vincent & Gren.[1]	0.1	150	13.33	0.00	0.00	0.00	**13.33**	150	13.33
146	Slovakia	5.47	29,090	10.86	0.00	0.03	2.41	**13.30**	26,700	14.49
147	Egypt	118	245,710	6.13	3.78	0.00	3.10	**13.02**	244,000	13.11
148	Indonesia[1]	286	371,540	7.35	0.13	4.51	0.36	**12.35**	373,000	12.30
149	Burkina Faso[1]	24.1	1,690	5.33	0.00	0.00	6.51	**11.83**	3,190	6.27
150	Taiwan	23.1	288,880	1.91	4.15	0.00	5.59	**11.66**	289,000	11.65
151	Jamaica[1]	2.84	4,920	2.44	5.89	0.00	3.05	**11.38**	4,920	11.38
152	Yemen[1]	41.8	5,250	0.00	0.00	0.00	11.24	**11.24**	5,250	11.24
153	Thailand	71.6	188,240	4.05	1.81	0.00	5.30	**11.16**	225,000	9.34
154	Eritrea[1]	3.61	450	0.00	0.00	0.00	11.11	**11.11**	450	11.11
155	Sao Tome & Princ.[2]	0.24	90	11.11	0.00	0.00	0.00	**11.11**	90	11.11
156	Kosovo	1.67	5,870	4.09	6.64	0.00	0.17	**10.90**	7,420	8.63
157	Martinique[2]	0.34	1,510	0.00	1.99	0.66	7.28	**9.93**	1,510	9.93
158	Azerbaijan	10.4	27,460	9.21	0.33	0.00	0.00	**9.54**	26,400	9.92
159	Solomon Islands[1]	0.83	110	0.00	0.00	0.00	9.09	**9.09**	110	9.09
160	Barbados[1]	0.28	1,110	0.00	0.00	0.00	9.01	**9.01**	1,110	9.01
161	Czechia	10.6	75,500	2.26	0.75	0.00	5.81	**8.83**	68,100	9.79
162	St. Kitts & Nevis[1]	0.047	230	0.00	4.35	0.00	4.35	**8.70**	230	8.70
163	United Arab Emirites[1]	11.3	177,260	0.00	0.11	0.00	8.58	**8.69**	177,000	8.71
164	Guam[1]	0.17	1,860	0.00	0.00	0.00	8.60	**8.60**	1,860	8.60
165	Mauritius[1]	1.27	3,410	3.23	0.29	0.00	4.99	**8.50**	3,410	8.50
166	Mongolia[1]	3.52	9,690	0.62	5.57	0.00	2.17	**8.36**	12,400	6.53
167	Antigua & Barbuda[1]	0.094	370	0.00	0.00	0.00	8.11	**8.11**	370	8.11
168	Korea, South	51.7	624,660	0.61	0.58	0.00	6.05	**7.24**	625,000	7.24
169	Maldives[1]	0.53	850	0.00	0.00	0.00	7.06	**7.06**	850	7.06

