

Table P5B. Primary energy production estimates, renewable and total energy, in trillion Btu, ranked by state, 2023

Rank	Renewable energy							Total primary energy ^b		
	Biofuels ^{a, b}		Wood and waste ^c		Other ^d		Total renewable energy ^b			
	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu	State	Trillion Btu
	United States	2,704.5	United States	2,392.2	United States	3,272.6	United States	8,369.3	United States ^e	102,670.5
1	Iowa	611.5	Georgia	232.0	Texas	524.9	Iowa	782.9	Texas	27,104.7
2	Nebraska	268.8	Alabama	168.6	California	452.6	Texas	742.1	Pennsylvania	10,101.8
3	Illinois	231.9	Virginia	125.8	Washington	239.7	California	634.3	New Mexico	7,651.8
4	Minnesota	192.2	Louisiana	118.1	Iowa	149.1	Washington	352.3	West Virginia	6,089.9
5	Indiana	181.5	California	114.6	New York	137.1	Illinois	343.2	Wyoming	5,845.6
6	South Dakota	178.5	North Carolina	113.0	Oklahoma	132.2	Nebraska	319.3	Louisiana	4,997.7
7	Louisiana	123.1	Florida	112.9	Oregon	131.9	Minnesota	304.0	North Dakota	4,491.9
8	Texas	118.8	South Carolina	104.7	Florida	99.0	Georgia	270.0	Oklahoma	4,393.8
9	North Dakota	102.2	Pennsylvania	99.6	Kansas	94.8	Indiana	257.2	Colorado	3,559.3
10	Ohio	93.1	Texas	98.5	Illinois	89.8	Louisiana	247.5	Ohio	3,001.4
11	Kansas	88.5	Michigan	96.7	Colorado	79.5	South Dakota	230.6	Illinois	2,201.1
12	Wisconsin	79.0	Washington	90.7	Arizona	71.9	New York	219.2	California	1,641.6
13	California	67.2	Wisconsin	76.2	New Mexico	63.3	Florida	212.1	Alaska	1,320.8
14	Missouri	66.5	New York	74.3	Minnesota	61.2	Alabama	210.4	Alabama	1,103.2
15	Michigan	46.7	Arkansas	66.4	Nevada	61.1	Oregon	192.8	Kentucky	850.5
16	Tennessee	25.7	Maine	57.5	North Carolina	59.1	Kansas	188.2	Virginia	834.5
17	Pennsylvania	23.6	Oregon	57.4	North Dakota	57.6	Michigan	187.5	Utah	825.7
18	Washington	21.9	Mississippi	55.3	South Dakota	48.7	Oklahoma	181.9	Indiana	809.0
19	Wyoming	20.5	Minnesota	50.6	Montana	47.0	Wisconsin	173.9	Iowa	782.9
20	Colorado	19.7	Ohio	49.4	Nebraska	46.0	North Carolina	172.4	Montana	767.1
21	Montana	18.0	Tennessee	44.0	Michigan	44.1	Ohio	163.7	South Carolina	705.7
22	Oklahoma	16.5	Oklahoma	33.2	Indiana	44.1	North Dakota	160.5	Arkansas	671.3
23	New Mexico	13.8	Massachusetts	32.4	Idaho	42.1	Virginia	154.0	Georgia	660.6
24	Kentucky	11.5	Indiana	31.6	Georgia	38.0	Pennsylvania	151.4	North Carolina	614.9
25	Alabama	8.7	Kentucky	31.0	Wyoming	34.0	South Carolina	124.3	Kansas	614.2
26	Arkansas	8.0	Idaho	26.0	Alabama	33.1	Missouri	110.6	Michigan	580.4
27	New York	7.9	New Hampshire	24.5	Tennessee	31.3	Colorado	108.5	Florida	531.6
28	Idaho	6.1	Connecticut	23.0	Missouri	29.1	Tennessee	101.0	New York	516.8
29	Mississippi	5.5	Iowa	22.3	Pennsylvania	28.3	Arkansas	90.4	Tennessee	501.6
30	Connecticut	3.8	Illinois	21.5	Virginia	28.1	New Mexico	83.9	Washington	440.4
31	Oregon	3.6	New Jersey	20.8	Massachusetts	25.3	Maine	82.8	Minnesota	428.7
32	New Hampshire	0.8	Missouri	15.0	Maine	25.2	Arizona	81.6	Arizona	411.1
33	Hawaii	0.8	Maryland	13.5	Utah	23.9	Idaho	74.2	Nebraska	401.3
34	Nevada	0.3	Vermont	11.6	Ohio	21.2	Montana	72.4	New Jersey	335.4
35	North Carolina	0.2	Arizona	9.7	South Carolina	19.6	Nevada	64.8	Mississippi	313.7
36	Florida	0.2	Colorado	9.3	Wisconsin	18.7	Mississippi	64.0	Wisconsin	275.1
37	Massachusetts	0.1	Montana	7.4	New Jersey	18.4	Kentucky	59.7	South Dakota	236.0
38	Virginia	0.1	West Virginia	7.0	Kentucky	17.3	Massachusetts	57.8	Maryland	217.0
39	Maine	0.1	New Mexico	6.8	Maryland	16.6	Wyoming	56.2	Missouri	210.0
40	Georgia	(s)	Utah	5.6	Arkansas	16.0	New Jersey	39.2	Oregon	192.9
41			Kansas	4.9	West Virginia	12.6	Connecticut	35.0	Connecticut	177.9
42			Rhode Island	4.7	Hawaii	12.1	New Hampshire	33.3	New Hampshire	133.0
43			Hawaii	4.6	Connecticut	8.3	Maryland	30.1	Maine	82.8
44			Nebraska	4.5	Vermont	8.0	Utah	29.5	Idaho	76.9
45			South Dakota	3.4	New Hampshire	8.0	Vermont	19.6	Nevada	66.0
46			Alaska	3.4	Alaska	6.7	West Virginia	19.6	Massachusetts	57.8
47			Nevada	3.4	Louisiana	6.4	Hawaii	17.5	Vermont	19.6
48			Wyoming	1.8	Rhode Island	4.2	Alaska	10.1	Hawaii	17.5
49			Delaware	1.7	Mississippi	3.2	Rhode Island	8.9	Rhode Island	8.9
50			District of Col.	1.0	Delaware	1.7	Delaware	3.3	Delaware	3.3
51			North Dakota	0.7	District of Col.	0.8	District of Col.	1.8	District of Col.	1.8

^a Biodiesel, fuel ethanol, and renewable diesel. For the production of biodiesel and fuel ethanol, equal to the Btu input of biomass feedstock (such as corn for ethanol and soy for biodiesel).

^b U.S. total includes other biofuels not allocated to the states.

^c Wood energy production and biomass waste energy consumption.

^d Consumption of noncombustible renewable energy, including geothermal, hydroelectric power, solar, and wind energy.

^e U.S. total includes federal offshore production of crude oil and natural gas not allocated to the states.

(s) = Less than 0.05 trillion Btu.

Note: Totals may not equal sum of components due to independent rounding.

Data source: U.S. Energy Information Administration, State Energy Data System. See technical notes.

<https://www.eia.gov/state/seds/>