170	Puerto Rico	3.24	19,580	0.05	1.17	0.00	4.85	**6.08**	19,600	6.07
171	American Samoa[1]	0.046	180	0.00	0.00	0.00	5.56	**5.56**	180	5.56
172	Oman	5.49	52,840	0.00	0.19	0.00	4.35	**4.54**	52,800	4.55
173	Cayman Islands[1]	0.076	710	0.00	0.00	0.00	4.23	**4.23**	710	4.23
174	Tunisia	12.3	22,310	0.04	1.48	0.00	2.51	**4.03**	24,900	3.61
175	Benin[1]	14.8	1,010	0.00	0.00	0.00	3.96	**3.96**	2,310	1.73
176	Iran	92.4	395,780	3.29	0.32	0.00	0.23	**3.84**	396,000	3.83
177	Qatar	3.11	56,180	0.00	0.00	0.00	3.83	**3.83**	56,200	3.83
178	Turks & Caicos Is.[1]	0.047	270	0.00	0.00	0.00	3.70	**3.70**	270	3.70
179	Syria[1]	25.6	24,880	3.01	0.00	0.00	0.40	**3.42**	24,300	3.50
180	Niger[1]	27.9	950	0.00	0.00	0.00	3.16	**3.16**	2,150	1.40
181	Virgin Islands, U.S. [2]	0.084	680	0.00	0.00	0.00	2.94	**2.94**	680	2.94
182	Singapore	5.87	60,150	0.00	0.00	0.00	2.73	**2.73**	60,400	2.72
183	Chad[1]	21	370	0.00	2.70	0.00	0.00	**2.70**	370	2.70
184	Belarus	9	45,820	1.77	0.89	0.00	0.00	**2.66**	44,900	2.72
185	St. Lucia[1]	0.18	400	0.00	0.00	0.00	2.50	**2.50**	400	2.50
186	Kuwait	5.03	92,490	0.00	2.01	0.00	0.23	**2.24**	92,500	2.24
187	Cuba[1]	10.9	19,430	0.62	0.36	0.00	1.24	**2.21**	19,400	2.22
188	Saudi Arabia[1]	34.6	454,640	0.00	0.35	0.00	1.81	**2.16**	455,000	2.16
189	Bangladesh	176	103,400	0.63	0.00	0.00	1.51	**2.14**	118,000	1.87
190	South Sudan[1]	12.2	560	0.00	0.00	0.00	1.79	**1.79**	560	1.79
191	Iraq[1]	47	149,730	1.34	0.00	0.00	0.29	**1.62**	157,000	1.55
192	Guyana[1]	0.84	1,380	0.00	0.00	0.00	1.45	**1.45**	1,380	1.45
193	Algeria[1]	47.4	96,360	0.02	0.02	0.00	1.03	**1.07**	93,800	1.10
194	Bahamas[1]	0.4	2,250	0.00	0.00	0.00	0.89	**0.89**	2,250	0.89
195	Hong Kong[1]	7.4	37,440	0.00	0.00	0.00	0.61	**0.61**	48,800	0.47
196	Botswana[1]	2.56	3,430	0.00	0.00	0.00	0.29	**0.29**	4,670	0.21
197	Bahrain[1]	1.64	37,950	0.00	0.00	0.00	0.26	**0.26**	38,400	0.26
198	Brunei Darussalam[1]	0.47	5,560	0.00	0.00	0.00	0.18	**0.18**	5,560	0.18
199	Trinidad & Tobago[1]	1.51	9,550	0.00	0.00	0.00	0.10	**0.10**	9,550	0.10
200	Turkmenistan[1]	7.62	33,010	0.03	0.00	0.00	0.00	**0.03**	24,000	0.04
201	Libya[1]	7.46	34,590	0.00	0.00	0.00	0.03	**0.03**	34,600	0.03
202	Bermuda[2]	0.065	640	0.00	0.00	0.00	0.00	**0.00**	640	0.00
203	Comoros[2]	0.88	140	0.00	0.00	0.00	0.00	**0.00**	140	0.00
204	Gambia[1]	2.82	510	0.00	0.00	0.00	0.00	**0.00**	510	0.00
205	Gibraltar[2]	0.04	220	0.00	0.00	0.00	0.00	**0.00**	220	0.00
206	Grenada[1]	0.12	240	0.00	0.00	0.00	0.00	**0.00**	240	0.00
207	Guinea-Bissau[1]	2.25	80	0.00	0.00	0.00	0.00	**0.00**	80	0.00
208	Macau[1]	0.72	780	0.00	0.00	0.00	0.00	**0.00**	6,280	0.00
209	Montserrat[1]	0.004	10	0.00	0.00	0.00	0.00	**0.00**	10	0.00
210	St. Helena[2]	0.005	10	0.00	0.00	0.00	0.00	**0.00**	10	0.00
211	Timor-Leste[1]	1.42	510	0.00	0.00	0.00	0.00	**0.00**	510	0.00
212	Falkland Islands[2]	0.0035	10	0.00	0.00	0.00	0.00	**0.00**	10	0.00
213	St. Pierre & Miquelon[2]	0.0056	50	0.00	0.00	0.00	0.00	**0.00**	50	0.00
214	Virgin Islands, British[2]	0.04	170	0.00	0.00	0.00	0.00	**0.00**	170	0.00
	World	8,246	31,737,750	13.97	8.54	0.28	8.75	**31.55**	31,737,750	31.55
	Total > 50 WWS	1,340	3,148,285	53.09	11.48	0.83	7.81	**73.20**	3,081,053	74.80
	South America		1,846,230	40.17	9.97	0.25	8.57	**58.97**	1,846,230	58.97
	Oceania		342,520	11.20	12.73	2.78	16.78	**43.50**	342,520	43.50

	Europe		5,093,300	16.09	12.28	0.47	8.72	**37.56**	5,093,300	37.56
	North America		5,172,810	11.35	9.97	0.34	7.71	**29.37**	5,172,810	29.37
	Asia		16,703,380	12.28	7.80	0.16	9.72	**29.96**	16,703,380	29.96
	Africa		997,770	17.95	3.20	0.65	3.99	**25.79**	997,770	25.79
	Middle East		1,581,740	1.02	0.46	0.00	3.55	**5.04**	1,581,740	5.04

[1]Energy data from 2024

[2]Energy data from 2023

If no footnote (including for the world and regional totals), the energy data are from 2025. Sources: Ember (2026) for all countries/territories, except for South Georgia/South Sandwich Islands, Lesotho, Central African Republic, Israel, Ukraine, and Tokelau, which are from IRENA (2026). Updated from Jacobson (2020). Data do not include behind-the-meter (BTM) distributed resources; only in-front-of-the-meter grid-connected resources.

Table 2. Q3 2025-Q2 2026 wind-water-solar (WWS) grid and behind-the-meter (BTM) electricity produced as a percent of grid plus BTM electricity demand in each U.S. state and Washington D.C. and in the U.S. as a whole. WWS electricity sources include wind, utility PV+CSP, BTM PV, geothermal, and hydro. (a) 2025 population by U.S. state and D.C. (b) Q3 2025-Q2 2026 yearly (GWh/y) all-sector retail electricity sales, which equals grid demand, by state and D.C. (c) grid plus BTM demand, where BTM demand equals BTM supply (BTM PV does not contribute to retail electricity sales but instead reduces grid demand); (d-h). Q3 2025-Q2 2026 yearly net generation (GWh/y) by WWS generator during the same period, less 4.7% transmission and distribution (T&D) losses for all generators except BTM PV, all divided by grid plus BTM demand (col. c) in each state. This is the contribution to end-use consumption (grid plus BTM demand) of all WWS produced in the state. (i) Total WWS (including BTM PV) electricity generation, less T&D losses, as a percent of grid plus BTM demand (col. c). (j) Q3 2025-Q2 2026 average residential retail electricity price rank by state (1 = state with lowest electricity price). (k) Q3 2025-Q2 2026 average residential retail electricity price in each state.

					In-state WWS production as % of grid + BTM demand							
		(a) 2025 Population (mil.)	(b) Retail electricity sales = grid demand (GWh/y)	(c) Grid + BTM Demand (GWh/y)	(d) Hydro as % of grid + BTM demand	(e) Wind as % of grid + BTM demand	(f) Geothermal as % of grid + BTM demand	(g) Utility PV as % of grid + BTM demand	(h) BTM PV as % of grid + BTM demand	(i) Total WWS as % of grid + BTM demand =d+e+f+g+h	(j) Electricity price rank	(k) Electricity price (¢/kWh)
1	**South Dakota**	0.93	13,851	13,859	38.11	86.00	0.00	3.08	0.06	127.25	16	14.16
2	**Montana**	1.14	15,140	15,309	70.36	42.06	0.00	1.89	1.10	115.40	10	13.83
3	**Washington**	8.06	90,408	91,178	79.54	9.02	0.00	0.68	0.84	90.07	13	14.03
4	**Wyoming**	0.59	17,417	17,461	6.81	74.94	0.00	2.67	0.25	84.67	15	14.12
5	**Iowa**	3.26	59,593	60,186	2.13	69.01	0.00	2.10	0.99	74.22	14	14.03
6	**Kansas**	2.99	42,256	42,475	0.06	70.03	0.00	1.62	0.52	72.22	19	15.01
7	**Oregon**	4.29	62,134	62,923	49.22	15.00	0.28	4.27	1.25	70.03	25	15.53
8	**New Mexico**	2.14	32,381	33,229	0.44	46.09	0.21	20.57	2.55	69.87	21	15.21
9	**Maine**	1.41	11,113	12,536	19.08	22.49	0.00	12.48	11.35	65.40	47	28.90
10	**Idaho**	2.03	26,674	27,000	39.54	11.09	0.28	6.32	1.21	58.44	2	12.53
11	**Oklahoma**	4.13	74,869	75,157	2.03	53.60	0.00	1.63	0.38	57.64	8	13.54
12	**North Dakota**	0.80	30,222	30,226	7.99	49.35	0.00	0.00	0.01	57.35	1	12.45
13	**California**	39.66	238,512	275,005	9.12	5.59	3.67	19.71	13.27	51.36	50	33.01
14	**Nevada**	3.32	40,609	43,005	3.12	0.71	8.70	30.88	5.57	48.98	7	13.47
15	**Colorado**	6.01	56,666	59,073	3.29	28.53	0.00	10.35	4.07	46.24	31	16.46
16	**Texas**	31.85	519,046	524,670	0.20	24.34	0.00	12.35	1.07	37.96	27	15.93
17	**Alaska**	0.74	6,315	6,338	32.19	2.15	0.00	0.12	0.36	34.83	44	26.86
18	**Vermont**	0.65	5,493	5,853	18.61	5.60	0.00	3.92	6.15	34.29	40	23.69
19	**Nebraska**	2.02	39,060	39,127	3.57	28.03	0.00	0.68	0.17	32.45	3	12.76
20	**Hawaii**	1.45	9,119	10,820	0.89	4.70	2.27	8.41	15.72	32.00	51	42.94
21	**Arizona**	7.69	95,435	101,443	4.78	3.16	0.00	16.32	5.92	30.18	23	15.45
22	**Minnesota**	5.83	66,154	66,685	1.58	21.75	0.00	4.89	0.80	29.02	28	16.17
23	**New York**	20.00	143,522	149,160	16.23	4.19	0.00	3.60	3.78	27.81	45	28.05
24	**Utah**	3.56	35,323	36,465	2.52	1.95	1.23	17.47	3.13	26.31	5	13.32
25	**Illinois**	12.78	134,794	137,418	0.05	18.03	0.00	5.69	1.91	25.68	35	18.67
26	**Indiana**	6.97	105,360	105,801	0.31	9.82	0.00	7.67	0.42	18.21	32	16.93
27	**New Hampshire**	1.42	11,198	11,640	10.28	3.71	0.00	0.03	3.80	17.81	43	26.32
28	**Arkansas**	3.11	53,426	54,037	5.10	0.74	0.00	9.30	1.13	16.27	6	13.33
29	**Rhode Island**	1.12	7,550	7,865	0.00	2.12	0.00	9.32	4.01	15.44	48	29.17
30	**Michigan**	10.20	100,043	100,497	1.46	9.34	0.00	3.64	0.45	14.90	38	20.77
31	**Massachusetts**	7.21	52,150	56,566	1.31	1.09	0.00	4.37	7.81	14.58	49	30.36
32	**Missouri**	6.28	80,439	81,279	1.12	8.33	0.00	3.23	1.03	13.72	11	13.84
33	**North Carolina**	11.21	140,842	141,918	2.81	0.62	0.00	8.75	0.76	12.94	17	14.59
34	**Wisconsin**	5.99	70,734	71,181	3.37	2.52	0.00	5.70	0.63	12.22	36	18.67
35	**Florida**	23.84	258,776	264,330	0.06	0.00	0.00	9.59	2.10	11.75	22	15.42

36	**Connecticut**	3.71	27,826	29,747	1.09	0.04	0.00	2.68	6.46	10.26	46	28.25
37	**West Virginia**	1.77	34,129	34,222	3.37	4.82	0.00	0.81	0.27	9.27	24	15.52
38	**Alabama**	5.20	89,392	89,392	7.52	0.00	0.00	1.64	0.00	9.16	30	16.40
39	**Georgia**	11.30	154,456	155,098	1.71	0.00	0.00	6.92	0.41	9.05	20	15.01
40	**Maryland**	6.31	59,743	61,607	2.16	1.15	0.00	2.68	3.03	9.01	39	20.82
41	**Tennessee**	7.31	107,646	107,731	6.97	0.00	0.00	1.58	0.08	8.63	9	13.55
42	**New Jersey**	9.62	74,076	78,240	0.00	0.02	0.00	2.55	5.32	7.90	41	23.71
43	**Virginia**	8.89	146,462	147,571	0.74	0.03	0.00	6.23	0.75	7.75	29	16.34
44	**Kentucky**	4.63	75,713	75,904	4.70	0.00	0.00	2.77	0.25	7.72	12	13.89
45	**Ohio**	11.94	165,826	166,493	0.24	1.69	0.00	5.19	0.40	7.53	34	18.09
46	**Mississippi**	2.94	49,986	50,021	0.00	1.00	0.00	6.28	0.07	7.35	18	14.76
47	**South Carolina**	5.57	85,891	86,568	2.49	0.00	0.00	3.99	0.78	7.26	26	15.58
48	**Pennsylvania**	13.14	143,778	145,469	1.61	2.30	0.00	1.36	1.16	6.43	37	20.54
49	**DC**	0.71	10,146	10,552	0.00	0.00	0.00	0.49	3.85	4.34	42	24.01
50	**Louisiana**	4.61	98,343	98,739	0.77	0.00	0.00	2.55	0.40	3.72	4	13.07
51	**Delaware**	1.07	11,667	11,904	0.00	0.03	0.00	1.67	1.99	3.69	33	17.72
	U.S. total	**343.41**	**4,081,704**	**4,180,901**	**5.94**	**10.96**	**0.36**	**7.45**	**2.37**	**27.07**		**17.92**

Sources: EIA (2026a) for electricity generation, EIA (2026b) for retail sales of electricity, and EIA (2026c) for residential retail electricity price. Updated from Jacobson (2020). During the period, South Dakota also produced 15.3% of its demand from fossil gas and 11.6%, from coal after 4.7% T&D losses were accounted for. Thus, South Dakota produced a total of ~154% of its demand with WWS plus fossils but exported the excess 54%.

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